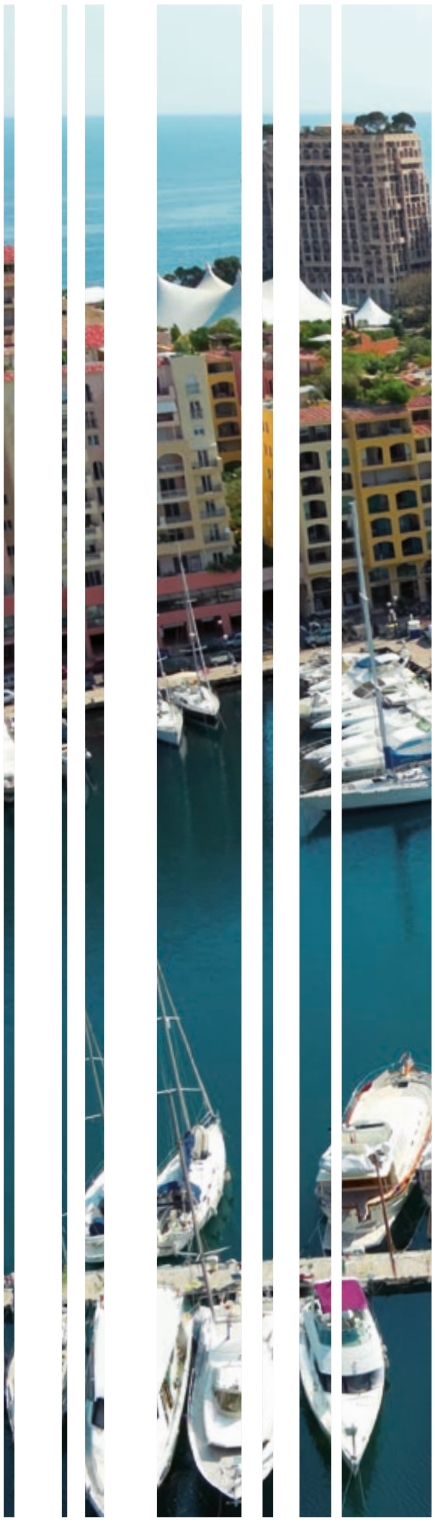
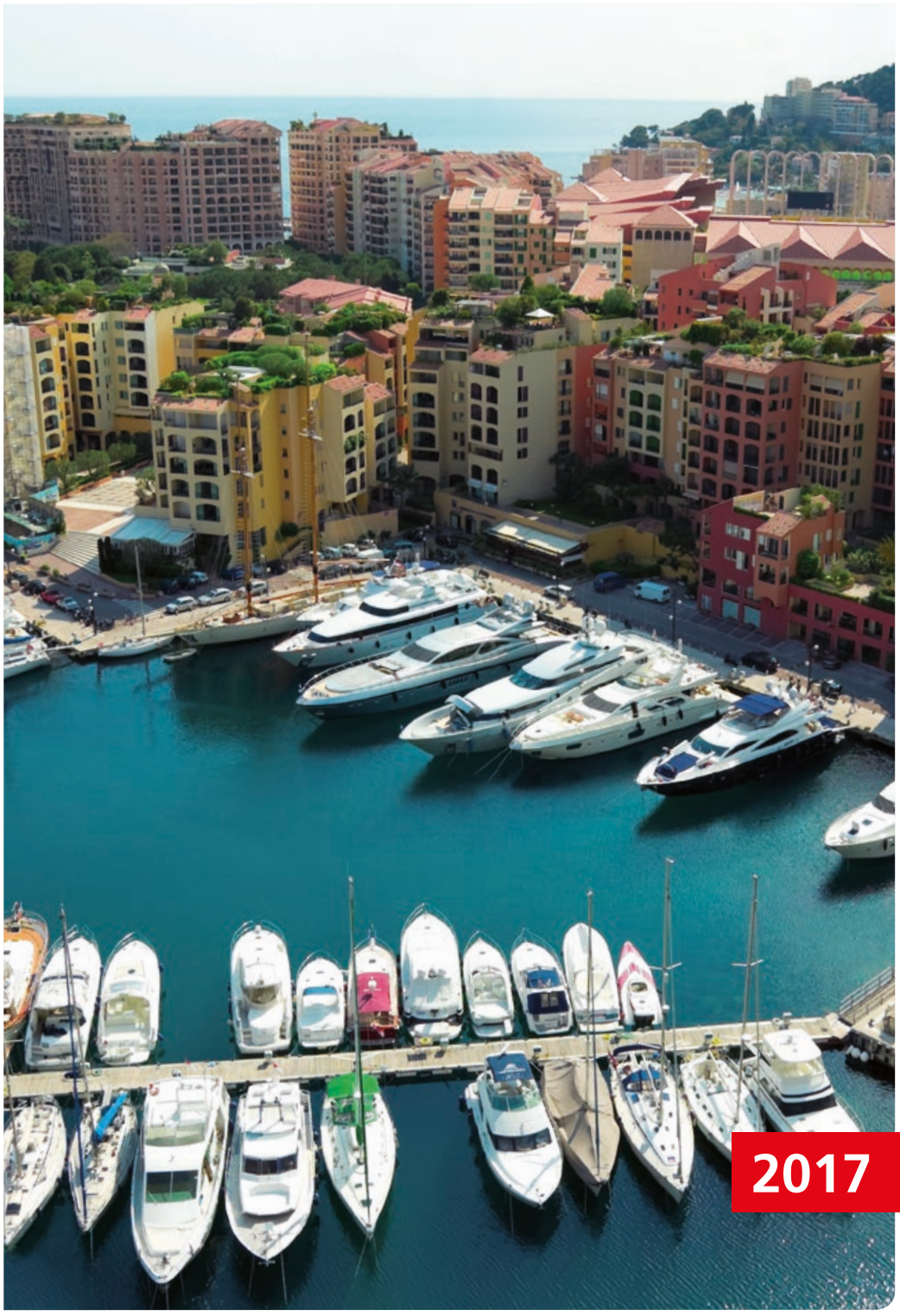
Webasto
Feel the Drive

Marine Catalog





2017

Table of contents

Cover picture: Photo courtesy of Jérôme Kélagopian / Jeanneau ©

Welcome to Webasto marine

Dear Customers, Dear Partners,

Our Webasto marine team is permanently listening and collecting your ideas to improve comfort on board, your needs to simplify your systems, your suggestions to facilitate installations and ease diagnosis, even from a remote location. Our long-term innovation-based growth strategy which has made up our success over the last years could not be implemented without these great contributions. We take the opportunity given by this new edition of our marine catalog to thank you again for your support and partnership. We do hope that the numerous new products which are once again being launched in this catalog, will match your initial expectations and enhance our complete on board climate solutions with many additional benefits valued by your own customers.

In this new marine catalog 2017, we are introducing several very interesting innovations in each of our product ranges: heating, cooling and marine roofs. We would highlight here only one of them. With the new BlueCool A-Series, we are proposing a new revolutionary design for air handlers, solving the well-known issues of water drainage thanks to our very innovative Instant Drain condensate management system. When you will discover that these products are, in addition, controlled by a new superb, customizable touch screen, the BlueCool MyTouch, you will realize the enormous growth potential of this new range.

The purpose of this catalog is not only to give you a complete, practical insight into our large marine product portfolio but also to enable you to build complete climate solutions adapted to the demands of your customers for heating, cooling, light and fresh air on board. Should you require a custom-made solution for a special project, our engineering teams also have the capability to develop customized products to support you. The new BlueCool Q-Series is the result of such a project. Just get in touch with us! International service and consistent quality of support are an essential part of our customer excellence programs. The marine catalog is only one element of the complete set of tools and services with which we systematically provide to every Webasto marine partner. Please don’t hesitate to register for our technical training sessions, to request access to our dealer portal, to download our diagnosis and calculation tools, our product information and marketing materials. We are here to support your business so that your customers can enjoy the same high quality service with our products worldwide.

Our financial strength, our unique product portfolio, our large international dealer network and our understanding of your key strategic challenges for the future have positioned us as your supplier of choice when it comes to complete comfort solutions. We would like to thank you again for your continuous feedback and your trust in our products. Your success is our success!

Your Webasto Marine Team

What's new?

The new marine catalog provides you with detailed information on our core products as well as on our added-value accessories. You can then build safe applications and deliver fast, professional assistance to your own customers. As every year, Webasto brings you great new products:

New BlueCool Q-Series
- High capacity chillers as project based development
- Modular concept allows to combine multiple units into one integrated system
- Easy maintainable semi-hermetic compressor
- Heat exchanger tubes with highly efficient tube geometry and anti-fouling profile on the coolant side
- Detachable end cover of tube condenser to permit mechanical cleaning of the pipes
- Several customer specific options available such as gauges, redundancy controls, CAN bus interfaces etc.
- Optional 100% pump-down capacity for making circuit repairs without recovering the refrigerant
- The dimensions of the unit can be adapted to customer requirement. This ensures that the available space on board is optimally used
- Solid metal frame allows handling by forklifts and cranes
- Silent blocks below frame effectively reduce vibrations if required
- Entire cooling system can be configured with redundancy to ensure full cooling system availability
- Up to 6 compressors can be controlled by one central control system
- Different compressor voltages available
- Webasto also offers commissioning service to ensure proper system installation and functioning
- Integrates Webasto's BlueCool Expert diagnosis and set up tool

New BlueCool A-Series
- Three possible shapes to cope with any installation demand: Compact, Slimline and Low profile
- Innovative Instant Drain Condensate Management System
- Complete drainage of condensate tray at all times
- High performance with high cooling capacity and high air flow
- Tested under extreme tropical conditions
- With the new MyTouch display as standard user interface

NEW

New BlueCool MyTouch
- New Touch display control unit as standard for all BlueCool A/C series
- Intuitive operation thanks to simple symbols and a clearly organized control menu in ten languages
- Three digital designs allow to customize the user menu
- Upload of own logo or photograph as standby image
- New functions such as a timer, error messages with descriptions, display of operating values and a configuration of the standby display
- Compatible with Vimar Eikon, Eikon Evo and other cover plates

BlueSky Hatch: New Unique, Electrical Sliding Hatch
- Smooth operation ensures more comfort
- Plug-and-play installation resulting in short installation times
- Insulated panels for less heat inside the boat
- Attractive look of the panel
- Tilting and sliding mechanism
- The selected dimension ensure a good and easy fit on the wheelhouse or cockpit canopy

New MultiControl user interface
- Continuous heating or ventilation without limitation
- Programming of three different timers for seven days in advance
- Simple on/off functionality
- Feedback function
- Can be operated quickly and intuitively
- Easy installation without drilling holes
- With instant-on key: heat at the touch of a button
- Clearly arranged display of all start and stop times programmed and/or activated

New Air Top 2000 STC marine kits
- Low noise DP42 dosing pump with PWM operation
- New external temperature sensor with new design
- Transparent fuel hose for easy inspection
- Easy combination with new MultiControl
- Easy to service and maintain, diagnostic capability
- Improved combustion air silencer reduces noise level

BlueCool Q-Series

BlueCool A-Series

BlueCool MyTouch

Blue Sky Hatch

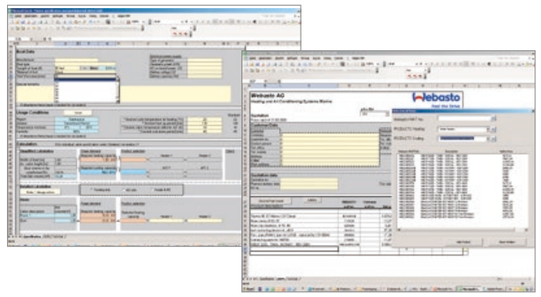
MultiControl user interface

Air Top 2000 STC marine kits

We are here to develop your business

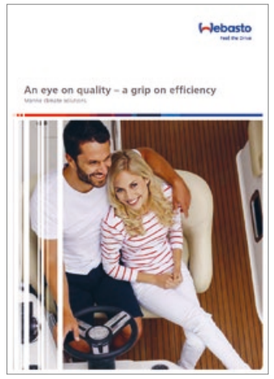
Marine website
- **webasto-marine.com**
- Quick and appealing product guide
- International dealer locator
- Multi-lingual access
- Marine configurator

Dealer portal
- **http://dealers.webasto.com**
- Easy access to complete Webasto documentation
- Powerful search and download tools
- Login-protected access to technical data and applications



Webasto quote generator
- All the Webasto expertise at your finger tips
- Accurate quotations documented professionally
- Quick response to your customer requests
- Fresh air calculation included
- Accurate calculation of the cooling or heating demand
- The Webasto quote generator also exists for professional roof quotations

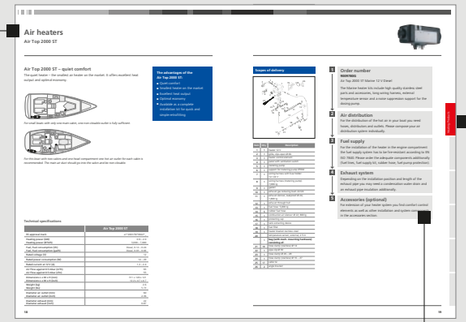
Marine training program and technical guidelines
- Powerful product training – also web-training
- Regular updates on new features
- Various modules adapted to audience
- Important guidelines for safe application engineering
- CAD model downloads



Marketing documentation and materials
- Marine marketing materials: product brochures, flyers, advertising templates, banners
- Marine animations
- Product data sheets
- Dealer packages

This catalog has been designed to help you in defining a complete comfort solution for boats and yachts.

Page header indicates which part and type of information you reached within each product section:
Product overview, scopes of delivery, accessories, etc.



Colored labels give you direct access to the product range

Page indication for fast access to accessories, etc.

Heating products

Which heater for your boat?

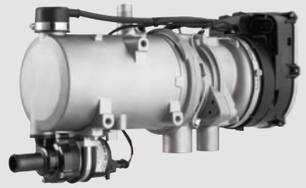
Along with specific marine installation kits we deliver innovative high-quality air and water heaters, which contribute to the enhancement of comfort on board. These two technologies offer economical, powerful and reliable solutions with heating outputs ranging from 2 kW up to 35 kW. Thus, there is a Webasto heating solution for every need.

Air heaters

- Short heating-up times thanks to effective output
- Available as a complete installation kit for quick and simple retrofitting
- Dehumidification of the cabins
- Silent operation
- Ideal for sailing and motor boats up to 45 feet
- Constant coziness thanks to an electronic thermostat
- Low operating costs
- Practical ventilation function
- Meet current requirements and standards relating to boats
- Simple to install
- Compact, space-saving design

or

Water heaters



- Heating comfort just like at home
- Even distribution of warmth by means of radiators
- Hot water for the shower and galley
- Silent operation
- Space-saving installation in the engine room
- Excellent possibilities for combining with Webasto BlueCool air-conditioning systems
- Separate temperature control in every cabin
- Low fuel consumption
- Compact design
- Preheating of the engine possible to avoid cold starts
- Meet current requirements and standards relating to boats
- Robust aluminum casing, resistant to high temperature or salt

Air heaters

3 Heaters in 1 with the Air Top Evo M control!

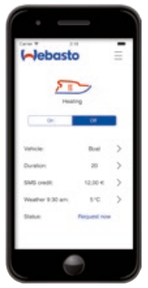
- Available as an upgrade on all Webasto Air Top Evo heaters
- Multi mode operation to match your individual heating power demands:

ECO mode for reduced electrical power consumption

Power mode PLUS for maximum heating power output

Ventilation mode to provide fresh and cool air to your cabins on a hot day

- Easy connection of Webasto Telestart and Thermocall possible
- Elegant design and easy operation
- Greater comfort with our innovative Webasto App: Run your air heater easily with a smartphone



Air heaters

Product overview

Air Top 2000 STC SEE PAGE 18

NEW

Air Top Evo 40 SEE PAGE 20

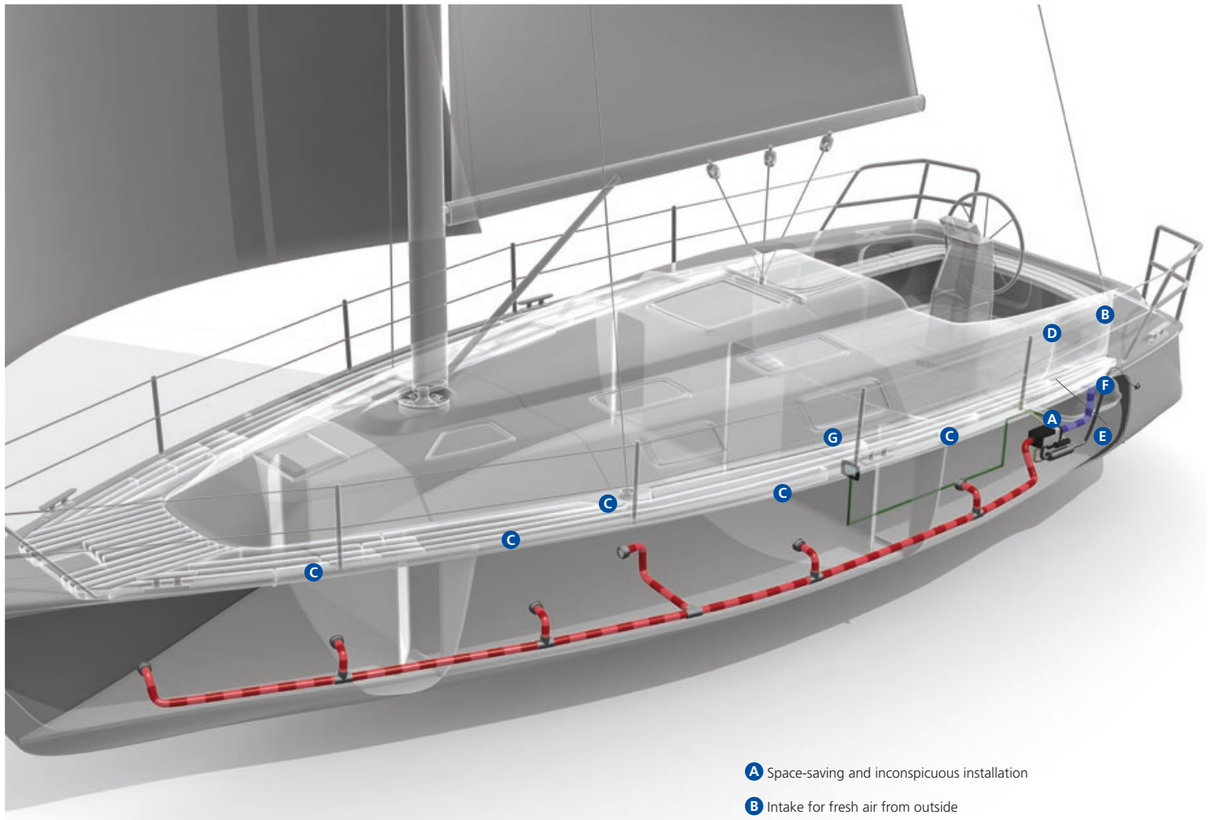
Air Top Evo 55 SEE PAGE 22

Technical specifications

	Air Top 2000 STC	Air Top Evo 40*	Air Top Evo 55*
ECE R122 (Heater) ECE R10 (EMC)	E1 122R- 00 0216	E1 000385 E1 035529	E1 000385 E1 035529
Heat output (kW) Heat output (BTU/h)	0.9 – 2.0 3,000 – 7,000	1.5 – 3.5 (4.0*) 5,100 – 12,000 (13,600*)	1.5 – 5.0 (5.5*) 5,100 – 17,000 (18,800*)
Fuel, Fuel consumption (l/h) Fuel, Fuel consumption (gal/h)	Diesel, 0.12 – 0.24 Diesel, 0.03 – 0.06	Diesel, 0.18 – 0.43 (0.49) Diesel, 0.04 – 0.11 (0.12)	Diesel, 0.18 – 0.61 (0.67) Diesel, 0.04 – 0.15 (0.17)
Rated voltage (V)	12	12, 24	12, 24
Rated power consumption (W)	14 – 29	15 – 40 (55)	15 – 95 (130)
Rated current (for 12 V) (A)	1.2 – 2.4	1.3 – 3.3 (4.6)	1.3 – 7.9 (10.8)
Rated current (for 24 V) (A)	–	0.6 – 1.7 (2.3)	0.6 – 4.0 (5.4)
Air Flow against 0.5 mbar (m^3/h) Air Flow against 0.5 mbar (cfm)	93 55	max. 132 (140) 77.7 (82)	max. 200 (220) 117.7 (129.4)
Dimensions L x W x H (mm) Dimensions L x W x H (inch)	311 x 120 x 121 12.2 x 4.7 x 4.7	423 x 148 x 162 16.6 x 5.8 x 6.3	423 x 148 x 162 16.6 x 5.8 x 6.3
Weight (kg) Weight (lbs)	2.6 5.73	5.9 13	5.9 13
Diameter air outlet (mm) Diameter air outlet (inch)	60 2.36	90 3.54	90 3.54
Diameter exhaust (mm) Diameter exhaust (inch)	22 0.87	24 0.94	24 0.94

Air heaters

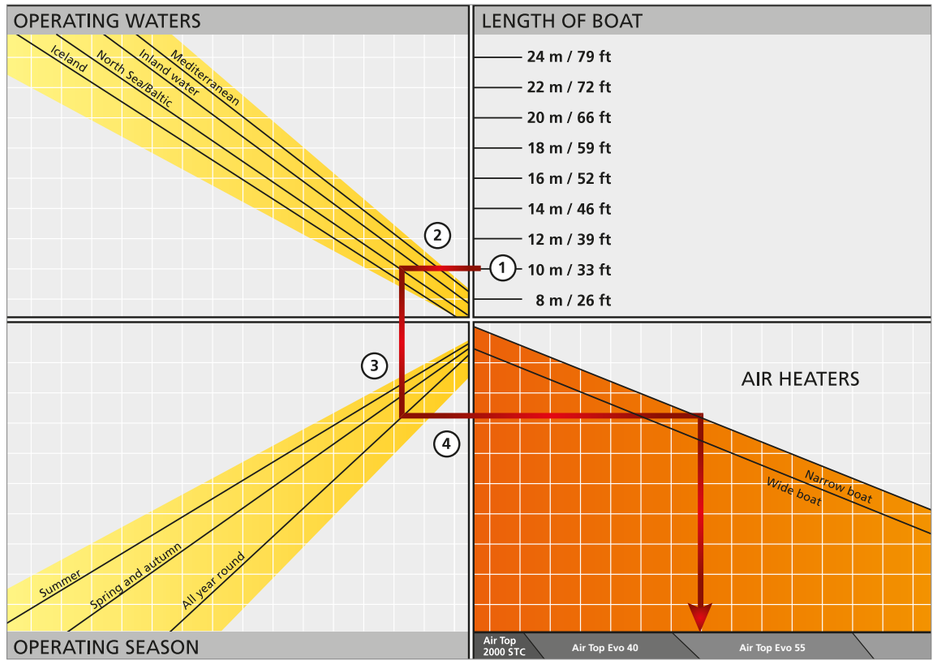
Application concept



- **A** Space-saving and inconspicuous installation
- **B** Intake for fresh air from outside
- **C** Outlets for even distribution of warm air
- **D** Safe and clean: the fuel system
- **E** Combustion-air intake
- **F** Stainless steel exhaust
- **G** Controls – simple and logical to use

Air heaters

Selection tool



What's the best air heating system for my boat?

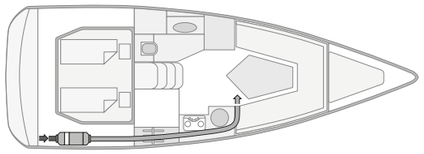
1. Select the length corresponding to your boat.
2. From there, trace a line to the left until you come to the line corresponding to the waters in which you plan to operate.
3. From there, trace a line vertically downwards until you come to the line corresponding to the season in which you plan to operate.
4. From there, trace a line to the right: You find the line corresponding to your type of boat in the upper section and then trace a line vertically downwards – that's the recommended system.

Air heaters

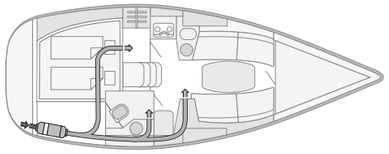
Air Top 2000 STC

Air Top 2000 STC – quiet comfort

The quiet heater – the smallest air heater on the market.
It offers excellent heat output and optimal economy.



For small boats with only one main cabin, one non-closable outlet is fully sufficient.



For this boat with two cabins and one head compartment one hot air outlet for each cabin is recommended. The main air duct should go into the salon and be non-closable.

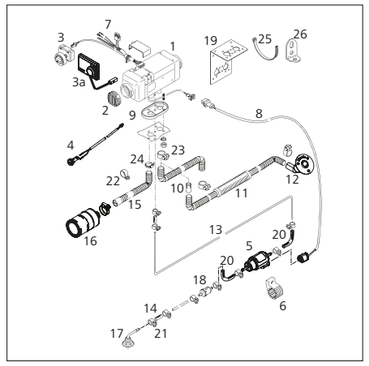
The new advantages of the Air Top 2000 STC marine kits

- Low noise dosing pump with PWM operation
- New external temperatur sensor with new design
- Transparent fuel hose for easy inspection
- Easy combination with new MultiControl
- Easy to service and maintain, diagnostic capability
- Full W-bus compatibility of the heater
- Improved combustion air silencer reduces noise level

Technical specifications

	Air Top 2000 STC
EC approval mark	E1 122R- 00 0216
Heating power (kW) Heating power (BTU/h)	0.9 – 2.0 3,000 – 7,000
Fuel, Fuel consumption (l/h) Fuel, Fuel consumption (gal/h)	Diesel, 0.12 – 0.24 Diesel, 0.03 – 0.06
Rated voltage (V)	12
Rated power consumption (W)	14 – 29
Rated current at 12 V (A)	1.2 – 2.4
Air Flow against 0.5 mbar (m^3/h) Air Flow against 0.5 mbar (cfm)	93 55
Dimensions L x W x H (mm) Dimensions L x W x H (inch)	311 x 120 x 121 12.2 x 4.7 x 4.7
Weight (kg) Weight (lbs)	2.6 5.73
Diameter air outlet (mm) Diameter air outlet (inch)	60 2.36
Diameter exhaust (mm) Diameter exhaust (inch)	22 0.87

Scopes of delivery



Item	Qty	Description
1	1	heater 12 V
2	1	grille, clips open Ø 60
3	1	heater control element
3a	1	MultiControl
4	1	Temperature sensor, external 2.5 m
5	1	metering pump
6	1	support for metering pump EPDM
7	1	wiring harness with fuse holder 12 / 24 V
8	1	wiring harness (metering pump) 7,000 lg
9	1	gasket
10	1	exhaust gas reducing bush 22/24
11	1	exhaust silencer, leakproof Ø 24; 1,800 lg
12	1	exhaust through hull
13	1	transparent fuel hose: 5,000 lg
14	5	rubber fuel hose
15	1	Combustion air intake hose 300 lg
16	1	Combustion air intake silencer
17	1	tank extracting device
18	1	fuel filter
19	1	heater bracket stainless steel
20		Vibration damper for fuel hose
	1	**bag (with mech. mounting hardware) consisting of:**
21	10	hose clamp (stainless) Ø 14
22	1	pipe clip Ø 30
23	1	hose clamp Ø 26 – 28
24	1	hose clamp (stainless) Ø 16 – 27
25	17	cable tie
26	2	angle bracket

1

Order number

NEW

9032164B
Air Top 2000 STC Marine 12 V Diesel
with standard heater control element

9034777B
Air Top 2000 STC Marine 12 V Diesel
with MultiControl

The Marine heater kits include high quality stainless steel parts and accessories, external temperature sensor and effective combustion and exhaust air silencers.

2

Air distribution

For the distribution of the hot air in your boat you need hoses, distributors and outlets. Please compose your air distribution system individually.

3

Fuel supply

For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840. Please order the adequate components additionally (fuel lines, fuel supply kit, rubber hose, fuel pump protection).

4

Exhaust system

Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

5

Accessories (optional)

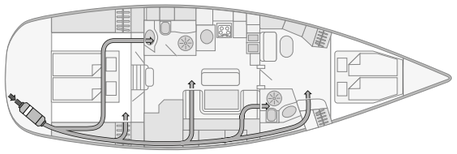
For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

Air heaters

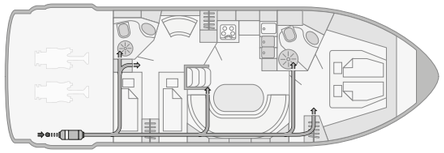
Air Top Evo 40

Air Top Evo 40 – the smart multi mode heater

High-output, compact and quiet, the heater is ideally suited for the most rigorous requirements. It can be upgraded with the new multi mode control panel to offer additional operation modes depending on individual heating requirements.



Each cabin and head compartment has its own air outlet. One outlet should be non-closable. The temperature sensor as well as the main air outlet is in the salon. The fresh air is taken in via the rear locker from outside.



In motor boats, the heater is usually placed in the engine compartment. The fresh air has to be taken in from outside the engine room. Special attention needs to be paid to a fire-resistant fuel supply system. One of the outlets should be non-closable.

The advantages of the Air Top Evo 40:

- 4.0 kW power for fast heating
- Very low electrical power consumption due to new Intelligent Blower Control
- New flame detection through exhaust gas temperature sensor
- Automatic cold start function for quick warm-up
- Improved air intake silencer
- Vibration dampers for fuel line
- Compatible to new MultiControl digital user interface
- Very silent operation due to lower blower speed and silent fuel pump (DP42)

What is the Intelligent Blower Control?

Thanks to the control of more parameters (more sensors), the heating regulation can now disconnect, to a certain extent, the heating output from the blower speed, resulting in:

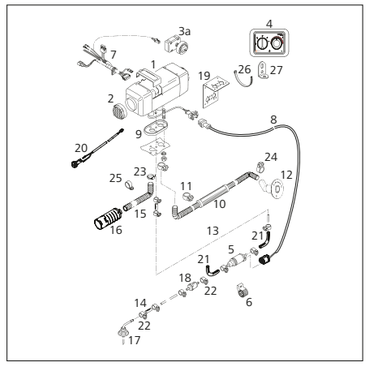
- A lower electrical consumption and lower noise on regular operation (lower motor speed for same heat output).
- A higher heat output availability for applications with higher back pressure.

Technical specifications

	Air Top Evo 40*
EC approval mark ECE R122 (Heating)	E1 000385
EC approval mark ECE R10 (EMC)	E1 035529
Heating power (kW) Heating power (BTU/h)	1.5 – 3.5 (4.0*) 5,100 – 12,000 (13,600*)
Fuel, Fuel consumption (l/h) Fuel, Fuel consumption (gal/h)	Diesel 0.18 – 0.43 (0.49) Diesel 0.04 – 0.11 (0.12)
Rated voltage (V)	12, 24
Rated power consumption (W)	15 – 40 (55)
Rated current at 12 V (A)	1.3 – 3.3 (4.6)
Rated current at 24 V (A)	0.6 – 1.7 (2.3)
Air Flow against 0.5 mbar (m^3/h) Air Flow against 0.5 mbar (cfm)	140 82.4
Dimensions L x W x H (mm) Dimensions L x W x H (inch)	423 x 148 x 162 16.6 x 5.8 x 6.3
Weight (kg) Weight (lbs)	5.9 13
Diameter air outlet (mm) Diameter air outlet (inch)	90 3.54
Diameter exhaust (mm) Diameter exhaust (inch)	24 0.94

* Boost power level for a maximum duration of 6 hrs.

Scopes of delivery



Item	Qty	Description
1	1	heater 12 or 24 V
2	1	grille
3a	1	standard heater control element
4	1	EVO M control element
5	1	metering pump 12 or 24 V
6	1	support for metering pump EPDM
7	1	wiring harness (heater); 9,500 lg
8	1	wiring harness (metering pump) 7,000 lg
9	1	gasket
10	1	exhaust silencer leakproof 1,800 lg
11	1	hose clamp Ø 28 – 35
12	1	exhaust through hull
13	1	transparent fuel hose 12 V: 5,000 lg; 24 V: 8,000 lg
14	5	rubber fuel hose
15	1	combustion air intake hose 300 lg
16	1	combustion air intake silencer
17	1	tank extracting device
18	1	fuel filter
19	1	heater bracket stainless steel
20	1	temperature sensor, external 2.5 m
21	2	vibration damper for fuel hose
	1	**bag (with mech. mounting hardware) consisting of:**
22	10	hose clamp (stainless steel) Ø 14
23	1	hose clamp Ø 16 – 27 (combustion air)
24	2	hose clamp Ø 26 – 28 (exhaust)
25	1	pipe clip (stainless steel) Ø 30
26	17	cable tie
27	2	angle bracket

1

Order number

9029249A
Air Top Evo 40 Marine 12 V Diesel
with standard heater control element

9029250A
Air Top Evo 40 Marine 24 V Diesel
with standard heater control element

9029251A
Air Top Evo 40 Marine 12 V Diesel
with Air Top Evo M control

9029252A
Air Top Evo 40 Marine 24 V Diesel
with Air Top Evo M control

The Marine heater kits include high quality stainless steel parts and accessories, long wiring harness, external temperature sensor and effective combustion and exhaust air silencers.

2

Air distribution

For the distribution of the hot air in your boat you need hoses, distributors and outlets. Please compose your air distribution system individually.

3

Fuel supply

For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840. Please order the adequate components additionally (fuel lines, fuel supply kit, rubber hose, fuel pump protection).

4

Exhaust system (optional)

Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

5

Accessories (optional)

For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

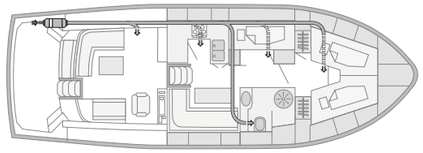
Air heaters

Air Top Evo 55

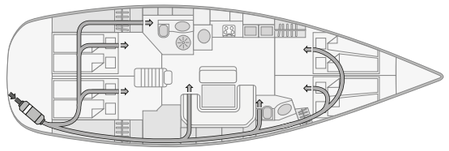
Air Top Evo 55 – for extreme conditions

Extremely powerful, compact and quiet, this heater ensures a comfortable climate for larger yachts even under the harshest conditions, and satisfies the most demanding requirements. It can be upgraded with the new multi mode user interface to offer additional operation modes depending on individual heating requirements.

Two Air Top heaters can be combined into one system for increased heating demand (up to 11 kW). The whole system can be operated via one central user interface.



Each of this five cabin yacht has an individual air outlet. The air duct to the salon as well as the front should have at least 80 mm Ø to ensure a good air flow and one of the outlets should be non-closable. The fresh air is taken in via the rear locker from outside.



With the heater in the engine compartment, the fuel supply system must be designed to be fire-resistant. The air outlet to the salon has to be non-closable. Air outlets for the other cabins or the head compartment may be closable to enable individual heat regulation.

The advantages of the Air Top Evo 55:

- 5.5 kW power for fast heating
- Very low electrical power consumption due to new Intelligent Blower Control
- New flame detection through exhaust gas temperature sensor
- Automatic cold start function for quick warm-up
- Improved air intake silencer
- Vibration dampers for fuel line
- Compatible to new MultiControl digital user interface
- Very silent operation due to lower blower speed and silent fuel pump (DP42)

What is the Intelligent Blower Control?

Thanks to the control of more parameters (more sensors), the heating regulation can now disconnect, to a certain extent, the heating output from the blower speed, resulting in:

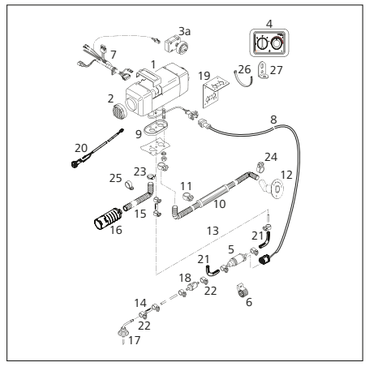
- A lower electrical consumption and lower noise on regular operation (lower motor speed for same heat output).
- A higher heat output availability for applications with higher back pressure.

Technical specifications

	Air Top Evo 55*
EC approval mark ECE R122 (Heating)	E1 000385
EC approval mark ECE R10 (EMC)	E1 035529
Heating power (kW) Heating power (BTU/h)	1.5 – 5.0 (5.5*) 5,100 – 17,000 (18,800*)
Fuel, Fuel consumption (l/h) Fuel, Fuel consumption (gal/h)	Diesel 0.18 – 0.61 (0.67) Diesel 0.04 – 0.15 (0.17)
Rated voltage (V)	12, 24
Rated power consumption (W)	15 – 95 (130)
Rated current at 12 V (A)	1.3 – 7.9 (10.8)
Rated current at 24 V (A)	0.6 – 4.0 (5.4)
Air Flow against 0.5 mbar (m³/h) Air Flow against 0.5 mbar (cfm)	220 129
Dimensions L x W x H (mm) Dimensions L x W x H (inch)	423 x 148 x 162 16.6 x 5.8 x 6.3
Weight (kg) Weight (lbs)	5.9 13
Diameter air outlet (mm) Diameter air outlet (inch)	90 3.54
Diameter exhaust (mm) Diameter exhaust (inch)	24 0.94

* Boost power level for a maximum duration of 30 min.

Scopes of delivery



Item	Qty	Description
1	1	heater 12 or 24 V
2	1	grille
3a	1	standard heater control element
4	1	EVO M control element
5	1	metering pump 12 or 24 V
6	1	support for metering pump EPDM
7	1	wiring harness (heater); 9,500 lg
8	1	wiring harness (metering pump) 7,000 lg
9	1	gasket
10	1	exhaust silencer leakproof 1,800 lg
11	1	hose clamp Ø 28 – 35
12	1	exhaust through hull
13	1	fuel hose 12 V: 5,000 lg; 24 V: 8,000 lg
14	5	rubber fuel hose
15	1	combustion air intake hose 300 lg
16	1	combustion air intake silencer
17	1	tank extracting device
18	1	fuel filter
19	1	heater bracket stainless steel
20	1	temperature sensor, external 2.5 m
21	2	vibration damper for fuel hose
	1	**bag (with mech. mounting hardware) consisting of:**
22	10	hose clamp (stainless steel) Ø 14
23	1	hose clamp Ø 16 – 27 (combustion air)
24	2	hose clamp Ø 26 – 28 (exhaust)
25	1	pipe clip (stainless steel) Ø 30
26	17	cable tie
27	2	angle bracket

1

Order number

9029256A
Air Top Evo 55 Marine 12 V Diesel
with standard heater control element

9029257A
Air Top Evo 55 Marine 24 V Diesel
with standard heater control element

9029258A
Air Top Evo 55 Marine 12 V Diesel
with Air Top Evo M control

9029259A
Air Top Evo 55 Marine 24 V Diesel
with Air Top Evo M control

The Marine heater kits include high quality stainless steel parts and accessories, long wiring harness, external temperature sensor and effective combustion and exhaust air silencers.

2

Air distribution

For the distribution of the hot air in your boat you need hoses, distributors and outlets. Please compose your air distribution system individually.

3

Fuel supply

For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840. Please order the adequate components additionally (fuel lines, fuel supply kit, rubber hose, fuel pump protection).

4

Exhaust system (optional)

Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

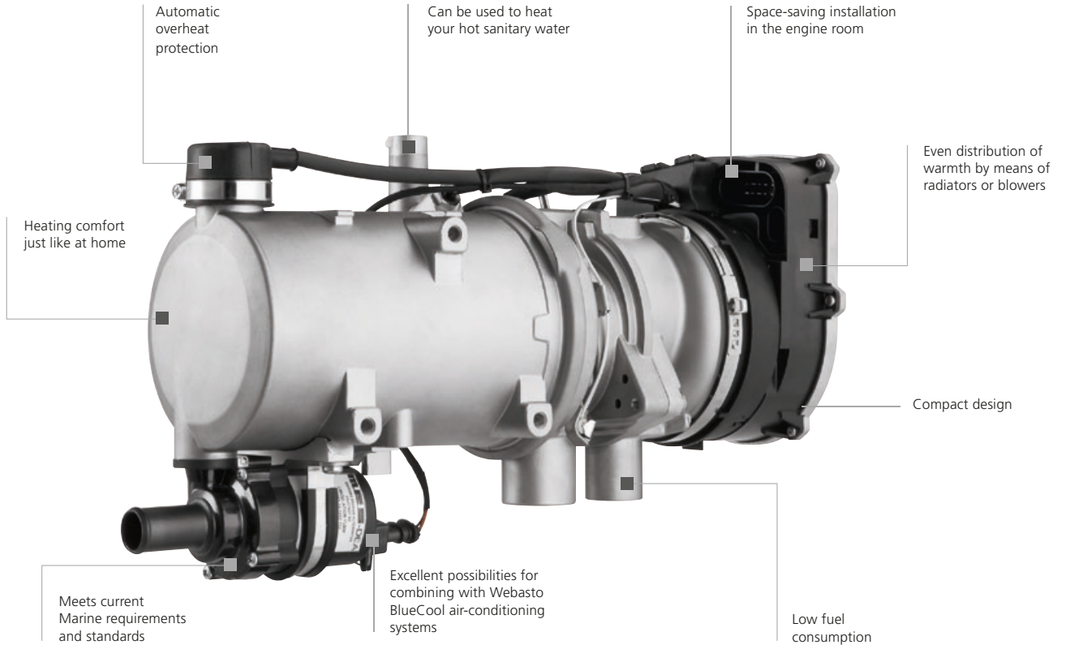
5

Accessories (optional)

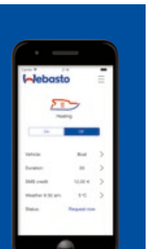
For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

Water heaters

Thermo Pro 90:
The renowned



Greater comfort with our innovative Webasto ThermoCall App.
Run your water or air heater easily with a smartphone.



Water heaters

Product overview

Thermo Top C
Thermo Pro 50 Eco

SEE PAGE 30

Thermo Pro 90
Thermo Pro 90 Chiller

SEE PAGE 32

DBW 2010/2016

SEE PAGE 34

Thermo 230/300/350

SEE PAGE 36

Water heaters

Product overview

	Part no.		EC approval mark	Heat output		Fuel, Fuel consumption	Rated Voltage		Rated power consumption		Flow rate of circulating pumps	Dimensions heater (L x W x H)	Dimensions control unit with mounting (L x W x H)	Weight heater incl. fuel pump
	12 V Diesel	24 V Diesel		part load	full load				part load	full load				
Thermo Top C Marine	9009335C	–	e1*2001/56*0002*_	2.5 kW 8,500 BTU/h	5.2 kW 17,700 BTU/h	Diesel, 0.30 – 0.61 l/h Diesel, 0.08 – 0.16 gal/h	12 V		32 W 2.7 amps	42 W 3.5 amps	500 l/h against 0.14 bar 2.2 gal/min.	214 x 106 x 168 mm 8.4 x 4.2 x 6.6 inch	95 x 61 x 61 mm 3.7 x 2.4 x 2.4 inch	3.2 kg 7.1 lbs
Thermo Pro 50 E Marine	–	9028080C	E1 00 0334 (ECE R122) E1 03 6271 (ECE R10)	2.5 kW 8,500 BTU/h	5 kW 17,100 BTU/h	Diesel, 0.30 – 0.60 l/h Diesel, 0.08 – 0.16 gal/h	24 V		28 W 1.2 amps	46 W 1.9 amps	500 l/h against 0.14 bar 2.2 gal/min.	218 x 91 x 144 mm 8.6 x 3.6 x 5.7 inch	–	2.5 kg 5.3 lbs
Thermo Pro 90 Marine	9029940C	9029941C	E1 00 0320 (ECE R122) E1 04 6196 (ECE R10)	1.8 – 7.6 kW 6,100 – 26,000 BTU/h	9.1 kW 31,000 BTU/h	Diesel 0.18 – 1.08/1.3 l/h Diesel 0.05 – 0.24/0.34 gal/h	12 V, 24 V		20 – 83 W 3.0 – 6.9 amps at 12 V 1.5 – 3.5 amps at 24 V	90 W 7.5 amps at 12 V 3.8 amps at 24 V	700 l/h against 0.3 bar 3.1 gal/min.	352 x 131 x 232 mm 13.9 x 5.2 x 9.1 inch	134 x 53 x 90 mm	5.3 kg 11.7 lbs
Thermo Pro 90 Chiller	9029942C	9029943C	E1 00 0320 (ECE R122) E1 04 6196 (ECE R10)	1.8 – 7.6 kW 6,100 – 26,000 BTU/h	9.1 kW 31,000 BTU/h	Diesel 0.18 – 1.08/1.3 l/h Diesel 0.05 – 0.24/0.34 gal/h	12 V, 24 V		20 – 83 W 3.0 – 6.9 amps at 12 V 1.5 – 3.5 amps at 24 V	90 W 7.5 amps at 12 V 3.8 amps at 24 V	700 l/h against 0.3 bar 3.1 gal/min.	352 x 131 x 188 mm 13.9 x 5.2 x 7.4 inch	134 x 53 x 90 mm	4.9 kg 10.8 lbs
DBW 2010	9023677A	9023679A	e1*2001/56*2004/78*0006_	11.6 kW 40,000 BTU/h		Diesel, 1.5 l/h Diesel, 0.4 gal/h	12 V, 24 V		60 W 5.0 amps at 12 V 2.5 amps at 24 V		1,600 l/h against 0.15 bar 7 gal/min.	584 x 205 x 228 mm 23 x 8.1 x 9 inch	111 x 117 x 49 mm 4.4 x 4.6 x 2 inch	14.5 kg 33 lbs
DBW 2016	9012936A	9012935A	e1*2001/56*2004/78*0006_	16.0 kW 54,600 BTU/h		Diesel, 1.9 l/h Diesel, 0.5 gal/h	12 V, 24 V		90 W 7.5 amps at 12 V 3.8 amps at 24 V		1,600 l/h against 0.15 bar 7 gal/min.	584 x 205 x 228 mm 23 x 8.1 x 9 inch	111 x 117 x 49 mm 4.4 x 4.6 x 2 inch	14.5 kg 33 lbs
Thermo 230	–	9810065A	e1*2001/56*0007*_	23.0 kW 80,000 BTU/h		Diesel, 2.5 l/h Diesel, 0.8 gal/h	24 V		65 W 2.7 amps at 24 V		5,200 l/h against 0.15 bar 6,000 l/h against 0.4 bar 23 gal/min. against 0.15 bar 26.4 gal/min. against 0.4 bar	610 x 246 x 220 mm 24 x 9.7 x 8.7 inch	–	19.0 kg 42 lbs
Thermo 300	–	9810066A	e1*2001/56*0008*_	30.0 kW 104,000 BTU/h		Diesel, 3.3 l/h Diesel, 0.87 gal/h	24 V		110 W 4.6 amps at 24 V		5,200 l/h against 0.15 bar 6,000 l/h against 0.4 bar 23 gal/min. against 0.15 bar 26.4 gal/min. against 0.4 bar	610 x 246 x 220 mm 24 x 9.7 x 8.7 inch	–	19.0 kg 42 lbs
Thermo 350	–	9810067A	e1*2001/56*0009*_	35.0 kW 119,400 BTU/h		Diesel, 3.7 l/h Diesel, 0.98 gal/h	24 V		140 W 5.8 amps at 24 V		5,200 l/h against 0.15 bar 6,000 l/h against 0.4 bar 23 gal/min. against 0.15 bar 26.4 gal/min. against 0.4 bar	610 x 246 x 220 mm 24 x 9.7 x 8.7 inch	–	19.0 kg 42 lbs
Water station T50/TP50	77054500	3395246A	e1*2001/56*0002*_	2.6 kW 8,800 BTU/h	5.2 kW 17,700 BTU/h	Diesel, 0.29 – 0.59 l/h Diesel, 0.08 – 0.16 gal/h	12 V, 24 V		22 – 34 W 1.8 – 2.8 amps at 12 V 0.9 – 1.4 amps at 24 V	32 – 50 W 2.6 – 4.2 amps at 12 V 1.3 – 2.1 amps at 24 V	–	390 x 235 x 310 mm 15.4 x 9.3 x 12.2 inch	–	15.0 kg 33.1 lbs
Water station TP90	3396567A	3396568A	e1*2001/56*0019*_	1.8 – 7.6 kW continuous 9.1 kW boost mode 6,100 – 26,000 BTU/h continuous 31,000 BTU/h boost mode		Diesel, 0.19 – 0.9 l/h Diesel, 0.05 – 0.24 gal/h	12 V, 24 V		37 W 3.1 amps at 12 V 1.6 amps at 24 V	83/90 W* * boost mode 7/7.5 amps at 12 V 3.5/3.8 amps at 24 V	–	390 x 235 x 310 mm 15.4 x 9.3 x 12.2 inch	–	16.5 kg 36.4 lbs

Thermo Top C Marine

Thermo Pro 90 Marine

DBW 2010/2016

Thermo 230/300/350

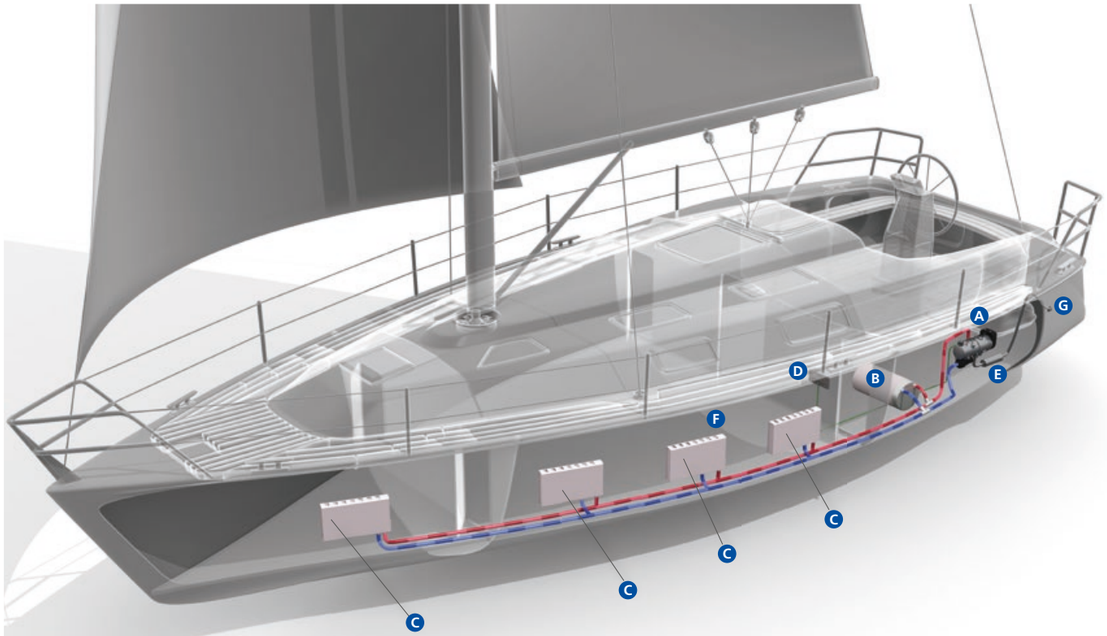
Water stations T 50/TP 50/TP 90

Water stations
DBW 2010/2016
Thermo S 160/230/300/350

Webasto water stations consist of a Webasto water heater unit, integrated in a complete system, to produce continuously hot water for various uses.
For technical data please see page 39.

Water heaters

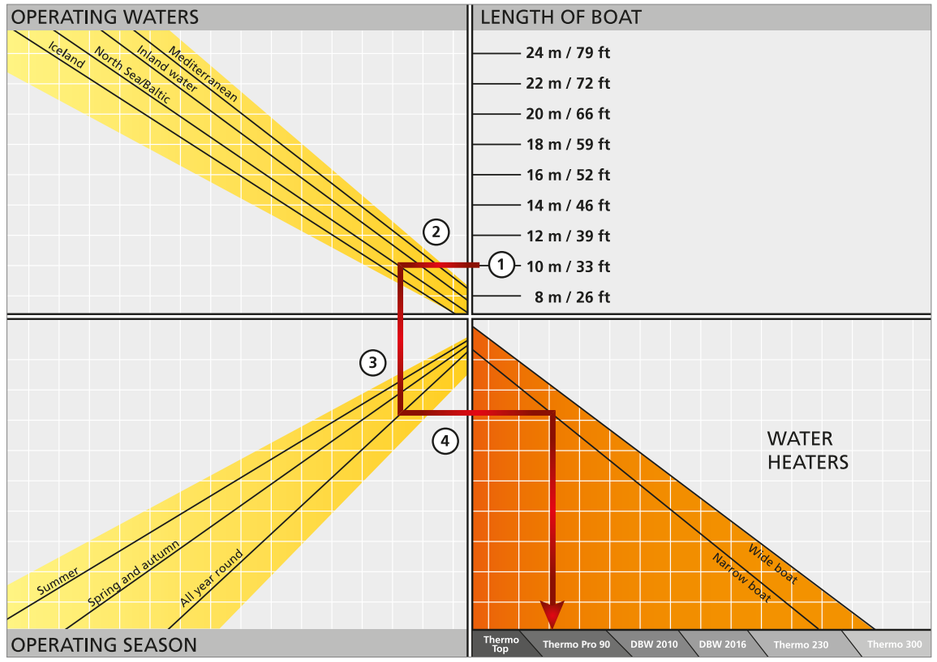
Application concept



- **A** Space-saving and inconspicuous installation in the engine room
- **B** Boiler for heating hot water – for extra comfort
- **C** One radiator for each cabin allows an individual temperature control
- **D** Controls – simple and logical to use
- **E** Circulating pump
- **F** Fresh water tank
- **G** Stainless steel exhaust

Water heaters

Selection tool



What's the best water heating system for my boat?

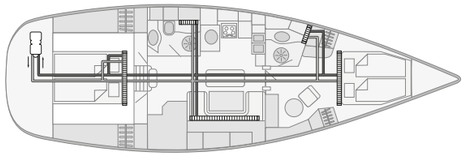
1. Select the length corresponding to your boat.
2. From there, trace a line to the left until you come to the line corresponding to the waters in which you plan to operate.
3. From there, trace a line vertically downwards until you come to the line corresponding to the season in which you plan to operate.
4. From there, trace a line to the right: Select the line corresponding to your type of boat in the lower section and then trace a line vertically downwards – that's the recommended system.

Water heaters

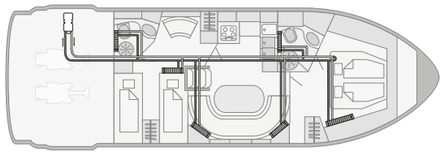
Thermo Top C / Thermo Pro 50 Eco

Thermo Top water heaters

This compact 5 kW unit is ideal for the majority of marine applications. Compact design, variable temperature control, service friendly technology and low noise levels.



The Thermo Top C is placed in the locker compartment of the boat. Radiators are used to heat up the boat, because electrical autonomy in this size of boat is often very important and radiators do not consume electricity of the battery.



The Thermo Top in the engine compartment is able to heat the entire boat. Each cabin has individually sized convectors to match the heating requirements.

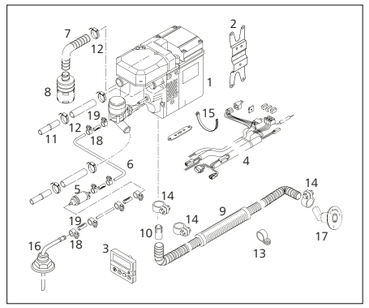
The advantages of water heaters:

- Heating comfort just like at home
- Even distribution of warmth by means of radiators
- Hot water for the shower and galley
- Silent operation
- Space-saving installation in the engine room
- Excellent possibilities for combining with Webasto BlueCool air-conditioning systems
- Separate temperature control in every cabin
- Low fuel consumption
- Compact design
- Preheating of the engine possible to avoid cold starts
- Meet current requirements and standards relating to boats
- Robust aluminum casing, resistant to high temperature or salt

Technical specifications

	Thermo Top C	Thermo Pro 50 Eco
EC approval mark	e1*2001/56*002*_	ECE R122 (Heating) E1 00 0334 ECE R10 (EMV) E1 03 6271
Heating power (kW) Heating power (BTU/h)	5.2 17,700	5.0 17,100
Fuel Fuel consumption (l/h) Fuel Fuel consumption (gal/h)	Diesel, 0.29 – 0.59 Diesel, 0.08 – 0.16	Diesel, 0.3 – 0.6 Diesel, 0.08 – 0.16
Rated voltage (V)	12	24
Rated power consumption (W) Rated power consumption (amps)	32 – 42 2.7 – 3.5	28 – 46 1.2 – 1.9
Flow rate of circulating pump (against 0.14 bar) (l/h) Flow rate of circulating pump (against 0.14 bar) (gal/min.)	500 2.2	500 2.2
Flow rate of circulating pump (against 0.10 bar) (l/h) Flow rate of circulating pump (against 0.10 bar) (gal/min.)	– 	900 4
Dimensions L x W x H (mm) Dimensions L x W x H (inch)	214 x 106 x 168 8.4 x 4.2 x 6.6	218 x 91 x 144 8.6 x 3.6 x 5.7
Weight (kg) Weight (lbs)	3.2 7.1	2.5 5.3

Scopes of delivery



Item	Qty	Description
1	1	heater 12 V (including circulating pump and electronic control unit)
2	1	heater bracket
3	1	operating control set (not with 9019718A)
4	1	wiring harness
5	1	metering pump + EPDM support
6	1	fuel hose Øi 1,5/Øa 5; 6,000 lg
7	1	air-intake hose HMA Øi 22/Øa 25; 400 lg
8	1	air-intake silencer
9	1	exhaust silencer leak-proof Ø 24; 1,800 lg
10	1	exhaust reducer
	1	**bag (mounting hardware) consisting of:**
11	2	connection pipe, plastic Ø 18 x 27
12	7	hose clamp (chrome) Ø 16 – 27
13	2	pipe clip Ø 25
14	3	pipe clip Ø 24 – 27
15	30	cable tie 178 lg
16	1	tank extracting device
17	1	exhaust through hull
	1	**bag (accessories) consisting of:**
18	8	hose clamp (steel) Ø 14
19	4	fuel hose 5 x 50

1 **Order number**

9009335C
Thermo Top C Marine 12 V Diesel
9028080C
Thermo Pro 50 Eco Marine 24 V Diesel

2 **Water system**

For the distribution of heat in your boat you may need extra hoses, valves, expansion tank, convectors, air handlers etc. Please compose your water system individually.

3 **Fuel supply**

For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840. Please order the adequate components additionally (fuel lines, fuel supply kit, rubber hose, fuel pump protection).

4 **Exhaust system**

Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

5 **Accessories (optional)**

For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

Water heaters

Thermo Pro 90/Thermo Pro 90 Chiller

Thermo Pro 90 Marine – state-of-the art controller and easy service

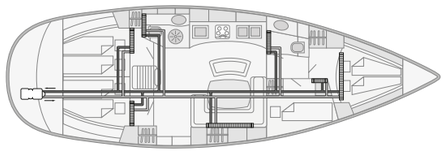
This device is ideal for daily use: infinitely variable power adjustment, high heat output, compact dimensions, service-friendly technology and an extremely low noise level.

Thermo Pro 90 Chiller – the heater for integration into an A/C system

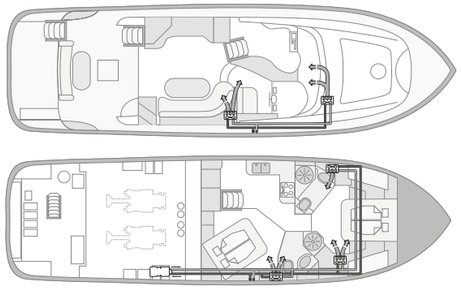
If you want to build a BlueComfort system with a Thermo 90 heater, use the Thermo Pro 90 Chiller version. It comes with a special electronic control unit and without the water pump which is not needed.

The advantages of the Thermo Pro 90:

- Ideal for daily use
- Infinitely variable power adjustment
- High heat output
- Compact dimensions
- Service friendly technology
- Extremely low noise level



This 44' sailing yacht uses convectors for all cabins to heat the boat. Convectors are noiseless and do not consume any electrical power off the battery, therefore resulting in a very high electrical autonomy.

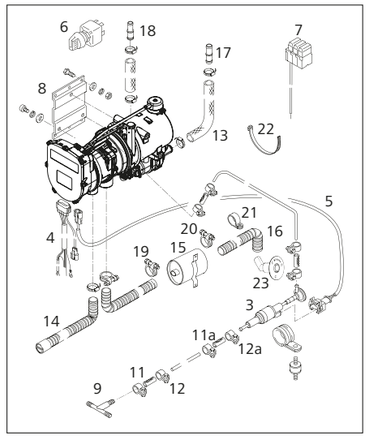


In this 40' motor yacht electrical fan blowers are used to heat up the boat. They are very compact and may be easily installed in small spaces, blowing hot air through air ducts into each cabin. The windscreen has a separate blower to demist and defrost.

Technical specifications

	Thermo Pro 90
Heating power (kW) Heating power (BTU/h)	1.8 – 7.6 kW; boost mode 9.1 6,100 – 26,000 BTU/h; boost mode 31,000
Fuel, Fuel consumption, partial/full load/boost (l/h) Fuel, Fuel consumption, partial/full load/boost (gal/h)	Diesel 0.18 – 1.08/1.3 Diesel 0.05 – 0.24/0.34
Rated voltage (V)	12, 24
Rated power consumption (W)	20 – 83 (90 Boost), 3.0 – 6.9 amps (7.5 Boost) at 12 V, 1.5 – 3.5 amps (3.8 Boost) at 24 V
Flow rate of circulating pump (against 0.3 bar) (l/h) Flow rate of circulating pump (against 0.3 bar) (gal/min.)	700 3.1
Dimensions L x W x H (mm) Dimensions L x W x H (inch)	352 x 131 x 232 13.9 x 5.2 x 9.1
Weight (kg) Weight (lbs)	5.3 11.7

Scopes of delivery



Item	Qty	Description
1	1	heater 12 or 24 V including circulating pump and electronic control unit (no circulating pump with Thermo Pro 90 Chiller)
2	1	electronic control unit
3	1	metering pump
4	1	wiring harness (heater, 570 lg)
5	1	wiring harness (metering pump, 5,000 lg)
6	1	switch with lamp 12 or 24 V (not with 9029942A and 9029943A)
7	1	fuse holder with wiring harness
8	1	heater bracket
9	1	T-piece + fuel hoses & hose clamps (8 x 5 x 8)
10	1	hose Ø 5 x 1.5; 6,000 lg
11	4	fuel hose Øi 4.5/Øa 10.5; 50 lg
11a	2	fuel hose Øi 8/Øa 12; 70 lg
12	8	hose clamp (steel; Ø 10)
12a	4	hose clamp (steel; Ø 12)
13	1	bent hose Øi 20 / Øa 29; 2,200 lg
14	1	air intake silencer PAK Øi 30,5/Øa 38; 1,160 lg
15	1	exhaust silencer Øa 38
16	1	flexible pipe (inoxyd.) Øi 38/Øa 42; 1,600 lg (1 x 1,000 mm + 1 x 600 mm)
17	2	connection pipe Ø 18 x 20
18	2	connection pipe Ø 20 x 20
19	7	hose clamp Ø 23 … 35
20	3	hose clamp Ø 39 … 42
21	2	pipe clip Ø 42
22	15	cable tie 178 lg
23	1	exhaust through hull

1

Order number

9029940C
Thermo Pro 90 Marine 12 V Diesel
9029941C
Thermo Pro 90 Marine 24 V Diesel
9029942C
Thermo Pro 90 Chiller 12 V Diesel
9029943C
Thermo Pro 90 Chiller 24 V Diesel

2

Water system

For the distribution of heat in your boat you may need extra hoses, valves, expansion tank, convectors, air handlers etc. Please compose your water system individually.

3

Fuel supply

For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840. Please order the adequate components additionally (fuel lines, fuel supply kit, rubber hose, fuel pump protection).

4

Exhaust system

Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

5

Control element

Please order an adequate control element. For the Thermo Pro 90 Chiller no control element is needed. The heater is activated via the air-conditioning control.

6

Accessories (optional)

For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

Water heaters

DBW 2010/2016

DBW 2010/2016 water heater – the robust classic

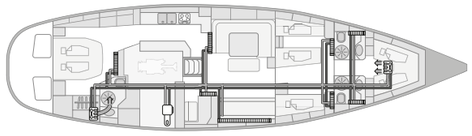
The most robust device on the market has proven itself through many years of use. The water heating system is also suitable for demanding applications with high heat output of 11.6 kW.

Expert recommendation: DBW 2010 water station

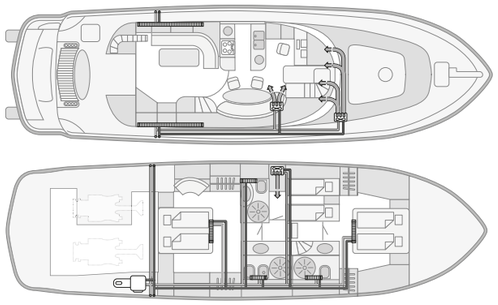
Used as a central unit, the Webasto water station is premounted on a tray for easy installation and comes with a soundproofed housing as well as a high performance circulation pump. In addition, the domestic water is heated in the Webasto calorifier as needed.

The advantages of the DBW 2010/2016:

- Most robust device on the market
- Especially suitable when high heat output is required



In this 64' sailing yacht the heater is installed in the technical compartment. Mainly convectors are used as heat exchangers. Fan blowers are only used in cabins with space restrictions or where quick heating up or air circulation is required.

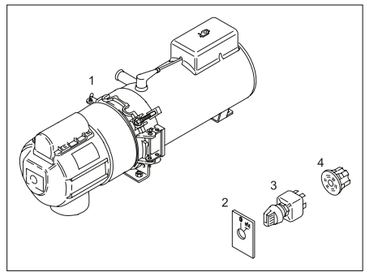


The heater in this 50' motor yacht provides heating for both decks. A combination of convectors and fan blowers is used. For heating sanitary water as well, a Webasto water station could be used to easily integrate a calorifier.

Technical specifications

	DBW 2010	DBW 2016
EC approval mark	e1*2001/56*2004/78*0006*_	e1*2001/56*2004/78*0006*_
Heating power (kW) Heating power (BTU/h)	11.6 45,000	16.0 54,600
Fuel, Fuel consumption (l/h) Fuel, Fuel consumption (gal/h)	Diesel, 1.5 Diesel, 0.4	Diesel, 1.9 Diesel, 0.5
Rated voltage (V)	12, 24	12, 24
Rated power consumption (W)	60 5 amps at 12 V 2.5 amps at 24 V	90 7.5 amps at 12 V 3.7 amps at 24 V
Flow rate of circulating pump (against 0.15 bar) (l/h) Flow rate of circulating pump (against 0.15 bar) (gal/min.)	1,600 7	1,600 7
Dimensions L x W x H (mm) Dimensions L x W x H (inch)	584 x 205 x 228 23 x 8.1 x 9	584 x 205 x 228 23 x 8.1 x 9
Weight (kg) Weight (lbs)	14.5 33	14.5 33

Scopes of delivery



Item	Qty	Description
1	1	heater 12 or 24 V
	4	hose clamps Ø 10
	1	hose clamp Ø 29
	1	gauge (for checking of spark setting)
	1	**bag (with electrical hardware) consisting of:**
2	1	plate (to item 3)
3	1	switch with lamp 12 or 24 V
4	1	central plug (to item 3)
	4	plug connector
	1	connector housing
	2	insert, male
	16	insert, male

1

Order number

9023677A
DBW 2010 12 V Diesel
9023679A
DBW 2010 24 V Diesel
9012936A
DBW 2016 12 V Diesel
9012935A
DBW 2016 24 V Diesel

2

Water system

In addition, the water pump U4846 or U4814 is needed. For the distribution of heat in your boat you may need extra hoses, valves, expansion tank, convectors, air handlers etc. Please compose your water system individually.

3

Fuel supply

Please compose the adequate system components for your boat individually. For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840.

4

Exhaust system

Please order exhaust hose, the exhaust silencer and skin fitting additionally. Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

5

Accessories (optional)

For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

Water heaters

Thermo 230/300/350

Thermo 230/300/350 – for high heating power demands

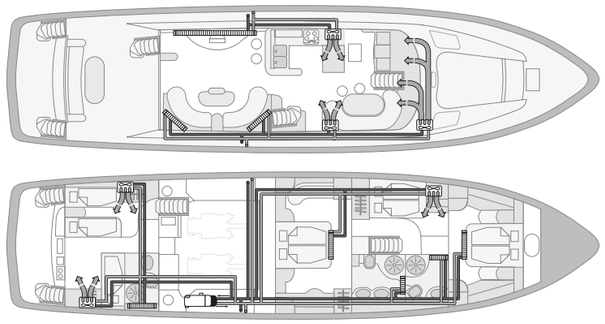
The device is suitable for very large boats. The heater has the power to keep every part of your boat warm and challenges even extreme weather conditions. In case one heater is not sufficient (e.g. very large boats) two heaters can be combined.

Expert recommendation: Thermo 230 water station

The powerful and proven Thermo 230 water station is particularly well suited for heating up large boats and yachts. It is warm and cozy on board with sufficient hot water for comfortable relaxation.

The advantages of the Thermo 230/300/350:

- Suitable for very large boats
- Challenges even extreme weather conditions

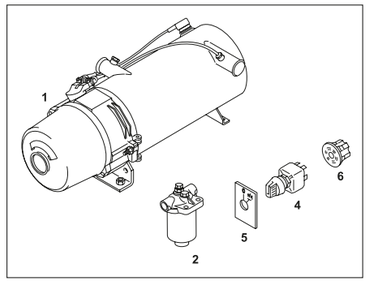


Five separate heating circuits branch off from the Thermo 230 heater in the engine room. This allows a precise water flow regulation for each segment of the boat. A combination of convectors and fan blowers is used. For the windscreen a separate fan blower ensures to quickly demist and defrost.

Technical specifications

	Thermo 230	Thermo 300	Thermo 350
EC approval mark	e1*2001/56*0007*_	e1*2001/56*0008*_	e1*2001/56*0009*_
Heating power (kW) Heating power (BTU/h)	23.0 80,000	30.0 104,000	35.0 119,400
Fuel, Fuel consumption (l/h) Fuel, Fuel consumption (gal/h)	Diesel, 2.5 Diesel, 0.8	Diesel, 3.3 Diesel, 0.87	Diesel, 3.7 Diesel, 0.98
Rated voltage (V)	24	24	24
Rated power consumption (W)	65 2.7 amps at 24 V	110 4.6 amps at 24 V	140 5.8 amps at 24 V
Flow rate of circulating pump (against 0.15 bar) (l/h) Flow rate of circulating pump (against 0.15 bar) (gal/min.)	5,200 23	5,200 23	5,200 23
Flow rate of circulating pump (against 0.4 bar) (l/h) Flow rate of circulating pump (against 0.4 bar) (gal/min.)	6,000 26.4	6,000 26.4	6,000 26.4
Dimensions L x W x H (mm) Dimensions L x W x H (inch)	610 x 246 x 220 24 x 9.7 x 8.7	610 x 246 x 220 24 x 9.7 x 8.7	610 x 246 x 220 24 x 9.7 x 8.7
Weight (kg) Weight (lbs)	19.0 42	19.0 42	19.0 42

Scopes of delivery



Item	Qty	Description
1	1	heater 24 V
2	1	fuel filter
	1	**bag (with mechanical connecting parts) consisting of:**
	2	double pipe socket M14 x 1.5
	4	nipple
	4	union nuts
	2	gasket rings etc.
	1	**bag (with electrical hardware) consisting of:**
4	1	switch with lamp 24 V
5	1	plate (to item 4)
6	4	central plug (to item 4)
	8	plug connector, 2 pole
	1	plug connector, 6 pole
	1	plug connector, 8 pole
	14	plug connector, 8 pole
	8	flat spring contacts

1

Order number

9810065A
Thermo 230 24 Volt Diesel
9810066A
Thermo 300 24 Volt Diesel
9810067A
Thermo 350 24 Volt Diesel

2

Water system

In addition a water pump e.g. from the Aquavent range is needed.
For the distribution of heat in your boat you may need extra hoses, valves, expansion tank, convectors, air handlers etc. Please compose your water system individually.

3

Fuel supply

Please compose the adequate system components for your boat individually. For the installation of the heater in the engine compartment the fuel supply system has to be fire-resistant according to EN ISO 7840.

4

Exhaust system

Please order exhaust hose, the exhaust silencer and skin fitting additionally. Depending on the installation position and length of the exhaust pipe you may need a condensation water drain and an exhaust pipe insulation additionally.

5

Accessories (optional)

For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.

Marine water stations

Plug & heat central heating units

The Webasto marine water stations are sophisticated robust solutions, designed to be used everyday, in every area and under all circumstances. The water stations have compact dimensions in all capacities (11.6 kW to 35 kW) and come with optional brackets for floor or wall mounting. The units are assembled on a stainless steel tray, fitted in a modern enclosure and operate very quietly.

Four versions in five different capacities (from 11.6 kW to 35 kW):
- Central heating
- Central heating + hot sanitary water through boiler
- Central heating + hot sanitary water through integrated plate heat exchanger
- Central heating for air-conditioner integration

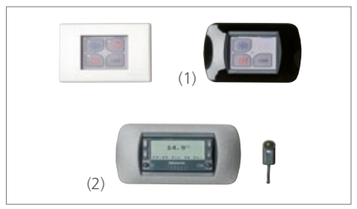
The advantages of the water stations:
- Compact dimensions, robust construction
- Pre-mounted for easy installation
- Operate on 12/24 V battery power
- Winter mode with freeze protection
- Central heating and hot sanitary water in one system
- Circulation pump, fuel filter, dedicated electronics etc. already integrated

Water station example

Buffer tank

20 liter stainless steel buffer tank
- Included in scopes of delivery
- Fully insulated
- 800 W/230 V electric heating element for freeze protection

Robust, compact casing



Controls

Control elements
(1) Standard control element included in scopes of delivery
(2) Programmable thermostat module as option. Fits Bticino cover frames

Thanks to high heat output, large amounts of continuous hot water (at 60°C) can be reached:
16 kW => 4.5 liter/min.; 23 kW => 6.5 liter/min.; 30 kW => 8.5 litre/min. at 60°C.

Technical specifications

Type of marine water stations	Function	Order number	Voltage	Heat output	Fuel consumption	Electrical power consumption	Dimensions L x W x H	Weight
DBW 2010	CH	3391617A	12 V	11.6 kW 40,000 BTU/h	1.5 l/h 0.4 gal/h	185 W 15.4 amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	38 kg 84 lbs
DBW 2010	BC	3391618A	12 V	11.6 kW 40,000 BTU/h	1,.5 l/h 0.4 gal/h	185 W 15.4 amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	38 kg 84 lbs
DBW 2010	CH	3391620A	24 V	11.6 kW 40,000 BTU/h	1.5 l/h 0.4 gal/h	185 W 7.7 amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	38 kg 84 lbs
DBW 2010	BC	3391621A	24 V	11.6 kW 40,000 BTU/h	1.5 l/h 0.4 gal/h	185 W 7.7 amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	38 kg 84 lbs
Thermo S 160	CH	3391626B	24 V	16.0 kW 54,000 BTU/h	1.6 l/h 0.42 gal/h	175 W 7.3 amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	42 kg 92 lbs
Thermo S 160	BC	3391627B	24 V	16.0 kW 54,000 BTU/h	1.6 l/h 0.42 gal/h	175 W 7.3 amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	42 kg 92 lbs
Thermo S 160	BC + C	3395546A	12 V	16.0 kW 54,000 BTU/h	1.6 l/h 0.42 gal/h	175 W 7.3 amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	38 kg 84 lbs
Thermo S 160	T	3391824B	24 V	16.0 kW 54,000 BTU/h	1.6 l/h 0.42 gal/h	175 W 7.3 amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	44 kg 97 lbs
Thermo 230	CH	3391629A	24 V	23.0 kW 80,000 BTU/h	2.5 l/h 0.8 gal/h	190 W 7.9 amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	44 kg 97 lbs
Thermo 230	T	3391630A	24 V	23.0 kW 80,000 BTU/h	2.5 l/h 0.8 gal/h	190 W 7.9 amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	48 kg 106 lbs
Thermo 230	C	3391631A	24 V	23.0 kW 80,000 BTU/h	2.5 l/h 0.8 gal/h	190 W 7.9 amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	44 kg 97 lbs
Thermo 300	CH	3391633A	24 V	30.0 kW 104,000 BTU/h	3.3 l/h 0.87 gal/h	235 W 9.8 amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	44 kg 97 lbs

Fuel = Diesel CH = central heating BC = central heating + boiler control T = central heating + tap C = central heating chiller integration

Marine water stations

Compact solutions for quick hot water production

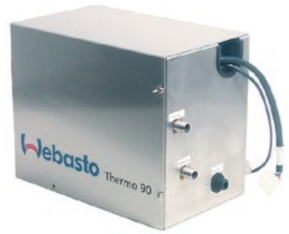
The Webasto water station acts as a central unit for the heating of the vessel's warm water heating system (such as radiators & fan heat exchangers). Additionally, domestic warm water is heated on demand using a Webasto calorifier. The switch from central heating to domestic warm water heating is done automatically.

The Webasto calorifier quickly and efficiently heats the domestic warm water by a separate coil from the engine and a coil from the Webasto water heater circuit. The additional electrical 230 V immersion heater ensures the provision of domestic warm water at shore connection.

The Webasto water stations consist of a Webasto water heater unit (e. g. Thermo Top C / Thermo Pro 90), completely integrated into a stainless steel body. This provides a quick and easy installation of the system (plug & heat).

Advantages of the Webasto plug & heat system:

- Pre-mounted heating unit in stainless steel housing
- Direct connection to the Webasto boiler
- Product package includes a fully prefitted wiring harness, exhaust and installation kit
- Simple to install
- Low-noise operation
- Compact design
- Stainless steel calorifier with high quality insulation
- May be mounted horizontally or vertically



Thermo Pro 90 water station
This robust piece of equipment has proven itself through many years of use. The water heating system is especially suitable for demanding applications thanks to a high heat output of 9.1 kW.

Scopes of delivery

Thermo Pro 50 / 90 water stations
Heater fitted in stainless steel enclosure
Control panel
Heat-only panel
Control cable length = 10 m
Exhaust silencer
Flexible exhaust pipe stainless steel length = 1.8 m
Exhaust insulation length = 1 m
Through hull fitting
Complete fuel system (mecanyl)

Type	Order number	Voltage	Heat output		Fuel consumption		Fuel	Electr. power consumption		Dimensions L x W x H	Weight
			part load	full load	part load	full load		part load	full load		
Thermo 50	77054500	12 V	2.6 kW 8,900 BTU/h	5.2 kW 17,700 BTU/h	0.29 l/h 0.08 gal/h	0.59 l/h 0.16 gal/h	Diesel	22 W 1.9 amps (12 V)	32 W 2.7 amps (12 V)	390 x 235 x 310 mm 15.4 x 9.3 x 12.3 inch	15.0 kg 33.1 lbs
Thermo Pro 50	3395246A	24 V	2.5 kW 8,500 BTU/h	5.0 kW 17,000 BTU/h	0.30 l/h 0.079 gal/h	0.65 l/h 0.17 gal/h	Diesel	28 W 1.2 amps (24 V)	46 W 1.9 amps (24 V)	390 x 235 x 310 mm 15.4 x 9.3 x 12.3 inch	15.0 kg 33.1 lbs
Thermo Pro 90	3392585B	12 V	1.8 – 7.6 kW inf. variable 6,100 – 26,000 BTU/h	9.1 kW Boost Mode 31,000 BTU/h	0.18 l/h 0.05 gal/h 1.08 l/h 0.24 gal/h	1.3 l/h 0.34 gal/h Boost Mode	Diesel	20 – 83 W 3.0 – 6.9 amps	90 W 7.5 amps	390 x 235 x 310 mm 15.4 x 9.3 x 12.3 inch	16.5 kg 36.4 lbs
Thermo Pro 90	3392955B	24 V	1.8 – 7.6 kW inf. variable 6,100 – 26,000 BTU/h	9.1 kW Boost Mode 31,000 BTU/h	0.18 l/h 0.05 gal/h 1.08 l/h 0.24 gal/h	1.3 l/h 0.34 gal/h Boost Mode	Diesel	20 – 83 W 1.5 – 3.5 amps	90 W 3.8 amps	390 x 235 x 310 mm 15.4 x 9.3 x 12.3 inch	16.5 kg 36.4 lbs

Isotemp hot water boilers

Isotemp water heaters
The Isotemp water heaters deliver high water heating performances thanks to thick insulation and smart design. Indeed, the engine water heat exchanger as well as the electrical heat element are positioned in the lowest part of the tank where the water is coldest in order to ensure an equal heating of all the water in the tank. The water in- and outlets are especially designed to minimize the mixture of cold and hot water.

Product specifications:

- Large range from 15 liter to 75 liter
- 4 product lines: Basic, Slim, Square, Spa
- Extra long, corrugated coils for high heat exchange efficiency
- Special 6.0 or 7.0 bar safety valve; simple winter drain
- Ultra-thick insulation for lowest temperature loss
- Electrical plug and play
- Immersion heating element especially designed to heat also the water at the bottom of the tank
- Thermostat mixing valve standard on Basic and Slim; optional on Square and Spa
- Immersion heating element optional available in 750; 1,200; 2,000 W; 2,000 W heating element is compatible on 230 V versions only

Isotemp Double Coil boilers are the perfect option to be integrated into Webasto water heating systems. Select among three models:
Basic 24 double coil,
Basic 40 double coil or
Basic 75 double coil.

Basic

Slim

Spa

Square 16

Type	Order number	Volume	L x diameter D	Weight	Max. pressure	Valve			Immersion heater				
						Standard safety without mixing valve	LK safety without mixing valve	LK safety with mixing valve	230 V 750 W	230 V 1200 W	230 V 2000 W	115 V 750 W	115 V 1200 W
Basic													
Basic 24	602431B000003	24	470 x 395 mm	12,5	7	–	–	■	■	–	–	□	–
Basic 30	603031B000003	30	535 x 395 mm	13,5	7	–	–	■	■	–	–	□	–
Basic 40	604031B000003	40	640 x 395 mm	15,5	7	–	–	■	■	□	–	□	□
Basic 50	605031B000003	50	760 x 395 mm	17	7	–	–	■	■	□	□	□	□
Basic 75	607531B000003	75	1050 x 395 mm	24,5	7	–	–	■	■	□	□	□	□
Basic Double Coil													
Basic 24 Double Coil	602431BD00003	24	470 x 395 mm	13	7	–	–	■	■	–	–	□	–
Basic 40 Double Coil	604031BD00003	40	640 x 395 mm	16	7	–	–	■	■	□	–	□	□
Basic 75 Double Coil	607531BD00003	75	1050 x 395 mm	25	7	–	–	■	■	□	□	□	□
Slim													
Slim 15	601531S000003	15	520 x 295 mm	9	7	–	–	■	■	–	–	□	–
Slim 20	602031S000003	20	645 x 295 mm	10,5	7	–	–	■	■	□	–	□	□
Slim 25	602531S000003	25	765 x 295 mm	12	7	–	–	■	■	□	□	□	□
Spa													
SPA 15	6P1531SPA0100	15	450 x 310 mm	7,5	6	■	–	–	■	–	–	□	–
SPA 15 LK MV	6P1531SPA0003	15	450 x 310 mm	8	6	–	–	■	■	–	–	□	–
SPA 20	6P2031SPA0100	20	550 x 310 mm	9	6	■	–	–	■	–	–	□	–
SPA 20 LK MV	6P2031SPA0003	20	550 x 310 mm	9,5	6	–	–	■	■	–	–	□	–
SPA 25	6P2531SPA0100	25	650 x 310 mm	10	6	■	–	–	■	□	–	□	□
SPA 25 LK MV	6P2531SPA0003	25	650 x 310 mm	10,5	6	–	–	■	■	□	–	□	□
SPA 30	6P3031SPA0100	30	535 x 390 mm	12	6	■	–	–	■	–	–	□	–
SPA 30 LK MV	6P3031SPA0003	30	535 x 390 mm	12	6	–	–	■	■	–	–	□	–
SPA 40	6P4031SPA0100	40	640 x 390 mm	14	6	■	–	–	■	□	–	□	□
SPA 40 LK MV	6P4031SPA0003	40	640 x 390 mm	14	6	–	–	■	■	□	–	□	□
Square			Dimension L x H x W										
Square 16 LK	601631QX00000	16	400 x 180 x 560 mm	15	5	–	■	–	■	–	–	–	–
Square 16 LK MV	601631QX00003	16	400 x 180 x 560 mm	15,5	5	–	–	■	■	–	–	–	–

■ Standard □ Optional – Not available

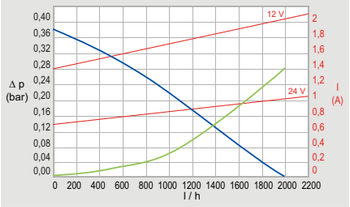
Accessories for heating systems

Circulating pumps

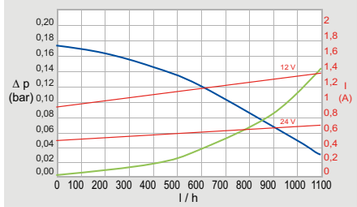
Technical features

These circulating pumps are suitable for hot water circulation. They are not designed for sea water use.

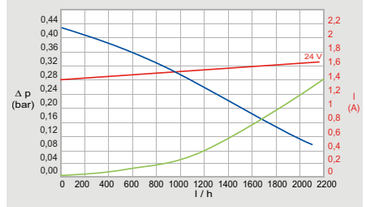
U4846



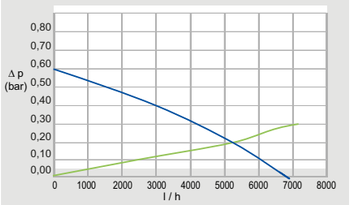
U4847 Econ



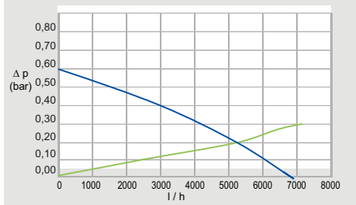
U4840



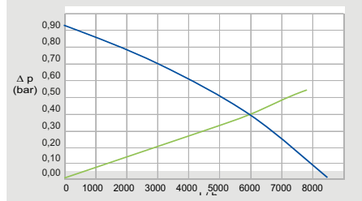
Aquavent 5000



Aquavent 5000 S



Aquavent 6000 SC



Volume flow with water/glycol mixture (50:50) 20 °C

Flow resistance when the pump is stationary

Rated power consumption

Technical data

Model overview	U4846	U4847 Econ	U4840	Aquavent		
				5000	5000 S	6000 S/6000 SC
Nominal voltage (V)	12/24			12/24	24	24
Max rated power consumption (W)	28		29	104		210
Volume flow (l/h)	700 (against 0.3 bar)	500 (against 0.14 bar)	700 (against 0.34 bar)	5,000 (against 0.2 bar)	5,000 (against 0.2 bar)	6,000 (against 0.4 bar)
Dimensions L x W x H (mm)	180 x 74 x 112	95 x 65 x 85 (130° connection piece)	134 x 53 x 90	249 x 100 x 105		229 x 110 x 115
Water connection, Ø (mm)	20			38		
Weight (kg)	0.8	0.3	0.4	2.1	2.2	2.4
Pump model	**Kit U4846 incl. fastening material**	**U4847 Econ**	**U4840**	**U4814 (AMP)**	**U4854 (AMP 6.2)**	**U4856.01 (AMP 6.3) with stand**
Order number 12 V	1322465A	9002514B	1321930A	9810032A	n.a.	n.a.
Order number 24 V	1322413A	98237B	1321932A	9810033A	9810179B	1311280B

Control elements

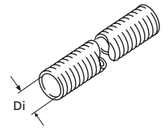
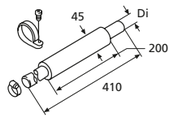
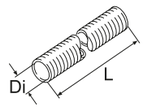
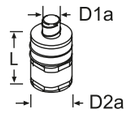
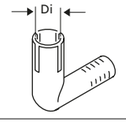
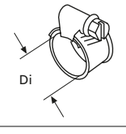
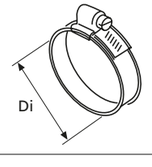
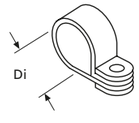
	Air Top 2000 STC	Air Top Evo 40/55	Thermo Top C	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	Thermo 230/300/350	Order number
	**Air Top Evo M control**							
	12/24 V Marine version – To be used only in combination with Webasto Air Top Evo heaters – Multi mode operation to match your individual heating power demands ECO mode for reduced electrical power consumption Power mode PLUS for maximum heating power output Ventilation mode to provide fresh and cool air to your cabins on a hot day – Easy connection of Webasto Telestart and Thermo Call possible		■							1322720A
	**Rotary selector switch Standard**							
	12/24 V – With switch function and light – Cover panel Ø 49 mm – Installation depth including plug: 55 mm	■	■							1322581A
	**Installation cover panel with switch for heating and ventilation mode**									
	– For rotary selector switch 1322581A – Black plastic		■							92240A
	Air Top standard control element									
	Additional adapter cable harness for Evo heaters		■							1320829A
NEW 	**Kit MultiControl Mar RV ATE**							
	Suitable for permanent heating	■	■							9030910C
	**Kit MultiControl Mar RV TT**							
	Suitable for permanent heating			■						9030911C
	**MultiControl holding frame**							
	– Fastened by screws at the mounting point – MultiControl is clicked into the holding frame	■	■	■						9030077A

Control elements

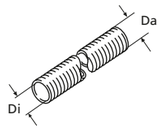
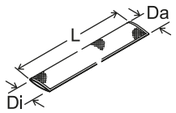
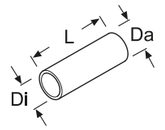
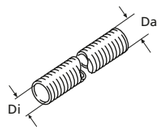
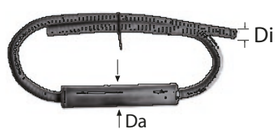
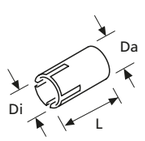
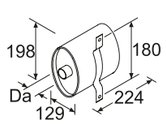
		Air Top 2000 STC	Air Top Evo 40/55	Thermo Top C	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	Thermo 230/300/350	Order number
	**Standard digital timer**								
	12 V – Integrated wake-up function 3 preselectable on-times per day, programmable 7 days in advance – Continuous heating possible				■	■			88204A
	24 V				■	■			1322636A
	– In the case of DBW 2010/2016 and Thermo 230/300/350, operation is only possible in combination with relays – Cover panel dimensions (L x W): 89 x 42 mm – Installation depth including plug: 51 mm – Limited availability due to end of production								
	**Small component kit for standard/combination timer**								
	For connection of standard and combination digital timers	■	■						88191B
	**Heater control electronic room thermostat**								
	– Switches vehicle blower, 10 to 30 V – In the case of DBW 2010/2016 and Thermo 230/300/350, operation is only possible in combination with relays – Cover panel dimensions (L x W): 89 x 42 mm – Installation depth including plug: 51 mm – Limited availability due to end of production				■	■	■	■	34875A
	**Remote control Telestart T91 Holiday with continuous heating function**								
	12 V – With check-back signal. Incl. 1 handheld transmitter with battery, receiver, self-adhesive window antenna and Y adapter	■	■	■	■	■	■	■	9018150B
	**Telestart T 100 HTM radio remote control**								
	– Including 1 hand-held transmitter with battery, receiver, self-adhesive window antenna, ESV adapter and temperature sensor HTM – Automatic heating time calculation	■	■	■	■	■	■	■	1314637A
	**Remote control by phone ThermoCall TC4**								
	Kit ThermoCall TC4 Entry – Incl. GSM module, cable harness, pushbutton – Operation via app for iOS and Android	■	■	■	■	■			9032129A
	Kit ThermoCall TC4 Advanced – Incl. GSM module, cable harness, GSM antenna, pushbutton – With HTM management – Operation via app for iOS and Android	■	■	■	■	■			9032141A
	**Rotary switch with function indicator**								
	12 V					■	■	■	109995
	24 V				■	■	■	■	109999
	– Switching current 15 amps – Green light to indicate operation – With switch position plate and connection plugs								
	**Rocker switch ON / OFF**								
	– 12/24 V – Dimensions: 23 x 23 mm (drilling hole 20 mm) – LED to indicate heater operation – Incl. wiring harness and information sheet with installation notes			■	■	■	■	■	9032550A

* Connection adaptation on request.

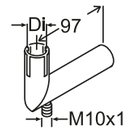
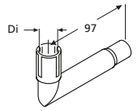
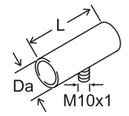
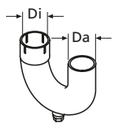
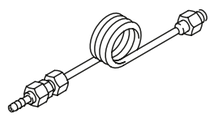
Combustion air system

		Air Top 2000 STC	Air Top Evo 40/55	Thermo Top C	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Order number
	**Flexible pipe**									
	Di = 18, L = 1,000, APGA-A				■					1319593A
	Di = 22, L = 20,000, PAK	■		■						1321565A
	Di = 25, L = 5,000, PAK		■							1321587A
	Di = 30, L = 5,000, PAK					■				1321557A
	**Air intake silencer, set**									
	Di = 22, L = 410, with mounting parts	■								1313514A
	**Air intake silencer**									
	Di = 22, L = 800, PAK, without penetration protection cap	■								1322455A
	Di = 25, L = 650, AK/PAKL, with penetration protection cap		■							1319924A
	Di = 30, L = 1,160, PAK/PAKL, without penetration protection cap					■				1319607A
	**Air intake silencer**									
	D1a = 24, D2a = 52, L = 138, plastic, complete with 300 mm flexible pipe, D1a = 24 mm		■							9025956A
	**Combustion air elbow**									
	Di = 22	■								1320144A
	Di = 25		■							1320278A
	Plastic									
	**Hose clamp**									
	Di = 16 ... 27, 10 pieces	■		■	■					9015918A
	Di = 23 ... 35, 20 pieces		■			■				1320271A
	W = 9, SW = 7, stainless steel, bolt head with hexagon and slot									
	**Hose clamp**									
	Di = 40 ... 47						■		■	1320158A
	Di = 48 ... 55								■	1320159A
	Di = 70 ... 90							■		1320223A
	SW = 8, W = 14.3, steel corrosion-resistant, bolt head with hexagon and cross-head slot									
	**Pipe clip**									
	Di = 25, W = 15, stainless steel	■			■					1320045A
	Di = 29, W = 15, steel zinc coated/rubber, rubber-coated pipe clip, fastening hole 6.4 mm, 5 pieces		■							1320235A
	Di = 33, W = 15, stainless steel, 6.5 mm fastening hole					■				1320064A

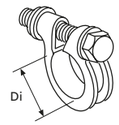
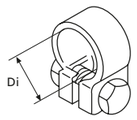
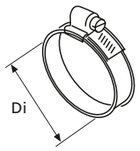
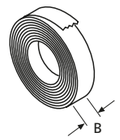
Exhaust system

		Air Top 2000 STC	Air Top Evo 40/55	Thermo Top C	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Order number
	**Flexible exhaust pipe (INOX), two-ply**									
	Di = 22, Da = 26, L = 1,000 with end cap	■		■	■					1322414A
	Di = 24, Da = 28, L = 10,000		■							1321523A
	Di = 38, Da = 41, L = 5,000					■	■			1321540A
	Di = 41, Da = 38, L = 10,000					■	■			1321541A
	Di = 38, Da = 41, L = 20,000					■	■			1321539A
	Di = 70, Da = 73.6, L = 5,000							■	■	1321568A
	Di = 70, Da = 73.6, L = 10,000							■	■	1321567A
	Stainless steel									
	**Heat protection hose**									
	Di = 70, L = 1,250	■	■	■	■	■	■			1319909A
	Di = 72, L = 1,700	■	■	■	■	■	■			1319910A
	Di = 70, L = 1,850	■	■	■	■	■	■			1320830A
	Da = 120, fiberglass									
	**Flexible heat protection pipe**									
	Di = 28, Da = 32.5, GA-A (aluminium foil and aluminium coated glass fabric)	■		■	■					1321601A
	Di = 45, Da = 48.5, GA2-A (aluminium and aluminium coated glass fabric)		■			■	■			1321602C
	L = 10,000									
	**Flexible heat protecion pipe**									
	Di = 28, Da = 38, L = 324, with cover, non-flammable, interior resistant to temperatures up to 500 °C	■		■	■					1319670A
	**Exhaust muffler**									
	Di = 24, L = 1,800	■	■	■	■					1322001A
	Di = 38, L = 1,000					■	■			1321823A
	Outside with partial fiberglass insulation									
	**Exhaust gas reducing bush**									
	Di = 22, Da = 24, L = 40, stainless steel	■								1320382A
	**Exhaust silencer**									
	Da = 38, L = 270, W = 130, stainless steel					■	■			1321397A

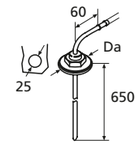
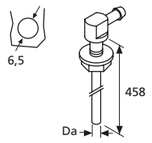
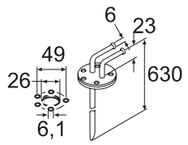
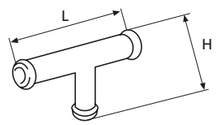
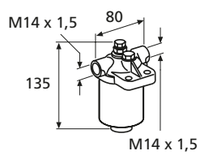
Exhaust system

		Air Top 2000 STC	Air Top Evo 40/55	Thermo Top C	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Order number
	**Insulation sleeve for exhaust silencer**									
	Glas fiber heat protection, 550 x 440 mm, with snap fastener, for part 1321397A					■	■			9028104A
	**Elbow**									
	Di = 24, L = 110, stainless steel, with condensation water drain		■							1320378A
	**Elbow**									
	Di = 24, L = 110, stainless steel, without condensation water drain		■							1320383A
	**Connection pipe**									
	Da = 24, L = 50, M6, stainless steel, without condensation water drain		■							1319937A
	Da = 24, L = 65, steel, with anti-corrosion protection and condensate drain		■							1319935A
	Da = 38, L = 65, stainless steel, for exhaust muffler 1320841A and 1320895A, with condensation water drain		■							1320959A
	**Exhaust pipe**									
	Di = 38, Da = 38, stainless steel					■	■			1319380A
	**Condensation water drain**									
	L = 128, M10 x 1 connection thread, copper, for exhaust connecting pipe 1319935A, with mounting parts		■							92621A
	**Through hull double walled straight**									
	Da = 24	■	■							1320363A
	Da = 38				■	■	■			1320983A
	Da = 70								■	3393270A
	Stainless steel									
	**Through hull double walled bended**									
	Da = 24	■	■	■						1320364A
	Da = 38				■	■	■			1320365A
	Stainless steel									

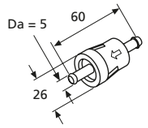
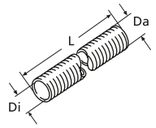
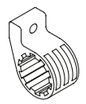
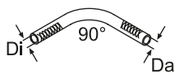
Exhaust system

		Air Top 2000 STC	Air Top Evo 40/55	Thermo Top C	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Order number
	**Hose clamp**									
	Di = 39 ... 42, W = 13.5, thread M8, steel corrosion-resistant, for flexible exhaust pipe, with screw					■	■			1320194A
	Di = 68 ... 71, steel zinc coated								■	1320081A
	**Hose clamp**									
	Di = 24 ... 26, with carriage bolt	■		■	■					1320165A
	Di = 26 ... 28, nut, welded		■							1320220A
	W = 16, thread M6, stainless steel, for flexible exhaust pipe									
	**Hose clamp / reduce wrap**									
	Di = 70 ... 90, SW = 8, steel corrosion-resistant, bolt head with hexagon and slot							■	■	1320223A
	**Insulating lagging**									
	L = 50,000, W = 60, E-glass, white, usage temperature 450 °C, 550 °C for short periods, 2 mm thick	■	■	■	■	■	■	■	■	1320357A

Fuel supply

		Air Top 2000 STC	Air Top Evo 40/55	Thermo Top C	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Order number
	**Tank extracting device, riser pipe**									
	Di = 2.6, Da = 5				■	■	■			1320399A
	Da = 8						■	■	■	1319372A
	L = 650, steel zinc coated, 90° extractor connection piece, only for installation in metal tanks									
	**Tank extracting device, riser pipe**									
	Di = 2.5, Da = 5, L = 409, thread M6, stainless steel, 90° extractor connection piece for mounting in tank fitting, suitable for plastic tank and metal tank	■	■	■	■		■			1322632A
	**Tank extracting device, riser pipe**									
	Da = 6, L = 630, steel zinc coated, with sealing						■	■	■	1322830B
	**Fuel extractor, T-piece**									
	L = 50, H = 26, 6 x 5 x 6	■	■	■	■	■				1319300A
	L = 50, H = 28, 8 x 5 x 8	■	■	■	■	■				1319301A
	L = 50, H = 28, 8 x 6 x 8 Copper						■			1320531A
	**Holder with housing for interchangeable filter**									
	L = 135, H = 80, M14 x 1.5 connection thread, light metal						■	■	■	1319291A
	**Interchangeable filter**									
	For holder 1319291A						■	■	■	1320031A

Fuel supply

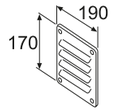
		Air Top 2000 STC	Air Top Evo 40/55	Thermo Top C	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Order number
	Connecting parts (bag)									
	Steel zinc coated, for soldered joints. Contents: double connection piece, union nuts, ring seals and sealing cone						■	■	■	1320539A
	**Fuel filter**									
	Da = 5, plastic, transparent	■	■	■	■	■				1319466A
	**Flexible heat protection pipe**									
	L = 20,000	■	■	■	■	■	■	■	■	1321584B
	L = 5,000	■	■	■	■	■	■	■	■	1321585B
	Di = 14.5, Da = 16.5, GA-A (aluminium foil and aluminium coated glass fabric)									
	**Dosing pump mounting**									
	Very quiet mounting, bag of 1 piece	■	■	■		■				1320193A
	**Fuel line decoupling kit**									
	Di = 4.5, Da = 10.5, bag with two 90° elbows	■	■							9026570B

Fuel supply systems wich are installed in the engine room of a boat need to be fire resistand according to EN ISO 7840.
Please select th required parts from the items listed below.

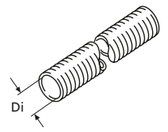
		Air Top 2000 STC	Air Top Evo 40/55	Thermo Top C	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Order number
	**Mini Jacket fuel pump protector**									
	Protection device for fuel pumps with mufflers, required by ISO 7840 if the fuel system is installed in engine rooms	■				■				1319522A
	**Metal fuel line kit for boats**									
	Di = 1.5, Da = 5, L = 5,000, EN ISO 7840, with screw fasteners, hoses and clips	■	■	■	■	■				66958B
	**Fuel line for boats**									
	Di = 1.5, Da = 5, L = 5,000, stainless steel	■	■	■	■	■				1320860A
	**Fuel hose for boats**									
	Di = 5, Da = 15, L = 50	■	■	■	■	■				1320857A

Warm air system

Air Intake

		Air Top 2000 STC	Air Top Evo 40/55	Order number
	**Louvre plate**			
	L = 190, H = 170, aluminium	■	■	1319269A
	**Screen**			
	Di = 60, plastic, black, for intake and outlet openings of heater	■		1320163A
	Di = 90		■	1310581A

Ducting

		Air Top 2000 STC	Air Top Evo 40/55	Order number
	**Flexible pipe**			
	Di = 60, L = 25,000 APK, black	■	■	1311892C
	Di = 60, L = 10,000 APK, black	■	■	1322083C
	Di = 60, L = 2,000 APK, black	■	■	1321574B
	Di = 60, L = 5,000 APK, black	■	■	1321575C
	Di = 80, L = 25,000 APK, black		■	1311893C
	Di = 80, L = 10,000 APK, black		■	1321718C
	Di = 80, L = 2,000 APK, black		■	1321576C
	Di = 80, L = 5,000 APK, black		■	1321577B
	Di = 90, L = 25,000 APK, black		■	1311894C
	Di = 90, L = 10,000 APK, black		■	1321719C
	Di = 90, L = 2,000 APK, black		■	1321578C
	Di = 90, L = 5,000 APK, black		■	1321579C
	Di = 60, L = 3,000 PAHK, black	■	■	1321511A
	Di = 60, L = 25,000, PAPK, grey	■	■	1311898C
	Di = 60, L = 10,000, PAPK, grey	■	■	1321727C
	Di = 60, L = 2,000, PAPK, grey	■	■	1321504A
	Di = 60, L = 5,000, PAPK, grey	■	■	1321505A
	Di = 80, L = 25,000, PAPK, grey		■	1311900C
	Di = 80, L = 10,000, PAPK, grey		■	1321729B
	Di = 80, L = 2,000, PAPK, grey		■	1321582B
	Di = 80, L = 5,000, PAPK, grey		■	1321583B
	Di = 80, L = 10,000, PAK, black		■	1322147B
	Di = 90, L = 25,000, PAPK, grey		■	1311902C
	Di = 90, L = 10,000, PAPK, grey		■	1321731C
	Di = 90, L = 2,000, PAPK, grey		■	1321506B
	Di = 90, L = 5,000, PAPK, grey		■	1321508A

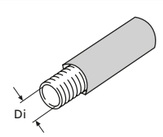
Hose specifikation

APK: Aluminium, Paper, Plastic – black, with white Webasto logo

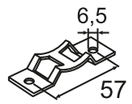
PAHK: Paper, Aluminium, High ridgidity Aluminium, Plastic – black, with white Webasto logo

PAK: Paper, Aluminium, Plastic – black, with white Webasto logo

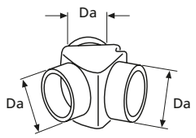
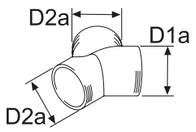
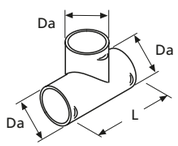
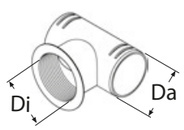
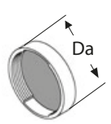
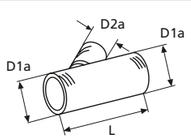
PAPK: Paper, Aluminium, Paper, Plastic – grey, with red and blue Webasto logo, extra strong 4 layer design

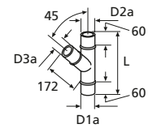
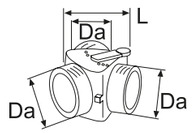
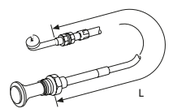
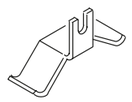
		Air Top 2000 STC	Air Top Evo 40/55	Order number
	**Insulated hoses**			
	Di = 80		■	1321515A
	Di = 90		■	1321517A
	L = 12,000, PAK			

Ducting

		Air Top 2000 STC	Air Top Evo 40/55	Order number
	**Console**			
	For mounting flexible pipes with corresponding hose clip	■	■	1321044A

Distributor

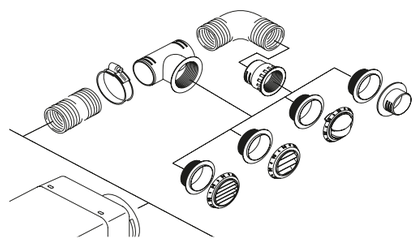
	**Distributor Y-unit**			
	Da = 55	■		1319416A
	Da = 80		■	1319212A
	Plastic, black			
	**Distributor Y-unit**			
	D1a = 80, D2a = 55, to be used in the secondary flow only		■	1320753A
	D1a = 60, D2a = 60		■	1320814A
	D1a = 90, D2a = 80		■	1320375A
	D1a = 90, D2a = 90		■	1320470A
	D1a = 80, D2a = 60		■	1320471A
	Plastic, black			
	**T-unit**			
	Da = 60	■	■	1320474A
	Da = 90		■	1320473A
	L = 110, 90°, plastic, black			
	**T-unit**			
	Di = 60, Da = 60, 90°, with thread	■	■	1320476A
	Di = 60, Da = 90, 90°, with thread		■	1320475A
	Plastic, black			
	**End Cap**			
	Da = 60	■	■	1320477A
	Da = 90		■	1319870A
	Plastic, black			
	**Junction fitting**			
	D1a = 60, L = 145	■	■	1320472A
	D1a = 90, L = 146		■	1320707A
	D2a = 60, 45°, plastic, black			

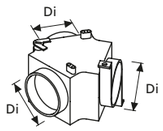
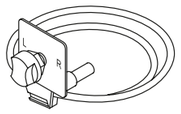
		Air Top 2000 STC	Air Top Evo 40/55	Order number
	**Junction fitting**			
	D1a = 80, D2a = 60, D3a = 60, L = 350, to be used in the secondary flow only!		■	1319314A
	D1a = 80, D2a = 80, D3a = 60, L = 350		■	1320645A
	D1a = 80, D2a = 80, D3a = 80, L = 370, 45°, steel corrosion-resistant		■	1319315A
	**Distributor**			
	Da = 55, L = 95	■		1319224A
	Da = 80, L = 124		■	1319214A
	Plastic, black, with remote control flap valve			
	**Control cable**			
	L = 850	■	■	1320785A
	L = 1,500	■	■	1320786A
	For Distributor 1319224A und 1319214A, with grip and outer sleeve			
	**Clamp**			
	For Bowden Cable 1320785A und 1320786A	■	■	1319688A

Quick-fit Hot Air Ducting System (HADS):

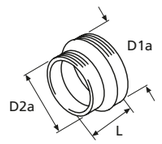
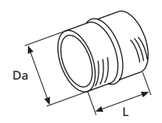
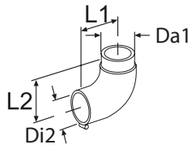
- High temperature resistance from -40 °C up to +140 °C
- PA6.6 GF30 glass fibre reinforced synthetic material
- Super easy fitting, no need for tools or screws
- Multiple combination possibilities to suit any application

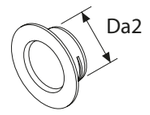
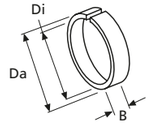
Webasto provides perfectly fitting, high quality components for an easy installation and high flexibility.



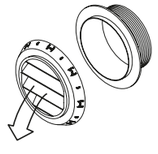
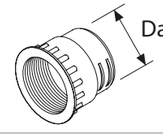
		Air Top 2000 STC	Air Top Evo 40/55	Order number
	**Distributor**			
	Di = 60	■	■	1320352A
	Di = 90		■	1320926A
	Plastic, black, with control butterfly valve			
	**Control device for distributor**			
	L = 2,000, for Distributor 1320352A and 1320926A	■	■	1319868A

Adaptors

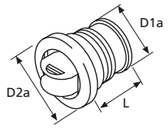
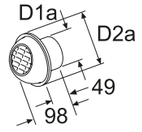
	**Reducer for air hose**			
	D1a = 60, D2a = 55, L = 35		■	1320127A
	D1a = 90, D2a = 80, L = 45		■	1320185A
	D1a = 80, D2a = 55, L = 82		■	1319477A
	Plastic, black, for flexible pipe			
	**Hose connector**			
	Da = 55, L = 55	■	■	1319473A
	Da = 60, L = 50	■	■	1320469A
	Da = 80, L = 75		■	1319476A
	Da = 90, L = 50		■	1319869A
	Synthetic material			
	**Reduction adapter**			
	Da = 60		■	1320760A
	Da = 80	■	■	1320925A
	Di = 90, plastic, black			
	**Elbow**			
	Da = 90, 90°, plastic, black		■	1320706A
	**Elbow**			
	Di2 = 80.5, Da1 = 79, L1 = 115, L2 = 120, 90°, steel corrosion-resistant		■	1319272A

		Air Top 2000 STC	Air Top Evo 40/55	Order number
	**Wall feed-through**			
	Da = 60	■	■	1320923A
	Da = 90		■	1320924A
	Plastic, black			
	**Adaptor ring**			
	Di = 55, Da = 60, for outlet 1320812A	■	■	1320224A
	Di = 70, Da = 80, for outlet 1319946A		■	1320040A
	W = 17, plastic, black			

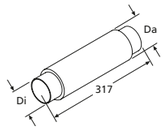
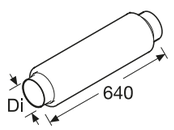
Outlets

	**Air Outlet, closeable**			
	Da = 60, black	■	■	1320206A
	Da = 60, white	■	■	1320207A
	Da = 60, grey	■	■	1320937A
	Da = 90, black		■	1320355A
	Da = 90, white		■	1320713A
	Da = 90, grey		■	1320714A
	L = 30, plastic, outlet closeable, bag with wall feed through			
	**Air Outlet**			
	Da = 60, black	■	■	1320934A
	Da = 60, white	■	■	1320935A
	Da = 60, grey	■	■	1320936A
	Da = 90, black		■	1320932A
	Da = 90, white		■	1320712A
	Da = 90, grey		■	1320711A
	L = 30, plastic, straight air flow, bag with wall feed through			
	**Air outlet, 45°**			
	Da = 60, black	■	■	1320204A
	Da = 60, white	■	■	1320205A
	Da = 60, grey	■	■	1320933A
	Da = 90, black		■	1320709A
	Da = 90, white		■	1320710A
	Da = 90, grey		■	1320354A
	L = 30, plastic, 45°, bag with wall feed through			
	**Union nut for outlet**			
	Da = 60	■	■	1320922A
	Da = 90		■	1320468A
	L = 60, plastic, black			

Warm air system

		Air Top 2000 STC	Air Top Evo 40/55	Order number
	**Air outlet**			
	D1a = 55	■		1320812A
	D1a = 70, use for secondary flow only		■	1319946A
	D2a = 100, L = 65, plastic, black, closable, with bushing			
	**Air outlet**			
	D1a = 60, D2a = 92	■		1322405A
	D1a = 80, D2a = 120		■	1319327A
	plastic, black, rotatable, with bushing, with ball-type cover			

Silencer

	**Air ducting silencer**			
	Di = 90, Da = 122, L = 317, plastic		■	1320996A
	**Air ducting silencer**			
	Di = 90, L = 600, aluminium/plasic		■	1321734A

Blower heat exchangers

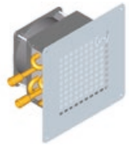
The blower modules are the ideal combination for Webasto water heaters. Thanks to their powerful blowers, the cabins of boats and yachts can be heated up quickly. Most models have an adjustable blower speed to fine-tune the air flow according to individual needs. In addition to their compact dimensions they ensure an easy installation.

The product range

Florida 3 – extra-silent single speed 3 kW model with very low power consumption

Florida 5 – Compact 3-speed 5 kW model with blower speed and heat output regulation

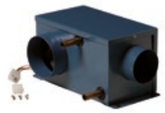
Florida 5 – Compact 3-speed 5 kW model without controls



Whisperer – Very compact and silent 1,8 kW model with single speed axial fan

Madeira 4 – Lightweight and variable 4 kW model, 3 blower speeds, choice of air outlet

Madeira 8 – Lightweight and variable 7,3 kW model, 3 blower speeds, choice of air outlet



BB4 – Compact 2,5 kW model with 3-speed blower regulation and metal casing

BB8 – Powerful 8 kW model with 3-speed blower regulation and robust metal casing

Blower speed control

The blower speed control is the perfect match for all blower heat exchangers. It provides temperature regulated automatic blower speed control or manual 5-speed blower regulation. With a variable temperature setting, everybody can find his perfect comfort climate.

Blower speed control – temperature-regulated blower speed control for the blower modules Florida 5 without controls, BB4, BB8. With separate mounting also possible for Madeira 4 and Madeira 8.

Scopes of delivery
Control element
Electronic PWM module
Temperature sensor (5 meters)

Blower heat exchangers

Model	Order number	Colour	Voltage (V)	Heat output at Q100 (kW)	Air flow at free discharge (m^3/h)	Water connection diam. (mm)	Electrical power consumption (W)	Dimensions W x H x D (mm)	Weight (kg)
Florida 3 No Noise	3200740A	light grey	12	3	120	16	12	269 x 198 x 141	1.4
	3200741A	light grey	24	3	120	16	12	269 x 198 x 141	1.4
Florida 5 with controls	3200679A	light grey	12	5.2	285	16	120	269 x 198 x 218	2
	3200680A	light grey	24	5.2	285	16	120	269 x 198 x 218	2
Florida 5 without controls	3200681A	light grey	12	5.2	285	16	120	269 x 198 x 218	2
	3200682A	light grey	24	5.2	285	16	120	269 x 198 x 218	2
Whisperer	3200673A	Inox (front)	12	1.8	120	16	8.4	210 x 210 x 125	1.2
	3200674A	Inox (front)	24	1.8	120	16	8.4	210 x 210 x 125	1.2
BB4	71174000	blue	12	2.5	190	16	38	310 x 150 x 150	3.5
	71174500	blue	24	2.5	190	16	38	310 x 150 x 150	3.5
BB8	71172000	blue	12	8	525	16	65	480 x 170 x 305	12
	3395978A	blue	24	8	525	16	65	480 x 170 x 305	12
Madeira 4	71174550	light grey and dark grey	12	4.6	200	16	70	275 x 115 x 203	1.8
	71174552	light grey and dark grey	24	4.6	200	16	70	275 x 115 x 203	1.8
Madeira 8	71174554	light grey and dark grey	12	7.3	300	16	150	376 x 115 x 250	3.1
	71174556	light grey and dark grey	24	7.3	300	16	150	376 x 115 x 250	3.1
Outlet versions									
Air grille 90 x 90 mm*	3396524A	black							
Air hose connector diam. 55 mm*	3396525A	black							

* When ordering the Madeira 4 or Madeira 8, please specify the type and amount of desired air outlets. Madeira 4 requires 2 and Madeira 8 requires 4 outlets.

Control elements									
Blower speed control	3391288B		12/24					123 x 80 x 40	0.4

* Please refer to pictures of Madeira 4 and Madeira 8 for example of air grille and hose connectors, see previous page.

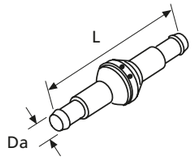
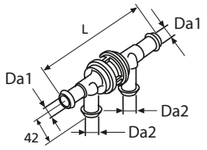
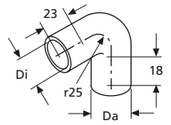
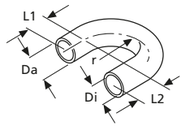
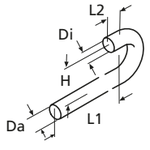
Water system

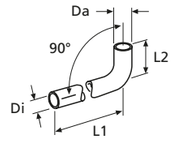
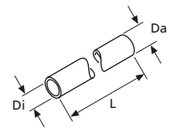
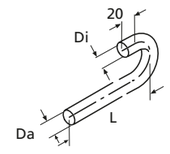
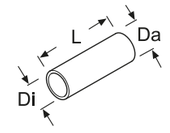
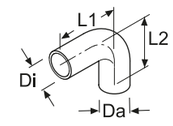
Accessories: Water system

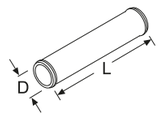
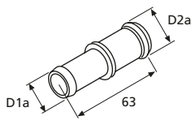
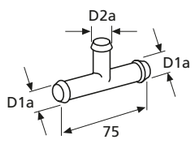
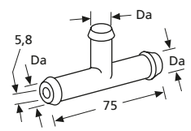
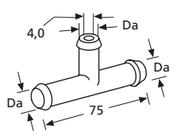
Webasto offers a wide range of high-quality Hep_2O products.

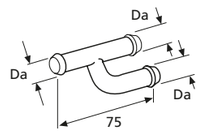
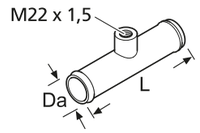
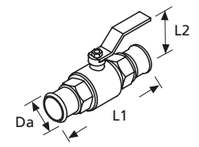
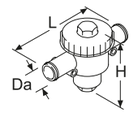
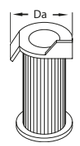
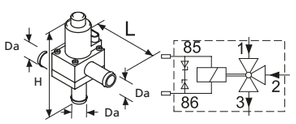
- Cabling ability – Hep_2O provides faster, safer and more cost effective installation
- Less jointing – Hep_2O flexible polybutylene pipe system requires less jointing, thus saves time and materials
- Joint security – the Hep_2O push-fit piping offers reliable jointing and safe assembly
- High resistance to impact and vibration – solder free, and the Hep_2O system is extremely strong and resistant to denting and accidental damage from impact or vibration
- Corrosion free – Hep_2O completely eliminates electrolytic corrosion and is highly resistant against aggressive salt-water and other corrosive media

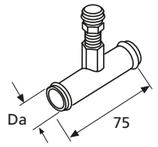
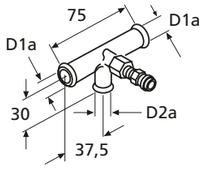
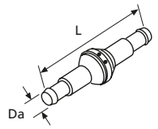
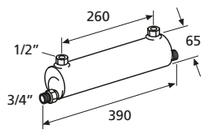
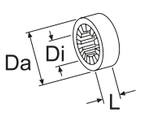
For the complete overview of Hep_2O parts please refer to the water system section for BlueCool accessories in this catalog.

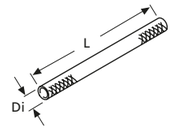
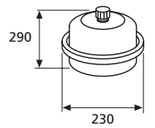
		Thermo Top C	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	Thermo 230/300/350	Order number
	**Check valve**						
	Da = 15, L = 104	■	■	■	■		1320240A
	Da = 15, L = 104	■	■	■	■		1320239A
	Da = 18, L = 90	■	■	■	■		1319250A
	Da = 18, L = 100	■	■	■	■		1319484A
	Plastic, without leak hole						
	**Check valve**						
	D1a = 18, D2a = 18, L = 146, plastic, black, with leak hole	■	■	■	■	■	1319486A
	D1a = 20, D2a = 20, L = 162, brass, with leak hole	■	■	■	■	■	1319595A
	D1a = 18, D2a = 18, L = 146, plastic, black, without leak hole H = 42	■	■	■	■	■	1319485A
	**Molded hose**						
	Di = 18, Da = 25, 90°	■	■		■		1319418A
	**Molded hose**						
	Di = 18, Da = 25, r = 25, L1 = 18, L2 = 18	■	■	■	■		1319401A
	Di = 20, Da = 27, r = 23.5, L1 = 88, L2 = 64	■	■	■	■		1319623A
	180°						
	**Molded hose**						
	Di = 15, Da = 25, L1 = 580, L2 = 17, H = 75, 180°	■	■	■	■		1320790A
	Di = 18, Da = 25, L1 = 580, 180°	■	■	■	■		1319421A
	Di = 18, Da = 25, L1 = 1,100, L2 = 17, H = 75	■	■	■	■		1322496A
	Di = 20, Da = 29, L1 = 89, L2 = 20, H = 98	■	■	■	■		1319761A

		Thermo Top C	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	Thermo 230/300/350	Order number
	**Molded hose**						
	Di = 15, Da = 22, L1 = 1,020, L2 = 50	■	■	■	■		1320789A
	Di = 18, Da = 25, L1 = 125, L2 = 90	■	■	■	■		1320907A
	Di = 18, Da = 25, L1 = 500, L2 = 48	■	■	■	■		1319953A
	Di = 18, Da = 27, L1 = 1,020, L2 = 50	■	■	■	■		1320794A
	Di = 20, Da = 27, L1 = 70, L2 = 57	■	■	■	■		1319839A
	Di = 20, Da = 27, L1 = 130, L2 = 57	■	■	■	■		1320147A
	Di = 20, Da = 27, L1 = 187, L2 = 47	■	■	■	■		1319952A
	Di = 20, Da = 27, L1 = 360, L2 = 47	■	■	■	■		1320961A
	Di = 20, Da = 27, L1 = 615, L2 = 57	■	■	■	■		1320197A
	Di = 22, Da = 29, L1 = 225, L2 = 57	■	■	■	■		1320911A
	Di = 22, Da = 29, L1 = 1,020, L2 = 50 90°	■	■	■	■		1320842A
	**Hose**						
	Di = 15, Da = 22, L = 2,400	■		■			1320300A
	Di = 18, Da = 25, L = 58	■	■		■		1321789A
	Di = 18, Da = 27, L = 2,000	■	■		■		1319379A
	Di = 20, Da = 27, L = 380	■		■			1320960A
	Di = 38, Da = 50, L = 82					■	1319591A
	Di = 38, Da = 50, L = 130					■	1319756A
	**Molded hose**						
	Di = 18, Da = 25, L = 110	■	■		■		1322493A
	Di = 20, Da = 27, L = 70	■		■	■		1321031A
	Di = 20, Da = 27, L = 190	■		■	■		1322473A
	**Hose**						
	Di = 38, Da = 47, L = 65					■	1319789A
	Di = 38, Da = 47, L = 82					■	1319970A
	Di = 38, Da = 47, L = 110					■	1319676A
	Silicone						
	**Molded hose**						
	L1 = 70, L2 = 105					■	1319934A
	Di = 38, Da = 47, 90°, silicone						

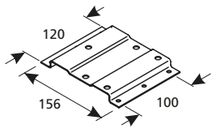
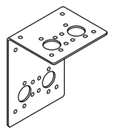
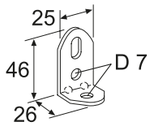
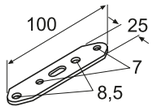
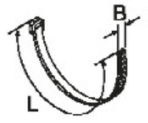
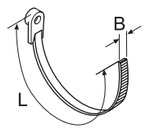
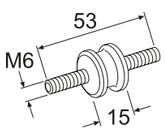
		Thermo Top C	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	Thermo 230/300/350	Order number
	**Connecting pipe**						
	D = 15, L = 75	■	■	■	■	■	1319279A
	Brass						
	**Connecting pipe**						
	D1a = 15, D2a = 20	■		■			1321000A
	D1a = 17, D2a = 20, L = 63	■	■	■			1320143A
	D1a = 18, D2a = 18	■	■		■		9006211A
	D1a = 18, D2a = 20	■	■	■	■		9005819C
	D1a = 18, D2a = 22, L = 63	■	■		■		1320155A
	D1a = 20, D2a = 20	■	■	■			1320342A
	D1a = 20, D2a = 22, L = 63	■	■	■			1319594A
	Black, plastic						
	**T-piece**						
	D1a = 15, D2a = 15, steel corrosion-resistant	■	■	■	■	■	1319289A
	D1a = 18, D2a = 15, steel corrosion-resistant	■	■	■	■	■	1320532A
	D1a = 18, D2a = 18, plastic, black	■	■	■	■	■	1321001A
	D1a = 20, D2a = 10, steel corrosion-resistant	■	■	■	■	■	1319846A
	D1a = 20, D2a = 15, steel corrosion-resistant	■	■	■	■	■	1319290A
	D1a = 20, D2a = 20, brass	■	■	■	■	■	1319602A
	L = 75						
	**T-piece with restrictor**						
	Da = 20	■	■	■	■		1319817A
	**T-piece**						
	Da = 18, L = 75, steel corrosion-resistant, with restrictor, restrictor diameter 4 mm	■	■	■	■		1319800A

		Thermo Top C	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	Thermo 230/300/350	Order number
	**Connection pipe**						
	Da = 18, L = 75, steel corrosion-resistant	■	■	■	■		1319266A
	**Connecting piece**						
	Da = 19				■		1320792A
	Da = 38					■	1319286A
	L = 100, M22 x 1.5 thread connection, steel corrosion-resistant, for thermostat						
	**Manual stop valve**						
	Da = 38, L1 = 165, L2 = 85, brass, chrome plated casing					■	1320027A
	**Shutoff valve**						
	Da = 38, L = 200, W = 85.5, H = 131, plastic PA66, operating pressure -0.5 to 4 bar, fluid temperature -30 to 110°C, weight 0.5 kg, with filter					■	1319931A
	**Filter insert**						
	Da = 38, for shutoff valve with filter 1319931A					■	1319710A
	**Solenoid valve**						
	Da = 18, L = 84, W = 55, H = 101, 12 V, metal/plastic, plastic casing, 3/2-way, open without power, bag with electrical mounting parts	■	■	■	■		9014606A

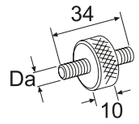
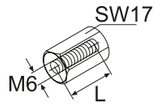
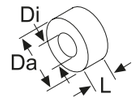
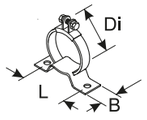
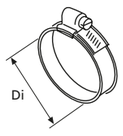
		Thermo Top C	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	Thermo 230/300/350	Order number
	**Connecting pipe**						
	Da = 15	■		■	■		1319221A
	Da = 18	■	■	■	■		1319219A
	Da = 20	■		■	■		1320989A
	Steel corrosion-resistant, with bleeder valve						
	**T-piece with bleed valve**						
	D1a = 18, D2a = 15	■	■		■		1320600A
	**Check valve**						
	Da = 18, L = 90, steel/brass	■	■		■		1319429A
	Da = 20, L = 120, plastic, black	■	■	■			1319554A
	Without leak hole						
	**Instant water heater with insulated cover**						
	Without pipe connections, copper, max. 10 bar, 2 kg, max. 23,3 kW	■	■	■	■	■	1321592A
	**Rubber ring (anti-chafing device)**						
	Di = 25.5, Da = 45, EPDM-50, red, not permitted for exhaust systems	■	■	■	■		1312780A
	Di = 22, Da =46, not for exhaust system, chafing guard	■	■	■	■		1320191A
	Di = 20.5, Da = 40, elastomer, black, not permitted for exhaust systems	■	■	■	■		1312785A
	L = 20						

		Thermo Top C	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	Thermo 230/300/350	Order number
	**Woven protection hose**						
	Di = 26 ... 30, L = 1,500, polyester, chafing guard for polyester water hoses	■	■	■	■		1322409A
	**Expansion tank**						
	8 l, preset pressure 0,5 bar, total volume of system: max. 157 l	■	■	■	■	■	1320545A
	**Header tank**						
	L = 252, H = 343, vertical	■	■	■			9024038A
	L = 343, H = 252, horizontal	■	■	■			9024039A
	W = 120, 5 l, net content 3 liter, made of polypropylene for high temperature resistance, tank kit includes 3 stainless steel mounting brackets						
	**Header tank**						
	D = 120, 10 l	■	■	■	■		79289500
	D = 230, 12 l					■	79289000
	H = 300						
	**Buffer tank**						
	L 630, D = 295, 20 l						3391438A

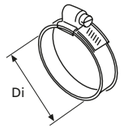
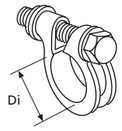
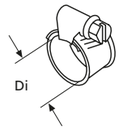
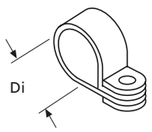
Mounting parts

		Air Top 2000 STC	Air Top Evo 40/55	Thermo Top C/E	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Order number
	**Heater bracket**									
	Stainless steel					■				1320921A
	**Heater bracket**									
	Stainless steel, suitable for various installation options	■	■							1319936A
	**Mounting bracket**									
	Stainless steel	■	■	■	■	■	■	■	■	1320264A
	steel zinc coated, 10 pieces	■	■	■	■	■	■	■	■	1320232A
	L = 46, W = 25, D = 26									
	**Mounting strip**									
	Stainless steel	■	■	■	■	■	■	■	■	1319818A
	Steel zinc coated, 10 pieces	■	■	■	■	■	■	■	■	9007918A
	L = 100, W = 25									
	**Hose strip**									
	L = 178, B = 5.3, bag of 30 pieces	■	■	■	■	■	■	■	■	1301888A
	**Hose strip**									
	1 piece	■	■	■	■	■	■	■	■	1320222A
	10 pieces	■	■	■	■	■	■	■	■	9007917A
	L = 400, B = 7.6									
	**Anti-vibration mount**									
	L = 53, M6 thread, not suitable for fastening heaters, 5 pieces					■				1320270A

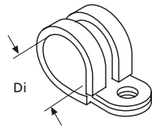
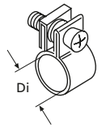
Mounting parts

		Air Top 2000 STC	Air Top Evo 40/55	Thermo Top C/E	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Order number
	**Anti-vibration mount**									
	Da = thread M6	■	■	■						9023020A
	Da = thread M8					■				1319553A
	L = 34, not suitable for fastening heaters, 5 pieces									
	**Spacer nut**									
	L = 15	■	■	■	■	■	■	■	■	1320256A
	L = 20	■	■	■	■	■	■	■	■	1320241A
	L = 30	■	■	■	■	■	■	■	■	1320083A
	L = 40	■	■	■	■	■	■	■	■	1319517A
	SW = 17, full-length M6 thread, steel corrosion-resistant									
	**Spacer bushing**									
	L = 5	■	■	■	■	■	■	■	■	1320498A
	L = 8	■	■	■	■	■	■	■	■	1320499A
	L = 10	■	■	■	■	■	■	■	■	1320496A
	L = 15	■	■	■	■	■	■	■	■	1320090A
	L = 20	■	■	■	■	■	■	■	■	1320088A
	L = 30	■	■	■	■	■	■	■	■	1320089A
	L = 40	■	■	■	■	■	■	■	■	1319533A
	Di = 8, Da = 20, aluminium									
	**Mounting / fastening bracket**									
	Di = 86, L = 111, B = 25	■	■	■	■	■	■	■	■	1319317A
	**Hose clip**									
	Di = 32 ... 39, stainless steel	■	■	■	■	■	■		■	1321732A
	Di = 40 ... 47, steel corrosion-resistant	■	■	■	■	■	■		■	1320158A
	Di = 48 ... 55, steel corrosion-resistant	■	■	■	■	■	■		■	1320159A
	Di = 60 ... 80, steel corrosion-resistant	■	■	■	■	■	■		■	9026066A
	Di = 70 ... 90, steel corrosion-resistant	■	■	■	■	■	■		■	1320223A
	Di = 72 ... 79, steel corrosion-resistant	■	■	■	■	■	■		■	1320160A
	Di = 80 ... 87, steel corrosion-resistant	■	■	■	■	■	■		■	1320162A
	Di = 90 ... 100, steel corrosion-resistant	■	■	■	■	■	■		■	1320085A
	Di = 98 ... 120, steel corrosion-resistant	■	■	■	■	■	■		■	1320161A
	W = 14.3, SW = 8, bolt head with hexagon and slot									

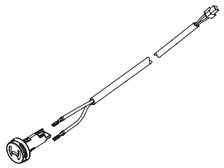
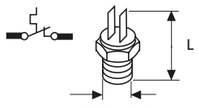
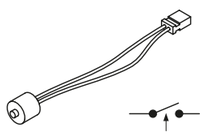
Mounting parts

		Air Top 2000 STC	Air Top Evo 40/55	Thermo Top C/E	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Order number
	**Hose clip**									
	Di = 16 ... 24	■	■	■	■	■	■		■	1320502A
	Di = 40 ... 60	■	■	■	■	■	■		■	1320746A
	Di = 70 ... 90	■	■	■	■	■	■		■	1320086A
	Di = 80 ... 95	■	■	■	■	■	■		■	9023950A
	Di = 100 ... 120	■	■	■	■		■		■	1310876A
	Steel									
	**Pipe clamp**									
	Di = 39 ... 42, W = 13.5, M8 thread, steel corrosion-resistant, for flexible exhaust pipe, with screw					■				1320194A
	Di = 68 ... 71, steel zinc coated								■	1320081A
	**Hose clamp**									
	Di = 16 – 27, stainless steel	■	■	■	■	■	■		■	9015918A
	Di = 28 – 35, stainless steel	■	■	■	■	■	■		■	1320271A
	Di = 16 – 24, chromium steel	■	■	■	■	■	■		■	1320248A
	Di = 40 – 50, chromium steel	■	■	■	■	■	■		■	1321064A
	**Pipe clip**									
	Di = 25, W = 15, stainless steel	■	■	■	■	■	■		■	1320045A
	Di = 33, W = 15, stainless steel, 6.5 mm fastening hole	■	■	■	■	■	■		■	1320064A
	Di = 38, W = 20, stainless steel	■	■	■	■	■	■		■	1320129A
	Di = 42, W = 12, stainless steel, 5.2 mm fastening hole	■	■	■	■	■	■		■	1319693A
	Di = 42, W = 15, stainless steel, 6.5 mm fastening hole, 5 pieces	■	■	■	■	■	■		■	1320276A
	Di = 52, W = 15, steel zinc coated, 6.5 mm fastening hole, 5 pieces	■	■	■	■	■	■		■	1320265A

Mounting parts

		Air Top 2000 STC	Air Top Evo 40/55	Thermo Top C/E	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Order number
	**Pipe clip**									
	Di = 5, stainless steel/rubber, rubber-coated pipe clip, 5.2 mm fastening hole	■	■	■	■	■	■		■	1320195A
	Di = 29, W = 15 rubber-coat	■	■	■	■	■	■		■	1320235A
	Di = 34, W = 20 rubber-coat	■	■	■	■	■	■		■	1320236A
	Di = 38, W = 15 rubber-coat	■	■	■	■	■	■		■	1320402A
	**Hose clip**									
	Di = 8, steel corrosion-resistant, 20 pieces	■	■	■	■	■	■		■	1320244A
	Di = 9, steel corrosion-resistant	■	■	■	■	■	■		■	1320492A
	Di = 14, steel corrosion-resistant, 20 pieces	■	■	■	■	■	■		■	1320245A
	Di = 12, steel corrosion-resistant, 20 pieces	■	■	■	■	■	■		■	1320246A
	Di = 14, stainless steel, 10 pieces	■	■		■	■	■		■	1320249A
	W = 9, SW = 7, bolt head with hexagon and cross-head slot									

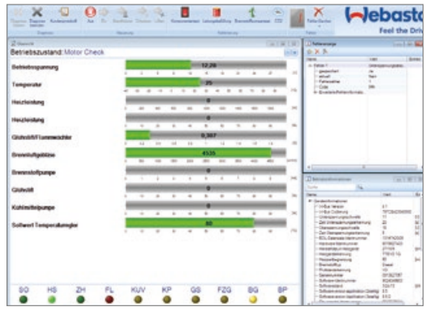
Electrical accessories

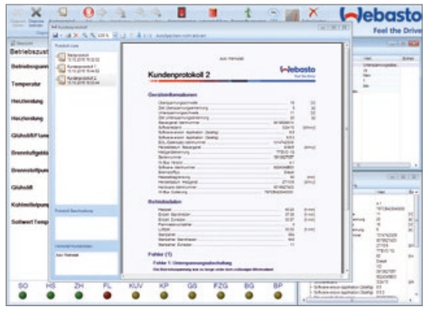
		Air Top 2000 STC	Air Top Evo 40/55	Thermo Top C/E	Thermo Pro 50 Eco	Thermo Pro 90	DBW 2010/2016	Thermo 230/300/350	Order number
	**Installation frame kit, short**								
	– For standard/combination digital timer and room thermostat, 3 position controller – With installation materials								474630
	**Temperature sensor external**								
	L = 2.5 m	■	■						9030881A
	L = 5.0 m	■	■						9030883A
	**Thermostat (control thermostat)**								
	35 – 42 °C, opener, L = 38						■	■	1319409A
	50 – 55 °C, opener, L = 38						■	■	3396532A
	62 – 70 °C, opener, L = 39.5						■	■	1319326A
	71 – 76 °C, opener, L = 39.6						■	■	1319656A
	73 – 78 °C, opener, L = 39.6			■	■				1319657A
	Gasket ring, copper, 22 x 278						■	■	217336
	**Thermostat**								
	40 °C, closer			■	■	■	■		1322511A

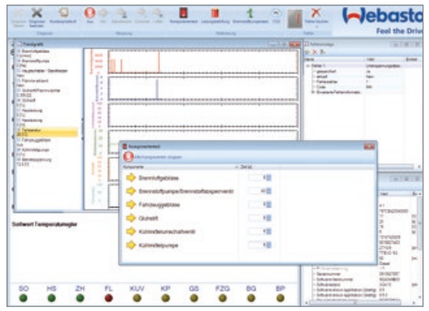
Service and diagnosis

Heater diagnosis module

Webasto provides a complete set of diagnosis tools to service and repair its heaters. The diagnosis module includes a hardware unit and various connecting adaptors for each heater model. For more details and the latest diagnosis visit our dealer portal at: **http://dealers.webasto.com**







Screenshots from Webasto diagnosis software

		Air Top 2000 STC	Air Top Evo 40/55	Thermo Top C/E	Thermo Pro 50 Eco	Thermo Top Evo	Thermo Pro 90	DBW 2010/2016	Thermo 230/300/350	Thermo S 230/300/350/400	Order number
	**PC Diagnsis Kit**										
	For Windows operating system, USB and serial port	■	■	■	■	■	■	■	■	■	1320920A

Cooling products

Which is the right air-conditioning system for your boat?

Our large product portfolio from compact air-conditioning systems up to large chiller systems leaves no wish unfulfilled. With our wide power range we provide cooling capacities from 5,000 BTU/h up to 1,500,000 BTU/h.

BlueCool self-contained units

- Perfect solution for vessels with one to three cabins
- Very compact
- Easy to retrofit
- Extremely efficient

or

BlueCool chiller systems

- Large power range to fit any size of boat or superyacht
- Best in marine A/C: Ability to provide adequate cooling wherever it is needed
- Ideal basis for our integrated BlueComfort solutions

+

BlueCool Air handlers

- Modular concept enables greatest possible flexibility
- Uses minimal space in cabins since air handlers are smaller than self-contained units
- Three construction forms Compact, Slimline and Low Profile feature an especially compact, slim and flat design of the A-Series

How to choose the right air-conditioner

Example: You own a yacht and would like to aircondition a room of 5 m (length) x 5 m (width) x 2 m (height).

Step 1: Define the category of the cabin — **Category 2**

Determine the **category of the cabin**. We give an example for a cabin with an average glass area, for example a deck saloon.

Step 2: Define the net volume — **40 m³**

Determine the **net volume of the room** (5 m x 5 m x 2 m = 50 m³; subtract 20 % for furniture in the room; 50 m³ – 10 m³ = 40 m³; If you want to air condition the whole boat, please calculate the **sum of your rooms**.

Step 3: Define your climate region — **Normal region**

Determine the **climate region** where you spend most of your time. For example the Mediterrean Sea is a "normal region" in the climate category.

Step 4: Identify your cooling requirements — **20,000 BTU/h**

Result: You need an air conditioning system with a 20,000 BTU/h **cooling capacity**.

Step 5: Decide between a self-contained and chiller system — **BlueCool S20**

Depending on the demands you can decide on a **self-contained or chiller system** with a cooling capacity of 20,000 BTU/h.

Step 1

	Category 1		
	portlights only, cabin(s) all below deck [400 BTU/m³]		
	region: normal	**cold**	**hot**
Volume of the rooms [m³]*	4,000	3,000	5,000
10	8,000	6,000	10,000
20	12,000	9,000	15,000
30	16,000	12,000	20,000
40	20,000	15,000	25,000
50	24,000	18,000	30,000
60	28,000	21,000	35,000
70	32,000	24,000	40,000
80	36,000	27,000	45,000
90	40,000	30,000	50,000
100	44,000	33,000	55,000
110	48,000	36,000	60,000
120	52,000	39,000	65,000
130	56,000	42,000	70,000
140	60,000	45,000	75,000
150	64,000	48,000	80,000
160	68,000	51,000	85,000
170	72,000	54,000	90,000
180	76,000	57,000	95,000
190	80,000	60,000	100,000
200			

Step 2

Step 3

Step 4

For precise BTU calculations, please use our Marine specification and calculation tool, available on the dealer portal at **http://dealers.webasto.com**

The right cooling capacity

Volume of the rooms L x W x H (m³)	Category 1 portlights only, cabin(s) all below deck (400 BTU/m³) region: normal	cold	hot
10	4,000	3,000	5,000
20	8,000	6,000	10,000
30	12,000	9,000	15,000
40	16,000	12,000	20,000
50	20,000	15,000	25,000
60	24,000	18,000	30,000
70	28,000	21,000	35,000
80	32,000	24,000	40,000
90	36,000	27,000	45,000
100	40,000	30,000	50,000
110	44,000	33,000	55,000
120	48,000	36,000	60,000
130	52,000	39,000	65,000
140	56,000	42,000	70,000
150	60,000	45,000	75,000
160	64,000	48,000	80,000
170	68,000	51,000	85,000
180	72,000	54,000	90,000
190	76,000	57,000	95,000
200	80,000	60,000	100,000

Volume of the rooms L x W x H (m³)	Category 2 average glass area, cabins partly below deck (500 BTU/m³) region: normal	cold	hot
10	5,000	3,750	6,250
20	10,000	7,500	12,500
30	15,000	11,250	18,750
40	20,000	15,000	25,000
50	25,000	18,750	31,250
60	30,000	22,500	37,500
70	35,000	26,250	43,750
80	40,000	30,000	50,000
90	45,000	33,750	56,250
100	50,000	37,500	62,500
110	55,000	41,250	68,750
120	60,000	45,000	75,000
130	65,000	48,750	81,250
140	70,000	52,500	87,500
150	75,000	56,250	93,750
160	80,000	60,000	100,000
170	85,000	63,750	106,250
180	90,000	67,500	112,500
190	95,000	71,250	118,750
200	100,000	75,000	125,000

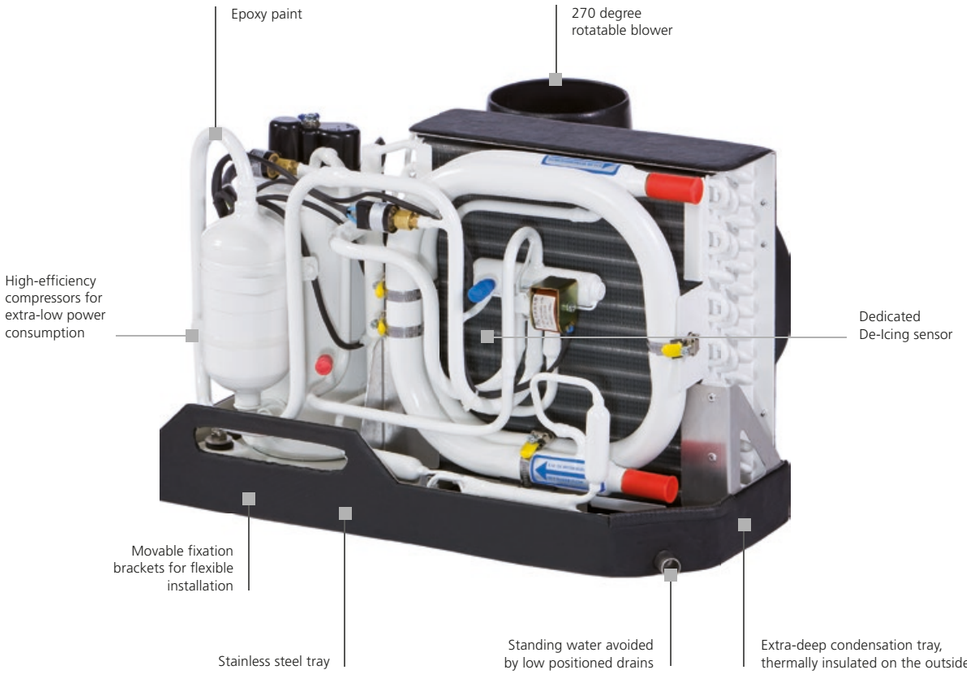
Volume of the rooms L x W x H (m³)	Category 3 glass area above average, saloon above deck (600 BTU/m³) region: normal	cold	hot
10	6,000	4,500	7,500
20	12,000	9,000	15,000
30	18,000	13,500	22,500
40	24,000	18,000	30,000
50	30,000	22,500	37,500
60	36,000	27,000	45,000
70	42,000	31,500	52,500
80	48,000	36,000	60,000
90	54,000	40,500	67,500
100	60,000	45,000	75,000
110	66,000	49,500	82,500
120	72,000	54,000	90,000
130	78,000	58,500	97,500
140	84,000	63,000	105,000
150	90,000	67,500	112,500
160	96,000	72,000	120,000
170	102,000	76,500	127,500
180	108,000	81,000	135,000
190	114,000	85,500	142,500
200	120,000	90,000	150,000

Volume of the rooms L x W x H (m³)	Category 4 very large glass areas, saloon and wheel house above deck (750 BTU/m³) region: normal	cold	hot
10	7,500	5,625	9,375
20	15,000	11,250	18,750
30	22,500	16,875	28,125
40	30,000	22,500	37,500
50	37,500	28,125	46,875
60	45,000	33,750	56,250
70	52,500	39,375	65,625
80	60,000	45,000	75,000
90	67,500	50,625	84,375
100	75,000	56,250	93,750
110	82,500	61,875	103,125
120	90,000	67,500	112,500
130	97,500	73,125	121,875
140	105,000	78,750	131,250
150	112,500	84,375	140,625
160	120,000	90,000	150,000
170	127,500	95,625	159,375
180	135,000	101,250	168,750
190	142,500	106,875	178,125
200	150,000	112,500	187,500

For extreme climatic conditions such as the Persian Gulf with sea-water temperatures of 32 °C and air temperatures of 40 °C, you have to add 25 to 30 % onto the calculated figure. On BlueCool P-Series units it is also recommended that the condenser is increased in size.

BlueCool self-contained units

BlueCool S-Series



The BlueCool S-Series:

- Technically updated to be fully 50/60 Hz compatible
- Suitable for worldwide usage
- Very high efficiency, using R410a refrigerant
- Continuous operation even under tropical conditions
- USB diagnosis for easy servicing and parameter setting
- Quiet operation
- Robust design
- Soft start devices available as an option
- Vibration absorber kits available as an option

BlueCool self-contained units

Product overview

- BlueCool Classic SC5

SEE PAGE 84

- BlueCool S-Series S8 – S27

SEE PAGE 84

S-Series is now compatible with the new MyTouch display.

NEW

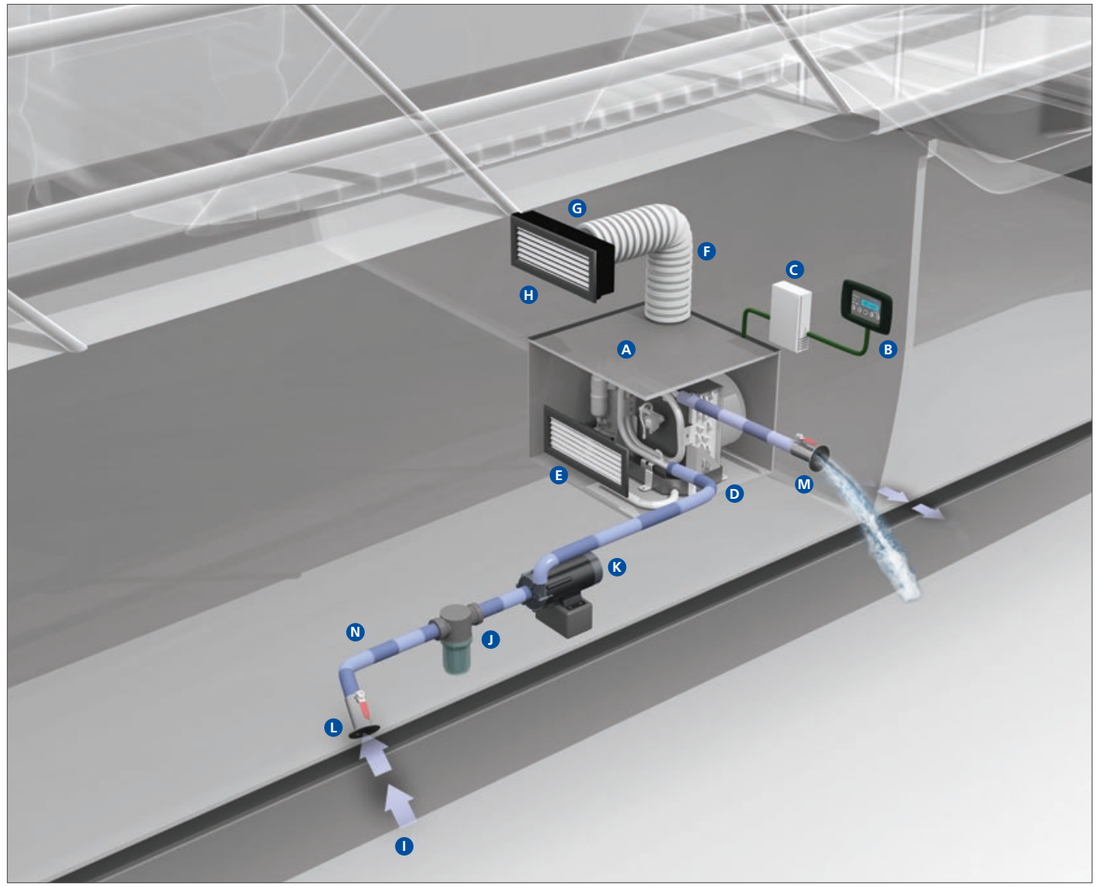
BlueCool MyTouch

Self-contained air-conditioners:

- Stand alone unit
- Heating via reverse cycle integrated
- Extremely compact
- All components on one tray
- Seven sizes available
- Lowest power consumption
- Including electronics, blower and controls
- Evaporator temperature control in real time mode

BlueCool self-contained units

Application concept



Installation of a BlueCool self-contained unit is quite simple:
Each cabin has its own self-contained unit A providing cool air to this cabin.
It is controlled by an air control unit B which is also located in this cabin.
The generated heat is transferred into the sea via the sea water circuit I to N.

Webasto BlueCool self-contained units

Webasto BlueCool self-contained air-conditioning units have one hermetically encapsulated compressor. The refrigerant circuit includes not only the compressor but also a condenser, a throttle element (capillary tube) as well as an evaporator. Self-contained units are extremely compact. All components (compressor, condenser, evaporator and blower) required for cooling a cabin, a salon, a lounge or another room are mounted on a stainless steel tray. Webasto self-contained units are available in different power ratings. This means you are sure to find the ideal system for the specific needs of almost all room sizes requiring cooling in a yacht.

BlueCool self-contained units

Application guidelines

For a complete self-contained unit, please select the following:

Core unit

Please select the core unit according to the required cooling capacity.

A Air-conditioning SEE PAGE 84

B Display and control unit SEE PAGE 116

Position **A** and **B** as well as the following components are included in the scope of delivery:

- Electric cable and control box
- Installation manual
- Remote cabin temperature sensor 3 m
- Display cable 5.0 m
- Operating manual

Accessories

Please order separately the accessories for the application consisting of:

C Soft Starts SEE PAGE 112

D Vibration absorber SEE PAGE 112

Air system

Please order separately the air ducting system for the application consisting of:

E Return air grille SEE PAGE 123

F Air ducting SEE PAGE 125

G Transition box SEE PAGE 124

H Supply air grille SEE PAGE 123

Sea water circuit

Please order separately the components for the sea water circuit consisting of:

I Sea water inlet SEE PAGE 132

J Sea water strainer SEE PAGE 132

K Sea water pump SEE PAGE 118

L Closing valve SEE PAGE 130

M Overboard discharge SEE PAGE 132

N Water hose SEE PAGE 131

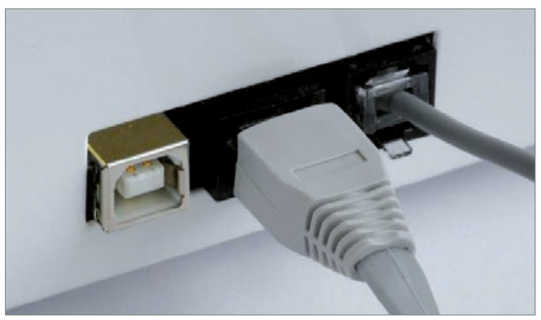
BlueCool Classic & S-Series

Product overview

Technical data	BlueCool Classic	BlueCool S-Series					
Type	**SC5**	**S8**	**S10**	**S13**	**S16**	**S20**	**S27**
Order numbers	WBCL005101G	WBCL120001D	WBCL120002D	WBCL120003D	WBCL120004D	WBCL120005D	WBCL120006D
Cooling capacity* (BTU/h)	5,000	8,000	10,000	13,000	16,000	20,000	27,000
Cooling capacity* (kW)	1.5	2.4	2.9	3.8	4.7	5.9	7.9
Voltage (V)	230	230	230	230	230	230	230
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Current draw running** (A) 50 Hz	2.1	2.4 - 3.5	2.6 - 4.0	3.6 - 6.3	4.9 - 7.1	5.9 - 8.9	7.0 - 10.5
Current draw max. peak (A) 50 Hz	19	28	27	37	54	60	87
Current draw RMS40**** (A) 50 Hz	11	17	17	22	35	39	58
Current draw RMS300*** (A) 50 Hz	6	9	9	11	19	20	37
Current draw max. peak with Soft Start (A) 50 Hz	12	12	11	13	22	23	36
Current draw RMS40**** with Soft Start (A) 50 Hz	7	7	7	7	12	14	20
Current draw RMS300*** with Soft Start (A) 50 Hz	5	5	5	5	9	10	18
Locked Rotor Amperage LRA (A)	–	19	19	24	37	43	62
Max. circuit breaker (A)	8	16	16	16	16	16	20 (comp. only)
Air flow (free blowing) (m³/h) Air flow (free blowing) (cfm)	275 162	275 162	400 235	500 294	625 368	625 368	2 x 550 2 x 324
Seawater connection (mm) Seawater connection (inch)	16 5/8"	19 3/4"	19 3/4"	19 3/4"	19 3/4"	19 3/4"	19 3/4"
Min. seawater flow at 50 Hz (l/min.)	5	8	10	12	14	17	21
Min. seawater flow at 60 Hz (l/min.)	6	10	12	14	17	20	25
Recommended seawater pump +	WB250	WB350	WB350	WB350/ WB500G	WB500/ WB500G	WB500/ WB500G	WB1000/ WB1000G
Dimensions L x W x H (mm) Dimensions L x W x H (inch)	424 x 285 x 278 16.7 x 11.2 x 10.9	400 x 320 x 305 15.7 x 12.6 x 12.0	475 x 310 x 310 18.7 x 12.2 x 12.2	500 x 350 x 320 19.7 x 13.8 x 12.6	540 x 350 x 370 21.3 x 13.8 x 14.6	590 x 340 x 370 23.2 x 13.4 x 14.6	570 x 510 x 410 22.4 x 20.1 x 16.1
Blower connection (mm) Blower connection (inch)	100 4	100 4	100 4	125 5	125 5	125 5	2 x 125 2 x 5
Weight (kg)	21	20	22	27	31	34	46

General note: Values in this table given for 50 Hz only. 60 Hz data available on request.
* BTU/h are based on 7°C evaporating temperature and 38°C condensing temperature
** Amperage values for core unit depend on compressor load. Max values at tropical conditions at 230 V/50 Hz
*** Starting amperage RMS (Root Mean Square) for core unit for first 300 ms
**** Starting amperage RMS (Root Mean Square) for core unit for first 40 ms
+ Recommendation only. Pump size shall be adapted to application constraints in order to always ensure minimal sea water flow.

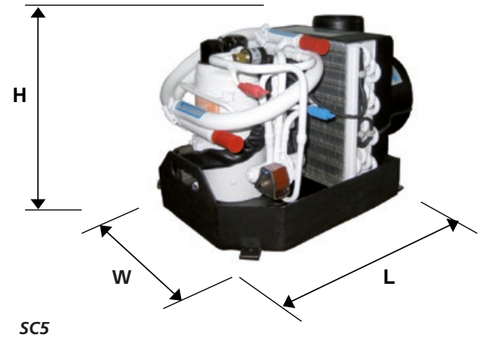
Soft start device available as an option



Sensor, Display and PC Diagnosis access from outside

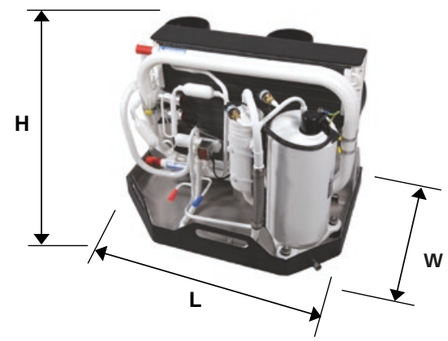
BlueCool Classic & S-Series

Product overview



SC5

S8 – S20



S27

BlueCool chiller systems

BlueCool V-Series
The V-Series is offering variable speed compressor technology to the marine market. This innovative technology with inverter driven BLDC compressors allows to modulate the cooling output in a wide range but also eliminates the starting peak which permits to downsize the generator. Additionally it has an advanced control system with new comfort features, it automatically compensates 50/60 Hz and adapts to hot sea water conditions.

BlueCool C-Series
The C-Series stands for standardized chiller units for small to medium boats. The range goes from 16,000 BTU/h to 108,000 BTU/h. Those chillers are the ideal solution for those who demand a high quality product with a short delivery time. The units come in 230 V 50/60 Hz voltage. Customization options are soft starts as well as vibration dampers.

BlueCool P-Series
The P-Series is Webasto's Professional Chiller Series and is designed for mid-size up to super yachts and commercial boats. They cover a large range of cooling performances from 30,000 up to 572,000 BTU/h. All are equipped with 50 to 60 Hz compatible scroll-compressors and up to four compressors are mounted on a single tray. The P-Series is highly customizable with many options such as soft starts, anti-vibration mounts, CAN Bus control, enlarged condensers for operation under tropical conditions, single phase or three phase compressors. Ask Webasto to have your chiller system individually configured to your needs.

BlueCool Q-Series
The Q-Series is Webasto's Chiller Series with large cooling capacities above 500 kBTU/h. These units are individually built to customer requirements. They feature serviceable compressors and condensers and futher options depending on customer requirements.

Chiller systems are now compatible with the new MyTouch display

NEW

BlueCool MyTouch

BlueCool chiller systems

Product overview

- BlueCool V-Series V50 M

SEE PAGE 90

- BlueCool C-Series C16 M to C108 Q

SEE PAGE 92

- BlueCool P-Series P30 M to P572 Q

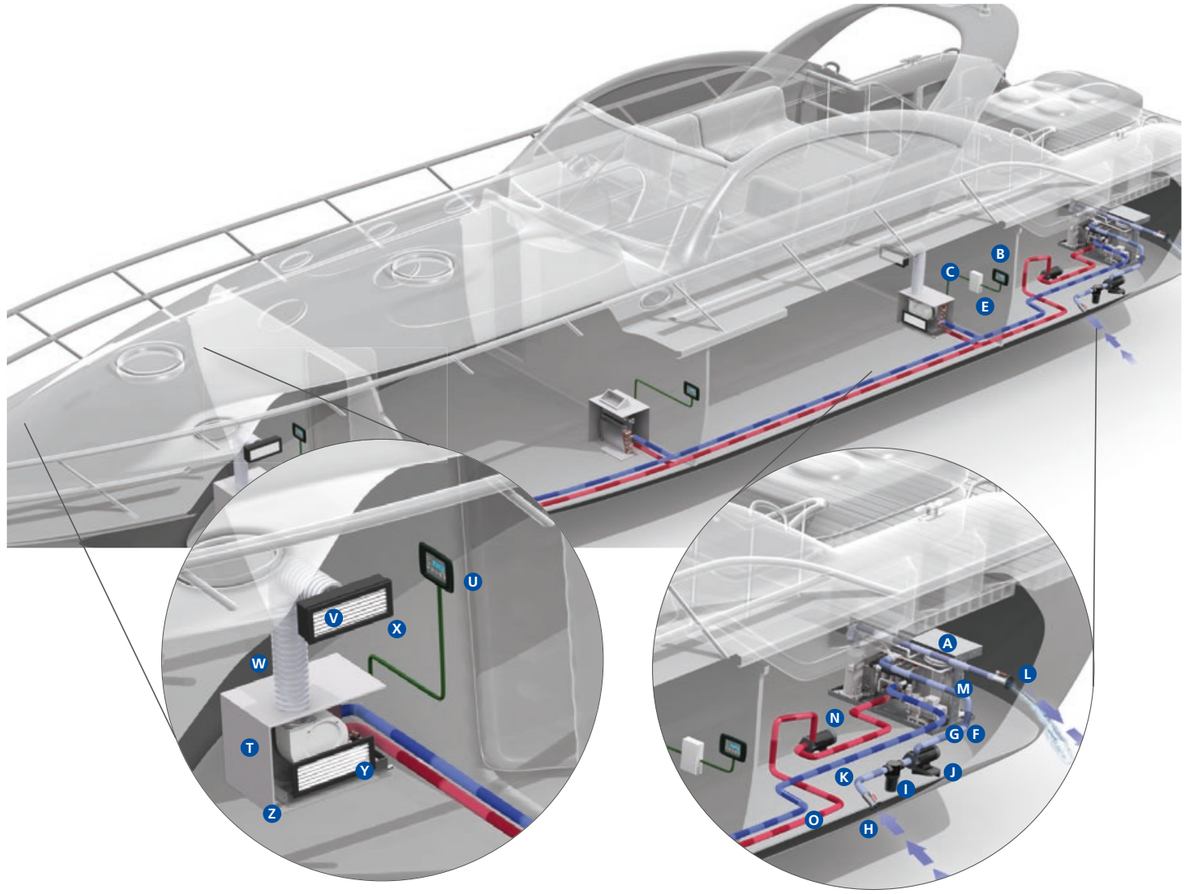
SEE PAGE 94

- BlueCool Q-Series

SEE PAGE 102

BlueCool chiller systems

Application concept



For larger boats with several cabins a chiller system is the best choice. The chiller A/C unit (A) is typically placed in the engine room providing chilled water/glycol to all cabins via the chilled water circuit (N) to (S). In each cabin one or several air handlers (T) are fitted depending on cooling capacity and space requirements. The Digital Control Panel (B) controls the A/C system itself. For each cabin one Control Panel (U) is needed to individually control the air handler in this cabin. As a result you get full temperature control in each cabin providing maximum comfort on board.

Chiller air-conditioning systems

Whenever three or more independent volumes in a yacht need to be air-conditioned, it becomes worth considering a central chiller system. To distribute cooling capacity over several independently operating air handlers from one single central cooling unit, the most flexible and simple solution is to install a chilled water circulation system between the central unit and the air handlers. This mixed water/glycol circuit is maintained at approx. +4 °C. All Webasto chiller units are equipped with high efficiency multi-plate heat exchangers.

BlueCool chiller systems

Application guidelines

For a complete chiller system, please select the following:

Core unit

Please select the core unit according to the required cooling capacity, the available voltage and whether cool only or heating via reverse cycle is needed.

(A) Air-conditioning unit SEE PAGE 90–103

Position **A** as well as the following components are included in the scope of delivery:

- Electric cable and control box
- Installation manual
- Operating manual

Control elements for core unit

Please select the control elements for the core unit separately:

(B) MyTouch display SEE PAGE 116

(C) Display cable SEE PAGE 116

(D) Remote air temperature sensor SEE PAGE 116

Accessories for V- and C-Series:

Please order separately the accessories for the V- and C-Series core unit:

(E) Soft Starts SEE PAGE 112

(F) Vibration absorber kits SEE PAGE 112

(G) Silent block kits SEE PAGE 112

Sea water circuit

Please order separately the components for the sea water circuit consisting of:

(H) Sea water inlet SEE PAGE 132

(I) Sea water strainer SEE PAGE 132

(J) Sea water pump SEE PAGE 118

(K) Closing valve SEE PAGE 132

(L) Overboard discharge SEE PAGE 132

(M) Water hose SEE PAGE 126

Chilled water circuit

Please add the required components for the chilled water circuit consisting of:

(N) Circulation pump SEE PAGE 118

(O) Piping or hosing system with insulation SEE PAGE 126

(P) 3-way valve (optional) SEE PAGE 141

(Q) Turn ball valve SEE PAGE 132

(R) Expansion tank SEE PAGE 130

(S) T-pieces SEE PAGE 131

Cabin accessories necessary for each single cabin

Please add for every single cabin the following components and accessories:

(T) Air handler SEE PAGE 104

(U) Cabin control (Control Panel, display cable, temperature sensor and control box) SEE PAGE 116

(V) Supply air grille SEE PAGE 123

(W) Air ducting SEE PAGE 125

(X) Transition box SEE PAGE 124

(Y) Return air grille SEE PAGE 123

(Z) Water hoses for condensation drain SEE PAGE 131

BlueCool V-Series

V50 M
with electronic box (horizontal)

V50 M
without electronic box

BlueCool V-Series

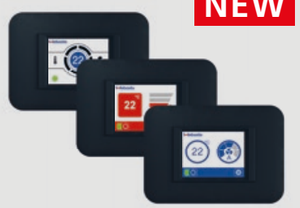
Product overview

Technical data	BlueCool V-Series
Type	**V50 M**
Order numbers	V50M-R-230V-REV-R410a WBCL1203001B
Cooling capacity* (BTU/h)	8,500 – 50,000
Cooling capacity* (kW)	2.5 – 14.6
Voltage (V)	230
Frequency ++ (Hz)	50/60
Current draw running** (A)	2.5 – 15* (max. 17)
Current draw Eco 1 Mode	2.5 – 8* (max. 12)
Current draw Eco 2 Mode	2.5 – 5* (max. 8)
Current draw Start (A)	2.5
Chilled water connection (mm) Chilled water connection (inch)	25 1″
Minimal chilled water flow (l/min.)	35
Seawater connection (inch)	1″ M BST
Minimal seawater flow (l/min.)	38
Dimensions Unit L x W x H (mm) Dimensions Unit L x W x H (inch)	567 x 340 x 510 22.3 x 13.4 x 20.0
Dimensions Unit incl. Silent blocks L x D x H (mm) Dimensions Unit incl. Silent blocks L x D x H (inch)	591 x 378 x 548 23.3 x 14.9 x 21.6
Dimensions Electronic box L x W x H (mm) Dimensions Electronic box L x W x H (inch)	560 x 192 x 435 22.0 x 7.6 x 17.1
Dimensions Unit incl. Box L x W x H (mm) Dimensions Unit incl. Box L x W x H (inch)	607 x 530 x 510 23.9 x 20.8 x 20.0
Dimensions Unit incl. Silent blocks and Box L x W x H (mm) Dimensions Unit incl. Silent blocks and Box L x W x H (inch)	620 x 570 x 548 24.4 x 22.4 x 21.6
Ambient temperature limit (°C)	60
Sound level unit (dB/A)	49
Refrigerant charge R410A (g)	892
Weight core unit (kg)	47
Weight electronic box (kg)	15
Min. sea water temp. Heating (°C)	6
Max. sea water temp. Cooling (°C)	35

* BTU/h are based on 7 °C evaporating temperature and 38 °C condensing temperature
** Amperage values for core unit depend on compressor load. Max values at tropical conditions at 230 V/50 Hz
++ BlueCool V-Series systems are tested and approved by Webasto for 50/60 Hz operation

Now compatible with the new MyTouch display

NEW



BlueCool MyTouch

The BlueCool V-Series V50 M:

- Large power modulation range: 8,500 – 50,000 BTU
- Variable speed BLDC compressors controlled by inverter technology
- Zero electrical starting peak
- Super quiet operation
- High system availability via dynamic control of HP/LP boundary conditions
- Adjustable amperage draw
- Preventive maintenance monitoring system
- Condensate free operation
- Easy installation and maintenance
- Low service and operation costs
- Light and compact
- Integrates Webasto's BlueCool Expert diagnosis and set up tool

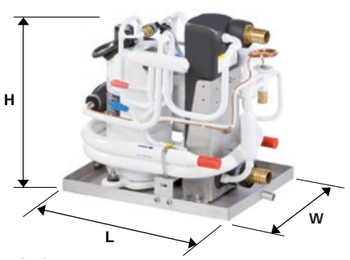
2014 I·B·E·X INNOVATION AWARDS WINNER

BlueCool C-Series

Product overview

Technical data	BlueCool C-Series							
Type	**C16 M**	**C20 M**	**C27 M**	**C32 T**	**C40 T**	**C55 T**	**C81 R**	**C108 Q**
Order numbers	WBCL1205001C	WBCL1205002C	WBCL1205003C	WBCL1207001C	WBCL1207002C	WBCL1207003C	WBCL1207004C	WBCL1207005C
Cooling capacity* (BTU/h)	16,000	20,000	27,000	32,000	40,000	55,000	81,000	108,000
Cooling capacity* (kW)	4.7	5.9	7.9	9.4	11.7	16.1	23.7	31.7
Voltage (V)	230	230	230	230	230	230	230	230
Frequency ++ (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Current draw running** (A)	4.4 – 6.0	6.9 – 8.0	8.6 – 9.2	8.8 – 12.0	13.8 – 16.0	17.2 – 18.4	25.8 – 27.6	34.4 – 36.8
Current draw Start max. peak (A) 50 Hz	54	60	87	60	68	96	105	115
Current draw RMS40**** (A) 50 Hz	35	39	58	41	47	67	76	86
Current draw RMS300*** (A) 50 Hz	19	20	37	25	28	46	55	65
Current draw Start max. peak with Soft Start (A) 50 Hz	22	22	36	28	30	48	54	67
Current draw RMS40**** with Soft Start (A) 50 Hz	12	14	20	18	22	29	38	48
Current draw RMS300 with Soft Start (A) 50 Hz	9	10	18	15	18	29	36	48
Locked Rotor Amperage LRA (A) (comp. only)	37	43	62	37	43	62	62	62
Max. circuit breaker (A)	16	16	20	2 x 16	2 x 16	2 x 20	3 x 20	4 x 20
Chilled water connection (mm) Chilled water connection (inch)	25 1	25 1	25 1	25 1	25 1	25 1	32 1 1/4	– 1 1/4 F BST
Minimal chilled water flow (l/min.)	13	16	19	26	32	38	57	76
Recommended chilled water pump	WB500	WB500	WB1000	WB1000	WB1500	WB1500	WB2000	WB3500
Seawater connection (mm) Seawater connection (inch)	19 3/4	19 3/4	19 3/4	19 3/4	25 1	25 1	32 1 1/4	– 1 1/4 F BST
Minimal seawater flow at 50 Hz (l/min.)	14	17	21	28	34	42	63	84
Minimal seawater flow at 60 Hz (l/min.)	17	20	25	34	41	50	75	100
Recommended seawater pump	WB500/ WB500G	WB500/ WB500G	WB1000	WB1000	WB1500/ WB1000G	WB1500/ WB2000	WB2000/ WB2500G	WB3000G
Dimensions L x W x H (mm) Dimensions L x W x H (inch)	390 x 290 x 355 15.4 x 11.4 x 14.0	440 x 330 x 360 17.3 x 13.0 x 14.0	440 x 330 x 395 17.3 x 13.0 x 15.6	590 x 410 x 500 23.2 x 16.1 x 19.7	590 x 410 x 500 23.2 x 16.1 x 19.7	590 x 410 x 550 23.2 x 16.1 x 21.7	870 x 430 x 550 33.5 x 16.9 x 21.7	860 x 640 x 600 33.9 x 22.4 x 23.6
Weight (kg)	34	37	45	65	70	86	119	173
Min. sea water temp. Heating (°C)	6	6	6	6	6	6	6	6
Max. sea water temp. Cooling (°C)	35	35	35	35	35	35	35	35

General note: Values in this table given for 50 Hz only. 60 Hz data available on request.
* BTU/h are based on 7 °C evaporating temperature and 38 °C condensing temperature
** Amperage values for core unit depend on compressor load. Max values at tropical conditions at 230 V/50 Hz
*** Starting amperage RMS (Root Mean Square) for core unit for first 300 ms
**** Starting amperage RMS (Root Mean Square) for core unit for first 40 ms
+ Recommendation only. Pump size shall be adapted to application constraints in order to always ensure minimal sea water flow.
++ BlueCool C-Series systems are tested and approved by Webasto for 50/60 Hz operation



C16 M – C27 M

BlueCool C-Series

Now compatible with the new MyTouch display

NEW

BlueCool MyTouch

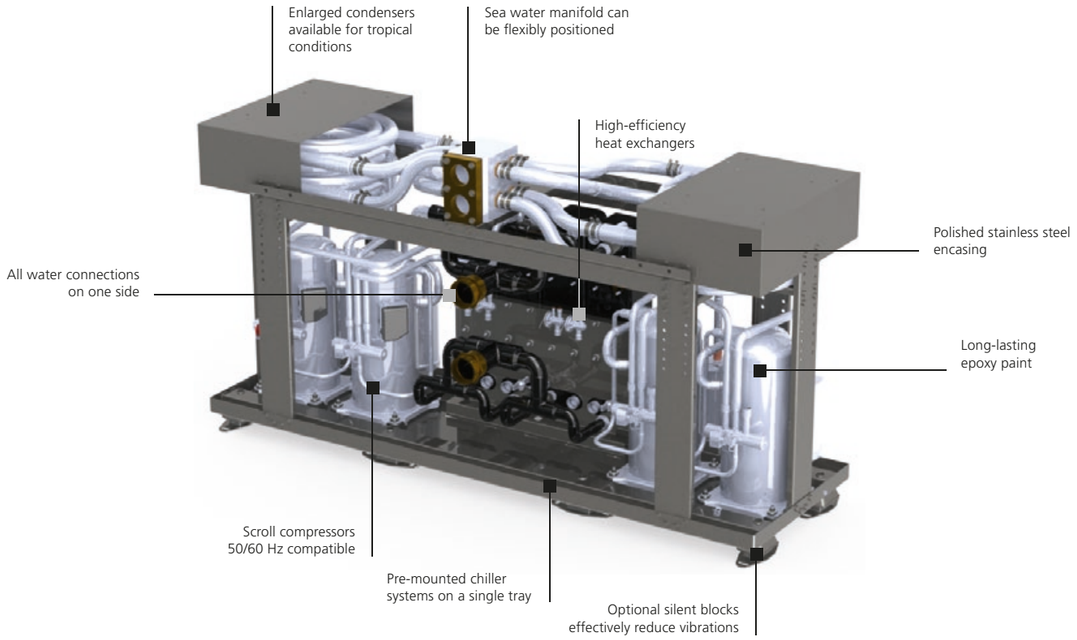
The BlueCool C-Series:

- Improved performance and up to 15 % higher efficiency
- Continuous cooling capacity even in tropical conditions
- Even more compact design
- New improved electronics for easy installation and diagnosis via USB cable
- Optional CAN-Bus for optimized adaptation to boat systems
- Compressor noise is reduced by up to 25 %
- Easy sea water and chilled water connections at one side
- Strong stainless steel tray and condensate drain
- High quality Epoxy paint protection
- Vibration absorber and Silent block available as an option
- Soft start devices available as an option

BlueCool P-Series

Professional Chiller Series

New BlueCool P-Series



NEW

Now compatible with the new MyTouch display

BlueCool MyTouch

The professional BlueCool P-Series:

- Professional chiller system for medium to large boats and super yachts
- Highly customizable chiller series with large range of 30,000 – 572,000 BTU/h to adapt to cooling demand
- Successor of our BlueCool Premium scroll compressor range for high reliability
- Multiple compressor units with independent cooling circuits for high availability
- Range extension with 8 new models
- Improved electronics – new electronic box with easier access to components – new PCB with increased circuit protection, now also fulfilling highest EMC standards EN 60945 – the electronic box has been slightly enlarged so that softstarts can be easily integrated into this box
- BlueCool Expert tool for service, configuration, application tuning, diagnosis and system setup comes as a standard free of charge
- Optional CAN-Bus for integration into boats central monitoring systems
- Unique Thermostatic Advance Function for power output continuously adapted to cooling demand
- Redesigned trays for easier mounting of silent blocks to reduce vibrations
- Electrical systems can be upgraded to customer needs with PRO box or fulfilling MCA requirements

BlueCool P-Series

Configuration options

Configure your chiller system in 6 main steps:

Product options for BlueCool P-Series

The BlueCool P-Series is highly customizable to the demands of shipyards and national legislation. In addition to a wide range of cooling capacities, many options can be selected to customize the chiller to your needs. For further options, please contact the sales support team at Webasto.

Option 1: Voltage

All P-Series chillers are available as 400 V / 3-phase version. On most models 208 V / 3-phase or 230 V / single phase is available as well.

Option 2: Cool only version

For regions where heating is not required some units are available as cool only version.

Option 3: Tropical version

For high sea water temperatures > 32 °C, a tropical chiller version with enlarged condensers shall be selected to avoid high pressure cut-outs. Option is highly recommended whenever the boat may travel in regions where sea water temperatures may be above 32 °C.

Option 4: Soft start

In order to reduce the amperage draw at compressor start a soft start may be chosen as an option.

- Soft start devices are reducing the amperage peak at compressor start up to 53 %
- Soft start models are available for 400 V 3-phase as well as 230 V single phase
- The peak reduction allows to better size the power generator and it frees capacities for other electrical consumers
- Light flickering is reduced
- Circuit breakers and cables sizes do not have to be oversized
- The soft starts fit into the standard electrical box if no further electrical accessories are chosen
- If the soft starts are selected during the chiller configuration process they come already installed and tested as part of the electronic box

BlueCool P-Series

Configuration options

Option 5: Electrical upgrades

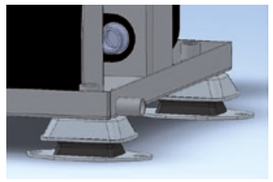
In the standard configuration, the chiller comes with a standard electrical box which allows to operate the chiller. Webasto offers a wide variety of electrical options which enhance the operation and service comfort or ease the electrical installation. Some options may be required to comply with national standards or requirements coming from the boat's classification society. Depending on the amounts of options chosen the larger PRO box or even a box compliant to MCA standards will be used. Each box will be individually configured to your needs.

			
	Standard Box	**Pro Box**	**MCA Box**
Housing			
Material	Galvanized steel, expoxy painted	Mild steel, powder coated	Mild steel, powder coated
IP class	IP21	IP66 / NEMA 4, 12, 13 / IK 10	IP66 / NEMA 4, 12, 13 / IK 10
Color	White	RAL 7035	RAL 7035
Opening/closing	Screws	Locking mechanism	Locks with removable handle
Components included			
Chiller electronic card	■	■	■
Relays for compressors, chilled water and sea water pump	■	■	■
Terminal block connectors	■	■	■
Compressor Soft starts	□	□	□
Motor protective relays and circuit breakers for compressors and pumps	–	■	■
Circuit breaker for chiller electronic card	–	■	■
Only one power supply needed for entire unit	–	■	■
Halogen free cables	–	□	■
Cable harness length: 2 m	■	■	■
Increased cable harness length: 5 m / 10 m / 15 m	□	□	□
Chilled water pump: redundancy selector for two pumps	–	□	□
Sea water pump: redundancy selector for two pumps	–	□	□
Power ON lamp	–	□	■
Pilot lamps for pumps and/or compressors	–	□	■
Digital display integrated at the front door	–	□	□
Compressor running counter	–	□	□
Main switch	–	–	■
Emergency stop	–	–	■
Pushbutton to test pilot lamps	–	–	■
Door locking mechanism in open position	–	□	■
Ampere gauge	–	–	□

■ Standard □ Optional – Not available

Option 6: Silent blocks

Silent blocks may be mounted between the chiller unit and the hull of the boat to reduce structural born vibrations being transferred from the chiller unit into the boat.



- The silent blocks very effectively reduce vibrations into the hull of the boat by up to 50 %
- Silent blocks are mounted below the base plate of the A/C unit
- High performance damping elements specially designed for the vibration frequency and the weight of each unit
- Marine grade with corrosion resistant materials
- Integrated rip-off protection
- If the silent blocks are selected during the chiller configuration process they come already mounted onto the A/C unit
- Please ask for the specific height increase of your unit as the silent block type varies with the size of the units

BlueCool P-Series

Project assistance and support

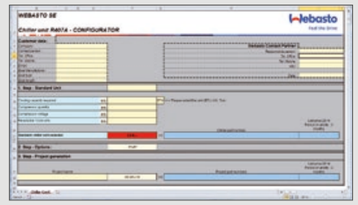
A chiller system always needs to be customized to each boat in order to meet the demands of shipyards, owners, classification societies and national legislation. We support you in this process with our expertise and the tools we have developed for this.

Specification and quotation tool

This tool should be used for all A/C projects to

- Precisely calculate the cooling and heating demand for each cabin depending on boat characteristics, performance requirements and usage conditions
- Determine the fresh air requirements of larger boats
- Select your bill of material from the entire product portfolio
- Summarize technical data of the chosen key components

As a result the chiller and air handlers are correctly sized to the individual demand of each boat.

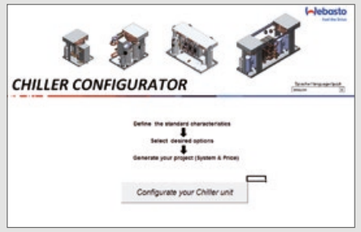


Chiller configurator tool

This tool is used by Webasto to

- Select the available options for a chiller unit, see Options 1, 2, 3, 6 on previous pages
- Select the available electrical options, see Options 4 and 5 on previous pages

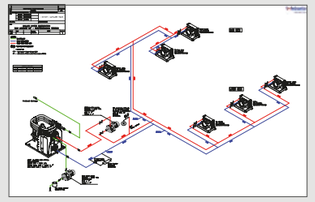
As a result your chiller and electronic box will receive an individual part number which is uniquely used for your project.



Engineering support

Our project engineers support you in various phases of a project delivering to you

- A/C system concepts
- Piping diagrams
- Electrical wiring schematics
- On-site support to understand and determine the optimal A/C configuration



Installation and commissioning support

Our project engineers can support you on demand during the installation and commissioning phase of your project with

- Technical support to answer your questions
- On-site support and audit
- Check of your installation
- Support during system commissioning

BlueCool P-Series

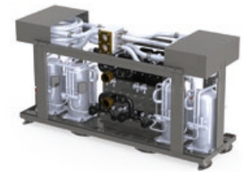
Product overview

BlueCool P-Series Mono chiller											
Type	**P30 M**	**P36 M**	**P42 M**	**P48 M**	**P60 M**	**P72 M**	**P84 M**	**P96 M**	**P112 M**	**P126 M**	**P143 M**
Cooling capacity* (BTU/h)	30,000	36,000	42,000	48,000	60,000	72,000	84,000	96,000	112,000	126,000	143,000
Cooling capacity* (kW)	8.7	10.5	12.3	14	17.6	21.1	24.6	28.1	32.8	36.9	41.8
Frequency (Hz)*****	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Current draw running** (A) for 230 V 1-phase	6.8	8	9.4	12	–	–	–	–	–	–	–
Current draw running** (A) for 400 V 3-phase	2.9	3.5	4.1	5.1	5.9	6.5	8.4	10	11	12	13
Current draw running** (A) for 208 V 3-phase	5.0	6.1	6.9	8.5	–	13	24	–	–	–	–
Current draw running FLA**** (A) for 230 V 1-phase	15	17	23	24	–	–	–	–	–	–	–
Current draw running FLA**** (A) for 400 V 3-phase	5.1	5.6	7	10	11	12	15	16	17	20	22
Current draw running FLA**** (A) for 208 V 3-phase	10	11	14	19	25	27	25	–	–	–	–
Locked Rotor Amperage LRA (A) for Single compressor 230 V 1-phase	61	76	100	114	–	–	–	–	–	–	–
Locked Rotor Amperage LRA (A) for Single compressor 400 V 3-phase	32	40	46	50	59	74	101	95	111	118	118
Locked Rotor Amperage LRA (A) for Single compressor 208 V 3-phase	70	83	95	98	139	172	179	–	–	–	–
Min. chilled water flow (l/min.)	25	30	33	38	50	60	66	76	88	104	117
Min. seawater flow (l/min.)	19	22	27	30	38	46	56	64	68	82	93
Recommended seawater pump+	WB1000	WB1000	WB1000 WB1500	WB1000 WB1500	WB1500	WB2500G WB3000G	WB2500G WB3000G	WB2500G WB3000G	WB3000G WB3500	WB3000G WB3500	WB3000G WB3500
Dimensions (L x W x H) (mm)	425 x 506 x 547	425 x 506 x 547	425 x 506 x 547	425 x 506 x 547	560 x 610 x 602	560 x 610 x 727	560 x 610 x 727	560 x 615 x 727	560 x 811 x 727	560 x 811 x 827	560 x 845 x 827
Dimensions (L x W x H) (inch)	16.7 x 19.9 x 21.5	16.7 x 19.9 x 21.5	16.7 x 19.9 x 21.5	16.7 x 19.9 x 21.5	22 x 24 x 23.7	22 x 24 x 28.6	22 x 24 x 28.6	22 x 24.2 x 28,6	22 x 31.9 x 28,6	22 x 31.9 x 32.6	22 x 33.3 x 32.6
Dimensions (L x W x H) (mm) tropical	425 x 506 x 547	425 x 506 x 547	425 x 506 x 547	425 x 506 x 547	560 x 610 x 602	560 x 610 x 727	560 x 610 x 727	560 x 615 x 727	560 x 811 x 727	560 x 811 x 827	560 x 845 x 827
Dimensions (L x W x H) (inch) tropical	16.7 x 19.9 x 21.5	16.7 x 19.9 x 21.5	16.7 x 19.9 x 21.5	16.7 x 19.9 x 21.5	22 x 24 x 23.7	22 x 24 x 28.6	22 x 24 x 28.6	22 x 24.2 x 28.6	22 x 31.9 x 28.6	22 x 31.9 x 32.6	22 x 33.3 x 32.6
Weight (kg)	55	66	68	70	75	80	85	90	100	110	125
Available options											
230 V/1-phase	□	□	□	□	–	–	–	–	–	–	–
208 V/3-phase	□	□	□	□	□	□	□	–	–	–	–
Reverse Cycle	■	■	■	■	■	■	■	■	■	■	■
Cool Only version	–	–	–	–	–	–	–	–	–	–	–
Tropicalized version	□	■	□	■	□	■	□	□	□	■	□
Soft Start 400 V/230 V/208 V	□/ □/ –	□/ □/ –	□/ □/ –	□/ –/ –	□/ – / –	□/ – / –	□/ – / –	□/ – / –	□/ – / –	□/ – / –	□/ – / –
Upgrade box/MCA Box	□	□	□	□	□	□	□	□	□	□	□
Silent Block	□	□	□	□	□	□	□	□	□	□	□

General note: Values in this table given for 50 Hz only. 60 Hz data available on request.
* BTU/h are based on 7 °C evaporating temperature and 38 °C condensing temperature.
** Amperage values for core unit at nominal conditions at 50 Hz.
**** FLA (Full Load Amperage) is the current draw at maximum conditions.
+ Recommendation only. Pump size shall be adapted to application constraints in order to always ensure minimal sea water flow.
++ BlueCool P-Series systems are tested and approved by Webasto for 50/60 Hz operation.
■ Standard
□ Option
– Not available

BlueCool P-Series

Product overview



BlueCool P-Series Twin chiller					
Type	**P60 T**	**P72 T**	**P84 T**	**P96 T**	**P120 T**
Cooling capacity* (BTU/h)	60,000	72,000	84,000	96,000	120,000
Cooling capacity* (kW)	17.6	21.1	24.6	28.1	35.2
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Current draw running** (A) for 230 V 1-phase	14	16	19	25	–
Current draw running** (A) for 400 V 3-phase	5.8	7.1	8.1	10	12
Current draw running** (A) for 208 V 3-phase	10	12	14	17	33
Current draw running FLA**** (A) for 230 V 1-phase	30	35	46	47	–
Current draw running FLA**** (A) for 400 V 3-phase	10	11	14	20	22
Current draw running FLA**** (A) for 208 V 3-phase	20	22	27	37	50
Locked Rotor Amperage LRA (A) for Single compressor 230 V 1-phase	61	76	100	114	–
Locked Rotor Amperage LRA (A) for Single compressor 400 V 3-phase	32	40	46	50	59
Locked Rotor Amperage LRA (A) for Single compressor 208 V 3-phase	70	83	95	98	139
Min. chilled water flow (l/min.)	50	60	66	76	100
Min. seawater flow (l/min.)	38	46	56	64	80
Recommended seawater pump+	WB1500 WB2000	WB2500G WB3000G	WB2500G WB3000G	WB2500G WB3000G	WB3000G WB3500
Dimensions (L x W x H) (mm)	560 x 660 x 600	560 x 694 x 625	560 x 694 x 625	560 x 683 x 675	560 x 790 x 675
Dimensions (L x W x H) (inch)	22 x 26 x 23.6	22 x 27.3 x 24.6	22 x 27.3 x 24.6	22 x 26.9 x 26.6	22 x 31.1 x 26.6
Dimensions (L x W x H) (mm) tropical	560 x 660 x 625	560 x 694 x 625	560 x 694 x 625	560 x 683 x 675	560 x 790 x 725
Dimensions (L x W x H) (inch) tropical	22 x 26 x 24.6	22 x 27.3 x 24.6	22 x 27.3 x 24.6	22 x 26.9 x 26.6	22 x 31.1 x 28.5
Weight (kg)	90	95	100	130	160
Available options					
230 V/1-phase	□	□	□	□	–
208 V/3-phase	□	□	□	□	□
Reverse Cycle	■	■	■	■	■
Cool Only version	–	–	–	–	–
Tropicalized version	□	■	□	■	□
Soft Start 400 V/230 V/208 V	□/ □/ –	□/ □/ –	□/ □/ –	□/ –/ –	□/ – / –
Upgrade box/MCA Box	□	□	□	□	□
Silent Block	□	□	□	□	□

General note:
Values in this table given for 50 Hz only. 60 Hz data available on request.
* BTU/h are based on 7 °C evaporating temperature and 38 °C condensing temperature.
** Amperage values for core unit at nominal conditions at 50 Hz.
**** FLA (Full Load Amperage) is the current draw at maximum conditions.
+ Recommendation only. Pump size shall be adapted to application constraints in order to always ensure minimal sea water flow.
++ BlueCool P-Series systems are tested and approved by Webasto for 50/60 Hz operation.
■ Standard
□ Option
– Not available

The BlueCool P-Series:

- Wide product range for medium and large size boats
- Scroll compressors for heavy duty applications
- Low starting surge through staged compressor starts
- 208 V, 230 V and 400 V systems available
- Many customization options with different electronics, tropical versions, vibration dampingand many other features
- Fully independent refrigerant circuits in multiple compressor units provide high system availability
- Power output continuously adapted to cooling demand
- Very robust stainless steel design for heavy duty use

BlueCool P-Series

Product overview

Type	P126 R	P144 R	P180 R	P216 R	P252 R
Cooling capacity* (BTU/h)	126,000	144,000	180,000	216,000	252,000
Cooling capacity* (kW)	37	42.2	52.8	63.3	73.8
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60
Current draw running** (A) for 230 V 1-phase	28	37	–	–	–
Current draw running** (A) for 400 V 3-phase	12	15	18	20	25
Current draw running** (A) for 208 V 3-phase	21	26	50	38	72
Current draw running FLA **** (A) for 230 V 1-phase	69	71	–	–	–
Current draw running FLA **** (A) for 400 V 3-phase	21	30	33	36.3	45
Current draw running FLA **** (A) for 208 V 3-phase	40	56	75	81	76
Locked Rotor Amperage LRA (A) for Single compressor 230 V 1-phase	100	114	–	–	–
Locked Rotor Amperage LRA (A) for Single compressor 400 V 3-phase	46	50	59	74	101
Locked Rotor Amperage LRA (A) for Single compressor 208 V 3-phase	95	98	139	172	179
Min. chilled water flow (l/min.)	104	115	138	158	180
Min. seawater flow (l/min.)	82	92	106	125	145
Recommended seawater pump+	WB3000G WB3500	WB3000G WB3500	WB5500	WB5500	WB5500
Dimensions (L x W x H) (mm)	640 x 1,250 x 765	640 x 1,250 x 765	640 x 1,250 x 765	640 x 1,250 x 840	640 x 1,250 x 840
Dimensions (L x W x H) (inch)	25.2 x 49.2 x 30.1	25.2 x 49.2 x 30.1	25.2 x 49.2 x 30.1	25.2 x 49.2 x 33.1	25.2 x 49.2 x 33.1
Dimensions (L x W x H) (mm) tropical	640 x 1,250 x 765	640 x 1,250 x 765	640 x 1,250 x 840	640 x 1,250 x 840	640 x 1,250 x 840
Dimensions (L x W x H) (inch) tropical	25.2 x 49.2 x 30.1	25.2 x 49.2 x 30.1	25.2 x 49.2 x 33.1	25.2 x 49.2 x 33.1	25.2 x 49.2 x 33.1
Weight (kg)	180	190	210	250	260
Available options					
230 V/1-phase	□	□	–	–	–
208 V/3-phase	□	□	□	□	□
Reverse Cycle	■	■	■	■	■
Cool Only version	□	□	□	□	□
Tropicalized version	□	■	□	■	□
Soft Start 400 V/230 V/208 V	□/ □/ –	□/ –/ –	□/ – / –	□/ – / –	□/ – / –
Upgrade box/MCA Box	□	□	□	□	□
Silent Block	□	□	□	□	□

General note:
Values in this table given for 50 Hz only. 60 Hz data available on request.
* BTU/h are based on 7 °C evaporating temperature and 38 °C condensing temperature
** Amperage values for core unit at nominal conditions at 50 Hz
**** FLA (Full Load Amperage) is the current draw at maximum conditions
+ Recommendation only. Pump size shall be adapted to application constraints in order to always ensure minimal sea water flow.
++ BlueCool P-Series systems are tested and approved by Webasto for 50/60 Hz operation.
■ Standard
□ Option
– Not available

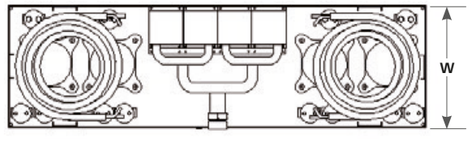
BlueCool P-Series

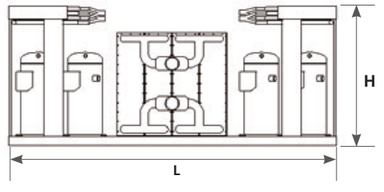
Product overview

Webasto engineers can quote custom manufactured chiller systems upon request. Please contact us for a tailored solution to fit your individual needs.

Type	P120 Q	P144 Q	P168 Q	P192 Q	P240 Q	P288 Q	P336 Q	P384 Q	P448 Q	P504 Q	P572 Q
Cooling capacity* (BTU/h)	120,000	144,000	168,000	192,000	240,000	288,000	336,000	384,000	448,000	504,000	572,000
Cooling capacity* (kW)	35	42.2	49.2	56.2	70	85	99	112	132	148	168
Frequency (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Current draw running** (A) for 230 V 1-phase	27	32	38	49	–	–	–	–	–	–	–
Current draw running** (A) for 400 V 3-phase	12	14	16	21	23	26	34	40	43	49	53
Current draw running** (A) for 208 V 3-phase	20	24	28	34	66	51	95	–	–	–	–
Current draw running FLA**** (A) for 230 V 1-phase	59	69	92	94	–	–	–	–	–	–	–
Current draw running FLA **** (A) for 400 V 3-phase	20	22	28	40	44	48	60	64	67	78	89
Current draw running FLA **** (A) for 208 V 3-phase	41	44	54	74	100	108	100	–	–	–	–
Locked Rotor Amperage LRA (A) for Single compressor 230 V 1-phase	61	76	100	114	–	–	–	–	–	–	–
Locked Rotor Amperage LRA (A) for Single compressor 400 V 3-phase	32	40	46	50	59	74	101	95	111	118	118
Locked Rotor Amperage LRA (A) for Single compressor 208 V 3-phase	70	83	95	98	139	172	179	–	–	–	–
Min. chilled water flow (l/min.)	100	115	132	161	175	220	245	275	310	360	420
Min. seawater flow (l/min.)	80	92	100	115	140	162	180	200	240	270	325
Recommended seawater pump+	WB3000G WB3500	WB5500	WB55500	WB5501	WB5500	WB5500 WB7400	WB5500 WB7400	WB7400	WB7400 WB9800	WB7400 WB9800	WB7400 WB9800
Dimensions (L x W x H) (mm)	1,390 x 560 x 640	1,390 x 560 x 665	1,390 x 560 x 665	1,390 x 560 x 715	1,390 x 560 x 715	1,715 x 560 x 850	1,715 x 560 x 850	2,030 x 635 x 843	2,030 x 635 x 918	2,030 x 635 x 1,067	2,030 x 635 x 1,068
Dimensions (L x W x H) (mm)	54.7 x 22 x 25.2	54.7 x 22 x 26.2	54.7 x 22 x 26.2	54.7 x 22 x 28.1	54.7 x 22 x 28.1	67.5 x 22 x 33.5	67.5 x 22 x 33.5	79.9 x 25 x 33.2	79.9 x 25 x 36.1	79.9 x 25 x 42	79.9 x 25 x 42
Dimensions (L x W x H) (mm) tropical	1,390 x 560 x 665	1,390 x 560 x 665	1,390 x 560 x 665	1,390 x 560 x 715	1,390 x 560 x 765	1,715 x 560 x 850	1,715 x 560 x 850	2,030 x 635 x 843	2,030 x 635 x 1,068	2,030 x 635 x 1,068	2,030 x 635 x 1,068
Dimensions (L x W x H) (mm) tropical	54.7 x 22 x 26.2	54.7 x 22 x 26.2	54.7 x 22 x 26.2	54.7 x 22 x 28.1	54.7 x 22 x 30.1	67.5 x 22 x 33.5	67.5 x 22 x 33.5	79.9 x 25 x 33.2	79.9 x 25 x 42	79.9 x 25 x 42	79.9 x 25 x 42
Weight (kg)	190	210	230	255	270	350	350	450	670	670	725
Available options											
230 V/1-phase	□	□	□	□	–	–	–	–	–	–	–
208 V/3-phase	□	□	□	□	□	□	□	–	–	–	–
Reverse Cycle	■	■	■	■	■	■	■	■	■	■	■
Cool Only version	□	□	□	–	□	□	□	□	□	□	□
Tropicalized version	□	■	□	■	□	■	□	□	□	■	□
Soft Start 400 V/230 V/208 V	□/ □/ –	□/ □/ –	□/ □/ –	□/ –/ –	□/ – / –	□/ – / –	□/ – / –	□/ – / –	□/ – / –	□/ – / –	□/ – / –
Upgrade box/MCA Box	□	□	□	□	□	□	□	■	■	■	■
Silent Block	□	□	□	□	□	□	□	□	□	□	□

General note: Values in this table given for 50 Hz only. 60 Hz data available on request.
* BTU/h are based on 7 °C evaporating temperature and 38 °C condensing temperature
** Amperage values for core unit at nominal conditions at 50 Hz
**** FLA (Full Load Amperage) is the current draw at maximum conditions
+ Recommendation only. Pump size shall be adapted to application constraints in order to always ensure minimal sea water flow.
++ BlueCool P-Series systems are tested and approved by Webasto for 50/60 Hz operation.
■ Standard □ Option – Not available



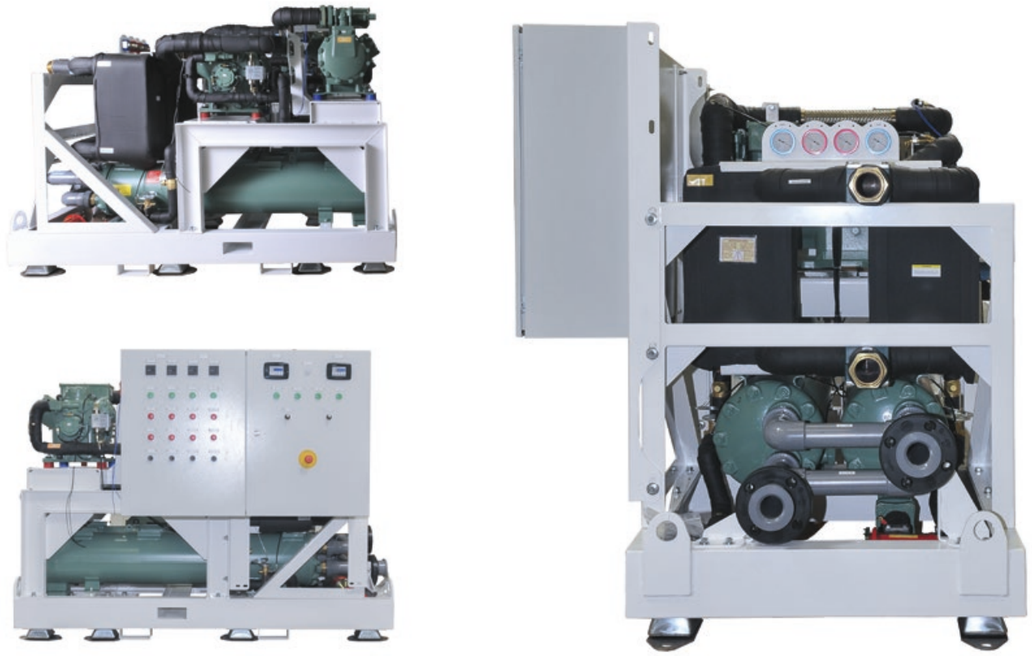


BlueCool Q-Series

HIgh capacity professional chiller units

A large chiller system always needs to be customized to each boat in order to meet the demands of shipyards, owners, classification societies and national legislation. To cover cooling performances from 500,000 up to 1,500,000 BTU/h Webasto offers the BlueCool Q-Series.

The BlueCool Q-Series is designed on customer request for super yachts and commercial boats. Its modular concept, the sea water resistant design, it's robust steel frame, easy serviceability and various more options like tropical versions or MCA electrical boxes make the Q-Series the product fitting to your needs. Ask Webasto to have your chiller system individually developed.



Examples of a 2-stage Q-Series high capacity chiller unit

- The dimensions of the unit can be adapted to customer requirement. This ensures that the available space on board is optimally used
- Solid metal frame allows handling by forklifts and cranes
- Silent blocks below frame effectively reduce vibrations if required
- Entire cooling system can be configured with redundancy to ensure full cooling system availability
- Up to 6 compressors can be controlled by one central control system
- Different compressor voltages available
- Webasto also offers commissioning service to ensure proper system installation and functioning

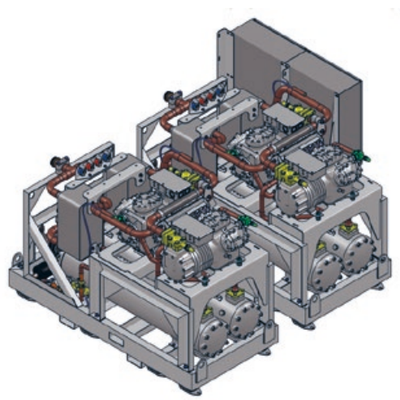
BlueCool Q-Series

High capacity professional chiller units

Technical data	BlueCool Q-Series
Cooling capacity (BTU/h) range	500 – 1,500 kBTU/h
Cooling capacity (kW) range	147 – 440
Voltage (V)	360 – 690
Frequency (Hz)	50/60
Refrigerant types	R134a, R407c,F1234yf
Min. sea water temp. Heating (°C)	6
Max. sea water temp. Cooling (°C)*	35

* Higher temperature on request

737T-RP-460 V-R407c



Project based development

- High capacity chillers as project based development
- Modular concept allows to combine multiple units into one integrated system
- Easy maintainable semi-hermetic compressor
- Heat exchanger tubes with highly efficient tube geometry and anti-fouling profile on the coolant side
- Detachable end cover of tube condenser to permit mechanical cleaning of the pipes
- Several customer specific options available such as gauges, redundancy controls, CAN bus interfaces etc.
- Optional 100% pump-down capacity for making circuit repairs without recovering the refrigerant

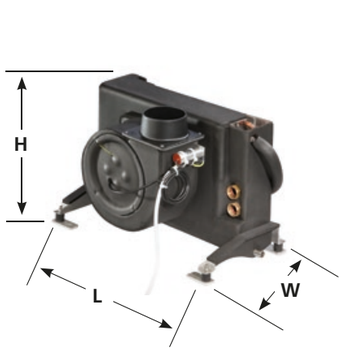
BlueCool A-Series

Product overview

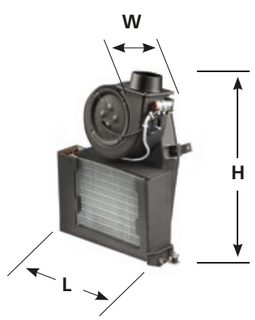
NEW

Model	A4 Compact	A6 Compact	A9 Compact	A12 Compact	A18 Compact	A24 Compact	A36 Compact
Order numbers	WBCL1209009A	WBCL1209010A	WBCL1209011A	WBCL1209012A	WBCL1209013A	WBCL1209013A	WBCL1209015A
Capacity (BTU/h) **	4,000	6,000	9,000	12,000	18,000	24,000	36,000
Capacity (kW) **	1.2	1.9	2.8	3.6	5.6	7.2	10.7
Air flow (m³/h) *	230	380	420	560	750	1120	1550
Air flow (cfm) *	135	224	247	330	441	659	912
Ø Blower connection (mm)	100 (round)	125 (round)	125 (round)	150 (oval)	150 (oval)	2 x 150 (oval)	2 x 150 (oval)
Ø Blower connection (inch)	4 (round)	5 (round)	5 (round)	6 (oval)	6 (oval)	2 x 6 (oval)	2 x 6 (oval)
Weight (kg)	6	7	9	10	12	16	21
Weight (lbs)	13.2	15.4	18.7	22	26.5	35.3	46.3
Current draw running (A)	0.6	0.5	0.6	0.7	1	1.3	2.1
Ø Chilled water connection	3/4''	3/4''	3/4''	3/4''	3/4''	3/4''	3/4''
Dimensions H x W x L (mm)	287 x 249 x 381	287 x 280 x 411	312 x 291 x 456	312 x 279 x 491	362 x 281 x 581	362 x 301 x 636	487 x 302 x 701
Dimensions H x W x L (inch)	11.3 x 9.8 x 15	11.3 x 11 x 16.2	12.3 x 11.5 x 18	12.3 x 11 x 19.3	14.3 x 11.1 x 22.9	14.3 x 11.9 x 25	19.2 x 11.9 x 27.6
Dimensions with valve H x W x L (mm)	287 x 249 x 381	287 x 280 x 411	312 x 291 x 456	312 x 279 x 491	362 x 281 x 581	362 x 301 x 636	487 x 302 x 701
Dimensions with valve H x W x L (inch)	11.3 x 9.8 x 15	11.3 x 11 x 16.2	12.3 x 11.5 x 18	12.3 x 11 x 19.3	14.3 x 11.1 x 22.9	14.3 x 11.9 x 25	19.2 x 11.9 x 27.6
Minimum chilled water flow (l/h)	228	406	626	568	793	1,257	1,883
Number of blowers	1	1	1	1	1	2	2
Max. ambient temperature (°C)	50	50	50	50	50	50	50
Pressure loss chilled water (bar)	0.07	0.12	0.15	0.14	0.16	0.13	0.34
Number of condensate drains	2	2	2	2	2	2	2
Ø Condensate drain (mm)	16	16	16	16	16	16	16

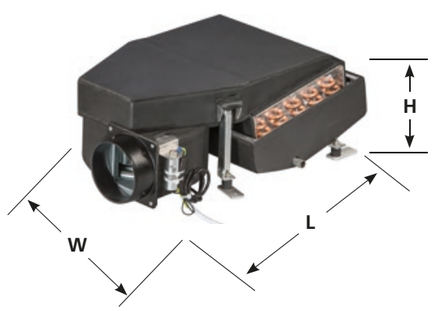
* With 2 m of air duct, one 90° bend, air outlet grille at 230 V, 50 Hz ** Intake air of 32 °C/47 % rh, water inlet temperature of 5 °C and at 230 V, 50 Hz



Compact



Slimline



Low Profile

BlueCool A-Series

Product overview

Model	A6 Slimline	A9 Slimline	A12 Slimline	A18 Slimline	A6 Low Profile	A9 Low Profile	A12 Low Profile	A18 Low Profile
Order numbers	WBCL1209001A	WBCL1209002A	WBCL1209003A	WBCL1209004A	WBCL1209005A	WBCL1209006A	WBCL1209007A	WBCL1209008A
Capacity (BTU/h) **	6,000	9,000	12,000	18,000	6,000	9,000	12,000	18,000
Capacity (kW) **	1.9	2.8	3.6	5.6	1.9	2.8	3.6	5.6
Air flow (m³/h) *	380	420	560	750	380	420	560	750
Air flow (cfm) *	224	247	330	441	224	247	330	441
Ø Blower connection (mm)	125 (round)	125 (round)	150 (oval)	150 (oval)	125 (round)	125 (round)	150 (oval)	150 (oval)
Ø Blower connection (inch)	5 (round)	5 (round)	6 (oval)	6 (oval)	5 (round)	5 (round)	6 (oval)	6 (oval)
Weight (kg)	7	9	10	12	10	11	13	16
Weight (lbs)	15.4	19.8	22	26.5	21.6	24.3	28.7	35.3
Current draw running (A)	0.5	0.6	0.7	1.1	0.5	0.6	0.7	1.1
Ø Chilled water connection	3/4''	3/4''	3/4''	3/4''	3/4''	3/4''	3/4''	3/4''
Dimensions H x W x L (mm)	588 x 217 x 411	611 x 217 x 456	619 x 217 x 494	666 x 218 x 581	205 x 437 x 582	205 x 482 x 606	205 x 516 x 614	205 x 599 x 661
Dimensions H x W x L (inch)	23.1 x 8.5 x 16.2	24.1 x 8.5 x 18	24.4 x 8.5 x 19.4	26.2 x 8.6 x 22.9	8.1 x 17.2 x 22.9	8.1 x 19 x 23.9	8.1 x 20.3 x 24.2	8.1 x 23.6 x 26
Dimensions with valve H x W x L (mm)	588 x 217 x 479	611 x 217 x 524	619 x 217 x 559	666 x 218 x 649	205 x 487 x 582	205 x 532 x 606	205 x 567 x 614	230 x 657 x 661
Dimensions with valve H x W x L (inch)	23.1 x 8.5 x 18.9	24.1 x 8.5 x 20.6	24.4 x 8.5 x 22	26.2 x 8.6 x 25.6	8.1 x 19.2 x 22.9	8.1 x 20.9 x 23.9	8.1 x 22.3 x 24.2	9.1 x 25.9 x 26
Minimum chilled water flow (l/h)	406	626	568	793	406	626	568	793
Number of blowers	1	1	1	1	1	1	1	1
Max. ambient temperature (°C)	50	50	50	50	50	50	50	50
Pressure loss chilled water (bar)	0.12	0.15	0.14	0.16	0.12	0.15	0.14	0.16
Number of condensate drains	2	2	2	2	2	2	2	2
Ø Condensate drain (mm)	16	16	16	16	16	16	16	16

Now compatible with the new MyTouch display

NEW

BlueCool MyTouch

- Three possible shapes to cope with any installation demand: Compact, Slimline and Low profile
- New modular system with various options
- Innovative Webasto Instant Drain system for smart management of condensate
- High quality stainless steel design
- High performance with high cooling capacity and high air flow
- Super Silent with
  - flexible vibration isolation mounts
  - larger ducts to reduce noise from air speed
- Oversized heat exchanger tested under tropical conditions

BlueCool A-Series

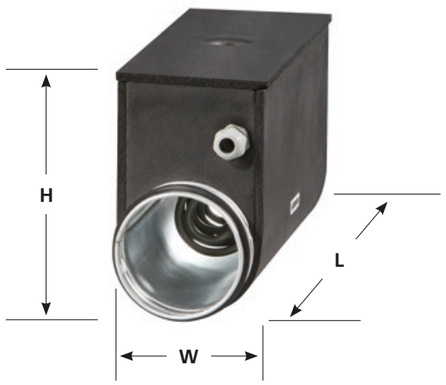
EHM – Electric heat module

Type	EHM600W -100 mm -230 V -50/60 Hz	EHM900W -125 mm -230 V -50/60 Hz	EHM1200W -150 mm -230 V -50/60 Hz	EHM1800W -150 mm -230 V -50/60 Hz
Order numbers	WBCL1209100A	WBCL1209101A	WBCL1209102A	WBCL1209103A
Capacity (W)	600	900	1,200	1,800
Dimensions (L x W x H) (mm)	370 x 100 x 170	370 x 125 x 195	370 x 150 x 220	370 x 150 x 220
Dimensions (L x W x H) (inch)	14.6 x 3.9 x 6.7	14.6 x 4.9 x 7.7	14.6 x 5.9 x 8.7	14.6 x 5.9 x 8.7
Ø Hose connection (mm)	100	125	150	150
Ø Hose connection (inch)	4	5	6	6
Voltage/Frequency	230 V/50 – 60 Hz	230 V/50 – 60 Hz	230 V/50 – 60 Hz	230 V/50 – 60 Hz
Current draw running (A)	3	4	5	8
Max. supply air temperature (°C)	40	40	40	40
Cut off temperature safety switch (°C)	60	60	60	60
Pressure loss air (Pa)	60	60	60	60
Min. air flow (m³/h) to ensure full heat output	60	80	120	180
Weight (kg)	2.2	2.6	2.8	3

Compatibility	A4 Compact	A6 Compact, Slimline, Low Profile	A9 Compact, Slimline, Low Profile	A12 Compact, Slimline, Low Profile	A18 Compact, Slimline, Low Profile	A24 Compact	A36 Compact
EHM600W	■	□	□	□	□	□	□
EHM900W	–	■	■	–	□	–	□
EHM1200W	–	–	–	■	■	■	■
EHM1800W	–	–	–	–	■	–	■

■ Standard application, check on minimum airflow in technical data. □ Only for secondary ducts with smaller diameter, check on minimum airflow in technical data.

NEW



EHM – Electric heat module

- Electric heat modules ensure cabin heating independent of chiller operation
- They are easily installed in-line into air duct of the A-Series air handlers
- EHM is directly connected to A-Series electronics so no separate controls are needed
- EHM further increase the comfort on board by:
  - enabling heating in selective cabins while chiller is in cooling mode
  - enable heating while chiller is switched off
  - increasing the heat output of air handlers if extra high heat demand is needed
- EHM can easily be retrofitted to existing A-Series
- EHM is preinsulated to prevent condensation on the outside. It also comes with 2 stainless steel mounting brackets for wall mounting
- When using EHM a flow control valve also needs to be fitted

BlueCool A-Series

Flow control valve

Type	Kit Valve Slimline / Low profile A-Series with 90° elbow	Kit Valve Compact A-Series
Order numbers	WBCL151004A	WBCL151003A

Flow control valve
for Slimline and Low Profile

Flow control valve
for Compact

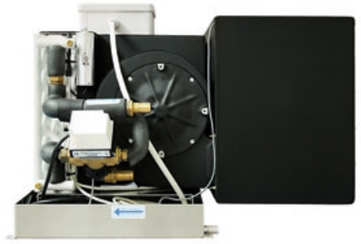
NEW

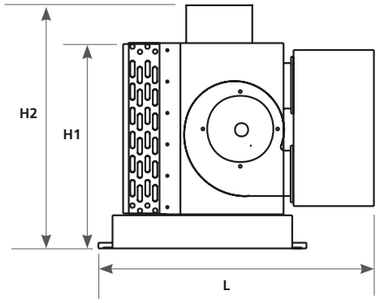
- The flow control valve acts as a 3/2-way valve allowing the chilled water to bypass the heat exchanger of the A-Series when needed
- Easy screw connection to all A-Series units, no soldering needed
- Easy electrical connection to A-Series electronics
- 90° elbows in the Slimline/Low profile kit enable an extra flat installation
- The flow control further increases the comfort on board by:
  - directing the chilled water only to those cabins with cooling/heating demand
  - prevent inadvertent heating when air handler is switched off – no chimney effect
  - prevents condensate build-up and thus mold on heat exchangers of air handlers which are switched off
  - continuous blower operation is possible thus reducing noise variations in cabins
- Valve needs to be fitted if EHM is installed to prevent simultaneous heating and cooling

Accessories for cooling systems

Fresh air and air extraction units

Features and functioning principles
- Regulate fresh-air entry into the vessel by temperature differential outside/inside and combined air extraction control
- Basic regulation by adjustable temperature differential outside/inside with programmable extreme limits and short cycle limits
- 2-stage integrated reheat (AC electrical) provided
- Electronic controller provides two separate blower outlets: one for fresh-air input and one for extraction air out. Different speed settings possible for both outlets. All speed settings including the maximum speed completely re-programmable. A manual control for the speed is possible
- Special flow regulators allow easy and precise balancing of outputs per volume
- Integrated Solenoid 3-way valve control
- Special start-up procedure to eliminate residual moisture in system
- Three temperature read-outs:
  – Outside air temperature
  – Chilled water circuit temperature
  – Treated air input temperature
- Air flow regulators to be specified according to application





Fresh air unit

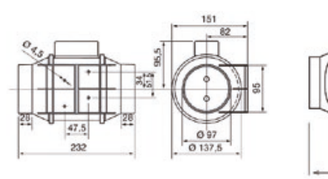
Model	Performance	Air flow	Electronic heating capacity	Length L	Height H1	Height H2	Depth D	Weight	Order number
Fresh Air 24	24,000 BTU/h 7 kW	900 m³/h 530 cfm	2 x 1,000 W	700 mm 27.6 inch	430 mm 16.9 inch	540 mm 21.3 inch	585 mm 23 inch	35 kg 77 lbs	WBCL005241B
Fresh Air 24 SP	24,000 BTU/h 7 kW	1,800 m³/h 1,060 cfm	2 x 1,000 W	700 mm 27.6 inch	430 mm 16.9 inch	540 mm 21.3 inch	585 mm 23 inch	35 kg 77 lbs	WBCL005242B
Fresh Air 48	48,000 BTU/h 14 kW	1,800 m³/h 1,060 cfm	4 x 1,000 W	850 mm 33.5 inch	512 mm 20.2 inch	565 mm 22.2 inch	925 mm 36.41 inch	45 kg 100 lbs	WBCL005240B
Fresh Air 2 x 24	48,000 BTU/h 14 kW	1,800 m³/h 1,060 cfm	2 x 1,000 W	940 mm 37 inch	490 mm 19.3 inch	570 mm 22.4 inch	620 mm 24.4 inch	48 kg 106 lbs	WBCL000218B

Air extraction unit

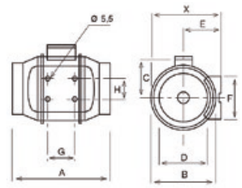
Model	Performance	Air flow	Electronic heating capacity	Length L	Height H1	Height H2	Depth D	Weight	Order number
Extract 900	–	900 m³/h 530 cfm	–	515 mm 20.3 inch	435 mm 17.1 inch	– –	585 mm 23 inch	18 kg 40 lbs	WBCL000216
Extract 1800	–	1,800 m³/h 1,060 cfm	–	515 mm 20.3 inch	435 mm 17.1 inch	– –	615 mm 24.2 inch	21 kg 46 lbs	WBCL000219

Blower modules and air flow regulators

Inline blower modules
- Provide fresh air to or extract air from the cabins
- Special fan design provides a high air flow at low noise
- Low electrical power consumption
- Removable engine body allows easy maintenance
- Speed controllable motor, two speed, Class B, IP44



Model 160



Model 250 & 350

Model	X	A	Ø B	C	Ø D	E	F	G	H
250	188	303	176	115	97	100	90	80	60
350	188	258	176	115	123	100	90	80	60

Model	Speed level	Speed (r.p.m.)	Electrical power consumption	Air flow at free discharge	Maximum operating temperature	Sound pressure level* (dB(A))	Power supply	Ø Duct	Weight	Order number
Inline extractor blower 160	II	2,500	20 W	180 m³/h, 106 cfm	40	24	~230 V 50 Hz	100 mm 4 inch	1.4 kg 3.1 lbs	WBCL010152A
	I	2,200	12 W	140 m³/h, 82 cfm	40	21				
Inline extractor blower 250	II	2,200	24 W	240 m³/h, 141 cfm	40	31	~230 V 50 Hz	100 mm 4 inch	2.0 kg 4.4 lbs	WBCL010157A
	I	1,850	18 W	180 m³/h, 106 cfm	40	26				
Inline extractor blower 350	II	2,250	30 W	360 m³/h, 212 cfm	40	33	~230 V 50 Hz	125 mm 5 inch	2.0 kg 4.4 lbs	WBCL010158A
	I	1,900	22 W	280 m³/h, 165 cfm	40	28				
Inline extractor blower 500	II	2,500	50 W	580 m³/h, 341 cfm	60	33	~230 V 50 Hz	150 mm 6 inch	2.7 kg 5.9 lbs	WBCL010229A
	I	1,900	44 W	430 m³/h, 253 cfm	60	29				

* Sound pressure level radiated at 3 meters at free air conditions with rigid ducts at the inlet and at the outlet.

Air flow regulators
- Independent regulation of desired fresh-/extract air flow
- Eliminates the influence of alternating back pressure, caused by e.g. blocked air filters
- Continuous air flow ensures high comfort inside the cabin
- No electrical or pneumatic wiring
- Direct insertion into the air duct, which allows an easy application

Model	Ø D of ducting	Air flow limit	Order number
Air Flow Regulator 15	80 mm, 3.1 inch	15 m³/h, 8.5 cfm	WBCL005243
Air Flow Regulator 30	80 mm, 3.1 inch	30 m³/h, 17.5 cfm	WBCL005244
Air Flow Regulator 45	80 mm, 3.1 inch	45 m³/h, 26.5 cfm	WBCL005245
Air Flow Regulator 60	80 mm, 3.1 inch	60 m³/h, 35 cfm	WBCL005246
Air Flow Regulator 90	100 mm, 4 inch	90 m³/h, 53 cfm	WBCL005247
Air Flow Regulator 120	125 mm, 5 inch	120 m³/h, 70.5 cfm	WBCL005248
Air Flow Regulator 160	125 mm, 5 inch	160 m³/h, 94 cfm	WBCL005249

Accessories for S-, V- and C- Series

- Reduction of electrical starting peak up to 70 %
- For all BlueCool single-phase compressors
- Fully 50/60 Hz compatible for worldwide application
- Self-adjusting software adapts to compressor type and frequency input
- Monitors supply voltage and protects against low voltage and locked rotor
- Easy to install and to retrofit in BlueCool electrical boxes

BlueCool Soft Start

Description	Order number
BlueCool Soft Start 5,000 – 13,000 BTU/h, 230 V, single-phase, 50 – 60 Hz	WBCL050931B
BlueCool Soft Start 16,000 – 20,000 BTU/h, 230 V, single-phase, 50 – 60 Hz	WBCL050932B
BlueCool Soft Start 24,000 – 42,000 BTU/h, 230 V, single-phase, 50 – 60 Hz	WBCL050933B

NEW

- Reduction of starting peak up to 53 %
- Fully 50/60 Hz compatible for worldwide application
- Two soft start models cover 3-phase scroll compressors from 21 – 143 kBTU/h
- Self-adjusting software, soft start automatically adapts to compressor
- Monitors supply voltage and protects against overvoltage, overcurrent and locked rotor
- Rated operational voltage: 340 – 440VACrms, 50/60 Hz

Soft Start 3-phase, 400 V

Description	Order number
Soft Start 21 – 96 kBTU, 400 V, 3-phase, 50 – 60 Hz	WBCL050945A
Soft Start 112 – 143 kBTU, 400 V, 3-phase, 50 – 60 Hz	WBCL050946A

- Reduction of 50 % of vibrations transmitted to the hull
- High performance damping elements specially designed for the vibration frequency and the weight of each unit
- All absorbers can easily be retrofitted and mounted below the condensate tray. One complete kit with all necessary parts is supplied
- The height of the unit will be increased by only 14 mm

BlueCool Vibration absorber kits

Description	Order number
Vibration Absorber Kit S-Series; S8, S10	WBCL120075A
Vibration Absorber Kit S-Series; S13 – S27	WBCL120076A
Vibration Absorber Kit C-Series; C16 M – C27 M	WBCL120078A

- Solution for C-Series with Twin, Triple and Quattro compressors as well as for the V50 M
- One complete kit with all necessary parts is supplied

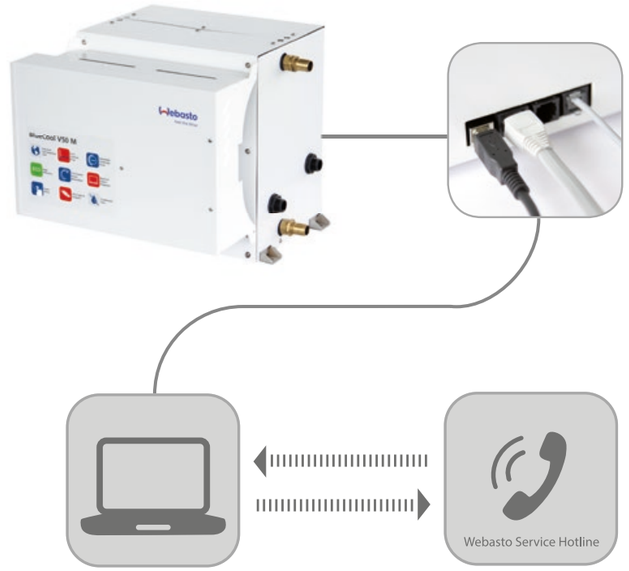
BlueCool Silent block kits

Description	Order number
Silent Blocks for C32 T, C40 T, C55 T and V50 M	WBCL1207041A
Silent Blocks for C81 R and C108 Q	WBCL1207042A

BlueCool Expert Tool

Free Webasto service software suitable for all new air-conditioning units of the S-/C-/V-/P-Series.
Your best companion for easy parameterizing and servicing of the A/C system.

- Plug-and-play USB connection to the A/C unit
  – Standard USB connection
- Remote troubleshooting
  – Remote access via internet
- Easy parameter setting
  – All parameters at one sight
- Back-up and upload of application-specific presets
  – Save individual presets or load standard presets
- Real-time system monitoring
  – Check all data of system while operating
- Access to data logs
  – All relevant data are stored for easy review
- Activation/test of A/C system components
  – Check function of all components and connected accessories



BlueCool Expert Tool

Air conditioning control elements

BlueCool MyTouch

3 different software designs and Webasto cover plate

The BlueCool MyTouch display is the new standard display for all new BlueCool A/C Series and is part of a complete electronic control system including the A/C controller card and connecting cables/sensors.

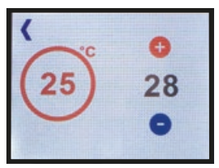
- Standard display for all BlueCool A/C units
- Full color, high resolution, interactive touch display
- Individual customizable Multi Design Touch Display with 3 different user designs
- Intuitive icons and menus
- 3 different menu levels with
- Easy intuitive operation for end customer
- Advanced settings for crew member
- Complete parameter access for technician with clear text message

Customizable to many cover plate systems like

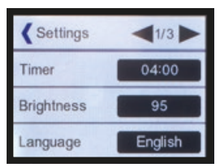
- Vimar Eikon
- Vimar Eikon EVO
- Vimar Plana
- Btcino Axolute

Air conditioning control elements

BlueCool MyTouch



Easy temperature selection with actual cabin temperature (left) and adjustable target temperature (right)

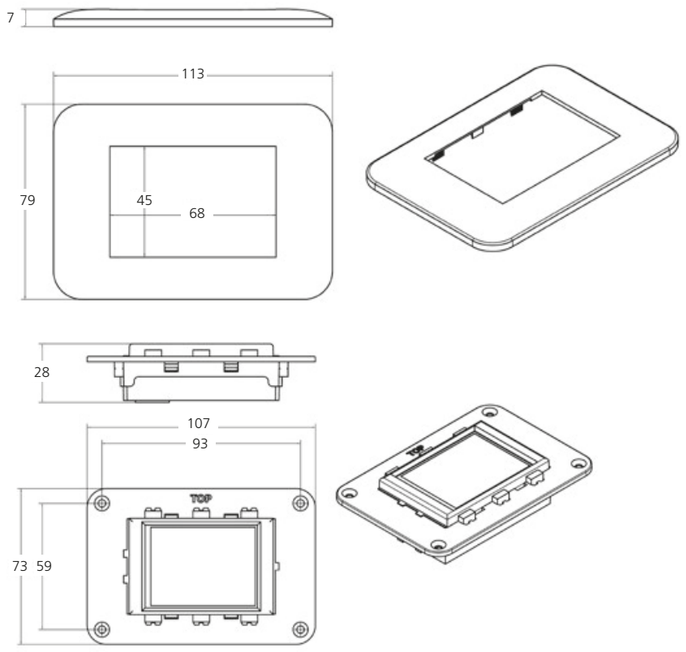


Easy navigation through display settings menu with clear text in 10 languages

Individual picture can be uploaded to be used as Stand-by screen

Failure codes show up in clear text

System settings menu is code protected to prevent unwanted changes



Controls
MyTouch Controls

		BlueCool S-Series	BlueCool C-, V-, P-Series	BlueCool A-Series	Order number
	MyTouch Display	✓	■		WBCL151002A
	Cabin Control Kit A-Series Includes: electrical box with controller card, MyTouch display with Webasto cover plate, display cable 5m, remote air temperature sensor 3m			■*	WBCL151000A
	Display cable MyTouch 5 m	✓	■	□	WBCL151001A
	Display cable MyTouch 10 m	□	■	□	WBCL151005A
	Coupling for display cable MyTouch Can be used to extend MyTouch display cables	□	□	□	WBCL151006A
	Remote air temperature sensor with 3 m cable	✓	■**		WBCL000813B
	Remote air temperature sensor with 6 m cable	□	■**	□	WBCL000810B
	Remote air temperature sensor with 12 m cable	□	■**	□	WBCL000812B
	BlueCool CAN-Bus module	□	□	□	WBCL1203091A
	Electronic silencer: to be mounted afterwards for significant reduction of humming noise at low blower speeds suitable for 4.5 to 6,000 BTU/h			□	WBCL010160C
	Electronic silencer: to be mounted afterwards for significant reduction of humming noise at low blower speeds suitable for 9 to 12,000 BTU/h			□	WBCL010161C
	Electronic silencer: to be mounted afterwards for significant reduction of humming noise at low blower speeds suitable for 16 to 24,000 BTU/h			□	WBCL010162C
	Relay box for 2 units – one pump – 230 V	□	□		WBCL001127C
	Relay box for 3 units – one pump – 230 V	□	□		WBCL001128C
	Relay box for 4 units – one pump – 230 V	□	□		WBCL001129C
	Relay box for 2 units – one pump – 115 V	□	□		WBCL001182B
	Relay box for 3 units – one pump – 115 V	□	□		WBCL001183B

✓ Already included in scope of delivery ■ Mandatory accessory □ Optional accessory

* A-Series air handler may also be connected to chiller control directly. In this case no cabin control kit is needed.
** Required if chiller shall run in automatic mode or if air handlers are connected to the chiller electronics.

Controls
Digital Controls

		BlueCool Classic	BlueCool FreshAir	Order number
	Digital Control Panel including Bezel	✓		WBCL000833D
	Fresh Air control kit V3 230 V, 4.5 m display cable, for 24,000 BTU/h*		■	WBCL000217G
	Fresh Air control kit V3 230 V, 4.5 m display cable, for 48,000 BTU/h*		■	WBCL000221G
	Display cable between A/C control unit and digital control panel – 4.5 m	✓		WBCL000815B
	Display cable between A/C control unit and digital control panel – 6 m	□	□	WBCL000808B
	Display cable between A/C control unit and digital control panel – 12 m	□	□	WBCL000809B
	Display cable between A/C control unit and digital control panel – 20 m	□	□	WBCL000805
	Remote air temperature sensor with 3 m cable	✓		WBCL000813B
	Remote air temperature sensor with 6 m cable	□	□	WBCL000810B
	Remote air temperature sensor with 12 m cable	□	□	WBCL000812B
	CANbus interface	□	□	WBCL010127A
	Relay box for 2 units – one pump – 230 V	□	□	WBCL001127C
	Relay box for 3 units – one pump – 230 V	□	□	WBCL001128C
	Relay box for 4 units – one pump – 230 V	□	□	WBCL001129C
	Relay box for 2 units – one pump – 115 V	□	□	WBCL001182B
	Relay box for 3 units – one pump – 115 V	□	□	WBCL001183B

✓ Already included in scope of delivery ■ Mandatory accessory □ Optional accessory

* Includes: electrical box with controller card, digital control panel with bezel, display cable.

Self-priming pumps

Model	Dimensions L x W x H	Max. output	Running power consumption	Connection in, out	Weight	Order number 115 V	Order number 230 V	Order number 400 V
WB200 • *	195 x 130 x 130 mm 7.7 x 5.2 x 5.2 inch	12/3.2 (l/min.) 3.2/0.9 (gpm)	25 W 0.2 amps (230 V)	5/8", 16 mm	1.2 kg 2.7 lbs	–	WBCL001103B	–
WB500G	254 x 120 x 185 mm 10,0 x 4,7 x 7,3 inch	18 (l/min.) 4.7 (gpm)	250 W 1.2 amps (230 V)	G 1/2" F G 1/2" F	6.2 kg	WBCL001306A	WBCL001305A	–
WB1000G	260 x 120 x 143 mm 10.3 x 4.8 x 5.7 inch	60 (l/min.) 15.8 (gpm)	370 W 1.7 amps (230 V)	G 3/4" F G 3/4" F	6.5 kg 14.4 lbs	WBCL001307A	WBCL001092A	–
WB3800G	410 x 215 x 230 mm 16.1 x 8.5 x 9.1 inch	120 (l/min.)	1200 W 5.8 amps (230 V)	G 1 1/4" F	21 kg	–	WBCL001094A	–
WB8000*	592 x 215 x 302 mm 23.4 x 8.5 x 11.9 inch	500 (l/min.) 132 (gpm)	1,600 W 2.9 amps (400 V)	G 2" F G 2" F	19 kg 41.9 lbs	–	–	WBCL001164A
WB10500*	592 x 215 x 302 mm 23.4 x 8.5 x 11.9 inch	667 (l/min.) 176 (gpm)	3,000 W 5.3 amps (400 V)	G 2" F G 2" F	21 kg 46.3 lbs	–	–	WBCL001165A

• Contains straight hose nipple 5/8", 16 mm and 90° adaptor for hose nipple

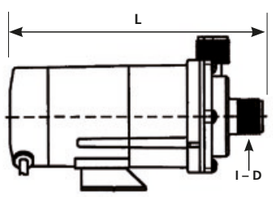
* Can only be used for sea water cooling, not for chilled water circulation

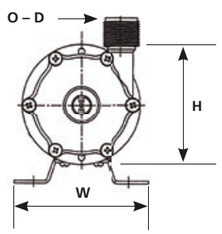
For a stable operation of A/C systems it is essential to have a robust sea water flow in order to cool the condenser and avoid high pressure cut outs of the A/C unit. The sea water pump has to provide this water flow through the A/C unit.

As soon as a significant amount of air is being sucked into the sea water circuit most standard circulation pumps do not have the technical capability to evacuate these air bubbles once they enter into the pump chamber. As a result, the sea water flow stops and the A/C system will shut off. Self priming pumps do have this capability to evacuate these air bubbles from the pump chamber thus ensuring a continuous A/C operation. Therefore they are the best choice for all those boats and applications where there is a certain risk that air bubbles might enter via the through hull fitting.

Please note that even though the sea water intake fitting is mounted below the sea water line it may happen during heeling, high boat speed or during reversing the boat that air is being sucked into the sea water intake. For such applications it is highly recommended to use self priming sea water pumps instead of standard circulation pumps.

The pump models WB500G, WB1000G and WB3800G have to be pre-filled before the first start-up and after long downtimes.





Model WB200

Model WB500G/1000G/2800G

Model WB8000/10500

Pumps

Model	Dimensions L x W x H	Max. output ***	Running power consumption	Connection in, out	Weight	Order number 115 V	Order number 230 V	Order number 400 V
Magnetic Drive Pumps 50/60 Hz								
WB250	180 x 95 x 109 mm 7.1 x 3.7 x 4.3 inch	16 (l/min.) 4.2 (gpm)	26 W, 0.36 amps (115 V) 0.18 amps (230 V)	Ø 14 mm Ø 14 mm	1.6 kg 3.3 lbs	WBCL001301	WBCL001104A	–
	179 x 95 x 114 mm 7.1 x 3.7 x 4.3 inch	16 (l/min.) 4.2 (gpm)	26 W 0.2 amps (230 V)	G 3/4" M G 3/4" M	1.6 kg 3.3 lbs	–	WBCL010799B*	–
WB350	209 x 106 x 105 mm 8.2 x 4.2 x 4.2 inch	27 (l/min.) 7.1 (gpm)	40 W, 0.48 amps (115 V) 0.24 amps (230 V)	Ø 18 mm Ø 17 mm	2 kg 4.4 lbs	WBCL001302A	WBCL001105A	–
	203 x 106 x 107 mm 8.1 x 4.2 x 4.2 inch	27 (l/min.) 7.1 (gpm)	45 W 0.24 amps (230 V)	G 3/4" M G 3/4" M	2 kg 4.4 lbs	–	WBCL0010800A*	–
WB500	248 x 120 x 130 mm 9.8 x 4.8 x 5.2 inch	32 (l/min.) 8.4 (gpm)	60 W 0.4 amps (230 V)	G 3/4" M G 3/4" M	3.5 kg 7.8 lbs	–	WBCL001101A	–
	248 x 120 x 130 mm 9.8 x 4.8 x 5.2 inch	32 (l/min.) 8.4 (gpm)	60 W 0.4 amps (230 V)	G 3/4" M G 3/4" M	3.5 kg 7.8 lbs	–	WBCL0010810A*	–
WB1000	250 x 120 x 130 mm 9.9 x 4.8 x 5.2 inch	45 (l/min.) 11.8 (gpm)	90 W, 1 amps (115 V) 0.52 amps (230 V)	G 3/4" M G 3/4" M	3.9 kg 8.6 lbs	WBCL001303A	WBCL001106A	–
	250 x 120 x 130 mm 9.9 x 4.8 x 5.2 inch	45 (l/min.) 11.8 (gpm)	90 W, 1 amps (115 V) 0.52 amps (230 V)	G 3/4" M G 3/4" M	3.9 kg 8.6 lbs	–	WBCL0010820B*	–
WB1500	258 x 130 x 155 mm 10.2 x 5.2 x 6.1 inch	86 (l/min.) 22.7 (gpm)	235 W 1.21 amps (230 V)	G1" M G1" M	6 kg 13.2 lbs		WBCL001107A	–
WB2000	322 x 156 x 175 mm 12.7 x 6.2 x 6.9 inch	115 (l/min.) 30.3 (gpm)	345 W 1.93 amps (230 V)	G 1" M G 1" M	8,5 kg 18.8 lbs	–	WBCL001108A	–
Magnetic Drive Pumps 50 Hz								
WB3500	423.5 x 149 x 210 mm 16.7 x 5.9 x 8.3 inch	280 (l/min.) 74 (gpm)	370 W, 2.4 amps (230 V) 1.1 amps (400 V)	G 1 1/2" M 1 1/2" M	14 kg 30,9 lbs	–	WBCL001109B	WBCL001111B
WB5500	473 x 160 x 249 mm 18.9 x 6.3 x 9.8 inch	320 (l/min.) 84.6 (gpm)	750 W, 4 amps (230 V) 1.8 amps (400 V)	G 1 1/2" M 1 1/2" M	22 kg 48.5 lbs	–	WBCL001110B	WBCL001112B
WB7400	478.5 x 260 x 274 mm 20.1 x 10.3 x 10.8 inch	450 (l/min.) 118.8 (gpm)	1,500 W, 7.1 amps (230 V) 3.1 amps (400 V)	G 2" M G 1 1/2" M	25 kg 55.2 lbs	–	WBCL010121B	WBCL001138A
WB9800	478.5 x 260 x 274 mm 22.1 x 10.3 x 10.8 inch	520 (l/min.) 137.4 (gpm)	2,200 W 4.5 amps (400 V)	G 2" M G 1 1/2" M	32 kg 70.5 lbs	–	–	WBCL001139B
Bronze Pump 50 Hz								
WB7500**	382 x 190 x 250 mm 15.1 x 7.5 x 9.9 inch	400 (l/min.) 105.7 (gpm)	2,000 W 4.5 Amps (400 V)	G 2" F G 1 1/4" F	23 kg 50.7 lbs	–	–	WBCL001136
Bronze Pump 60 Hz								
WB7500**	382 x 190 x 250 mm 15.1 x 7.5 x 9.9 inch	400 (l/min.) 105.7 (gpm)	2,000 W 4.5 Amps (400 V)	G 2" F G 1 1/4" F	23 kg 50.7 lbs	–	–	WBCL001137A
Bronze Pumps 50/60 Hz								
WB2500G	303 x 154 x 161 mm 11.9 x 6.1 x 6.4 inch	80 (l/min.) 21.1 (gpm)	550 W 2.5 Amps (230 V)	G 1" F G 1" F	9 kg 19.9 lbs	–	WBCL001170A	–
WB3000G	303 x 174 x 181 mm 11.9 x 6.9 x 7.2 inch	125 (l/min.) 33 (gpm)	1,100 W, 4.9 Amps (230 V) 2.8 Amps (400 V)	G 1" F G 1" F	10 kg 22.1 lbs	–	WBCL001171A	WBCL001172A
WB5500G	380 x 193 x 240 mm 15 x 7.6 x 9.5 inch	250 (l/min.) 66 (gpm)	1,500 W, 6.7 Amps (230 V) 4.5 Amps (400 V)	G 1 1/2" F G 1 1/2" F	17 kg 37.5 lbs	–	WBCL001173A	WBCL001174A

* White painted version with threaded hose connections ** Can only be used for chilled water circulation, not for sea water cooling.
*** Effective water output varies with back pressure. Please respect the pump curves on the next pages in order to ensure the minimum water flows required for your applications.
Note: F = Female thread in inch M = Male thread in inch

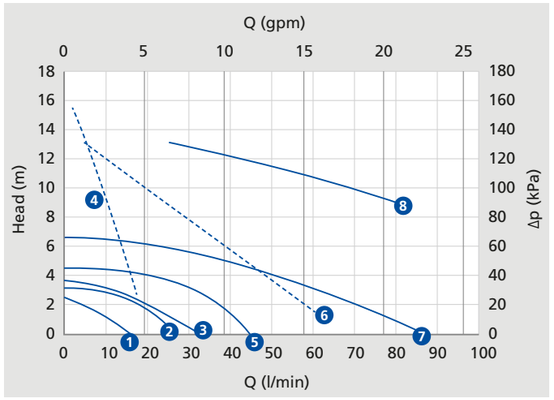
WB250 to WB1000

WB1500 to WB2000

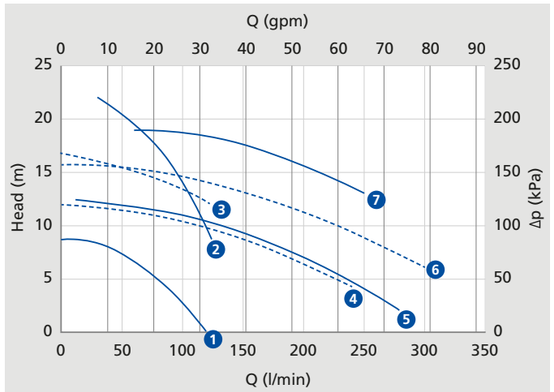
WB3500 to 9800

WB2500G to 5500G

50 Hz water pump curves

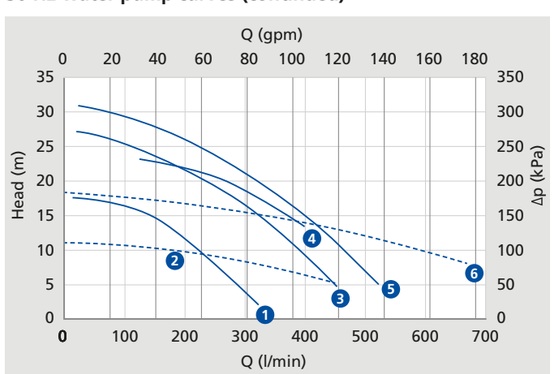


Graphic 1	50 Hz up to 100 l/min.
1	WB250
2	WB350
3	WB500
4	WB500G
5	WB1000
6	WB1000G
7	WB1500
8	WB2500G



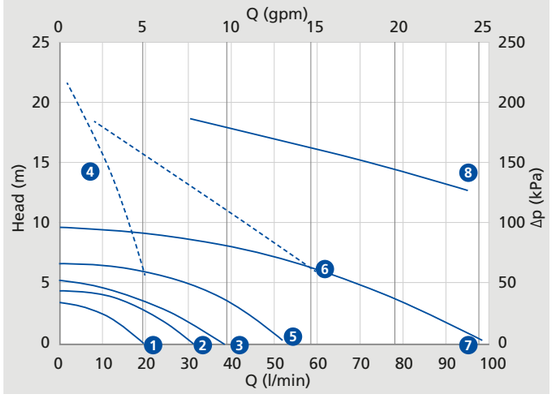
Graphic 2	50 Hz up to 300 l/min.
1	WB2000
2	WB3000G
3	WB3800G
4	WB4000
5	WB3500
6	WB5600
7	WB5500G

50 Hz water pump curves (continued)

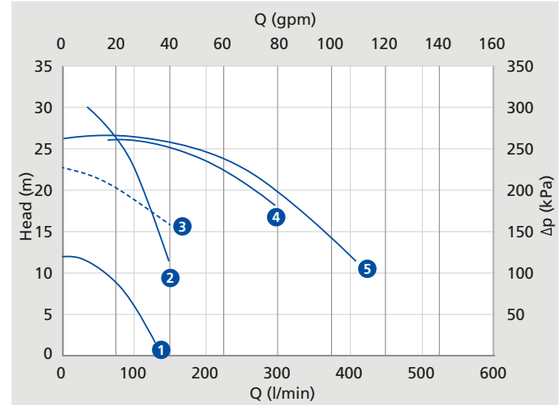


Graphic 3	50 Hz up to 700 l/min.
1	WB5500
2	WB8000
3	WB7400
4	WB7500
5	WB9800
6	WB10500

60 Hz water pump curves



Graphic 4	60 Hz up to 100 l/min.
1	WB250
2	WB350
3	WB500
4	WB500G
5	WB1000
6	WB1000G
7	WB1500
8	WB2500G



Graphic 5	60 Hz up to 700 l/min.
1	WB2000
2	WB3000G
3	WB3800G
4	WB5500G
5	WB7500

- The Head (m) stated in the pump curves (Graphic 1 – 5) represents the equivalent pressure drop between inlet and outlet of the pump. This pressure drop equals the total back pressure of the sea water system from sea water entry to overboard discharge. Please do not confuse it with the position of the pump position below the water line.
- Depending on pressure drop the effective water flow through the pump and thus the sea water system varies significantly.
- Always ensure that the minimum sea water flow through the A/C unit is respected. It should be measured during each commissioning of the sytem.
- Operating the pumps outside the limits of the pump curves may result in motor overload or cavitation. These cases are excluded from Webasto warranty.

Air system
Functioning principals

Minimum air grille sections

To obtain acceptable noise levels at maximal blower speed levels the requirements for grille and ducts sections should be observed. The size of the transition box behind the supply air-grille is also important.

Capacity BlueCool A/C component	Duct size S-Series (mm)	Duct size A-Series (mm)	Supply air grill (cm²)	Recommended supply air grill (“)	Return air grill (cm²)	Recommended return air grill (“)
4,000 BTU/h	–	100	150	8 x 4	325	12 x 5
6,000 BTU/h	–	125	190	10 x 4	490	11 x 8
8,000 – 10,000 BTU/h	100 – 125	125	235	12 x 4	490	11 x 8
12,000 – 13,000 BTU/h	125 – 150	150	250	10 x 5	550	14 x 7
16,000 – 20,000 BTU/h	125 – 150	150	390	12 x 6	800	14 x 10
24,000 BTU/h	–	2 x 150	2 x 250	2 x 10 x 5	1000	14 x 12
27,000 BTU/h	2 x 150	–	650	2 x 12 x 6	1600	2 x 14 x 10
36,000 BTU/h	–	2 x 150	2 x 380	2 x 12 x 6	1600	2 x 14 x 10

Blower outlets

90° turns with flexible ducts directly from blower outlets should be avoided at all costs as they introduce severe restrictions in the air-flow. All WB blowers (except on 24,000 BTU/h models) can be rotated through 45° steps to obtain a straight-line outlet from the blower. This facility should be used whenever possible.

Return grille offset

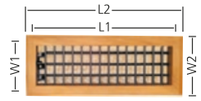
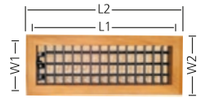
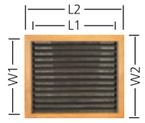
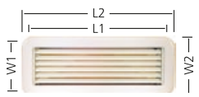
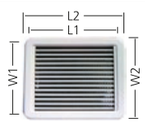
It should be avoided to place a return air grille directly opposite the finned coil surface of an air handler, because this will allow propagation of direct blower-motor noise through the grille. The grille should be offsetted to chicane the return air to the coil inlet. Direct noise propagation will be reduced in a significant manner.

Duct type

To avoid accidental crushing, flexible air-ducts should be of high quality with sufficiently strong steel spiral reinforcement. Spiral type ducts should be extended to their maximum length for the best interior smoothness. For very long duct sections smooth bore ducts (in PVC for example) should be preferred. This offers better smoothness than flexible spiral type ducting and hence reduces internal friction. For very short lengths non-insulated ducts can be used. For greater lengths it is advisable to use insulated type ducts to avoid condensation on the outside of the air-ducts.

Big luxury yacht

In general requirements for megayachts and big luxury vessels are even more stringent than the table here above. These special requirements can be obtained from Webasto on request.

Air grille*	Model	L1 (mm)	L2 (mm)	W1 (mm)	W2 (mm)	Order number
	8 x 4 TS (supply air)	202	230	100	128	WBCL004000XA
	10 x 4 TS	252	281	100	128	WBCL004001XA
	12 x 4 TS	304	332	100	128	WBCL004002XA
	10 x 5 TS	252	281	125	152	WBCL004018XA
	12 x 5 TS	304	332	125	152	WBCL004004XA
	12 x 6 TS	304	332	152	179	WBCL0040240A
Wedge type supply air grille*	**Model**	**L1 (mm)**	**L2 (mm)**	**W1 (mm)**	**W2 (mm)**	**Order number**
	10 x 5 WGT (supply air)	–	280	–	150	WBCL004023XA
Air grille, closeable*	**Model**	**L1 (mm)**	**L2 (mm)**	**W1 (mm)**	**W2 (mm)**	**Order number**
	8 x 4 TSC (supply air)	202	230	100	128	WBCL004005XA
	10 x 4 TSC	252	281	100	128	WBCL004019XA
	12 x 4 TSC	304	332	100	128	WBCL004006XA
	10 x 5 TSC	252	281	125	152	WBCL004022XA
	12 x 5 TSC	304	332	125	152	WBCL004025XA
Air grille with filter*	**Model**	**L1 (mm)**	**L2 (mm)**	**W1 (mm)**	**W2 (mm)**	**Order number**
	12 x 5 TR (return air)	304	332	125	152	WBCL004020XA
	11 x 8 TR	280	306	204	230	WBCL004017XA
	14 x 7 TR	177	205	355	381	WBCL004007XA
	12 x 10 TR	304	332	254	281	WBCL004021XA
	14 x 10 TR	354	382	254	281	WBCL004008XA
	14 x 12 TR	354	382	304	332	WBCL004009XA
Air grille (ABS)	**Model**	**L1 (mm)**	**L2 (mm)**	**W1 (mm)**	**W2 (mm)**	**Order number**
	10 x 4 PS (ABS, supply air)	242	280	92	128	WBCL004030A
	12 x 4 PS	292	332	92	128	WBCL004031A
	10 x 5 PS	242	280	115	152	WBCL004032A
	10 x 6 PS	242	280	138	174	WBCL004033A
Air grille (ABS) with filter	**Model**	**L1 (mm)**	**L2 (mm)**	**W1 (mm)**	**W2 (mm)**	**Order number**
	10 x 8 PR (ABS, return air)	242	281	190	232	WBCL004076A
	10 x 10 PR	242	281	242	281	WBCL004077A
	12 x 12 PR	292	332	292	332	WBCL004078A
	14 x 10 PR	342	382	242	281	WBCL004080A
	14 x 12 PR	342	382	292	332	WBCL004081A
Round, adjustable plastic grille	**Model**					**Order number**
	Black, 100 mm			–		WBCL004090A
	Walnut brown, 100 mm			–		WBCL004091A
	White, 100 mm			–		WBCL004092A
	Off-white, 100 mm			–		WBCL004093A
	White, 75 mm			–		WBCL004094A
	White, 75 mm with hose ring			–		WBCL004095A
	Black, 75 mm with hose ring			–		WBCL004096A
	Black, 75 mm			–		WBCL004097

* Note: All teak grilles can be supplied in other wood qualities on demand. Please see table listing the special suffixes to the chosen grille item code in accordance with the wood type preference.

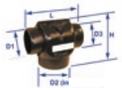
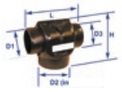
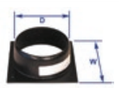
In order to customise the wooden air grilles, please choose from the following wood options:

Example: WBCL0040040 = Teak air grille 12 x 5 WBCL0040042 = Mahogany air grille 12 x 5

Suffix	Wood type	Decription
0	Teak	Asian Teak
1	Cherry	American Cherry
2	Mahogany	Honduran Mahogany
4	Oak	American white Oak

Note: Teak versions on stock. Other wood options may have longer lead times or extra shipping costs.

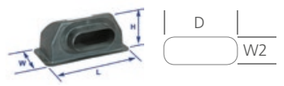
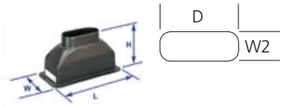
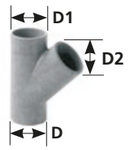
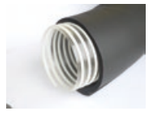
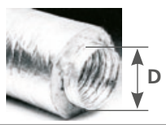
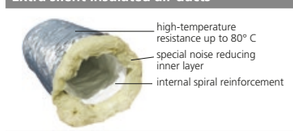
Air system

T-piece (inside, D2 direct to A/C unit)	Model	D1 / D2 / D3 (mm)	L x H (mm)		Order number
	100/100 F/100	100/100 F/100	220 x 185	–	WBCL001549A
	100/125 F/100	125/100 F/100	220 x 185	–	WBCL001560A
	125/125 F/100	125/125 F/100	220 x 185	–	WBCL001550A
	125/125 F/125	125/125 F/125	220 x 185	–	WBCL001555A
T-piece (outside, D2 connected to hose)	**Model**	**D1 / D2 / D3 (mm)**	**L x H (mm)**		**Order number**
	100/100 M/100	100/100 M/100	220 x 185	–	WBCL001551A
	100/125 M/100	100/125 M/100	220 x 185	–	WBCL001552A
Y-piece (inside, D2 direct to A/C unit)	**Model**	**D1 / D2 / D3 (mm)**	**L x H (mm)**		**Order number**
NEW 	100/125 F/100	100/125 F/100	269 x 213	–	WBCL001576A
	100/125 F/125	100/125 F/125	269 x 213	–	WBCL001577A
Y-piece (outside, D2 connected to hoseunit)	**Model**	**D1 / D2 / D3 (mm)**	**L x H (mm)**		**Order number**
NEW 	100/100 M/100	100/110 M/100	250 x 200	–	WBCL001578A
	100/125 M/100	100/125 M/100	269 x 213	–	WBCL001574A
	100/125 M/125	100/125 M/125	269 x 213	–	WBCL001575A
	125/150 M/125	125/150 M/125	280 x 220	–	WBCL001580A
	150/150 M/150	150/150 M/150	280 x 220	–	WBCL001581A
Hose adapter	**Model**	**D1 / D2 / D3 (mm)**	**L x H (mm)**		**Order number**
	3" x 4"	106 x 70	106 x 70	–	WBCL001579A
90 degree elbow-piece, D2 connected to A/C unit	**Model**	**D1 / D2 (mm)**	**L x H (mm)**		**Order number**
NEW 	100 M/100 F	100 M/100 F	173 x 172	–	WBCL001572A
	125 M/125 F	125 M/125 F	194 x 198	–	WBCL001573A
90 degree elbow-piece, D2 connected to hose	**Model**	**D1 / D2 (mm)**	**L x H (mm)**		**Order number**
NEW 	100 M/100 M	100 M/100 M	170 x 170	–	WBCL001570A
	125 M/125 M	125 M/125 M	195 x 195	–	WBCL001571A
Standard transition box	**Model**		**L x H (mm)**	**W (mm)**	**Order number**
	8 x 4"	–	252 x 130	150	WBCL001501A
	10 x 4"	–	304 x 130	150	WBCL001502A
	12 x 4"	–	352 x 130	150	WBCL001503A
	12 x 5"	–	352 x 130	180	WBCL001505A
	10 x 5"	–	304 x 130	180	WBCL001506A
	12 x 6"	–	352 x 130	200	WBCL001507A
	10 x 6"	–	304 x 130	200	WBCL001508A
Standard hose rings	**Model**	**D (mm)**		**W (mm)**	**Order number**
	HR4 – 100	100	–	134	WBCL002502
	HR5 – 125	125	–	150	WBCL002503
	HR6 – 150	150	–	170	WBCL002504A
	HR7 – 178	175	–	200	WBCL002509A
Oval hose rings	**Model**	**D x W2 (mm)**	**L x H (mm)**	**W1 (mm)**	**Order number**
	HO4 – 100*	120 x 55	170	100	WBCL002505A
	HO5 – 125*	150 x 65	195	110	WBCL002506A
	HO6 – 150*	180 x 72	228	120	WBCL002507A
	HO7 – 175*	200 x 84	255	140	WBCL002508A
Transition box, round entry	**Model**	**D (mm)**	**L x H (mm)**	**W (mm)**	**Order number**
	8 x 4LN/100*	100	250 x 130	150	WBCL001520A
	10 x 4LN/100*	100	305 x 130	150	WBCL001521A
	12 x 4LN/100*	100	360 x 130	150	WBCL001522A
	10 x 5LN/125*	125	304 x 130	180	WBCL001523A

F = Female M = Male

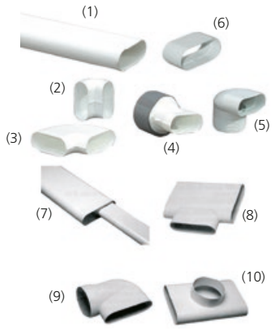
* Equivalent diameter of air ducting in mm

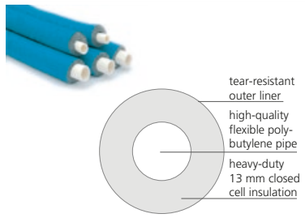
Air system

Transition box, lateral oval entry	Model	D x W2 (mm)	L x H (mm)	W (mm)	Order number
	8 x 4LT/OV100*	120 x 55	250 x 130	155	WBCL001510A
	10 x 4LT/OV100*	120 x 55	305 x 130	155	WBCL001530A
	10 x 4LT/OV125*	150 x 65	305 x 130	155	WBCL001529A
	12 x 4LT/OV125*	150 x 65	305 x 130	180	WBCL001528A
Transition box, back oval entry	**Model**	**D x W2 (mm)**	**L x H (mm)**	**W (mm)**	**Order number**
	8 x 4AR/OV100*	120 x 55	250 x 180	155	WBCL001524A
	10 x 4AR/OV100*	120 x 55	305 x 180	155	WBCL001525A
	10 x 4AR/OV125*	150 x 65	305 x 180	155	WBCL001531A
	10 x 5AR/OV125*	150 x 65	305 x 180	180	WBCL001526A
	10 x 6AR/OV125*	150 x 65	305 x 180	205	WBCL001533A
Y-piece	**Model**	**D / D1 / D2 (mm)**	**L x H (mm)**		**Order number**
	YAS100	100/100/100	320 x 255	–	WBCL001562A
	YAS125	125/125/125	360 x 300	–	WBCL001563A
	YAS100/80/80	100/80/80	380 x 300	–	WBCL001548A
Insulated flexible air ducts	**Model (mm)**	**D (mm)**	**L (m)**		**Order number**
	80	IN = 80; A = 105	L = 6	–	WBCL007460B
	104	IN = 104; A = 128	L = 6	–	WBCL007461C
	130	IN = 130; A = 145	L = 6		WBCL007462C
Standard flexible air ducts	**Model (mm)**	**D (mm)**	**L (m)**		**Order number**
	Cflex 102	102	10	–	WBCL001804
	Cflex 127	127	10	–	WBCL001805
	Cflex 150	152	10		WBCL001806
Insulated flexible air ducts	**Model**	**D (mm)**	**L (m)**		**Order number**
	CflexIso 102	102	10	–	WBCL001807
	CflexIso 127	127	10	–	WBCL001808
	CflexIso 152	152	10		WBCL001809
Tubular hose insulation	**Model**	**D (mm)**	**L (m)**		**Order number**
	Isosleeve 102	102	10	–	WBCL001810
	Isosleeve 127	127	10	–	WBCL001811
	Isosleeve 152	152	10	–	WBCL001812
	Isosleeve 180	180	10	–	WBCL001813
Extra silent insulated air ducts		**D (mm)**	**L (m)**		**Order number**
	–	102	10	–	WBCL010155A
	–	127	10	–	WBCL010156A
		160	10		WBCL010206A

* equivalent diameter of air ducting in mm.

Air system

Oval ducts	Description	Model (mm)	L (m)	Order number
	Oval duct (1)	100 x 40	3	WBCL007100
	Oval duct (1)	200 x 60	3	WBCL007106
	Elbow 90° (2)	100 x 40	–	WBCL007105
	Elbow 90° (2)	200 x 60	–	WBCL007108
	Elbow 90° – flat (3)	100 x 40	–	WBCL007104
	Elbow 90° – flat (3)	200 x 60	–	WBCL007111
	Junction oval/round (4)	100 x 40/100	–	WBCL007102A
	Junction oval/round (4)	100 x 40/80	–	WBCL007117
	Junction oval/round (4)	200 x 60/125	–	WBCL007109
	Junction oval/round (5)	100 x 40/100	–	WBCL007103A
	Junction oval/round (5)	200 x 60/125	–	WBCL007110
	Junction oval (6)	100 x 40	–	WBCL007101
	Junction oval (6)	200 x 60	–	WBCL007107
	Reduction (7)	200 to 100	–	WBCL007112
	Oval t (8)	200 x 60	–	WBCL007114
	Adapter oval/round (9)	200 x 60/125	–	WBCL007115
	Oval/round t (10)	200 x 60/125	–	WBCL007116

Water System	Chilled water pipes Webasto EasyPipe (mm)	Model (mm)	Packaging (m)	Order number
	d15/D4	15	50	WBCL010122B
	d22/D48	22	25	WBCL010123B
	d28/D54	28	25	WBCL010124B

Webasto EasyPipe

The solution to reduce installation time and save costs!

Benefits

- Easy assembly process, reliable application
- Pipes have pre-mounted insulation providing significant saving on installation time for boat builders
- Huge range of compatible quick-fitting components

Specifications

- Pipe material is high-quality polybutylene with a temperature range of -30 °C up to 90 °C at 6 bar
- Pipe insulation is high-quality closed cell polyethylen (PE-LD) with a temperature range of -30 °C to 95 °C and a lambda value of 0.0334 W/(m · K)
- O-ring sealed push fittings with stainless steel lockring
- Sold in rolls to be cut to length

Water System	Description	Model (mm)	Packaging (m)	Order number
	Hep_2O PB Barrier Pipe	15	L = 50	WBCL010300B
	Hep_2O PB Barrier Pipe	22	L = 50	WBCL010301B
	Hep_2O PB Barrier Pipe	28	L = 25	WBCL010302B

Water system

	Description	Model (mm)	Packaging (pieces)	Order number
	Hep_2O Straight Connector 15	15	10	WBCL010307B
	Hep_2O Straight Connector 22	22	10	WBCL010308B
	Hep_2O Straight Connector 28	28	10	WBCL010309B
	Hep_2O PB Elbow 90° GY 15	15	10	WBCL010325B
	Hep_2O PB Elbow 90° GY 22	22	10	WBCL010326B
	Hep_2O PB Elbow 90° GY 28	28	10	WBCL010327B
	Hep_2O PB Tee 90° GY 15	15 x 15 x 15	10	WBCL010337B
	Hep_2O PB Tee 90° GY 22	22 x 22 x 22	10	WBCL010338B
	Hep_2O PB Tee 90° GY 28	28 x 28 x 28	10	WBCL010342B
	Hep_2O PB Tee 90° GY 22 x 22 x 15	22 x 22 x 15	5	WBCL010339B
	Hep_2O PB Tee 90° GY 22 x 15 x 22	22 x 15 x 22	5	WBCL010340B
	Hep_2O PB Tee 90° GY 22 x 15 x 15	22 x 15 x 15	5	WBCL010341B
	Hep_2O PB Tee 90° GY 28 x 15	28 x 15 x 28	5	WBCL010343B
	Hep_2O PB Tee 90° GY 28 x 28 x 22	28 x 28 x 22	5	WBCL010344B
	Hep_2O PB Tee 90° GY 28 x 22 x 28	28 x 22 x 28	5	WBCL010345B
	Hep_2O Pb Tee Reduced Both Ends	W 22 x 15	–	WBCL010700A
	Hep_2O Pb Tee Reduced Both Ends	W 28 x 15	–	WBCL010701A
	Hep_2O Hepkey Plus 15	–	–	WBCL010702A
	Hep_2O Hepkey Plus 22	–	–	WBCL010703A
	Hep_2O Hepkey Plus 28	–	–	WBCL010704A
	Hep_2O Silicone Lubricant Spray 400 ml Aerosol Can Hep_2O Fittings	–	–	WBCL010705A

	Description	Model (mm)	Packaging (pieces)	Order number
	Hep$_2$O reducer 22 x 15 S/SP	22 x 15	10	WBCL010379B
	Hep$_2$O reducer 28 x 22 S/SP	28 x 22	10	WBCL010380B
	Hep$_2$O Straight Tap Connector 15 x 1/2''	15 x 1/2"	10	WBCL010316B
	Hep$_2$O Straight Tap Connector 15 x 3/4''	15 x 3/4"	5	WBCL010317B
	Hep$_2$O Straight Tap Connector 22 x 3/4''	22 x 3/4"	5	WBCL010318B
	Hep$_2$O Bent Tap Connector 15 x 1/2''	15 x 1/2"	10	WBCL010328B
	Hep$_2$O Brass Female Adapt 15 x 1/2''	15 x 1/2"	10	WBCL010310B
	Hep$_2$O Brass Female Adapt 22 x 3/4''	22 x 3/4"	10	WBCL010312B
	Hep$_2$O Brass Female Adapt 28 x 1''	28 x 1"	10	WBCL010314B
	Hep$_2$O Brass Male Adapt 15 x 1/2''	15 x 1/2"	10	WBCL010311B
	Hep$_2$O Brass Male Adapt 22 x 3/4''	22 x 3/4"	10	WBCL010313B
	Hep$_2$O Brass Male Adapt 28 x 1''	28 x 1"	10	WBCL010315B
	Hep$_2$O Brass Spgt Adapt 15 x 1/2'' Female	15 x 1/2"	10	WBCL010319B
	Hep$_2$O Brass Spgt Adapt 22 x 3/4'' Female	22 x 3/4"	10	WBCL010321B
	Hep$_2$O Brass Spgt Adapt 28 x 1'' Female	28 x 1"	10	WBCL010323B
	Hep$_2$O Brass Spgt Adapt 15 x 1/2'' Male	15 x 1/2"	10	WBCL010320B
	Hep$_2$O Brass Spgt Adapt 22 x 3/4'' Male	22 x 3/4"	10	WBCL010322B
	Hep$_2$O Brass Spgt Adapt 28 x 1'' Male	28 x 1"	10	WBCL010324B
	Hep$_2$O Brass Ball Valve 15	15	2	WBCL010353B
	Hep$_2$O Brass Ball Valve 22	22	2	WBCL010354B
	Hep$_2$O Shut off valve Hot/Cold 15	15	5	WBCL010375B

Water system

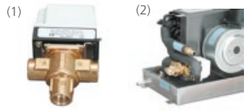
	Description	Model (mm)	Packaging (pieces)	Order number
	Hep$_2$O Cold Forming Bend Fixture 15	15	5	WBCL010335B
	Hep$_2$O Cold Forming Bend Fixture 22	22	5	WBCL010336B
	Hep$_2$O Pipe Support Sleeve 15	15	10	WBCL010362B
	Hep$_2$O Pipe Support Sleeve 22	22	10	WBCL010364B
	Hep$_2$O Pipe Support Sleeve 28	28	5	WBCL010366B
	Hep$_2$O Pipe cutter 10 - 28 Standard	–	1	WBCL010373B
	Hep$_2$O Pipe cutter 10 - 28 Professional	–	1	WBCL010374B

Important Note:
ALL Hep$_2$O FITTINGS ARE PRE-LUBRICATED – NO ADDITIONAL LUBRICATION REQUIRED.
If the fitting is demounted and remade, the use of Hep$_2$O Silicone Lubricant Spray (HX200) is recommended.
HX200 is the only lubricant recommended for use with Hep$_2$O.

Water system

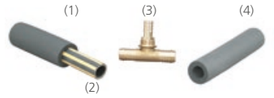
	Expansion tank	Order number
 (1) (2) (3)	Model 2,5 liter (1)	WBCL002030
	Model 8 liter (2)	WBCL002031B
	Automatic air bleeder (3) for chiller circuits, 5/8" = 15 mm	WBCL002035A

	TA Hydronics flow regulators	Order number
	Model STAD-15 – diameter 15 mm (5/8")	WBCL002100
	Model STAD-20 – diameter 20 mm (3/4")	WBCL002101
	Model STAD-25 – diameter 25 mm (1")	WBCL002102

	3-Way valve	Order number
 (1) (2)	3-Way valve 25 mm (1") without fitting (1)	WBCL009433
	3-Way valve 15 mm (5/8") without fitting (1)	WBCL009434
	3-Way valve 20 mm (3/4") without fitting (1)	WBCL009432
	3-Way valve 15 mm (5/8") with fitting/piping (2)	see price list for details
	3-Way valve 20 mm (3/4") with fitting/piping (2)	see price list for details

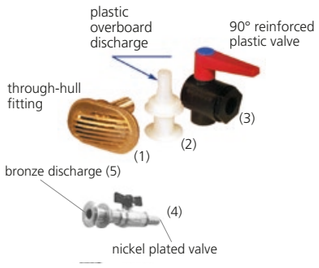
	Turn ball valve	Order number
	1/4 Turn ball valve – diameter 12 mm	WBCL002015A
	1/4 Turn ball valve – diameter 15 mm	WBCL002016A
	1/4 Turn ball valve – diameter 20 mm	WBCL002017A
	1/4 Turn ball valve – diameter 25 mm	WBCL002018A

Water system

	Chilled water hoses and accessories	Order number
 (1) (3) (4) (2)	Hose D12 with insulation 9 x 18 mm – 25 m (1)	WBCL002001A
	Hose D15 with insulation 9 x 22 mm – 25 m (1)	WBCL002002A
	Hose D20 with insulation 9 x 28 mm – 25 m (1)	WBCL002003A
	Hose D25 with insulation 9 x 35 mm – 25 m (1)	WBCL001999A
	Hose D15 without insulation – 25 m (2)	WBCL002005A
	Hose D20 without insulation – 25 m (2)	WBCL002006A
	Hose D25 without insulation – 25 m (2)	WBCL002000A
	Tubular insulation for D12; 9 x 18 mm – 2 m (4)	WBCL002007
	Tubular insulation for D15; 9 x 22 mm – 2 m (4)	WBCL002008A
	Tubular insulation for D20; 9 x 28 mm – 2 m (4)	WBCL002009A
	Tubular insulation for D25; 9 x 35 mm – 2 m (4)	WBCL002829A
 (5)	Adhesive foam, 50 mm wide – 15 m roll (5)	WBCL002010A
	T-piece 19-19-19 for hose D20 (3)	WBCL002011A
	T-piece 19-15-19 for reduction D20 – D15 (3)	WBCL002012A
	T-piece 19-12-19 for reduction D20 – D12 (3)	WBCL002013A
	T-piece 15-12-15 for reduction D15 – D12 (3)	WBCL002014A
	T-piece 15-15-15 for hose D15 (3)	WBCL002019A
	T-piece 19-16-16 (3)	WBCL002023

Pipe insulation closed, foam	d (mm)	D (mm)	Length (m)	pc. / box	for ABS:	Min. Order	Order number
 thickness: 13 mm	28	54	2	78	DN25	10	WBCL002830
	35	60	2	58	DN32	10	WBCL002831
	42	68	2	48	DN40	10	WBCL002832
	54	80	2	34	DN50	10	WBCL002833
	76	102	2	22	DN75	5	WBCL002835

Water system

	Sea water strainer	Order number
	G 3/4" model 1160, height 105 mm, nickel-plated brass	WBCL010109A
	G 1" model 1164, height 144 mm, nickel-plated bronze	WBCL010110A
	G 1 1/4" model 1164, height 178 mm, nickel-plated bronze	WBCL010111A
	G 1" model 1162, height 151 mm, nickel-plated bronze	WBCL010112A
	G 1 1/4" model 1162, height 176 mm, nickel-plated bronze	WBCL010113A
	Screen filter element for model 1160	WBCL010268A
	Sea-water strainer, 16 – 20 mm, with two nipples	**Order number**
	Capacity in US gallons 350/1,000 US gallons/h	
	Capacity in liters 25/50 l/min.	
	Suitable for pump models WB250 – WB350/1000	
	H = 140 mm	
	W = 100 mm	
	D = diameter inlet/outlet 5/8" – 16 mm	WBCL001151A
	D = diameter inlet/outlet 3/4" – 20 mm	WBCL001152A
	Screen-filter element 1,000 Microns	WBCL001154
	Sea-water strainer, 25 mm, with two nipples	**Order number**
	Capacity in US gallons 1,000 US gallons/h	
	Capacity in liters 50 l/min.	
	Suitable for pump models WB1000 to 2000	
	H = 290 mm	
	W = 144 mm	
	D = diameter inlet/outlet 1.25" – 32/40 mm	
	1" – 25 mm	WBCL001153A
	Screen-filter element 1,000 Microns	WBCL001155
	Through-hull kits 16, 20, 25 mm	**Order number**
	Capacity in US gallons 350 / 1,000 – 25 / 50 l / min.	
	Suitable for pump models WB250 – WB350/1000	
	D = diameter inlet/outlet, 5/8" – 16 mm kit, 1/2" – 16	
	D = diameter inlet/outlet, 3/4" – 20 mm kit, 3/4" – 20	
	5/8" – 16 mm – 1 plastic valve (1 + 2 + 3)	WBCL001125A
	3/4" – 20 mm – 1 plastic valve (1 + 2 + 3)	WBCL001126C
	5/8" – 16 mm + 2 x 90° plastic valve (1 + 3 + 5)	WBCL001123C
	3/4" – 20 mm + 2 x 90° plastic valve (1 + 3 + 5)	WBCL001124A
	Kit 5/8" – 16 mm – 1 nickel plated valve (1 + 4 + 2)	WBCL001175A
	Kit 3/4" – 20 mm – 1 nickel plated valve (1 + 4 + 2)	WBCL001176A
	Kit 5/8" – 16 mm – 2 nickel plated valves/bronze exit (1 + 4 + 5)	WBCL001177A
	Kit 3/4" – 20 mm – 2 nickel plated valves/bronze exit (1 + 4 + 5)	WBCL001178A
	Kit 1" – 25 mm – 1 nickel plated valve/plastic exit (1 + 4 + 2)	WBCL001179A

Water system

	Air bleeder t-piece for chilled water system	Order number
	Model 1000S (for pump WB1000): t-piece 3/4", diameter shut-off valve outlet 1/2" – 16 mm	WBCL001121A
	Model 2000S (for pumps WB1500-2500): t-piece 1", diameter shut-off valve outlet 3/4" – 20 mm	WBCL001122A
	Chilled Water Circuit A/C Calorifiers	**Order number**
	With safety thermostat	
	Model 15 kW; 400 V; L = 1,015 mm; H = 200 mm; weight = 11 kg	WBCL002121
	Model 30 kW; 400 V; L = 1,590 mm; H = 200 mm; weight = 19 kg	WBCL002123
	Air bleeder for seawater pumps	**Order number**
	Model 350R (for pumps WB250 and WB350): t-piece 3/4", diameter supply and outlet 1/2" – 16 mm	WBCL001118A
	Model 1000R (for pump WB1000): t-piece 3/4", diameter supply and outlet 3/4" – 20 mm	WBCL001119A
	Model 2000R (for pumps WB1500 – 2500): t-piece 1", diameter supply and outlet 3/4" – 20 mm	WBCL001120A

Webasto can provide all accessories for pressurized systems. Please contact us for further details.

Integrated solutions

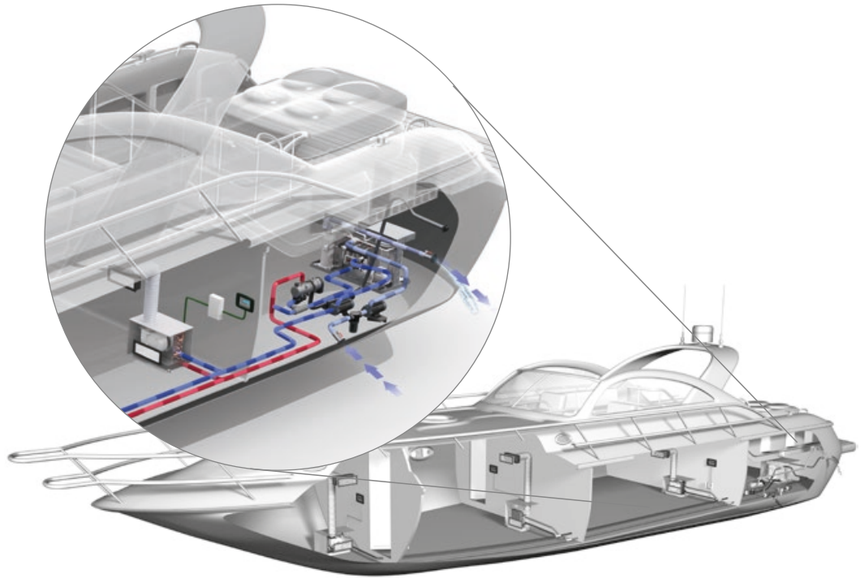
Integrated solutions

Webasto BlueComfort solutions combine an air-conditioning unit and a water heating unit into one integrated system. This allows yacht owners and sailors to expand the boating season as people can chose between heating and cooling at the push of a button.

Most air-conditioning systems have a reverse cycle function to enable heating with the A/C system. However, this requires mild sea water temperatures for efficient heating. Below 6 °C sea water temperature the heat cycle becomes inefficient. To gain total autonomy from environmental conditions, an integrated water heater is the perfect solution.

BlueComfort Premium

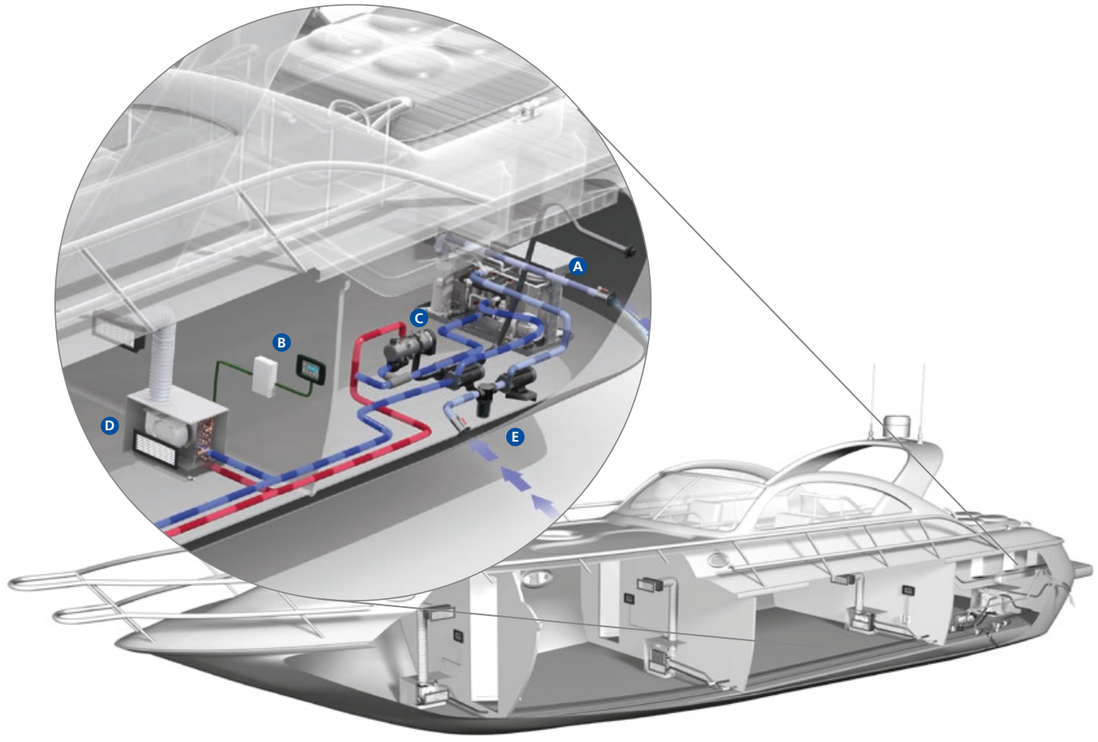
- Integration of a chiller A/C unit and a diesel-operated water heater into one system
- Comfort like at home in any weather condition
- Modular concept allowing multiple configurations
- Full range of solutions for any size of boat



Best in class, when it comes to complete climate comfort: Chiller A/C unit and a powerful water heater.

BlueComfort Premium

Application concept



- A Chiller A/C unit
- B Cabin Control
- C Heater
- D Air Handler
- E Sea Water Pump

BlueComfort Premium

Application guidelines

For a complete BlueComfort Premium system, please combine the following:

1. Chiller air-conditioner

Core unit

Please select the core unit according to the required cooling capacity, the available voltage and whether cool only or heating via reverse cycle is needed.

- Air-conditioning unit SEE PAGE 90–103

Position **A** as well as the following components are included in the scope of delivery:

- Electric cable and control box
- Operating manual
- Installation manual

Control elements for core unit

Please select the control elements for the core unit separately:

- MyTouch Display SEE PAGE 116
- Display cable SEE PAGE 116
- Remote air temperature sensor SEE PAGE 116

Sea water circuit

Please order separately the components for the sea water circuit consisting of:

- Sea water inlet SEE PAGE 132
- Sea water pump SEE PAGE 118
- Overboard discharge SEE PAGE 132
- Sea water strainer SEE PAGE 132
- Closing valve SEE PAGE 132
- Water hose SEE PAGE 126

Chilled water circuit

Please add the required components for the chilled water circuit consisting of:

- Circulation pump SEE PAGE 118
- 3-way valve (optional) SEE PAGE 141
- Turn ball valve SEE PAGE 132
- Piping or hosing system with insulation SEE PAGE 126
- Expansion tank SEE PAGE 130

Cabin accessories necessary for each single cabin

Please add for every single cabin the following components and accessories:

- Air handler SEE PAGE 104
- Supply air grille SEE PAGE 123
- Air ducting SEE PAGE 125
- Transition box SEE PAGE 124
- Water hoses for condensation drain SEE PAGE 131
- Cabin control (Air control, display cable, temperature sensor and control box) SEE PAGE 116
- Return air grille SEE PAGE 123

2. Water heater

Select the right heater according to the table below

Chiller air-conditioning cooling capacity										
BTU / h	12,000	24,000	32,000	40,000	48,000	60,000	78,000	90,000	108,000	126,000
kW	3.5	7.0	9.3	11.7	14.0	17.6	23.0	26.5	31.7	37.0
Heater										
	Thermo Pro 50				**DBW 2010**				**Thermo 300**	
		Thermo Pro 90				**DBW 2016**		**Thermo 230**		

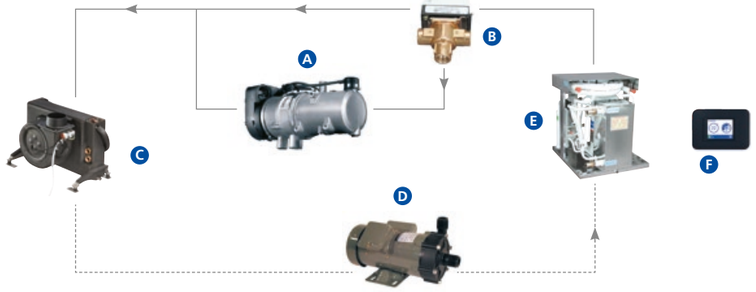
BlueComfort Premium

Basic integration

In a BlueComfort Premium system an A/C unit and a diesel-operated water heater are integrated into one system. The use of a water heater ensures full heating performance even at cooler sea water temperatures where the reverse cycle operation comes to its limits. In this integrated system the same water piping, air handlers, air ducting and cabin temperature control modules are used for both heating and A/C operation. For user friendliness, the main system is controlled via one control panel while each cabin has an individual temperature and blower speed control. The BlueComfort Premium system offers two integration options: the "Basic" and the "DeLuxe" integration depending on comfort requirements.

Basic integration

The Basic integration is simply **integrating a water heater with a 3-way valve into the chilled water system.** The valve ensures that no cold water is running through the heater which would cause condensation. Both, the heater and the 3-way motor valve are controlled by the A/C electronic control. A special heater with a lower temperature setting or additional thermostats are needed in order to limit the water temperature to 60 °C.



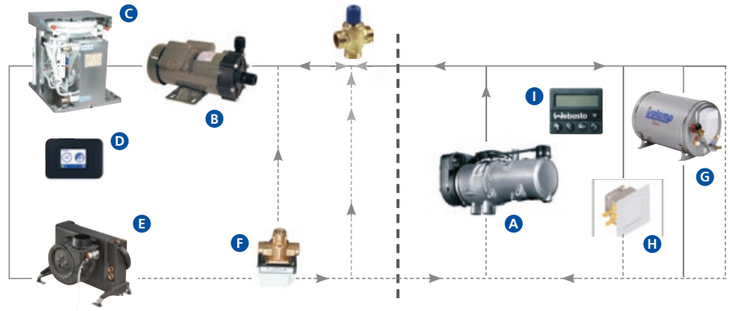
A	**Water heater**	Produces hot (60 °C) water when system switches to heating
B	**3-way valve**	Switches between cooling or heating loop
C	**Air handler**	Warms up or cools down returning air
D	**Water pump**	Circulates the water
E	**A/C chiller unit**	Cools down the water when system switches to cooling
F	**Chiller control**	Controls the complete A/C system and the water heater
		Starts the compressor when cooling is necessary
		Starts the heater when heating is necessary

BlueComfort Premium

DeLuxe integration

DeLuxe integration

The DeLuxe integration has all the features of the **Basic integration but additionally allows the integration of a water boiler as well as further fan blowers or radiators into the system.** It therefore provides the highest comfort in heating and sanitary water supply. The mixing valve limits the water temperature in the A/C loop to 60 °C. A summer/winter switch allows heating of the boiler in summer while the A/C system is cooling the cabins at the same time.



For a perfect integration Webasto recommends Isotemp double coil boilers. Visit www.indelwebastomarine.com

A	**Water heater**	Produces hot (approx. 80 °C) water when system switches to heating
B	**Water pump**	Circulates the water
C	**A/C chiller unit**	Cools down the water when system switches to cooling
D	**Chiller control**	Controls the complete A/C system and the water heater
		Starts the compressor when cooling is necessary
		Starts the heater when heating is necessary
E	**Air handler**	Warms up or cools down returning air
F	**3-way valve**	Switches between cooling or heating loop
G	**Water boiler**	Heats up the sanitary water
H	**Blowers or radiators**	can optionally be used in areas with extra high heating demand (e. g. windscreen for demisting)
I	**Summer/ Winter switch**	Allows separate boiler operation in summer mode

BlueComfort accessories

For the chilled water system, the following key components are needed as well:

3-way motor valve	Basic Integration	DeLuxe Integration
	Thermo Pro 90 Chiller & DBW 2010/2016/2020 use 3/4" motor valve WBCL000776	Thermo Pro 90 chiller & DBW 2010/2016/2020 use 3/4" motor valve WBCL000776
	Thermo 230/300/350 use 1 1/2" or 2" motor valve, e.g Belimo R340BL/R350BL + SR230A motor	Thermo 230/300/350 use 1 1/2"or 2" motor valve, e.g. Belimo R340BL/R350BL + SR230A motor
	3-way motorized valve 1", 230 V, special for BlueComfort applications WBCL000777A	
Thermostatic mixing valve	**Basic Integration**	**DeLuxe Integration**
		Thermo Pro 90 use 3/4" mixing valve
		DBW 2010/2016/2020 use 3/4" mixing valve
		Thermo 230/300/350 use 1 1/2" mixing valve

Roof solutions

Webasto marine roofs

Webasto offers a wide range of roof solutions, whether you are looking for a standard roof size with easy installation or a more customizable platform for your individual needs. As our customer you will additionally benefit from our technological leadership and knowledge brought over from our experience in the automotive sunroof industry.

Our standard solutions

Comfortable ready-to-go-platforms.
These are very economical solutions for more light and fresh air on board with a robust and proven construction. Our pre-mounted solution includes all necessary hardware allowing super quick and easy installation.

Compliment your roof with our elegant shading solution.
Together with Oceanair, Webasto has developed an elegant shading solution to compliment their range of large roof systems. Uniquely, this combined blind and flyscreen solution is UV resistant and fully marinized for life on the water.

Webasto engineering services

Add value to your boats and your brand image by developing your own roof system with us.
We create unique, exclusive roof systems that match your exact specifications. Our phased project approach guarantees you limited risks, a possible exit at any stage and of course joint teams and know-how transfer. Take comfort in knowing that you are involved in every stage, and have the opportunity to use our engineering and manufacturing capabilities for high quality results.

Marine engineering and technical services

Webasto has 30 years' experience in advanced automotive roof systems which we apply to marine: kinematics, advanced materials, water management and sealing systems. We turn your ideas into reality and guarantee high quality and outstanding product know-how. Phased project approach and joint teams enable know-how transfer to your engineers.

Add value to your boat and brand image
- Unique, exclusive roof systems to match your exact specifications
- Phased project approach: limited risk, possible exit at any stage
- Joint teams and know-how transfer
- Customer involved at every stage
- Opportunity to use Webasto engineering skills and manufacturing capabilities for high quality results

The success of our projects is based on three fundamental elements
- **Product visualization:** Translate ideas into visual concepts. Phased project approach allows frequent evaluation and limits the customers' risk.
- **Product development:** Translate visual into technical concept. Joint teams require strong customer involvement (marketing, R & D, manufacturing).
- **Product validation:** Prepare drawing package for suppliers and assembly. Highly valuable know-how transfer ensures best outcome of the project investments at every stage.

Service
- We ensure a global network with over 50 locations throughout the world via our subsidiaries, representatives and authorized service network
- We guarantee an international warranty and customer support based on our commissionings
- We offer global trainings and technical guidelines
- We guarantee a fast availability of spare parts
- We are at your location with our dedicated marine service team

Quality
- We benefit from the high automotive standards and related advanced technologies
- We deliver personalized solutions for individual customer needs
- We provide fully tested, pre-assembled and ready-to-be-mounted solutions
- We supply added-value accessories
- Our solutions are highly engineered

Competence
- Our teams are made up of marine specialists and technical experts
- We can support our customers with any kind of commissioning
- Our innovations are the result of open communications and close partnership with our customers

A roof solution for every boat

Roof references

The 20-Series

Economical and robust roof for more light on board

A very economical manual or electrical sliding roof for more light and fresh air on board. The roof is fully tested and pre-assembled including all necessary hardware allowing quick and easy installation.

- Standard roof with large opening
- Watertight sealing
- Robust and proven construction
- Manual or electrical operation
- Stepless locking system

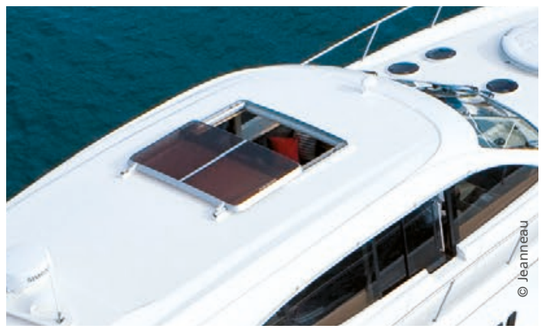
The 40-Series

Standard electric marine sliding sunroof

This roof platform offers a sleek, low profile design to be able to fit in smaller boats. The roof is electrical operated, extremely quiet, and is delivered fully assembled, tested and ready to be installed.

- Attractive design with safety glass
- Watertight sealing
- Fast and simple installation
- Robust and quality-tested design
- Optional fixed glass panel for panoramic views

The 60-Series



The easy, ready-to-be mounted solution

This series offers multiple customization options for a perfect fit. The roof is delivered fully tested, pre-assembled and ready-to-be-mounted at the shipyard thus resulting in significant cost saving for the boat builder.

- Customizable roof system
- Watertight sealing
- Robust and proven construction
- Electrical operation
- Smooth automotive style mechanism

The 80- & 100-Series

Roof design for extra large glass and composite panels

A completely dedicated roof solution whereby application engineering and a close cooperation with the shipyard is required. The roof is delivered fully tested, pre-assembled and ready-to-be-mounted.

- Fully integrated roof design
- Watertight sealing
- Very large dimensions and opening
- Selection of different panel materials
- Double curved solution is possible

The 150-Series

Exclusive double-curvature roof models

A perfect solution for demanding roof projects. The fully integrated roof consists of a moving and a fixed panel. The panels are fully flush and the double curvature allows extra ordinary design possibilities.

- Fully integrated roof design
- Watertight sealing
- Selection of different panel materials
- Extra large dimensions and opening
- Sliding panel is tilting at rear and front side

The BlueSky

Innovative light weight electrical sliding roof

This electrical sliding sunroof is designed for smaller boats and features a modern full acrylic panel. The panel is made from 2 shells for improved insulation and very light weight. The aluminium motor cover ensures a perfect interior finish and simple and fast installation.

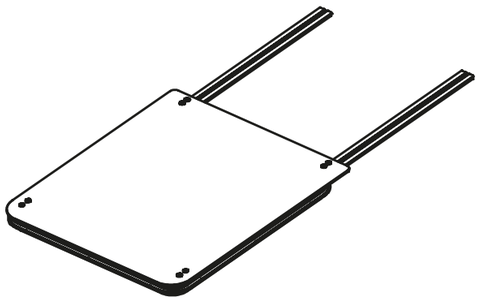
- Electrical operation
- Modern and light weight panel
- High end interior finish
- Watertight sealing
- Robust and proven construction

20-Series specifications

One size fits all

Select options

- Sunblind / flyscreen
- Also electrical version available



Technical specifications

	20-Series
Frame material	Aluminum
Panel material	8 mm tempered safety glass/grey tinted
Sliding rail material	Aluminum
Overall dimensions (mm)	1,995 x 1,010
Cut-out length (L1) (mm)	1,010
Cut-out width (W1) (mm)	955
Corner radius (FRC, RCR) (mm)	80
Operation mode	Manual, stepless locking
Opening dimension (mm)	800 x 800
Weight (kg)	approx. 45

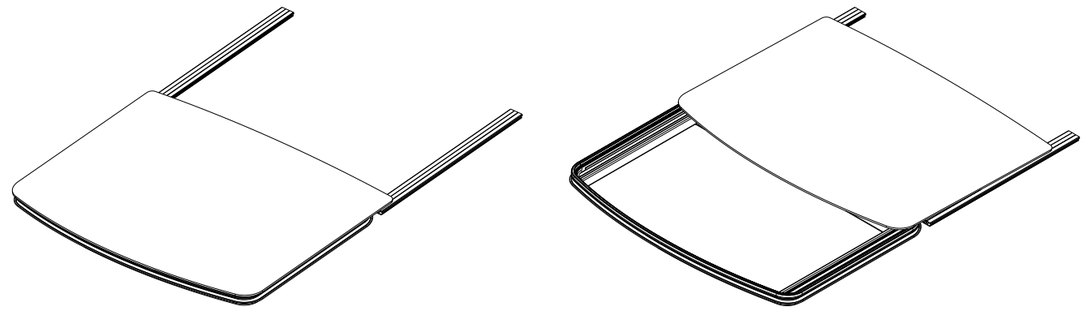
Technical specifications are subject to change without prior notice.

40-Series specifications

A perfect fit

Select options

- Fixed panel
- Sunblind /flyscreen
- Motor cover



Technical specifications

	40-Series
Frame material	Aluminum
Panel material	8 mm tempered safety glass/grey tinted
Sliding rail material	Aluminum
Overall dimensions	1,665 x 1,379 mm (1,865 x 1,379 with fixed panel)
Cut-out length (L1) (mm)	915
Cut-out width (W1) (mm)	1,320
Corner radius (FRC, RCR) (mm)	80
Cross radius (R2) (mm)	7,620
Front radius (R3) (mm)	2,032
Operation mode	Electrical 12 V DC
Opening dimension (mm)	624 x 1,172
Weight (kg)	approx. 65

Technical specifications are subject to change without prior notice.

60-Series customization possibilities

5 steps to customize your roof

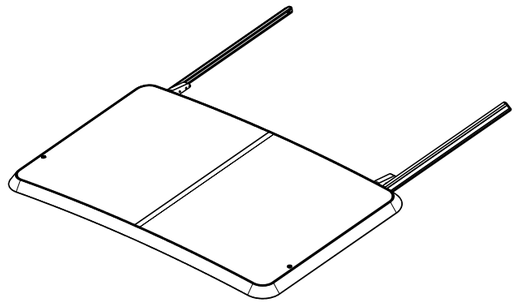
1 Select roof type:
- Top mount
- Flush integrated

2 Define dimensions:
- Length
- Width
- Curvature

3 Select panel design:
- Acrylic
- Glass
- Sandwich

4 Select frame finish:
- Anodizing
- Powder coating

5 Select options:
- Motor cover
- Fixed panel
- Sunblind/flyscreen
- 24 V DC (12 V DC is standard)



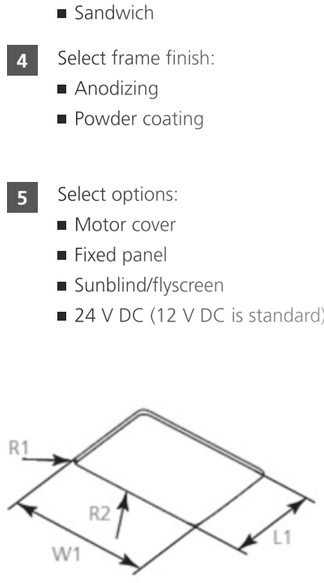


Figure 1

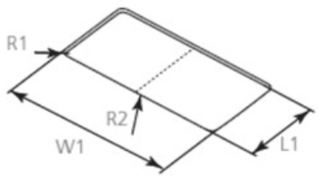


Figure 2

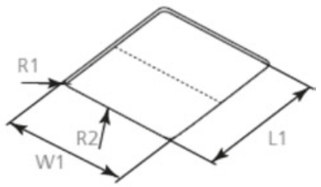


Figure 3

Technical specifications

Maximum cut-out size dimensions for our customized roofs		Max. lenght L1 (mm)	Max. width W1 (mm)	Corner curvature R1 (mm)	Min. cross curvature R2 (mm)
Figure 1	Roof without cross beam	1,100	1,100	80	7,500
Figure 2	Roof with cross beam in sliding direction	1,100	1,800	80	7,500
Figure 3	Roof with cross beam perpendicular to sliding direction	1,500	1,100	80	7,500

80-/100-Series customization possibilities

5 steps to customize your roof

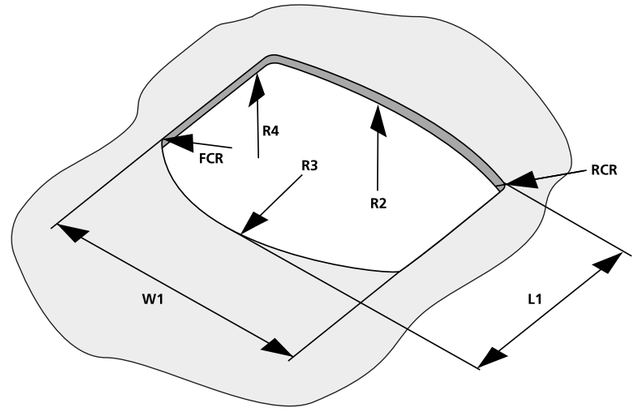
1 Select panel design:
- Glass
- GRP
- Sandwich

2 Select roof shape:
- Square
- D-shape

3 Define dimensions:
- Length
- Width
- Curvatures

4 Select design:
- Glass color
- Frame color

5 Select options:
- Fixed panel
- Sunblind/flyscreen
- 24 V DC (12 V DC is standard)



Technical specifications

Dimension code	Description	Glass	GRP	Sandwich
W1	Maximum width	2,750	2,750	2,750
L1	Maximum length	1,900	2,400	1,900
R2	Minimum cross radius	7,500	7,500	7,500
R3	Minimum front radius	2,500	2,500	2,500
R4	Minimum length radius	N.A.	5,000	N.A.
FCR	Front corner radius	Mitred or R = 80	Mitred or R = 80	Mitred or R = 80
RCR	Rear corner radius	Mitred or R = 80	Mitred or R = 80	Mitred or R = 80

Remark: All dimensions are in mm
Maximum dimension of glass and GRP panel is defined by maximum weight of 80/100 kg
Glass panel and Sandwich panel only have a cross radius (single bended)
Glass panel and Sandwich panel have fixed radius of: 7,500; 10,000; 15,000; 30,000 mm

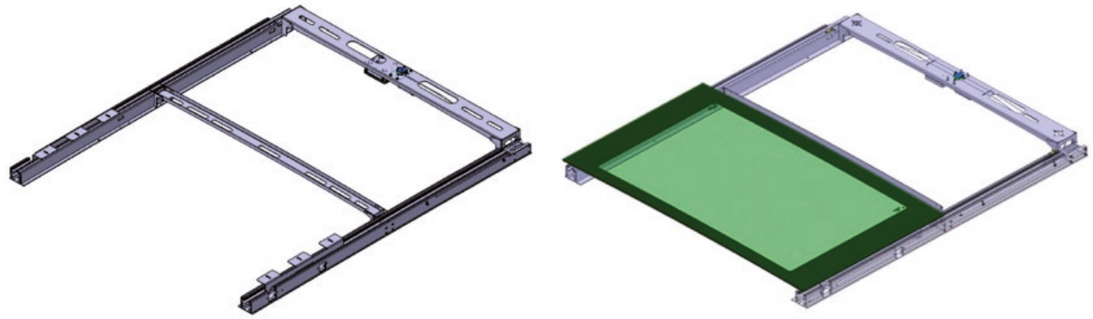
150-Series II customization possibilities

Full flush & extra large solution

1 Select panel design:
- Glass
- GRP
- Sandwich

2 Define dimensions:
- Length (total system app. 4,000 mm)
- Width (total system app. 2,500 mm)
- Curvatures

3 Technical specifications:
- Frame — Stainless steel construction. Laser cut & welded
- Seal — Inside seal fixed to GRP Hard Top for 100 % water tightness
- Mechanism — Tilting and sliding mechanism fixed to frame parts. Mechanism is including fixation brackets for the panel
- Drive system — 24 V DC motor fixed onto the frame part and connected to mechanism
- Panel — Front and rear panel
- Manual override — Special key to operate the roof manually (e.g. in case of power failure)



Please refer to our separate marine roof brochure for an overview of our roof references.

BlueSky
New Unique, Electrical Sliding Hatch

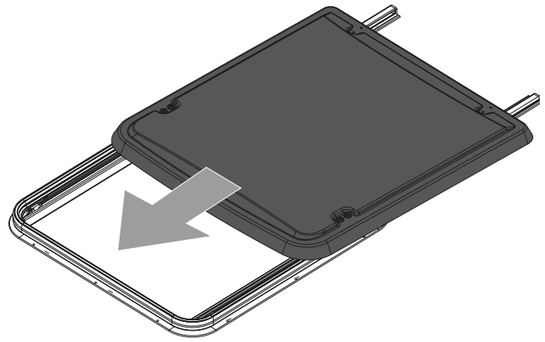
The electrical sliding hatch is designed for use on the wheelhouse or cockpit canopy of a power craft. The panel is made from two acrylic shells with a screen print resulting in a modern design, light weight and improved insulation. This construction is unique in the marine industry.

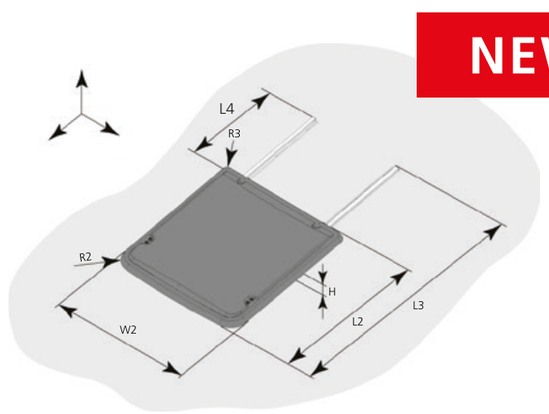
Thanks to the electrical operation the hatch is easy to use and the panel can be stopped in any desired position. The tilting an sliding mechanism in combination with the seal ensures full water tightness.

Webasto BlueSky

- Electrical: Smooth operation ensures more comfort
- Simple: Plug-and-play installation resulting in short installation times
- Comfortable: Insulated panels for less heat inside the boat
- Modern: Attractive look of the panel
- Variable: Tilting and sliding mechanism
- Compact: The selected dimension ensure a good and easy fit on the wheelhouse or cockpit canopy

NEW





	Description	BlueSky
	General	
	Operation	Electric withRocker switch
	Operation voltage (DC) (V)	12
	Installation method	Frame and rails screwed on deck/roof/surface
	Frame materials	Aluminium, Anodized
	Panel	Acrylic with screen print. Double layer, 2 x 3 mm
	Motor cover	Aluminium, Anodized
	Allowable temperature (°C)	-10 to +75
	Possibility to use as escape hatch	No
	Design category according to ISO 12216	Category B
	Application Area according to ISO 12216	Area III
	Cut out dimensions	
L1	Length (mm)	770 +0 / +4
W1	Width (mm)	720 +0 / +4
	Longitudinal curvature (mm)	Uncurved
R1	Corner radius (mm)	65 ±2
	Cross curvature (mm)	Uncurved
	Dimensions	
L2	Length (mm)	922
L3	Overall length (mm)	1490
L4	Rear rail length (mm)	630
W2	Width (mm)	810
H	Height (mm)	60
	Longitudinal curvature (mm)	Uncurved
R2	Front corner radius (mm)	100
R3	Rear corner radius (mm)	45
	Cross curvature (mm)	Uncurved
	Panel displacement	
	tilt (Z-direction) (mm)	38
	slide (X-direction) (mm)	545
	Weight	
	(kg)	14
	Optics	
	Colour panel	Dark grey tinted
	Interior	Blank anodised

The finishing touch – custom roof blinds

Sky screen pleated for 20-Series

- Perfect fit: Dedicated dimension for 20-Series and available in 2 colours.
- Integrated flyscreen: Allows for cabin ventilation whilst keeping the insects out.
- UV protection: Essential overhead shading from direct sunlight, providing energy efficient light and temperature control.
- Quick and easy to install: Pre-assembled, surface mount, robust aluminium frame with concealed mounting holes.

Hercules blind

- Robust: Use of intermediate bars leaves for a cordless and safe open aperture.
- Large dimensions: Designed to complement Webasto's wide range of roof systems.
- Integrated flyscreen: Allows for cabin ventilation whilst keeping the insects out.
- UV protection: Essential overhead shading from direct sunlight, providing energy efficient light and temperature control.
- Fully customizable: System is offered in various configuration possibilities and colours.
- Quick and easy to install: Full frame system, pre-assembled before installation.

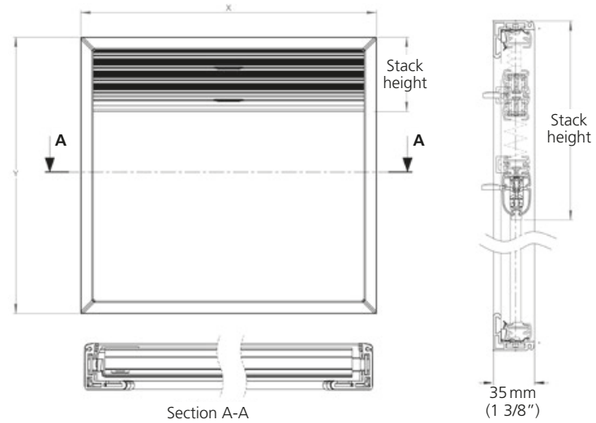
Hercules blind customization possibilities

Three steps to customize your blind

1 Select frame design:
- Blind & flyscreen – Double ended
- Blind & flyscreen – Single ended
- Blind only – Single ended
- Flyscreen only – Single ended

2 Select fabric colour:
- White
- Ivory
- Straw
- Beige

3 Define dimensions:
- Drop (max. 2,800 mm)
- Width (max. 2,400 mm)
- Curvature (min. 7,500 mm)



D-shape solutions

- In case a rectangular shape is not feasible in the interior design a dedicated D-shape solution can be offered.
- The fabric types and colours of a D-shape solution are the same as for the rectangular version.
- The exact shape and dimensions of a D-shape solution will be defined during the application development.
- A D-shape solution requires a much earlier boat design consideration of the stowage area.

A joint development by Webasto and

OCEANair

Elegance : Engineered

Nomenclature

In order to define descriptive technical abbreviations for our air-conditioner and our air handler units, Webasto introduced a special nomenclature for the price list.

Air-conditioning units nomenclature

Air-conditioning model abbreviations:

S = Self-Contained (BlueCool S-Series) C = Chiller (BlueCool C-Series)

Example: C55T-R-230V-REV-R410A = Chiller 55,000 Twin Rotary compresssor 230 V reversible refrigerent R410A						
C	55	T	-R	-230V	-REV	-R410A
C-Series	55,000 BTU/h	Twin	Rotary comp	Voltage	REV = reverse cycle	refrigerent

SC = Self-Contained (BlueCool Classic)

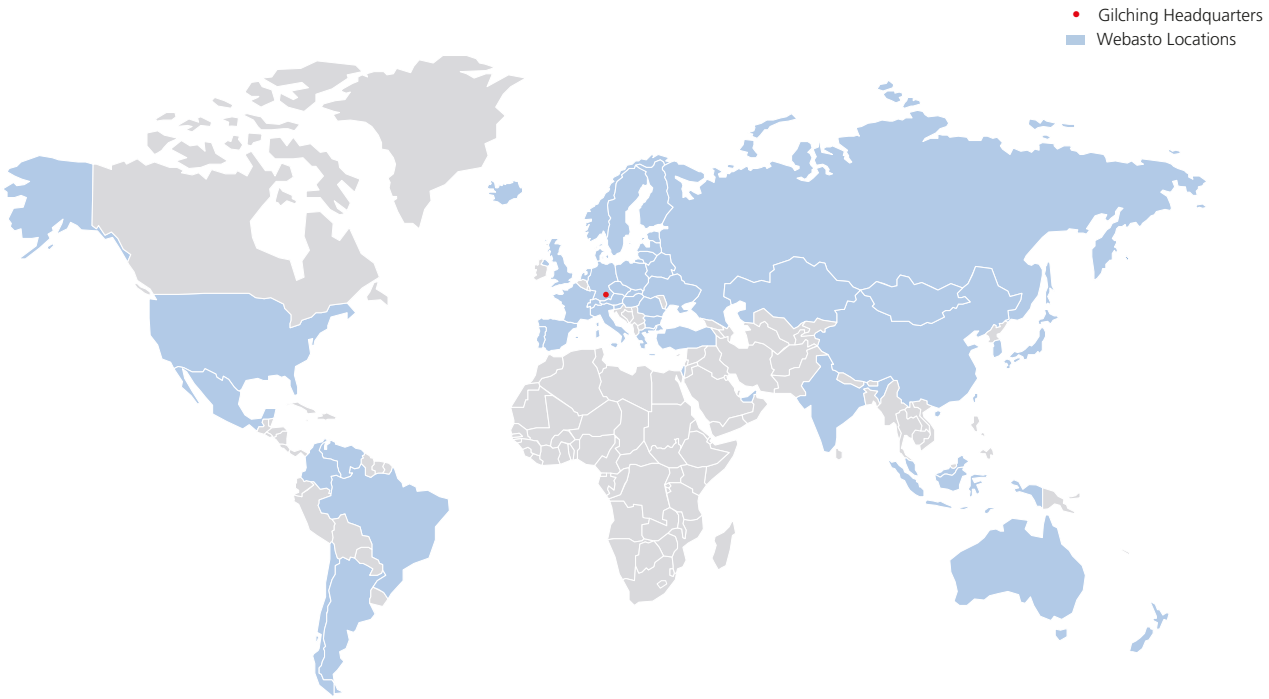
Example: SC5EU-REV = Self-Contained 5,000 230 V reversible			
SC	5	EU	-REV
Selfcontained	5,000 BTU/h	EU = 230 V	REV = reverse cycle

P = Professional Chiller (BlueCool P-Series)

Example: P60M-S-400V-REV-R407C = P-Series Chiller 60,000 Mono Scroll 400 V reversible refrigerent R407C						
P	60	M	-S	-400 V	-REV	-R407C
P-Series	60,000 BTU/h	Mono	S = Scroll comp.	Voltage	REV = reverse cycle COOL = Cool only	refrigerent

A = Air handler (BlueCool A-Series)

Example: A12 Compact -230V -50/60Hz = A-Series Air handler Compact type 12,000 kBTU/h 230 V; 50 Hz and 60 Hz				
A	12	Compact	-230 V	-50/60 Hz
A-Series	12,000 BTU/h	Compact type	Voltage	Frequency



Since its foundation in 1901 the Webasto group has continued to set new technological standards in the original equipment and aftermarket sector. Today, we are one of the 100 biggest suppliers in the automotive industry worldwide. We develop and produce roof, convertible as well as heating, cooling and ventilation systems. Our products help provide a better atmosphere on the road, more comfort and security, as well as increased efficiency for cars, commercial and special vehicles, motor homes and boats. An outstanding network of production facilities and dealers guarantees high-quality products, installation standards and services worldwide.

Webasto Thermo & Comfort SE
P.O. Box 1410
82199 Gilching
Germany

webasto-marine.com