


Marine Catalogue 2010





Dear Customers, dear Partners,

For the last four years, Webasto Marine Comfort has been building its very successful development on the technological leaderships inherited from its 100-year-old automotive experience, combined with the dedication of a worldwide network of marine experts. 2009 has given us the opportunity to further develop our exceptional roofs, presented successfully on several flagships of the 2010 season. Our climate solutions were not neglected either and integrate various, less visible new product features for further improvement. To your benefit, all people at Webasto Marine Comfort have been persistently and consistently pulling in the same strategic direction. Our three mission statements clearly show you the levels of innovation and quality of services, which you can continue to expect from us in the future:

- 1) Leveraging on Webasto's cross-segment R & D investments into advanced core technologies, Webasto Marine Comfort constantly innovates in integrating high quality heating, cooling and large movable surface products into intelligent system solutions which contribute to the enhancement of comfort on board for the whole boating industry.
- 2) Webasto Marine Comfort uniformly supports its solutions worldwide thanks to its highly trained and dedicated international marine network.
- 3) Webasto Marine Comfort's innovations are the result of a proactive collaboration with its customers and a careful consideration of their needs at every development stage of a vessel.

The new 2010 Marine catalogue continues our tradition for excellence and innovation. Take the time to discover new products and various improvements we applied thanks to your valuable input. Together with the Webasto Marine Navigator, the catalogue is an essential tool to develop your business. Make the best use of it!

Your Webasto Marine Team.

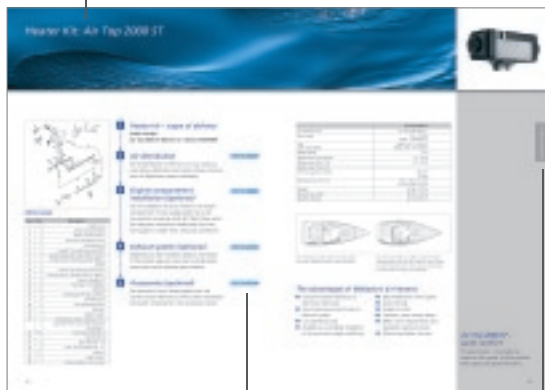
Welcome to Webasto Marine

This catalogue has been designed to help you defining a complete solution for your boat. It includes:

- Products and product selection tools to identify the right product for your boat
- Guidelines on how to build your own applications
- All technical data for each product
- Pre-assembled kits for ease of installation
- The widest range of accessories for cooling and heating applications in the industry

Fast access to information

Page header indicates which part and type of information you reached within each product section: product technical data, selection, etc ...



Page indication for fast access to accessories, etc.

Cut outs give you direct access to the product range

A detailed table of content is available at the end of catalogue, page 135.

BlueHeat Heating Solutions



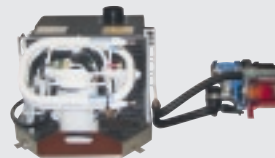
- Air Heaters
- Water Heaters
- Water Stations
- Accessories

BlueCool Cooling Solutions



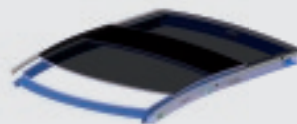
- BlueCool Classic; self-contained A/C systems
- BlueCool Premium; chilled water A/C systems
- Accessories
- Spare Parts

BlueComfort Integrated Solutions



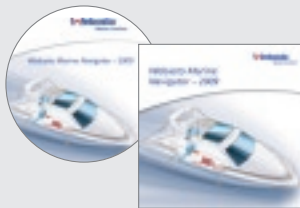
- BC Premium: Chiller-water heater integration
- BC Classic: Self-contained A/C heater integration

Roof System Solutions



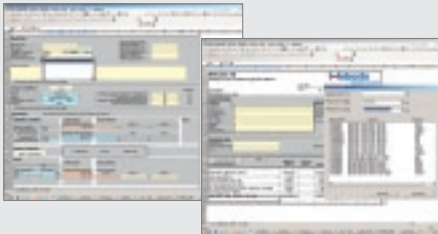
- Webasto Marine Roofs
- Marine Engineering Services

We Are Here to Develop Your Business!



Marine Navigator: Your Webasto Encyclopedia

- All available documentation concerning products, technical information, sales and marketing support
- Useful tools for proper calculation and quotation
- The essential business development tool



Webasto Quote Generator

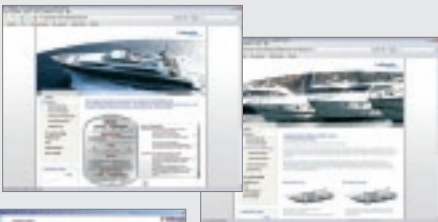
- All the Webasto expertise at your finger tips
- Accurate quotations documented professionally
- Quick response to your customer requests
- The Webasto Quote Generator also exists for professional roof quotations



Dealer Portal

<http://dealers.webasto.com>

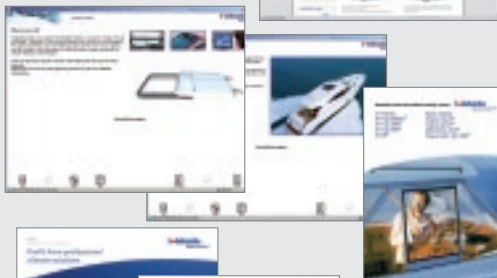
- Easy access to complete Webasto documentation
- Powerful search and download tools
- Login-protected access to technical data and applications



Marine Website

www.webasto-marine.com

- Quick and appealing product guide
- International dealer locator
- Multi-lingual access



Marine Training Program and Technical Guidelines

- Powerful product training – NEW Web-training
- Regular updates on new features
- Various modules adapted to audience
- Important guidelines for safe application engineering



Marketing Documentation and Material

- Marine marketing materials: product brochures, flyers, posters
- Marine engineering services brochure
- Product data sheets
- Dealer packages

What's New?

BlueCool and BlueComfort Controls

The new display design offers:

- Improved layout for intuitive use
- Clear and self-explaining symbols
- Contemporary design with high-quality graphics matches modern yacht interiors
- Consistent design platform ensures easy use of all our control elements
- Availability for all air conditioning systems



See page 89 – 90

Remote control

The remote control offers:

- Control of key functions with ergonomic buttons
- Same clear and self-explaining symbols like digital display for easy recognition
- Reliable infrared function
- Lightweight and compact size
- Compatibility with all current digital displays



See page 91

New Marine Water Stations: Cabin heating and hot sanitary water

The new marine water stations offers:

- Four versions:
 - Central heating
 - Central heating + hot sanitary water through boiler
 - Central heating + hot sanitary water through integrated plate heat exchanger
 - Central heating for integration with air conditioning
- Five different capacities: 11.6 kW, 16 kW, 23 kW, 30 kW, 35 kW
- Modern casing in very compact dimensions



See page 34 – 35

Which Heater for Your Boat?



BlueHeat 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
- Quiet-running
- Ideal for sailing and motor boats up to 40 feet

OR ...

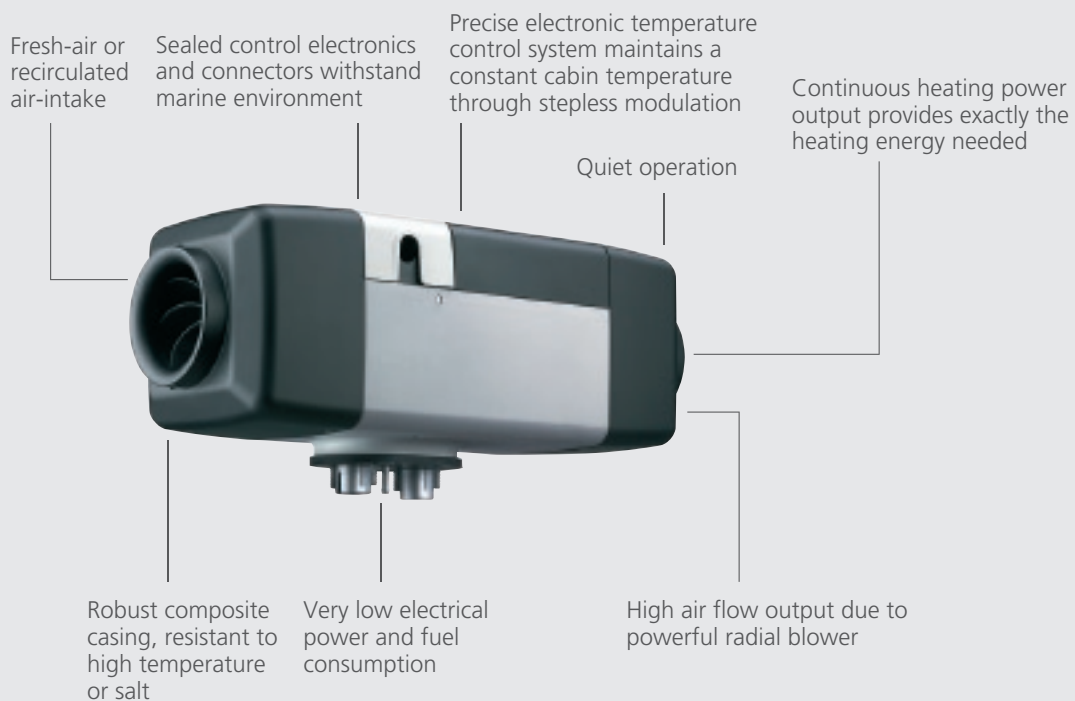


BlueHeat water heaters

- Heating comfort just like at home
- Even distribution of warmth by means of radiators
- Hot water for the shower and galley
- Quiet-running
- Space-saving installation in the engine room
- Excellent possibilities for combining with Webasto BlueCool air conditioning systems

Webasto Heating Products

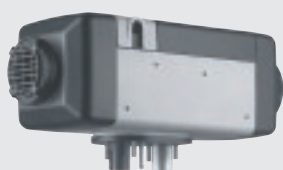
Air Top Evo: Perfect Heat on Demand!



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 +10 % increased heating power output (from 3,500W to 3,900W and from 5,000W to 5,500W)
 - ⌋ 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

Webasto BlueHeat Air Heaters



■ Air Top 2000 ST

[See page 12 – 13](#)



■ Air Top Evo 3900
■ Air Top Evo 5500

[See page 14 – 15](#)

[See page 16 – 17](#)



■ HL 90

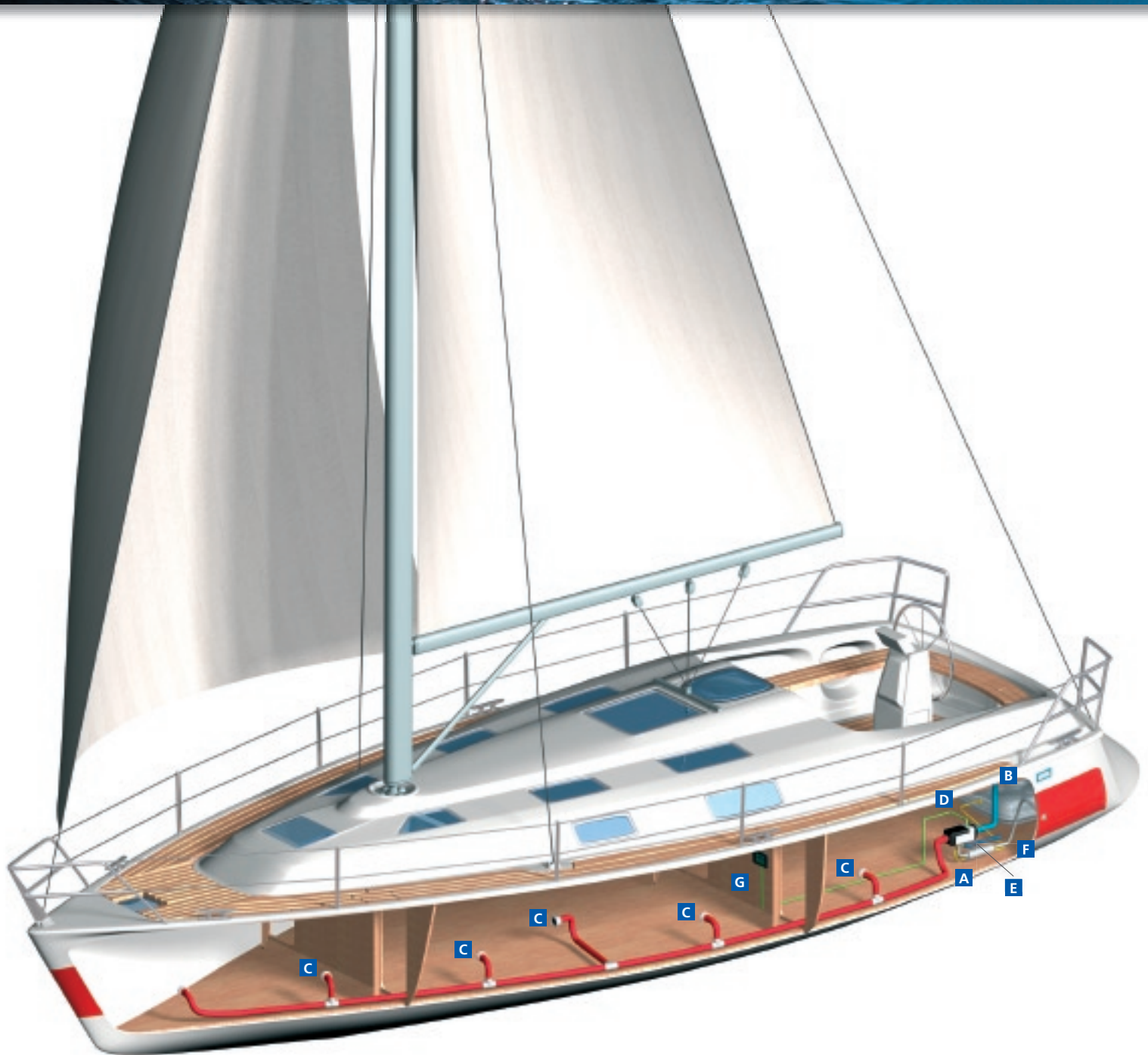
[See page 18 – 19](#)

Product Overview | Technical Features

	Air Top 2000 ST	Air Top Evo 3900*	Air Top Evo 5500*	HL 90
EC approval mark	e1*2001/56*0022*_	E1*2007/56*2006/119*0219*_	E1*2007/56*2006/119*0220*_	e1*2001/56*0017*_
Heat output	0.9 – 2.0 kW 3,000 – 7,000 BTU/h	1.5 – 3.5 (3.9) kW 5,100 – 12,000 (19,500) BTU/h	1.5 – 5.0 (5.5) kW 5,100 – 17,000 (18,700) BTU/h	6.5 – 9.0 kW 22,100 – 30,700 BTU/h
Fuel, Fuel consumption	Diesel, 0.12 – 0.24 l/h Diesel, 0.03 – 0.06 gal/h	Diesel, 0.17 – 0.42 (0.47) l/h Diesel, 0.04 – 0.11 (0.12) gal/h	Diesel, 0.17 – 0.60 (0.66) l/h Diesel, 0.04 – 0.15 (0.17) gal/h	Diesel, 0.86 – 1.20 l/h Diesel, 0.22 – 0.31 gal/h
Rated voltage	12 V	12 V, 24 V	12 V, 24 V	12 V, 24 V
Rated power consumption	14 – 29 W	15 – 40 (50) W	15 – 95 (116) W	80 – 110 W
Rated current (for 12 V)	1.2 – 2.4 A	1.3 – 3.3 (4.2) A	1.3 – 7.9 (9.7) A	6.7 – 9.2 A
Rated current (for 24 V)	–	0.6 – 1.7 (2.1) A	0.6 – 4.0 (4.8) A	3.3 – 4.6 A
Air Flow (against 0.5 bar)	78 m ³ /h 46 cfm	140 (155) m ³ /h 77.7 (91) cfm	200 (220) m ³ /h 117.7 (129.4) cfm	310 m ³ /h 182 cfm
Dimensions (L x W x H)	311 x 120 x 121 mm 12.24 x 4.72 x 4.76 in	423 x 148 x 162 mm 16.65 x 5.83 x 6.38 in	423 x 148 x 162 mm 16.65 x 5.83 x 6.38 in	650 x 235 x 260 mm 25.5 x 9.2 x 10.2 in
Weight	2.6 kg, 5.73 lbs	9 kg, 13 lbs	9 kg, 13 lbs	13.3 kg, 29.3 lbs
Diameter air outlet	60 mm, 2.36 in	90 mm, 3.54 in	90 mm, 3.54 in	100 mm, 3.93 in
Diameter exhaust	22 mm, 0.87 in	24 mm, 0.94 in	24 mm, 0.94 in	38 mm, 1.49 in

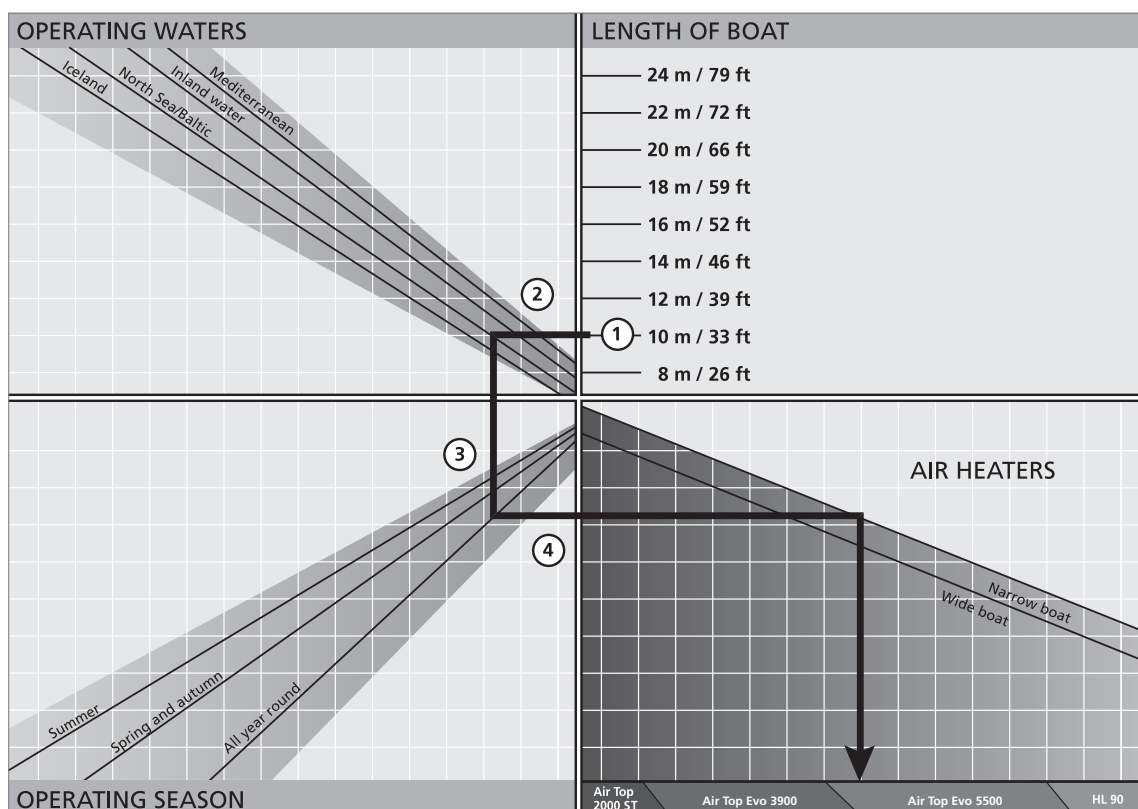
* Air Top Evo 3900 and Air Top Evo 5500 deliver the boosting power of 3900 or 5500W only in combination with the new Air Top Evo M user interface.

Installation Example for Air Heating System



- 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

Selection Tool Air Heaters



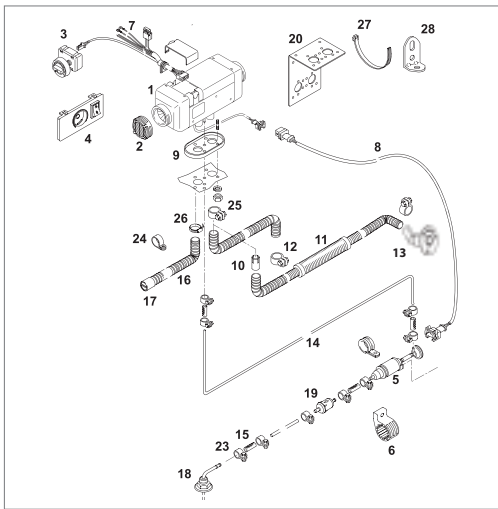
What's the best air heating system for my boat?

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 trace a line vertically downwards – that's the recommended system.

Our specialists can provide you with more information about this topic – for example about the influence of the water temperature in your operating waters on your choice of heating system. Simply contact one of our expert service points for individual advice, or consult the Marine Navigator CD.



Heater Kit: Air Top 2000 ST



Delivery scope

Item	Qty	Description
1	1	heater 12 V
2	1	grille, clips open Ø 60
3	1	heater control element
4	1	panel with ventilation switch
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
13	1	exhaust trough hull
14	1	fuel hose 12 V: 5,000 lg
15	5	fuel hose
16	1	flexible pipe PAK Ø 22; 800 lg
17	1	protecting cap
18	1	tank extracting device
19	1	fuel filter
20	1	heater bracket
21		temperature sensor, external, 2.5 m
	1	bag (with mech. mounting hardware) consisting of:
23	10	hose clamp (steel) Ø 14
24	1	pipe clip Ø 30
25	2	pipe clip Ø 26 – 28
26	1	hose clamp (steel) Ø 16 – 27
27	17	cable tie
28	2	angle bracket
29		various washers, nuts, screws

1 Heater kit – scope of delivery

Order number

Air Top 2000 ST Marine 12 V Diesel: 9009780F

2 Air distribution

See page 45 – 51

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

3 Engine compartment installation (optional)

See page 43 – 44

For the installation of the air 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)

See page 40 – 42

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

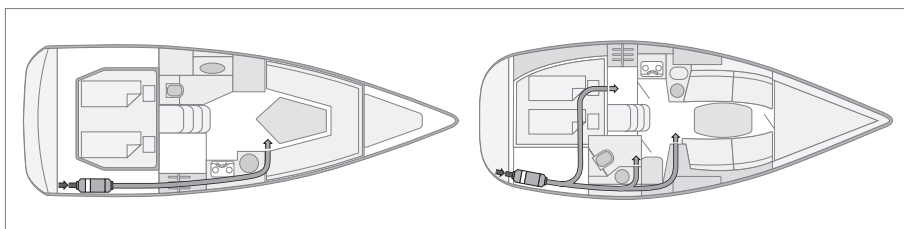
5 Accessories (optional)

See page 37 – 62

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



	Air Top 2000 ST
EC approval mark	e1*2001/56*0022*_
Heat output	0.9 – 2.0 kW 3,000 – 7,000 BTU/h
Fuel, Fuel consumption	Diesel, 0.12 – 0.24 l/h Diesel, 0.03 – 0.06 gal/h
Rated voltage	12 V
Rated power consumption	14 – 29 W
Rated current (for 12 V)	1,2 – 2,4 A
Rated current (for 24 V)	–
Air Flow (against 0.5 bar)	78 m³/h 46 cfm
Dimensions (L x W x H)	311 x 120 x 121 mm 12.24 x 4.72 x 4.76 in
Weight	2.6 kg, 5.73 lbs
Diameter air outlet	60 mm, 2.36 in
Diameter exhaust	22 mm, 0.87 in



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.

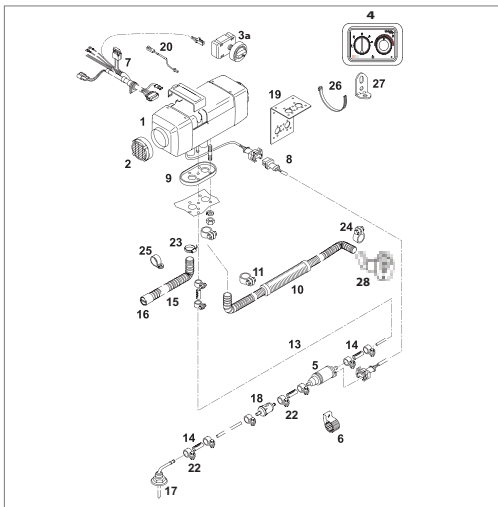
The advantages of Webasto's air heaters:

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

Air Top 2000 ST – quiet comfort

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

Heater Kit: Air Top Evo 3900



Delivery scope

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	fitting
13	1	fuel hose 12 V: 5,000 lg.; 24 V: 8,000 lg
14	1	fuel hose
15	1	flexible pipe compl. 12 V: 650 lg
16	1	protective cap
17	1	tank extracting device
18	1	fuel filter
19	1	heater bracket
20	10	temperature sensor, external 2.5 m
	1	bag (with mech. mounting hardware) consisting of:
22	10	hose clamp (steel) Ø 14
23	1	pipe clip Ø 16 – 27 (combustion air)
24	2	pipe clip Ø 26 – 28 (exhaust)
25	1	hose clamp (steel) Ø 30
26	17	cable tie
27	2	angle bracket
28		various washers, nuts, screws

1 Heater kit – scope of delivery

Order numbers

- Air Top Evo 3900 Marine 12V Diesel: 9018439B
- Air Top Evo 3900 Marine 24 V Diesel: 9018440B
- Air Top Evo 3900 Marine 12 V Diesel with Air Top Evo M control: 9018495B
- Air Top Evo 3900 Marine 24 V Diesel with Air Top Evo M control: 9018496B

2 Air distribution

See page 45 – 51

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

3 Engine compartment installation (optional)

See page 43 – 44

For the installation of the air 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)

See page 40 – 42

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

5 Accessories (optional)

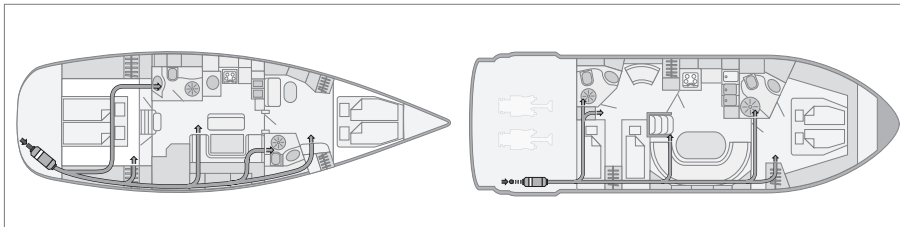
See page 37 – 62

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



	Air Top EVO 3900*
EC approval mark	E1*2007/56*2006/119*0219*_
Heat output	1.5 – 3.5 (3.9) kW 5,100 – 12,000 (13,400) BTU/h
Fuel, Fuel consumption	Diesel, 0.17 – 0.42 (0.47) l/h Diesel, 0.04 – 0.11 (0.12) gal/h
Rated voltage	12 V, 24 V
Rated power consumption	15 – 40 (50) W
Rated current (for 12 V)	1,3 – 3,3 (4,2) A
Rated current (for 24 V)	0,6 – 1,7 (2,1) A
Air Flow (against 0.5 bar)	140 (155) m ³ /h 77.7 (91) cfm
Dimensions (L x W x H)	423 x 148 x 162 mm 16.65 x 5.83 x 6.38 in
Weight	9 kg, 13 lbs
Diameter air outlet	90 mm, 3.54 in
Diameter exhaust	24 mm, 0.94 in

* Air Top Evo 3900 and Air Top Evo 5500 deliver the boosting power of 3900 or 5500 W only in combination with the new Air Top Evo M user interface.



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 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 from outside the engine room. Special attention needs to be paid on a fire resistant fuel supply system. One of the outlets should be non-closable.

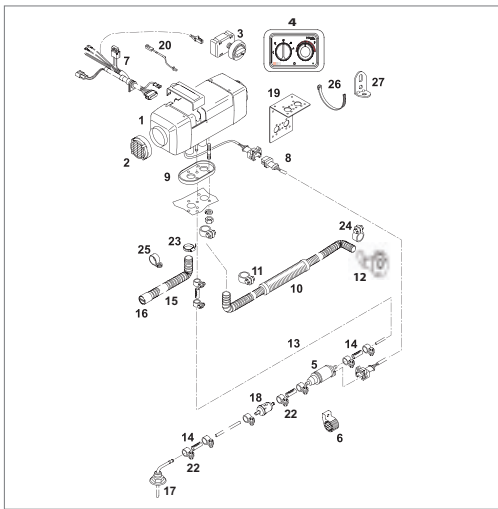
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- Available as a complete installation kit for quick and simple retrofitting
- Dehumidification of the cabins
- Quiet-running
- Simple to install
- Compact, space-saving design
- Practical ventilation function
- Meet current requirements and standards relating to boats

Air Top Evo 3900 – 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 user interface to offer additional operation modes depending on individual heating requirements.

Heater Kit: Air Top Evo 5500



Delivery scope

Item	Qty	Description
1	1	heater 12 or 24 V
2	1	grille
3	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	fitting
13	1	fuel hose 12 V: 5,000 lg.; 24 V: 8,000 lg
14	1	fuel hose
15	1	flexible pipe compl. 12 V: 650 lg
16	1	protective cap
17	1	tank extracting device
18	1	fuel filter
19	1	heater bracket
20	10	temperature sensor, external 2.5 m
	1	bag (with mech. mounting hardware) consisting of:
22	10	hose clamp (steel) Ø 14
23	2	pipe clip Ø 16 – 27 (combustion air)
24	2	pipe clip Ø 26 – 28 (exhaust)
25	1	hose clamp (steel) Ø 30
26	17	cable tie
27	2	angle bracket
28		various washers, nuts, screws

1 Heater kit – scope of delivery

Order numbers

- Air Top Evo 5500 Marine 12 V Diesel: 9018441C
- Air Top Evo 5500 Marine 24 Diesel: 9018442C
- Air Top Evo 5500 Marine 12 V Diesel with Air Top Evo M control: 9018497C
- Air Top Evo 5500 Marine 24 V Diesel with Air Top Evo M control: 9018498C

2 Air distribution

See page 45 – 51

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

3 Engine compartment installation (optional)

See page 43 – 44

For the installation of the air 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)

See page 40 – 42

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

5 Accessories (optional)

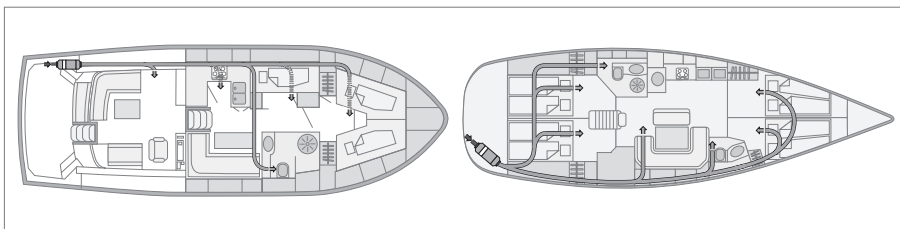
See page 37 – 62

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



	Air Top Evo 5500*
EC approval mark	E1*2007/56*2006/119*0220*_
Heat output	1.5 – 5.0 (5.5) kW 5,100 – 17,000 (18,700) BTU/h
Fuel, Fuel consumption	Diesel, 0.17 – 0.60 (0.66) l/h Diesel, 0.04 – 0.15 (0.17) gal/h
Rated voltage	12 V, 24 V
Rated power consumption	15 – 95 (116) W
Rated current (for 12 V)	1,3 – 7,9 (9,7) A
Rated current (for 24 V)	0,6 – 4,0 (4,8) A
Air Flow (against 0.5 bar)	200 (220) m ³ /h 117.7 (129.4) cfm
Dimensions (L x W x H)	423 x 148 x 162 mm 16.65 x 5.83 x 6.38 in
Weight	9 kg, 13 lbs
Diameter air outlet	90 mm, 3.54 in
Diameter exhaust	24 mm, 0.94 in

* Air Top Evo 3900 and Air Top Evo 5500 deliver the boosting power of 3900 or 5500 W only in combination with the new Air Top Evo M 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 via the rear locker from outside.

With the heater in the engine compartment, the fuel supply system needs to be designed 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.

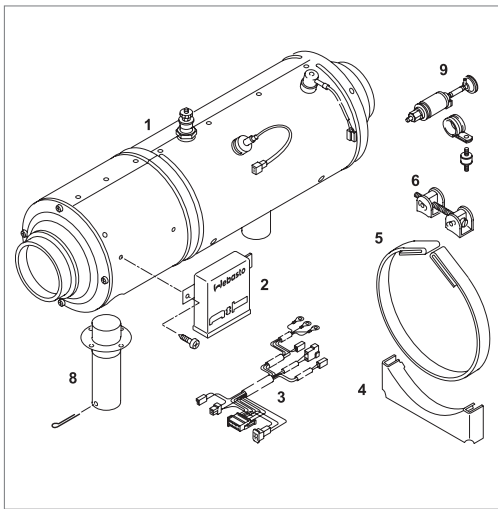
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- Low operating costs
- Available as a complete installation kit for quick and simple retrofitting
- Dehumidification of the cabins
- Quiet-running
- Simple to install
- Compact, space-saving design
- Practical ventilation function
- Meet current requirements and standards relating to boats

Air Top Evo 5500 – 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.

Heater Kit: HL 90



Delivery scope

Item	Qty	Description
1	1	heater 12 or 24 V
2	1	electronic control unit 12 or 24 V
3	1	wiring harness (heater – electronic control unit)
4	2	support
5	2	tightening strap
6	2	turnbuckle
	2	bags consisting of:
8	1	intake pipe assy
9	1	metering pump assy

1 Heater kit – scope of delivery

Order number

HL 90 12 V: 83376B

HL 90 24 V: 38622B

2 Combustion air system

Please compose the adequate system components for your boat individually.

See page 39

3 Exhaust system

Please compose the adequate system components for your boat individually.

See page 40 – 42

4 Fuel supply system

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

See page 43 – 44

5 Control element

Please order an adequate control element.

See page 37 – 38

6 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.

See page 45 – 51

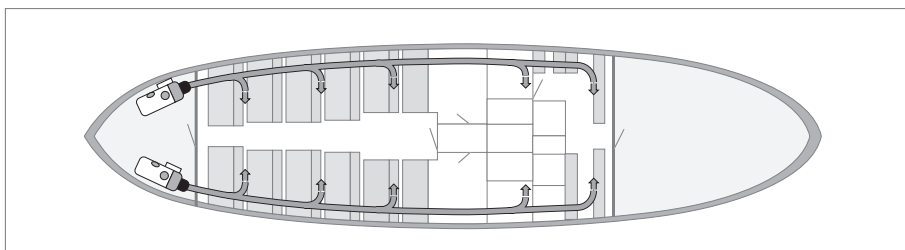
7 Accessories (optional)

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

See page 37 – 62



	HL 90
EC approval mark	e1*2001/56*0017*_
Heat output	6.5 – 9.0 kW 22,100 – 30,700 BTU/h
Fuel, Fuel consumption	Diesel, 0.86 – 1.20 l/h Diesel, 0.22 – 0.31 gal/h
Rated voltage	12 V, 24 V
Rated power consumption	80 – 110 W
Rated current (for 12 V)	6,7 – 9,2 A
Rated current (for 24 V)	3,3 – 4,6 A
Air Flow (against 0.5 bar)	310 m ³ /h 182 cfm
Dimensions (L x W x H)	650 x 235 x 260 mm 25.5 x 9.2 x 10.2 in
Weight	13.3 kg, 29.3 lbs
Diameter air outlet	100 mm, 3.93 in
Diameter exhaust	38 mm, 1.49 in



For this large 20m passenger boat two powerful HL 90 heaters are necessary to heat the big cabin volume. The main air ducts go along the sides of the vessel with several outlets. The heaters are installed in separate service compartments in the aft.

The advantages of the HL 90 air heater:

- Powerful heater for large cabin volumes
- Short heating-up times thanks to effective output
- Low operating costs
- Powerful fan allows long air ducts
- Dehumidification of the cabins
- Simple to install
- Compact, space-saving design
- Meet current requirements and standards relating to boats

HL 90 – the most powerful air heater

The powerful heater for passenger and commercial boats.

Thermo 90 ST: The Renowned Marine Water Heater

Heating comfort just like at home

Can be used to heat your hot sanitary water

Space-saving installation in the engine room

Automatic
overheat
protection

Even distribution of
warmth by means of
radiators or blowers



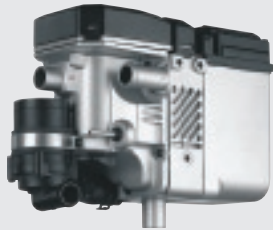
Compact design

Meets current
Marine requirements
and standards

Excellent possibilities for
combining with Webasto
BlueCool air condition-
ing systems

Low fuel
consumption

Webasto BlueHeat Water Heaters



- Thermo Top E
- Thermo Top C
- Thermo 50

[See page 26 – 27](#)



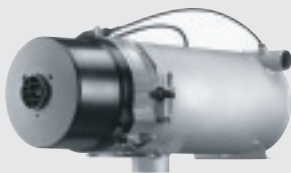
- Thermo 90 ST
- Thermo 90 ST Chiller

[See page 28 – 29](#)



- DBW 2010/2016

[See page 30 – 31](#)



- Thermo 230/300/350

[See page 32 – 33](#)

Product Overview Water Heaters

	Order No.		EC approval mark	Heat output		Fuel, Fuel consumption	Rated Voltage
	12 V Diesel	24 V Diesel		part load	full load		
Thermo Top E Marine	9009334A	–	e1*2001/56*0003*_	2.5 kW 8,500 BTU/h	4.2 kW 14,300 BTU/h	Diesel, 0.29 – 0.47 l/h Diesel, 0.08 – 0.12 gal/h	12 V
Thermo Top C Marine	9009335A	–	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
Thermo 50 Marine	–	9009338A	e1*2001/56*0004*_	2.2 kW 7,500 BTU/h	5.0 kW 17,100 BTU/h	Diesel, 0.28 – 0.63 l/h Diesel, 0.07 – 0.17 gal/h	24 V
Thermo 90 ST Marine	9010410A	9010411A	e1*2001/56*0019*_	1.8 – 7.6 kW 6,100 – 26,000 BTU/h	9.1 kW 31,000 BTU/h	Diesel, 0.19 – 0.9 l/h Diesel, 0.05 – 0.24 gal/h	12 V, 24 V
Thermo 90 ST Chiller	9010412C	9010413C	e1*2001/56*0019*_	1.8 – 7.6 kW 6,100 – 26,000 BTU/h	9.1 kW 31,000 BTU/h	Diesel, 0.19 – 0.9 l/h Diesel, 0.05 – 0.24 gal/h	12 V, 24 V
DBW 2010	357324	356700	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
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
Thermo 230	–	85312B	e1*2001/56*0007*_	23.0 kW 80,000 BTU/h		Diesel, 2.5 l/h Diesel, 0.8 gal/h	24 V
Thermo 300	–	85313B	e1*2001/56*0008*_	30.0 kW 104,000 BTU/h		Diesel, 3.3 l/h Diesel, 0.87 gal/h	24 V
Thermo 350	–	85314B	e1*2001/56*0009*_	35.0 kW 119,400 BTU/h		Diesel, 3.7 l/h Diesel, 0.98 gal/h	24 V
Water station T50	77054500	77056400	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
Water station T90S	77054700	77054750	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



Thermo Top E Marine
Thermo Top C Marine
Thermo 50 Marine



Thermo 90 ST Marine



DBW 2010/2016



Thermo 230/300/350



	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
	part load	full load				
	22 W 1.8 amps	26 W 2.2 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 in	95 x 61 x 61 mm 3.7 x 2.4 x 2.4 in	2.9 kg 6.4 lbs
	22 W 1.8 amps	32 W 2.6 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 in	95 x 61 x 61 mm 3.7 x 2.4 x 2.4 in	3.2 kg 7.1 lbs
	34 W 1.4 amps	50 W 2.1 amps	500 l/h against 0.14 bar 900 l/h against 0.10 bar 2.2 gal/h against 0.14 bar 4 gal/h against 0.10 bar	237 x 106 x 193 mm 9.3 x 4.2 x 7.6 in	–	3.2 kg 7.1 lbs
	37 – 83 W 3.0 – 6.9 amps at 12 V 1.5 – 3.5 amps at 24 V	90 W 7.5 amps (12 V Boost) 3.8 amps (24 V Boost)	700 l/h against 0.3 bar 3.1 gal/min	314 (352*) x 133 x 232 mm 13.9 x 5.2 x 9.1 in	117 x 150 x 44 mm 4.6 x 5.9 x 1.7 in	4.8 kg 10.5 lbs
	37 – 83 W 3.0 – 6.9 amps at 12 V 1.5 – 3.5 amps at 24 V	90 W 7.5 amps (12 V Boost) 3.8 amps (24 V Boost)	700 l/h against 0.3 bar 3.1 gal/min	314 (352*) x 133 x 232 mm 13.9 x 5.2 x 9.1 in	117 x 150 x 44 mm 4.6 x 5.9 x 1.7 in	4.8 kg 10.5 lbs
	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 in	111 x 117 x 49 mm 4.4 x 4.6 x 2 in	14.5 kg 33 lbs
	90 W 7.5 amps at 12 V 3.8 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/h against 0.4 bar	584 x 205 x 228 mm 23 x 8.1 x 9 in	111 x 117 x 49 mm 4.4 x 4.6 x 2 in	14.5 kg 33 lbs
	65 W 2.7 amps at 24 V		5,200 l/h against 0.15 bar 6,000 l/h against 0.4 bar	610 x 246 x 220 mm 24 x 9.7 x 8.7 in	–	19.0 kg 42 lbs
	110 W 4.6 amps at 24 V		5,200 l/h against 0.15 bar 23 gal/min against 0.15 bar 26.4 gal/h against 0.4 bar	610 x 246 x 220 mm 24 x 9.7 x 8.7 in	–	19.0 kg 42 lbs
	140 W 5.8 amps		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/h against 0.4 bar	610 x 246 x 220 mm 24 x 9.7 x 8.7 in	–	19.0 kg 42 lbs
	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 in	–	15.0 kg 33.1 lbs
	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 in	–	16.5 kg 36.4 lbs



Water stations T 50/T 90 S

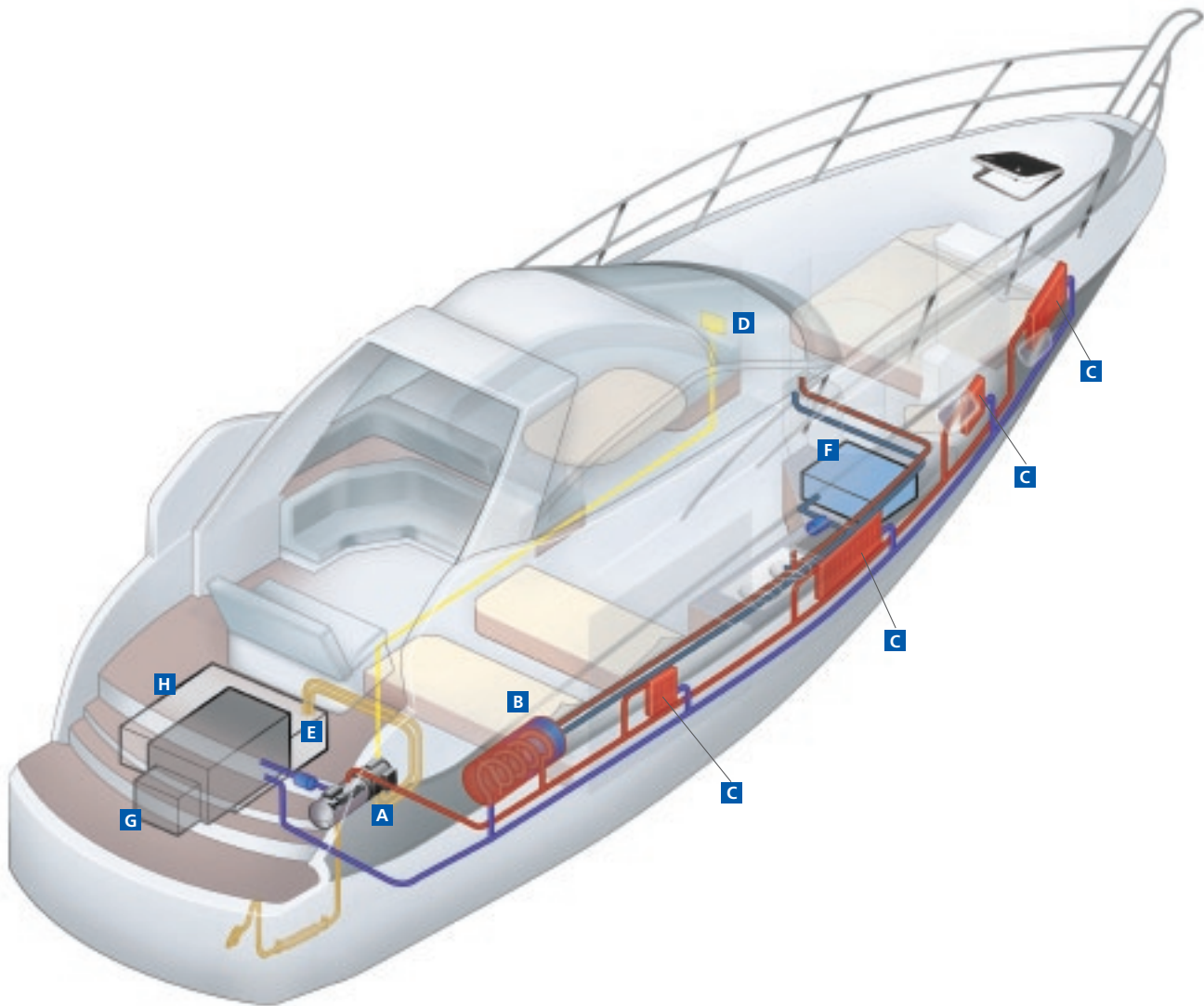


Water stations
DBW 2010/2016
Thermo 230/300/350

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 information, please see page 35.

Installation Example for Water Heating System



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

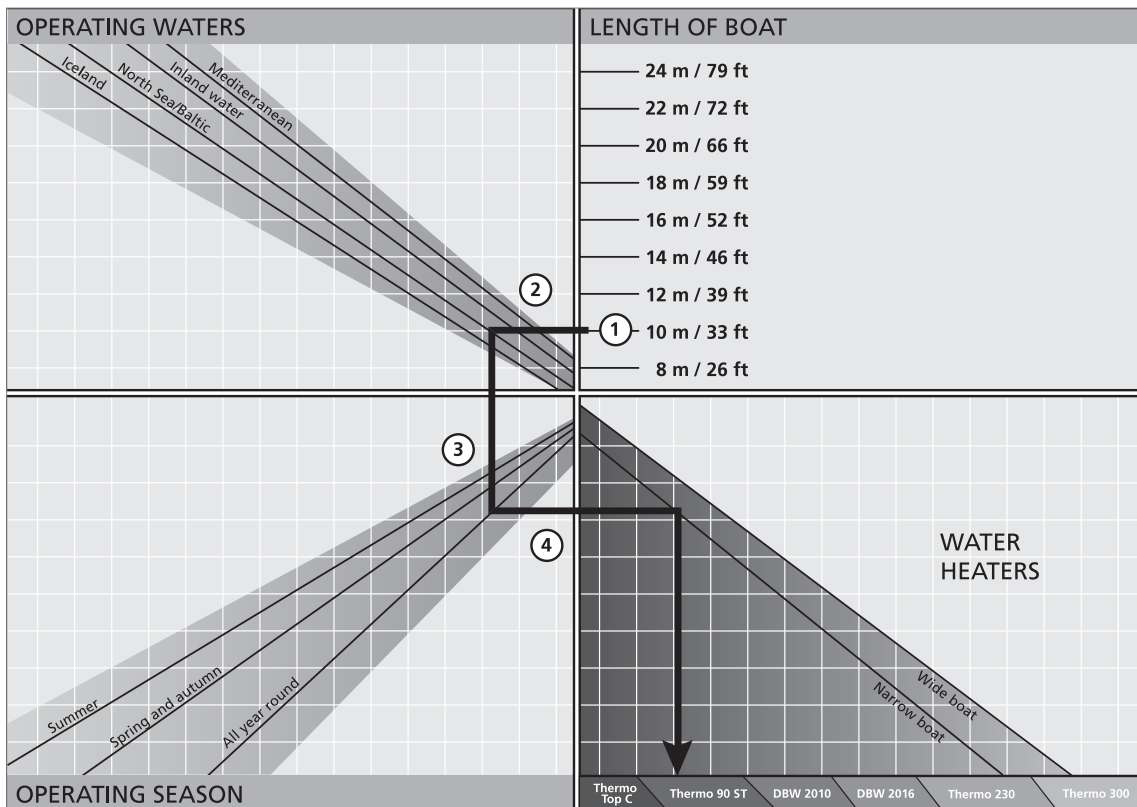
F Fresh water tank

G Engine

H Fuel tank

I Stainless steel exhaust

Selection Tool Water Heaters



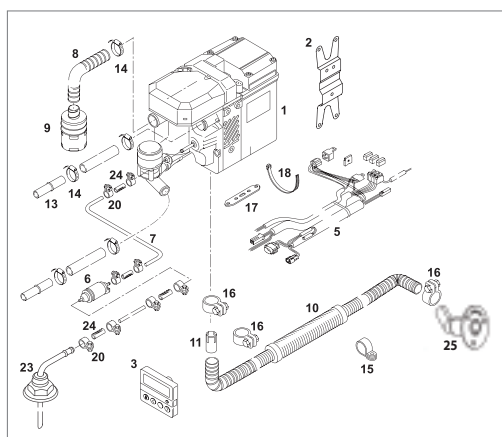
What's the best water heating system for my boat?

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.

Our specialists can provide you with more information about this topic – for example about the influence of the water temperature in your operating waters on your choice of heating system. Simply contact one of our expert service consultants for individual advice, or consult the Marine Navigator CD.



Heater Kit: Thermo Top C/ Thermo Top E/Thermo 50



Delivery scope

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)
5	1	wiring harness
6	1	metering pump + EPDM support
7	1	fuel hose Øi 1,5/Øa 5; 6,000 lg
8	1	air-intake hose HMA Øi 22/Øa 25; 400 mm lg
9	1	air-intake silencer
10	1	exhaust silencer leak-proof Ø 24;1,800 mm lg
11	1	exhaust reducer
	1	bag (mounting hardware) consisting of:
13	2	connection pipe, plastic Ø 18 x 27
14	7	hose clamp (chrome) Ø 16 – 27
15	2	pipe clip Ø 25
16	3	pipe clip Ø 24 – 27
18	30	cable tie 178 lg
25	1	through hull
23	1	tank extracting device
	1	bag (accessories) consisting off:
20	8	hose clamp (steel) Ø 14
24	4	fuel hose 5 X 50
	1	water hose Ø 20; 2,200 lg

1 Heater kit – scope of delivery

Order numbers

Thermo Top C Marine 12 V Diesel: 9009335C

Thermo Top E Marine 12 V Diesel: 9009334C

Thermo Top E Comfort Classic 12 V Diesel: 9019718A

Thermo 50 Marine 24 V Diesel: 9009338C

2 Water system

See page 52 – 57

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 Engine compartment installation (optional)

See page 44

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

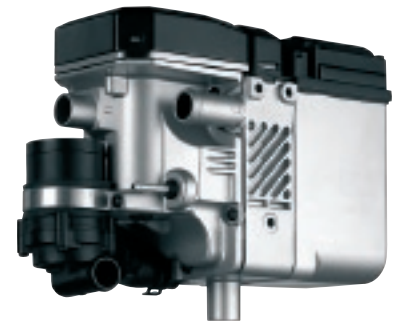
See page 40 – 42

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

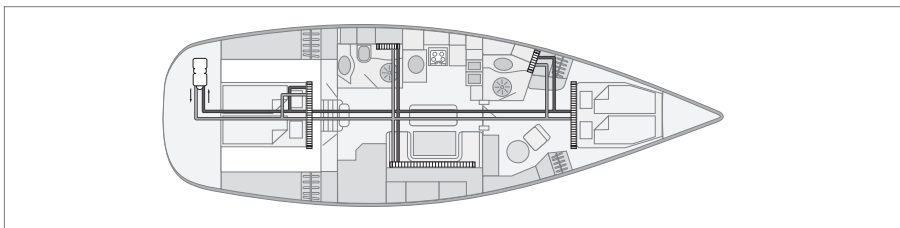
5 Accessories (optional)

See page 37 – 62

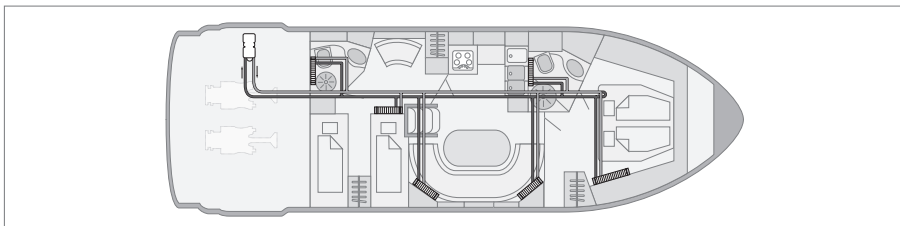
For extension of your heater system you find comfort control elements as well as other installation and system components in the accessories section.



	Thermo Top E	Thermo Top C	Thermo 50
EC approval mark	e1*2001/56*0003*_	e1*2001/56*0002*_	e1*2001/56*0004*_
Heat output	4.2 kW, 14,300 BTU/h	5.2 kW, 17,700 BTU/h	5.0 kW, 17,100 BTU/h
Fuel, Fuel consumption	Diesel, 0.29 – 0.47 l/h Diesel, 0.08 – 0.12 gal/h	Diesel, 0.29 – 0.59 l/h Diesel, 0.08 – 0.16 gal/h	Diesel, 0.28 – 0.63 l/h Diesel, 0.07 – 0.17 gal/h
Rated voltage	12 V	12 V	24 V
Rated power consumption	22 – 26 W 1.8 – 2.2 amps	22 – 26 W 1.8 – 2.2 amps	34 – 50 W 1.4 – 2.1 amps
Flow rate of circulating pump (against 0.14 bar)	500 l/h against 0.14 bar 2.2 gal/min	500 l/h against 0.14 bar 2.2 gal/min	500 l/h against 0.14 bar; 900 l/h against 0.10 bar 2.2 gal/h against 0.14 bar; 4 gal/h against 0.10 bar
Dimensions of heater (L x W x H)	214 x 106 x 168 mm 8.4 x 4.2 x 6.6 in	214 x 106 x 168 mm 8.4 x 4.2 x 6.6 in	237 x 106 x 193 mm 9.3 x 4.2 x 7.6 in
Weight heater	2.9 kg, 6.4 lbs	3.2 kg, 7.1 lbs	3.2 kg, 7.1 lbs



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 off 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 Webasto's air water heaters:

- Separate temperature control in every cabin
- Even distribution of warmth by means of radiators
- Hot water for the shower and galley
- Low fuel consumption
- Quiet-running
- Space-saving installation
- Compact design
- Excellent possibilities for combining with BlueCool air conditioning systems, see BlueComfort solutions page 120
- Preheating of the engine possible to avoid cold starts
- Meet current requirements and standards relating to boats

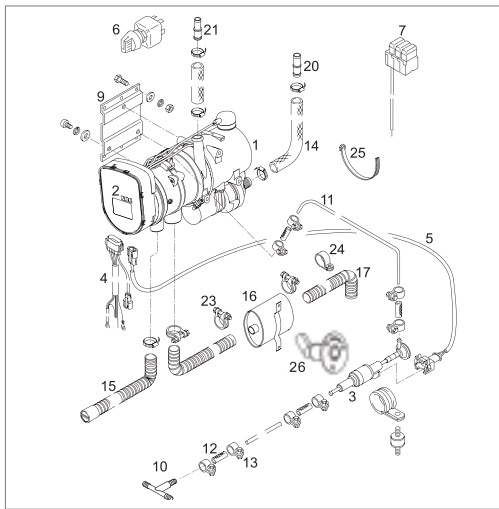
Thermo Top water heaters

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.

Thermo Top E Comfort Classic – the heater for an integration into the BlueComfort Classic AC system

For a BlueComfort Classic system, you need to order the Thermo Top E Comfort Classic heater and combine it with the air conditioning unit into one system. This heater model has special temperature settings both for the air conditioning unit as well as for a boiler integration.

Heater Kit: Thermo 90 ST



Delivery scope

Item	Qty	Description
1	1	heater 12 or 24 V including circulating pump and electronic control unit (no circulating pump with Thermo 90 ST Chiller)
2	1	electronic control unit
3	1	metering pump
4	1	wiring harness (heater, 570 mm lg)
5	1	wiring harness (metering pump, 5,000 mm lg)
6	1	switch with lamp 12 or 24 V (not with 9010412D and 9010413D)
7	1	fuse holder with wiring harness
9	1	heater bracket
10	1	T-piece + fuel hoses & hose clamps (8 x 5 x 8)
11	1	hose Ø 5 x 1,5; 6,000 mm lg
12	4	fuel hose Øi 4,5/Øa 10,5; 50 mm lg
12	2	fuel hose Øi 8 / Øa 12; 70 mm lg
13	8	hose clamp (steel; Ø 10)
13	4	hose clamp (steel; Ø 12)
14	1	bent hose Øi 20/Øa 29; 2,200 mm lg
15	1	air intake silencer PAK Øi 30,5/Øa 38; 1,160 mm lg
16	1	exhaust silencer Øa 38
17	1	flexible pipe (inoyd.) Øi 38/Øa 42; 1,600 mm lg (1 x 1,000 mm + 1 x 600 mm)
20	2	connection pipe Ø 18 x 20
21	2	connection pipe Ø 20 x 20
22	7	hose clamp Ø 23 ... 35
23	3	hose clamp Ø 39 ... 42
24	2	pipe clip Ø 42
25	15	cable tie 178 mm lg
26	1	exhaust through hull
27		various washers, nuts, screws

1 Heater kit – scope of delivery

Order numbers

Thermo 90 ST Marine 12 V Diesel: 9010410B

Thermo 90 ST Marine 24 V Diesel: 9010411B

Thermo 90 ST Chiller 12 V Diesel: 9010412D

Thermo 90 ST Chiller 24 V Diesel: 9010413D

2 Water system

See page 52 – 57

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 Engine compartment installation (optional)

See page 44

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)

See page 40 – 42

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

See page 37 – 38

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

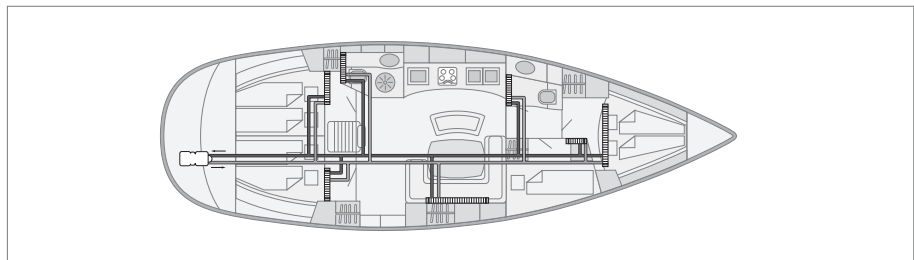
6 Accessories (optional)

See page 37 – 62

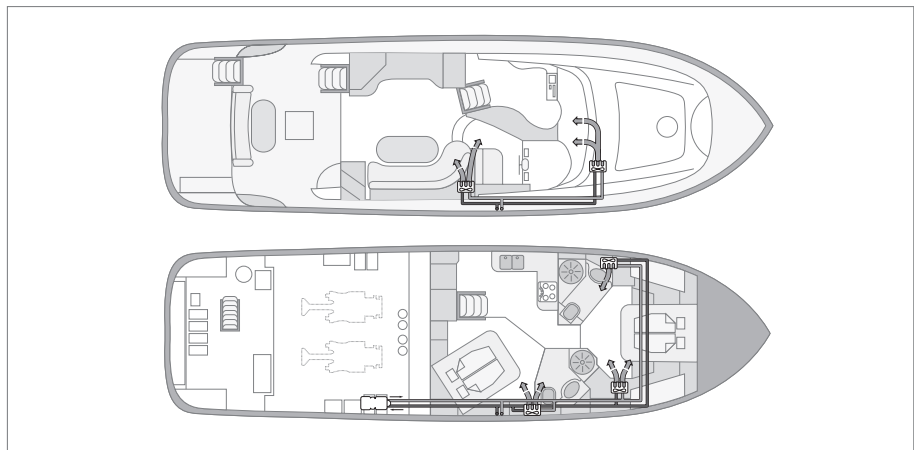
For extension of your heating system you find comfort control elements as well as other installation and system components in the accessories section.



	Thermo 90 ST
EC approval mark	e1*2001/56*0019*_
Heat output	1.8 – 7.6 kW Boost Mode 9.1 kW 6,100 – 26,000 BTU/h (Boost Mode) 31,000 BTU/h
Fuel, Fuel consumption	Diesel, 0.19 – 0.9 l/h Diesel, 0.05 – 0.24 gal/h
Rated voltage	12 V, 24 V
Rated power consumption	3.0 – 6.9 amps at 12 V 1.5 – 3.5 amps at 24 V
Flow rate of circulating pump (against 0.3 bar)	700 l/h against 0.3 bar 3.1 gal/min
Dimensions of heater (L x W x H)	352 x 133 x 232 mm 13.9 x 5.2 x 9.1 in
Weight heater	4.8 kg, 10.5 lbs



This 44' sailing yacht is using 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.

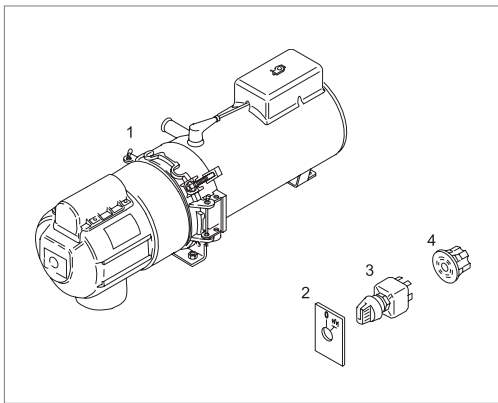
Thermo 90 ST – state-of-the art controller and easy service

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

Thermo 90 ST Chiller – the heater for integration into an AC system

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

Heater Kit: DBW 2010/2016



Delivery scope

Item	Qty	Description
1	1	heater 12 or 24 V
	4	hose clamps Ø 10
11	1	hose clamp Ø 29
	1	gauge (for checking of spark setting)
	1	bag (with electrical hardware) consisting of:
2	1	plate (to item 6)
3	1	switch with lamp 12 or 24 V
4	1	central plug (to item 6)
	4	plug connector
	1	connector housing
	2	insert, male
	16	insert, female

1 Heater kit – scope of delivery

Order numbers

DBW 2010 12 Volt Diesel: 357324

DBW 2010 24 Volt Diesel: 356700

DBW 2016 12 Volt Diesel: 9012936A

DBW 2016 24 Volt Diesel: 9012935A

2 Water system

In addition, the water pump U 4810 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.

See page 36 ▶

See page 52 – 57 ▶

3 Fuel supply system

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.

See page 43 – 44 ▶

4 Exhaust system (optional)

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.

See page 40 – 42 ▶

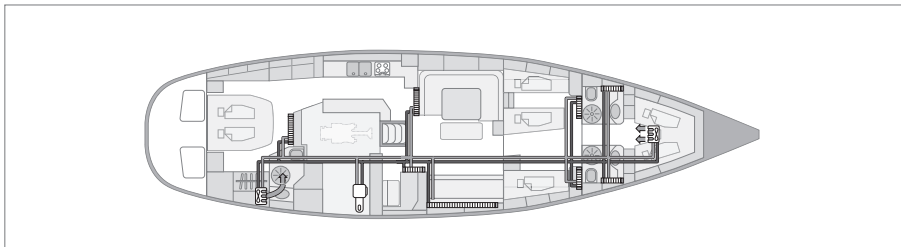
5 Accessories (optional)

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

See page 37 – 62 ▶



	DBW 2010	DBW 2016
EC approval mark	e1*2001/56*2004/78*0006*_	e1*2001/56*2004/78*0006*_
Heat output	11.6 kW, 45,000 BTU/h	16.0 kW, 54,600 BTU/h
Fuel, Fuel consumption	Diesel, 1.5 l/h Diesel, 0.4 gal/h	Diesel, 1.9 l/h Diesel, 0.5 gal/h
Rated voltage	12 V, 24 V	12 V, 24 V
Rated power consumption	60 W 5.0 amps at 12 V 2.5 amps at 24 V	90 W 7.5 amps at 12 V 3.75 amps at 24 V
Flow rate of circulating pump (against 0.15 bar)	1,600 l/h against 0.15 bar 7 gal/min	1,600 l/h against 0.15 bar 7 gal/min
Dimensions of heater (L x W x H)	584 x 205 x 228 mm 23 x 8.1 x 9 in	584 x 205 x 228 mm 23 x 8.1 x 9 in
Weight heater	14.5 kg, 33 lbs	14.5 kg, 33 lbs



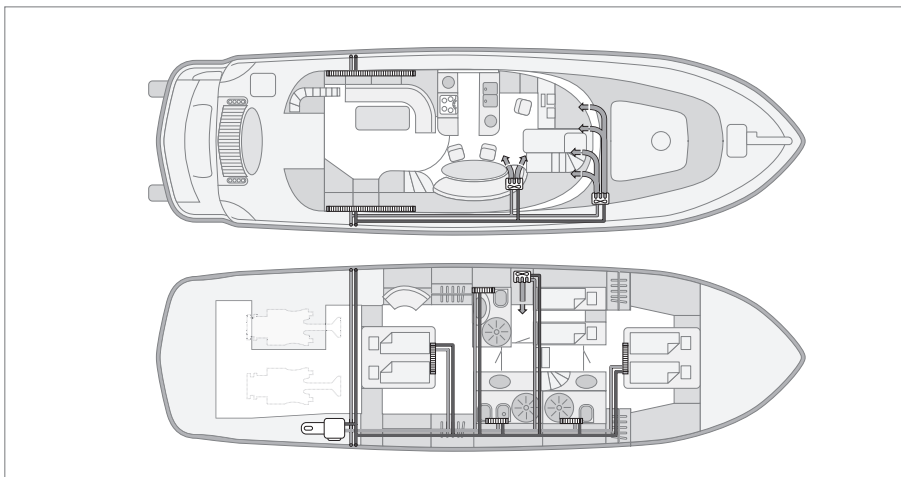
In this 64' sailing yacht the heater is installed in the technical compartment. Mainly convectors are used as heat exchangers. Fan blowers are only used in cabins with space restrictions or where quick heating up or air circulation is required.

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.

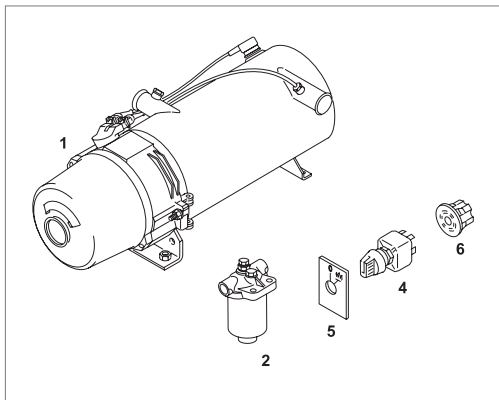
Expert recommendation: DBW 2010 water station

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 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.

Heater Kit: Thermo 230/300/350



Delivery scope

Item	Qty	Description
1	1	heater 24 V
2	1	fuel filter
	1	bag (with mechanical connecting parts) consisting of:
	2	double pipe socket M 14 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 Heater kit – scope of delivery

Order numbers

Thermo 230 24 Volt Diesel: 85312B

Thermo 300 24 Volt Diesel: 85313B

Thermo 350 24 Volt Diesel: 85314C

2 Water system

In addition a water pump U 4814, U 4852 or U 4854 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.

See page 36

See page 52 – 57

3 Fuel supply system

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.

See page 43 – 44

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.

See page 40 – 42

5 Accessories (optional)

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

See page 37 – 62



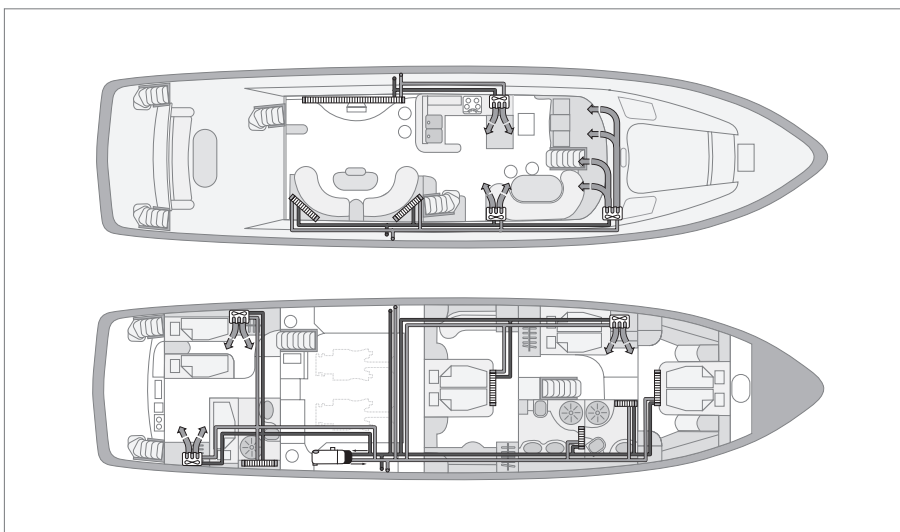
	Thermo 230	Thermo 300	Thermo 350
EC approval mark	e1*2001/56*0007*_	e1*2001/56*0008*_	e1*2001/56*0009*_
Heat output	23.0 kW, 80,000 BTU/h	30.0 kW, 104,000 BTU/h	35.0 kW, 119,400 BTU/h
Fuel, Fuel consumption	Diesel, 2.5 l/h Diesel, 0.8 gal/h	Diesel, 3.3 l/h Diesel, 0.87 gal/h	Diesel, 3.7 l/h Diesel, 0.98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

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 cosy on board with sufficient hot water for comfortable relaxation.



From the Thermo 230 heater in the engine room five separate heating circuits branch off. 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.

Quick Hot Water Production with Webasto Water Stations

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 switching 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 90 S), 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 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.

Scope of delivery Thermo 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 No.	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 8,877 BTU/h	5.2 kW 17,753 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 50	77054600	24 V	2.2 kW 7,506 BTU/h	5.0 kW 17,060 BTU/h	0.28 l/h 0.074 gal/h	0.63 l/h 0.17 gal/h	Diesel	34 W 1.5 Amps (24 V)	50 W 2.1 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 90	77054700	12 V	1.8 – 7.6 kW inf. variable 61,452 – 25,946 BTU/h	9.1 kW booster setting 31,067 BTU/h	0.19 l/h 0.05 gal/h 1.1 l/h 0.30 gal/h booster setting	0.9 l/h 0.24 gal/h 1.1 l/h 0.30 gal/h booster setting	Diesel	37 W 3.1 Amps	83 W 7 Amps 90 W 7.5 Amps booster setting	390 x 235 x 310 mm 15.4 x 9.3 x 12.3 inch	16.5 kg 36.4 lbs
Thermo 90	77054750	24 V	1.8 – 7.6 kW inf. variable 61,452 – 25,946 BTU/h	9.1 kW booster setting 31,067 BTU/h	0.19 l/h 0.05 gal/h 1.1 l/h 0.30 gal/h booster setting	0.9 l/h 0.24 gal/h 1.1 l/h 0.30 gal/h booster setting	Diesel	37 W 1.6 Amps	83 W 3.5 Amps 90 W 3.75 Amps booster setting	390 x 235 x 310 mm 15.4 x 9.3 x 12.3 inch	16.5 kg 36.4 lbs

New Marine Water Stations – 4 versions and 5 capacities

The Marine water stations are professional 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 brackets for floor or wall mounting. The units are assembled on a stainless steel tray, fitted in a modern enclosure and operate very quietly.

5 different capacities & 4 versions:

- 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

Advantages of the water stations:

- Compact dimensions
- Easy and quick installation
- Can operate on 12/24 V battery power
- Winter mode with freeze protection
- Simple maintenance
- Bticino Living style control panel



Water station example



Buffer tank



Controls



Robust, compact casing

Technical specifications:

Type of Marine Central Heating unit	Function	Order No.	Voltage (V)	Heat output	Fuel consumption	Electrical power consumption	Dimensions L x W x H	Weight
DBW 2010	CH	3391617A	12	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	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	C	3391619A	12	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	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	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	C	3391622A	24	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 2016	CH	3391623A	12	16 kW 54,000 BTU/h	1.9 l/h 0.5 gal/h	215 W 17.9 Amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	38 kg 84 lbs
DBW 2016	BC	3391624A	12	16 kW 54,000 BTU/h	1.9 l/h 0.5 gal/h	215 W 17.9 Amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	38 kg 84 lbs
DBW 2016	C	3391625A	12	16 kW 54,000 BTU/h	1.9 l/h 0.5 gal/h	215 W 17.9 Amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	38 kg 84 lbs
DBW 2016	T	3391823A	12	16 kW 54,000 BTU/h	1.9 l/h 0.5 gal/h	215 W 17.9 Amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	42 kg 92 lbs
DBW 2016	CH	3391626A	24	16 kW 54,000 BTU/h	1.9 l/h 0.5 gal/h	215 W 9 Amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	38 kg 84 lbs
DBW 2016	BC	3391627A	24	16 kW 54,000 BTU/h	1.9 l/h 0.5 gal/h	215 W 9 Amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	38 kg 84 lbs
DBW 2016	C	3391628A	24	16 kW 54,000 BTU/h	1.9 l/h 0.5 gal/h	215 W 9 Amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	38 kg 84 lbs
DBW 2016	T	3391824A	24	16 kW 54,000 BTU/h	1.9 l/h 0.5 gal/h	215 W 9 Amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	42 kg 92 lbs
Thermo 230	CH	3391629A	24	23 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	23 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	23 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	30 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
Thermo 300	C	3391634A	24	30 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
Thermo 300	T	3391825A	24	30 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	48 kg 106 lbs
Thermo 350	CH	3391635A	24	35 kW 119,400 BTU/h	3.7 l/h 0.98 gal/h	265 W 11 Amps	800 x 520 x 270 mm 31.5 x 20.5 x 10.6 inch	44 kg 97 lbs
Thermo 350	C	3391636A	24	35 kW 119,400 BTU/h	3.7 l/h 0.98 gal/h	265 W 11 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

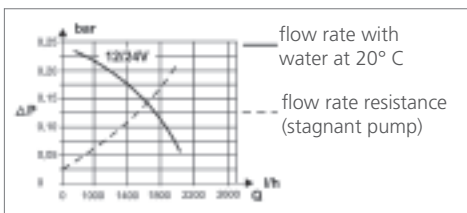
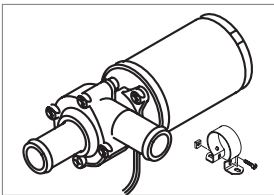
Accessories: Circulating Pumps

Technical Features

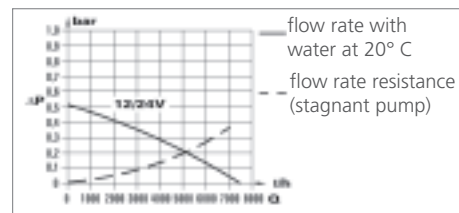
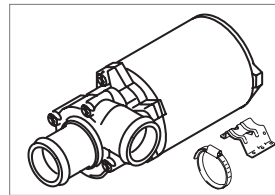
These circulating pumps are suitable for hot water circulation. They are not designed for sea water use.

Model	Rated voltage (V)	Rated power consumption	Flow rate	Dimensions L x W x H	Diameter Water connection	Weight	Order No. 12 V	Order No. 24 V
U 4810 for DBW 2010	12/24	25 W 2.1/1.1 A	1,600 l/h, 422 gal/h against 0.15 bar	173 x 81 x 77 mm 6.9 x 3.2 x 3.1 inch	18 mm 0.8 inch	0.8 kg 1.8 lbs	458414	458422
U 4814 for Thermo 230/300/350	12/24	104 W 8.7/4.4 A	5,200 l/h, 1,370 gal/h against 0.2 bar	221 x 100 x 105 mm 8.8 x 4 x 4.2 inch	38 mm 1.5 inch	2.1 kg 4.7 lbs	43149B	43150B
Aquavent 5000 S (U 4854) for Thermo 230/300/350	24	104 W 4.4 A	5,200 l/h, 1,370 gal/h against 0.2 bar	249 x 100 x 105 mm 9.9 x 4 x 4.2 inch	38 mm 1.5 inch	2.2 kg 4.9 lbs	–	1303320A
Aquavent 6000 S (U 4852) for Thermo 230/300/350	24	209 W 8.8 A	6,000 l/h, 1,583 gal/h against 0.4 bar	285 x 115 x 118 mm 11.3 x 4.6 x 4.7 inch	38 mm 1.5 inch	2.7 kg 6 lbs	–	1300083A

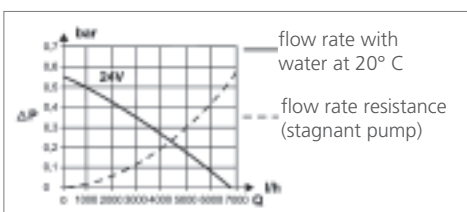
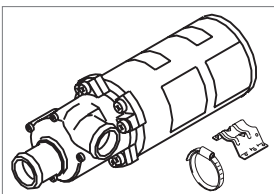
U 4810



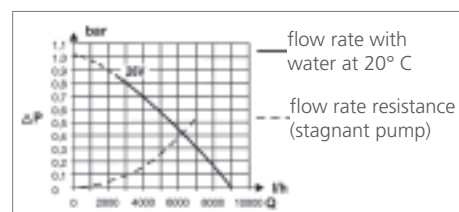
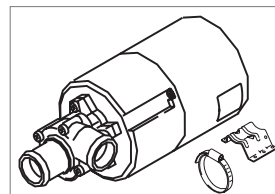
U 4814







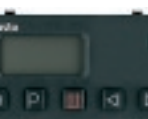


Aquavent 5000 S (U 4854)



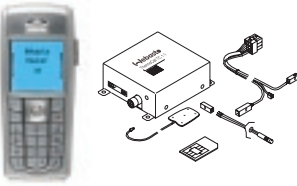


Aquavent 6000 S (U 4852)



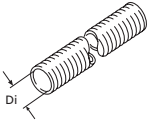
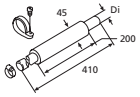
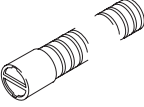
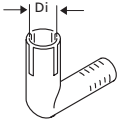
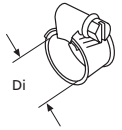
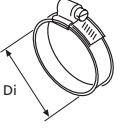
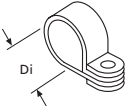
Accessories: Control Elements

		Air Top ST	Air Top Evo	Thermo Top C	Thermo 50	Thermo 90 ST	DBW 2010/2016	Thermo 230/300/350	Part No.
	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 +10 % increased heating power output (from 3,500 W to 3,900 W and from 5,000 W to 5,500 W) ☁ Ventilation mode to provide fresh and cool air to your cabins on a hot day – Easy connection of Webasto Telestart and Thermo Call possible – Interchangeable bezels provide flexible design options		Air Top Evo only						1313184A
1 	Air Top standard control element 12 V standard (1) panel with ventilation switch for ST heaters (2) additional adapter cable harness for EVO heaters – dimensions: cut-out size: L = 74 mm, L = 55 mm visible: L = 120 mm, L = 82 mm	■	■						82819B
2 		■	■						82422B
	Combi timer 12 V 24 V – three programmable pre-set times – continuous heating possible	■	■						88206A
	Thermo Top digital timer 12 V – three programmable pre-set times – installation dimensions (L x W): 53 x 46 mm – continuous heating possible			■					88205A
	Comfort digital timer 12 V 24 V – individual wake up function – installation dimensions incl. connector (L x W x H): 84 x 40 x 51 mm – continuous heating possible				■	■			88204A
	Electrical room thermostat 10 to 30 V – installation dimensions (L x W x H): 89 x 44 x 42 mm				■	■	■	■	88195A
									34875A

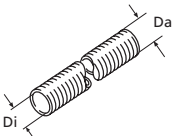

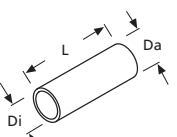
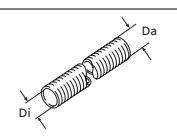
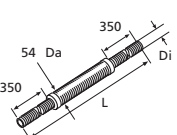
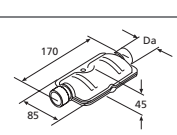

Accessories: Control Elements

		Air Top Evo	Thermo Top C	Thermo 50	Thermo 90 ST	DBW 2010/2016	Thermo 230 / 300 / 350	Part No.
	Thermo Call							
	Thermo Call Connect; without SIM Card; 12 V, 24 V	■	■	*	*	*	*	9013654A
	Thermo Call Comfort; without SIM Card; 12 V, 24 V	■	■	*	*	*	*	9013657A
	Thermo Call Locate; without SIM Card; 12 V, 24 V – location independent programming of the heater via mobile or landline possible * on request	■	■	*	*	*	*	9014272A
	Telestart T91 Holiday							
	12 V – range remote control 1,000 m – feedback signal – smallest remote control on the market – permanent heating possible * on request	■	■	*	*	*	*	9018150A
	Telestart T100 HTM							
	Telestart set – automatic heating time calculation – range remote control 1,000 m – digital display with indication of current temperature * on request	■	■	*	*	*	*	9010148B
	Switch with light bulb							
	12 V			■	■	■		109995
	24 V			■	■	■		109999


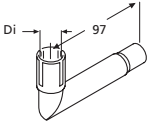
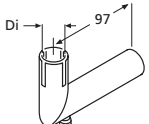
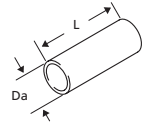
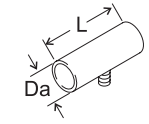
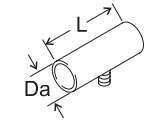
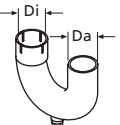
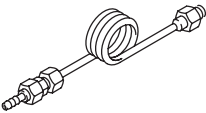
Accessories: Combustion Air System

		Air Top 2000 ST	Air Top Evo	HL90	Thermo Top C	Thermo 50	Thermo 90 S / ST	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Part No.
	Flexible pipe										Part No.
	Di = 18; L = 1,000					■					19733A
	Di = 22; PAK (per m)	■			■						466115
	Di = 25; PAK (per m)		■								91562A
	Di = 30; PAB (per m)						■				254177
	Di = 30; PAK (per m)			■			■				357901
	Di = 30,5; PAK (per m)										21446A
	Di = 55; PAK (per m)								■		88729A
Di = 70; PAK (per m)								■		479721	
Di = 80; PAK (per m)										39851	
	Air intake silencer set										Part No.
	Di = 22 bag with mounting parts	■									492345
	Air intake silencer										Part No.
	Di = 22; L = 800	■									83174A
	Di = 25; L = 650		■								90416C
Di = 30; L = 1.160 with safety cap			■			■					22931A
	Elbow										Part No.
	Di = 22; synthetic material	■									65000A
Di = 25; synthetic material for combustion air			■								91563A
	Hose clamp										Part No.
	Di = 20 ... 27; stainless steel	■			■	■					1303080A
	Di = 28 ... 35; stainless steel worm thread steel		■	■			■				9014771A
	Hose clamp										Part No.
	Di = 40 ... 47; stainless steel							■		■	67370A
	Di = 48 ... 55; stainless steel									■	67371A
	Di = 70 ... 90; stainless steel worm thread steel								■		92659A
	Pipe clip										Part No.
	Di = 25; stainless steel	■				■					405256
	Di = 29; steel		■								362891
Di = 33; stainless steel			■			■				499021	



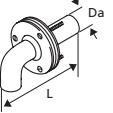

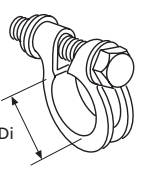
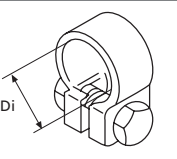
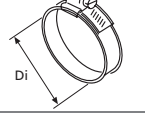
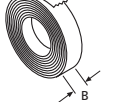
Accessories: Exhaust System

		Air Top 2000 ST	Air Top Evo	HL90	Thermo Top C	Thermo 50	Thermo 90 S / ST	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Part No.
 <p>Flex. exhaust pipe (inox), 2 layers</p> <p>Di = 22, Da = 26 (per m); SS</p> <p>Di = 24, Da = 27.8 (per m); SS</p> <p>Di = 30, Da = 34 (per m); SS</p> <p>Di = 38, Da = 42 (per m); SS</p> <p>Di = 40, Da = 44 (per m); SS</p> <p>Di = 70, Da = 75 (per m); SS</p> <p>Di = 80, Da = 85 (per m); SS</p> <p>Di = 100 (per m); SS</p> <p>* DBW 2020 > No. 33 DBW 300 > No. 16 DBW 350 > No. 01</p>											Part No.
											337390
											90394A
											141488
											353221
											371394
											479721
											371416
											371424
	 <p>Insulation hose</p> <p>Di = 72, Da = 120; L = 1.250</p> <p>Di = 72, Da = 120; L = 1.700</p> <p>Di = 72, Da = 120; L = 1.850</p>										
											9016230A
											9016231A
 <p>Flexible heat protection pipe</p> <p>Di = 28, Da = 32 (per m)</p> <p>Di = 43, Da = 45 (per m)</p> <p>aluminium/glass fibre heat protection</p>											Part No.
											21543A
 <p>Flexible pipe</p> <p>Di = 28, Da = 38, L = 324</p> <p>glass fibre heat protection</p>											Part No.
											64568A
 <p>Exhaust silencer</p> <p>Di = 24; L = 1.800</p> <p>Di = 38; L = 1.000</p> <p>stainless steel gas-tight extra silent specially for boats and ships</p>											Part No.
											9014067A
											92642A
 <p>Exhaust silencer</p> <p>Da = 22; steel</p> <p>Da = 22; stainless steel</p>											Part No.
											20844E
 <p>Exhaust gas reducing bush</p> <p>Di = 22/Da = 24; L = 40</p> <p>stainless steel</p>											Part No.
											92641A

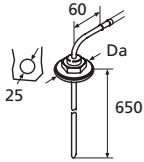
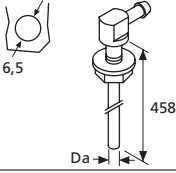
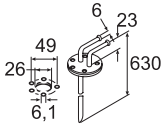
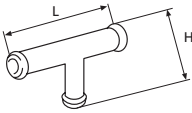
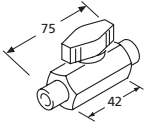
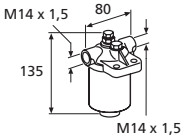
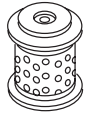
Accessories: Exhaust System

		Air Top 2000 ST	Air Top Evo	HL90	Thermo Top C	Thermo 50	Thermo 90 S / ST	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Part No.
	Exhaust silencer Di = 38 stainless steel with bracket						■	■			9012440A
	Elbow Di = 24 stainless steel with condensation water drain		■								91564A
	Elbow Di = 24 stainless steel without condensation water drain		■								92643A
	Connection pipe Da = 24; L = 50 stainless steel		■								92264A
	Connection pipe Da = 24; L = 65		■								92164A
	DA = 38; L = 65 stainless steel		■								92644A
	Exhaust pipe Di = 38, Da = 38; 180° stainless steel			■			■	■			370169
	Condensation water drain to 91564A + 92164A installation bag for installation in flex tube stainless steel		■								92621A

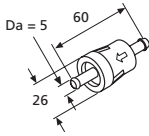
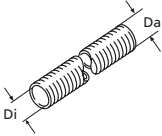





Accessories: Exhaust System

		Air Top 2000 ST	Air Top Evo	HL90	Thermo Top C	Thermo 50	Thermo 90 S / ST	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Part No.
	Through hull double walled straight										Part No.
	Da = 24; stainless steel	■	■	■							9018377A
	Da = 38; stainless steel						■	■			9018378A
	Through hull double walled bended										Part No.
	Da = 24; stainless steel	■	■	■							9018379A
	Da = 38; stainless steel						■	■			9018380A
	Through hull										Part No.
	Da = 24; L = 105; stainless steel		■								92282A
	Da = 38; L = 105; stainless steel						■	■			79352001
	Through hull										Part No.
	Da = 38; L = 100; stainless steel						■	■			79351701
	Da = 70; L = 133; stainless steel								■		79351301
	Hose clamp										Part No.
	Di = 24 ... 27; galvanized steel				■	■	■				117815
	Di = 30 ... 33; galvanized steel										100424
	Di = 39 ... 42; galvanized steel			■			■	■			367400
	Di = 68 ... 71; galvanized steel									■	113518
	Di = 83 ... 87; galvanized steel								■	■	113526
	Hose clamp										Part No.
	Di = 24 ... 26; stainless steel	■			■	■					70910C
	Di = 27 ... 30; stainless steel		■								91383B
	Di = 68 ... 71; stainless steel									■	113518
	Hose clamp/reduce wrap										Part No.
	Di = 70 ... 90 worm thread; stainless steel								■	■	92659A
	Insulating lagging										Part No.
	B = 60; L = 1 m; glass fibre	■	■	■	■	■	■	■	■	■	9015393A
	B = 60; L = 50 m; glass fibre	■	■	■	■	■	■	■	■	■	9015392A

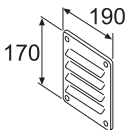

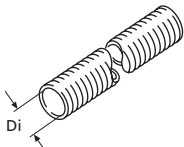
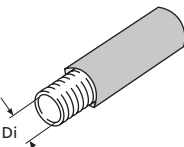
Accessories: Fuel Supply

		Air Top 2000 ST	Air Top Evo	HL90	Thermo Top C	Thermo 50	Thermo 90 S / ST	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	
	Tank extracting device (bag)										Part No.
	Da = 5,5					■	■	■			35320A
	Da = 8 only for fitting in metal tank							■	■	■	353213
	Tank extracting device										Part No.
	Da = 5; thread M6 for plastic tank, also for fitting in metal tank, bag with clips and hose section, screw needs to be tightened from below	■	■	■	■	■		■			1300823A
	Tank extracting device with return										Part No.
	Da = 6 with sealing, only for fitting in metal tank							■	■	■	394157
	T-piece										Part No.
	6 x 5 x 6; L = 50; H = 26	■	■	■	■	■	■				211532
	8 x 5 x 8; L = 50; H = 28										211540
	8 x 6 x 8; L = 50; H = 28										137952
	12 x 6 x 12; L = 50; H = 35 copper							■			293741
	Fuel cock										Part No.
	operation pressure max. 25 bar							■	■	■	88028C
	Fuel filter										Part No.
	with replaceable strainer							■	■	■	140708
	Strainer										Part No.
	for 140708							■	■	■	97457A

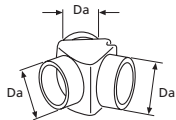
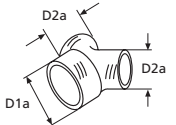
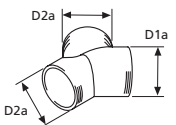
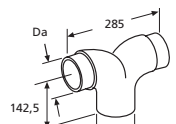
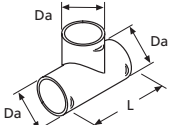


Accessories: Fuel Supply

		Air Top 2000 ST	Air Top Evo	HL90	Thermo Top C	Thermo 50	Thermo 90 S / ST	DBW 2010 / 2016	DBW 2020 / 300 / 350	Thermo 230 / 300 / 350	Part No.
	Connecting parts (bag) for 140708, 93075A, 9001819A, 9002975B, 9001818B							■	■	■	219495
	Fuel filter Da = 5 synthetic material transparent	■	■	■	■	■	■				487171
	Flexible pipe Di = 14.5; Da = 16.5; (per m); glass fibre – aluminum Di = 28; Da = 32; (per m); glass fibre – aluminum heat protection	■	■	■	■	■	■	■	■	■	15570A 21543A
	Metering pump mounting very quiet mounting	■	■	■	■	■					9001441B
Fuel supply systems which are installed in the engine room of a boat need to be fire resistant according to EN ISO 7840. Please select the required parts from the items listed below.											
 EN ISO 7840	Fuel pump damper protection fuel pump damper protection; required to protect fuel pump damper when installed in the engine room to fulfill EN ISO 7840	■					■				1311330A
 EN ISO 7840	Fuel supply kit includes fuel hose, 4 x rubber connection hose, hose clamps and metal connections from metal to rubber hose EN ISO 7840	■	■	■	■	■	■	■	■	■	66958B
 EN ISO 7840	Rubber connection hose fire resistant; Di = 5 mm; L = 50 EN ISO 7840	■	■	■	■	■	■	■	■	■	64891A
 EN ISO 7840	Fuel hose stainless steel Di = 1.5; Da = 5; L = 5,000 EN ISO 7840	■	■	■	■	■	■	■	■	■	64892A

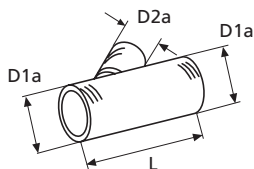
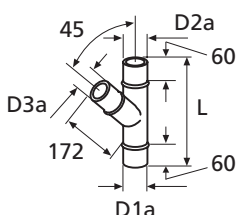
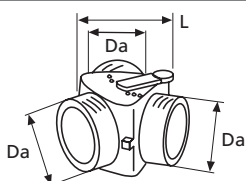
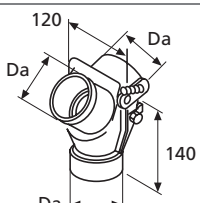
Accessories: Warm Air System

		Air Top 2000 ST	Air Top Evo	HL90	
Air intake					
	Louvre plate				Part No.
	W = 170; L = 190, air return entry aluminium	■	■	■	128228
	Screen for heaters suction and exit				Part No.
	D = 60; synthetic material D = 90; synthetic material	■	■		67492A 89141A
Ducting					
 <p>Hose specification</p> <p>APK: Aluminium, Paper, Plastic – black, with white Webasto logo</p> <p>PAK: Paper, Aluminium, Plastic – black, without logo</p> <p>PAPK: Paper, Aluminium, Paper, Plastic – grey, with red and blue Webasto logo, extra strong 4 layer design</p> <p>AA: Aluminium, Aluminium – silver</p>	Flexible pipe				Part No.
	Di = 55; APK, black, logo (per m)	■			1311862A
	Di = 60; APK, black, logo (per m)	■	■	■	1311884A
	Di = 80; APK, black, logo (per m)		■	■	1311885A
	Di = 90; APK, black, logo (per m)		■	■	1311886A
	Di = 55; APK, black, logo (25 m roll)	■			1311891B
	Di = 60; APK, black, logo (25 m roll)	■	■	■	1311892B
	Di = 80; APK, black, logo (25 m roll)		■	■	1311893B
	Di = 90; APK, black, logo (25 m roll)		■	■	1311894B
	Di = 55; PAPK, grey, logo (per m)	■			1311895A
	Di = 60; PAPK, grey, logo (per m)	■	■	■	1311897A
	Di = 80; PAPK, grey, logo (per m)		■	■	1311899A
	Di = 90; PAPK, grey, logo (per m)		■	■	1311901A
	Di = 55; PAPK, grey, logo (25 m roll)	■			1311896B
	Di = 60; PAPK, grey, logo (25 m roll)	■	■	■	1311898B
	Di = 80; PAPK, grey, logo (25 m roll)		■	■	1311900B
	Di = 90; PAPK, grey, logo (25 m roll)		■	■	1311902B
Di = 100; PAK, black (per m)			■	398527	
Di = 100; AA, silver (per m)			■	254533	
	Insulated hoses				Part No.
	Di = 80; PAK, L = 12 m roll		■		9021059B
	Di = 90; PAK, L = 12 m roll		■		9021082B
fitted with a 10 mm EPDM insulation "Armaflex" to minimize heat losses saves up to 150 W heating energy per 1 m hose length					

Accessories: Warm Air System

Distributor		Air Top 2000 ST	Air Top Evo	HL90	Part No.
	Y-piece				
	Da = 55; synthetic material	■			429627
	Da = 80; synthetic material		■		100548
	Y-piece				
	D1a = 80, D2a = 55; synthetic material To be used in the secondary flow only!		■		495689
	Y-piece				
	D1a = 60, D2a = 60; synthetic material		■	■	1312124B
	D1a = 90, D2a = 80; synthetic material		■		91000A
	D1a = 90, D2a = 90; synthetic material		■	■	9009261D
	D1a = 80, D2a = 60; synthetic material		■	■	9009262B
	T-piece				
	Da = 100; synthetic material			■	129232
	T-piece				
	Da = 60; L = 110; synthetic material	■	■	■	9009266C
	Da = 60; L = 110; synthetic material		■	■	9009265C
	T-piece				
	60, 60, 60; synthetic material	■	■	■	9009268B
	90, 60, 90; synthetic material		■	■	9009239B
	End cap				
	D60; synthetic material	■	■	■	9009319D
	D90; synthetic material		■	■	9009271D

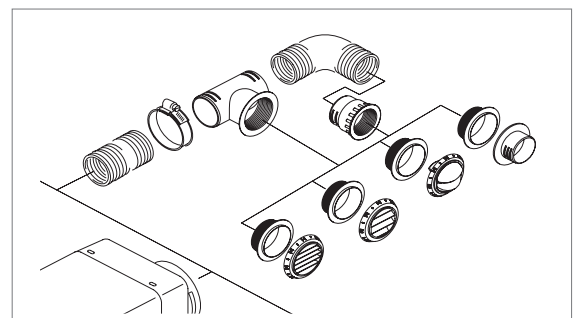
Accessories: Warm Air System

		Air Top 2000 ST	Air Top Evo	HL90	Part No.
	Branch pipe				
	D1a = 60, D2a = 60; L = 146	■	■	■	9009264B
	D1a = 90, D2a = 60; L = 185 synthetic material		■	■	9009263B
	Branch pipe				
	D1a = 80, D2a = 60, D3a = 60; L = 350		■		252727
	To be used in the secondary flow only!				
	D1a = 80, D2a = 80, D3a = 60; L = 350		■		252778
	D1a = 80, D2a = 80, D3a = 80; L = 370		■		252786
D1a = 100, D2a = 100, D3a = 80; L = 320 galvanized material			■	252824	
	Distributor with remote control flap valve				
	Da = 55; L = 95	■			101374
	Da = 80; L = 124 synthetic material		■		100567
	Flap valve				
	Da = 100; synthetic material			■	252514

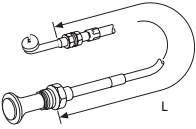
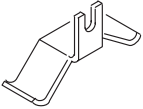
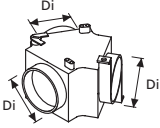
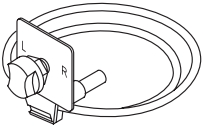
Quick-fit Hot Air Ducting System (HADS):

- 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


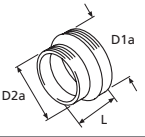
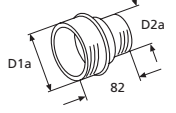
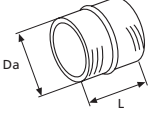



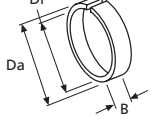
Webasto provides perfectly fitting, high quality components for an easy installation and high flexibility.











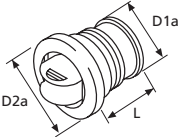
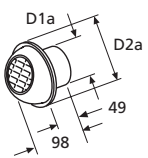
Accessories: Warm Air System

		Air Top 2000 ST	Air Top Evo	HL90	
	Control cable				Part No.
	L = 850	■	■	■	107812
	L = 1,500 for part No. 252514, 101374, 100567 synthetic material	■	■	■	108932
	Support				Part No.
	for part No. 107812, 108932 synthetic material	■	■	■	109006
	Distributor with control flap				Part No.
	Da = 60	■	■		9009642A
	Da = 90 synthetic material		■		9009641A
	Control device for distributor				Part No.
	bowden cable, 2 m long for Part No. 9009641A, 9009642A synthetic material	■	■	■	9008255A

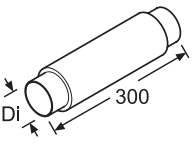
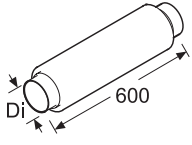
Accessories: Warm Air System

		Air Top 2000 ST	Air Top Evo	HL90	
Adaptors					
	Adapter for heater connection				Part No.
	D1a = 90, D2a = 80; L = 40 synthetic material		■		89111B
	Reducer for air hose				Part No.
	D1a = 60, D2a = 55; L = 35 D1a = 90, D2a = 80; L = 45 synthetic material		■		29852A 89075A
	Reducer pipe				Part No.
D1a = 80, D2a = 55 To be used in the secondary flow only! synthetic material			■		495654
	Hose connector				Part No.
	Da = 55; L = 55	■	■	■	9009270B
	Da = 60; L = 50	■	■	■	9009258C
	Da = 80; L = 75		■	■	495646
	Da = 90; L = 50		■	■	9009259C
	Reduction adapter for molds				Part No.
	Di = 90, Da = 80 Di = 90, Da = 60 synthetic material		■	■	9009270B 9011011C
	Elbow 90°				Part No.
	D = 90 synthetic material		■	■	9009260C
	Wall feed-through				Part No.
	Da = 60; synthetic material Da = 90; synthetic material		■	■	9009249C 9009250C
	Adaptor ring				Part No.
	Di = 55, Da = 60; B = 17 Di = 70, Da = 80; B = 17 to 429570 + 92966A synthetic material	■	■		92971A 366153
				■	

Accessories: Warm Air System

Outlets		Air Top 2000 ST	Air Top Evo	HL90	Part No.
 	Air outlet, closeable				
	D60 black	■	■	■	9012300A
	D60 white	■	■	■	9012301A
	D60 grey	■	■	■	9012302A
	D90 black	■	■	■	9012291A
	D90 white	■	■	■	9012292A
D90 grey	■	■	■	(9012293A)	
synthetic material					
 	Air outlet, 90°				
	D60 black	■	■	■	9012297A
	D60 white	■	■	■	9012298A
	D60 grey	■	■	■	9012299A
	D90 black		■	■	9012288A
	D90 grey		■	■	9012290A
D90 white		■	■	9012289A	
synthetic material					
 	Air outlet, 45°				
	D60 black	■	■	■	9012294A
	D60 white	■	■	■	9012295A
	D60 grey	■	■	■	9012296A
	D90 black		■	■	9012285A
	D90 grey		■	■	9012286A
D90 white		■	■	9012287A	
synthetic material					
 	Hose connector for above threaded air outlets				
	D60; synthetic material	■	■	■	9009239B
D90; synthetic material		■	■	9009240B	
	Air outlet, closeable				
	D1a = 55, D2a = 100; L = 65	■			1311639A
	D1a = 70, D2a = 100; L = 65		■		92966A
to be used in the secondary flow only!					
synthetic material					
	Air outlet				
	D1a = 60, D2a = 92	■			398551
	D1a = 80, D2a = 120		■		264091
rotating					
synthetic material					

Accessories: Warm Air System / Water System

Silencer		Air Top 2000 ST	Air Top Evo	HL90	Part No.
	Air intake silencer				
	Di = 80; L = 300 bitumen – aluminium – plastic		■		392472
	Heat air silencer				
	Di = 90; L = 600 bitumen – aluminium – plastic		■		67789A



Accessories: Water System

Webasto offers the full range of high-quality Hep₂O products.
For further details, please refer to our dedicated product information.

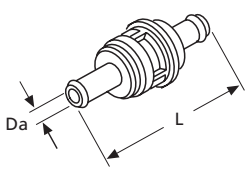
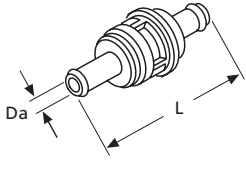
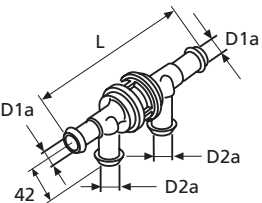
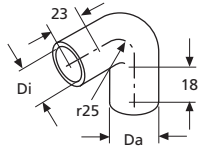
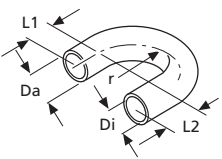
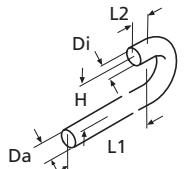


- Cabling ability – Hep₂O provides faster, safer and more cost effective installation
- Less jointing – Hep₂O flexible polybutylene pipe system requires less jointing, thus saves time and materials
- Joint security – the Hep₂O push-fit piping offers reliable jointing and safe assembly
- High resistance to impact and vibration – solder free, and the Hep₂O system is extremely strong and resistant to denting and accidental damage from impact or vibration
- Corrosion free – Hep₂O completely eliminates electrolytic corrosion and is highly resistant against aggressive salt-water and other corrosive media

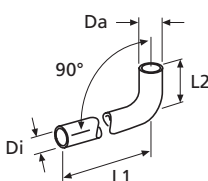
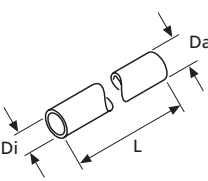
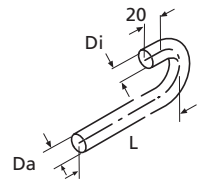
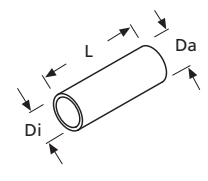
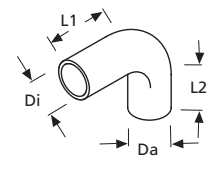


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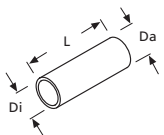
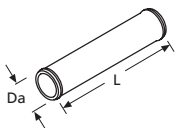
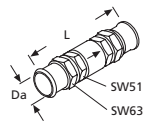
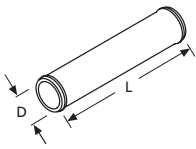
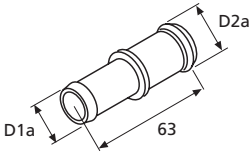
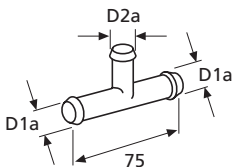
Accessories: Water System

		Thermo Top C	Thermo 50	Thermo 90 S/ST	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Part No.
	Check valve							Part No.
	Da = 15; L = 104 with leak hole SM	■		■	■			12781A
	Check valve							Part No.
	Da = 15; L = 104	■	■	■	■			12754A
	Da = 18; L = 90	■	■	■	■			109557
	Da = 18; L = 100 without leak hole SM	■	■	■	■			12706A
	Check valve							Part No.
	D1a = 18, D2a = 18; L = 146	■	■	■	■			12780A
	D1a = 20, D2a = 20; L = 162 St/Ms with leak hole	■	■	■				19873A
	Bent hose 90°							Part No.
	Di = 18; Da = 25	■	■		■			431397
	Bent hose 180°							Part No.
	Di = 18, Da = 25; L1 = 18, L2 = 18; r = 25	■	■		■			403474
	Hose							Part No.
	Di = 15, Da = 25; L1 = 580, L2 = 17, H = 75	■	■	■	■			249416
	Di = 18, Da = 25; L1 = 576, L2 = 17, H = 75	■	■	■	■			436267
	Di = 18, Da = 25; L1 = 1100, L2 = 17, H = 75	■	■	■	■			29420A
	Di = 18, Da = 25; L1 = 60, L2 = 17, H = 95	■	■	■	■			98454A
Di = 20, Da = 29; L1 = 89, L2 = 20, H = 98	■	■	■	■			84926A	

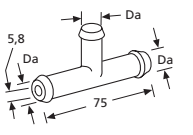
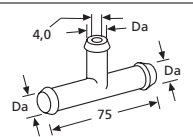
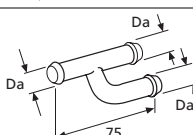
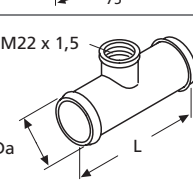
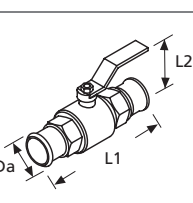
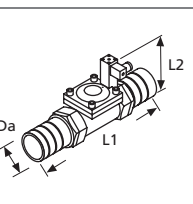
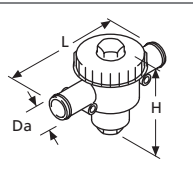
Accessories: Water System

		Thermo Top C	Thermo 50	Thermo 90 5T	DBW 2010/2016	Thermo 230 / 300 / 350	Part No.
	Hose						Part No.
	Di = 15, Da = 22; L1 = 1.020, L2 = 50	■	■	■	■		248371
	Di = 18, Da = 25; L1 = 125, L2 = 90	■	■	■	■		9001322A
	Di = 18, Da = 25; L1 = 500, L2 = 47.5	■	■	■	■		98453A
	Di = 18, Da = 27; L1 = 1.020, L2 = 50	■	■	■	■		436259
	Di = 20, Da = 27; L1 = 70, L2 = 56.5	■	■	■	■		9004570B
	Di = 20, Da = 27; L1 = 130, L2 = 56.5	■	■	■	■		65696C
	Di = 20, Da = 27; L1 = 187, L2 = 46.5	■	■	■	■		98450A
	Di = 20, Da = 27; L1 = 360, L2 = 46.5	■	■	■	■		98451B
	Di = 20, Da = 27; L1 = 615, L2 = 56.5	■	■	■	■		9003479B
	Di = 22, Da = 29; L1 = 225, L2 = 57	■	■	■	■		9001918A
Di = 22, Da = 29; L1 = 1.020, L2 = 50	■	■	■	■		21488A	
	Hose						Part No.
	Di = 15, Da = 22; L = 2,750	■		■			406074
	Di = 18, Da = 25; L = 58	■	■		■		65187B
	Di = 18, Da = 27; L = 2,000	■	■		■		369136
	Di = 20, Da = 27; L = 380	■		■			98414B
	Di = 38, Da = 50; L = 65					■	9009653A
Di = 38, Da = 50; L = 82					■	19621A	
Di = 38, Da = 50; L = 130					■	84082A	
	Hose						Part No.
	Di = 18, Da = 25; L = 110	■	■		■		9003810B
	Di = 20, Da = 27; L = 70	■		■	■		9003400B
Di = 20, Da = 27; L = 190	■		■	■		65697B	
	Hose						Part No.
	Di = 38, Da = 47						
	L = 65					■	87820A
	L = 82					■	89242A
	L = 110					■	65082A
L = 130					■	9006271A	
silicone							
	Bent hose						Part No.
	Di = 38, Da = 47; L1 = 70, L2 = 90					■	91917A
	Di = 38, Da = 47; L1 = 70, L2 = 105					■	91916A
	Di = 38, Da = 47; L1 = 80, L2 = 90					■	87817A
silicone							

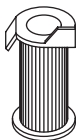
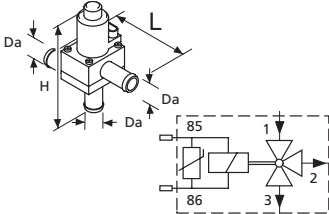
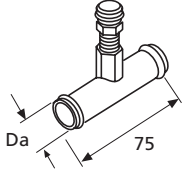
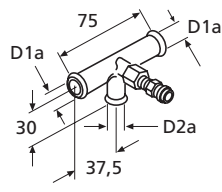
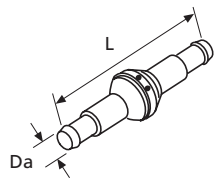
Accessories: Water System

		Thermo Top C	Thermo 50	Thermo 90 ST	DBW 2010/2016	Thermo 230 / 300 / 350	Part No.
	Hose						
	Di = 28, Da = 37; L = 180 silicone					■	65216A
	Connection pipe						
	Da = 38 x 1.5, L = 70 Da = 38 x 1.5, L = 150				■	■	9003617B 97029A
	One way valve						
	Da = 38; L = 186					■	98474A
	Connection pipe						
	Da = 15; L = 75	■	■				131650
	Connection pipe						
	D1a = 15; D2a = 18	■	■		■		66933A
	D1a = 15; D2a = 20	■		■			90290B
	D1a = 17; D2a = 20	■	■	■			64738B
	D1a = 18; D2a = 18	■	■		■		66906B
	D1a = 18; D2a = 20	■	■	■	■		66908B
	D1a = 18; D2a = 22	■	■		■		66932A
	D1a = 20; D2a = 20	■	■	■	■		66934B
D1a = 20; D2a = 22	■	■	■			19867B	
	Plastic						
	T-piece						
	D1a = 15; D2a = 18	■		■	■		138207
	D1a = 18; D2a = 8	■	■	■	■		65068A
	D1a = 18; D2a = 15	■	■				138215
	D1a = 18; D2a = 18	■	■		■		355240
	D1a = 20; D2a = 8	■	■	■	■		64769A
	D1a = 20; D2a = 10	■	■	■	■		9006023A
	D1a = 20; D2a = 15	■	■	■	■		138223
D1a = 20; D2a = 20	■	■	■			21081A	

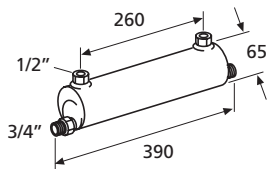
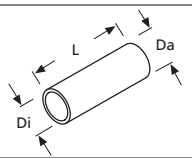
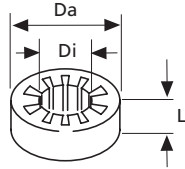
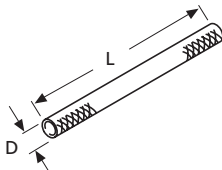
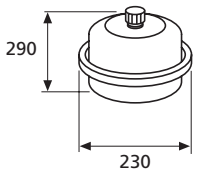


Accessories: Water System

		Thermo Top C	Thermo 50	Thermo 90 ST	DBW 2010/2016	Thermo 230 / 300 / 350	
	T-piece with restrictor Da = 20	■	■	■	■		Part No. 9000545A
	T-piece with restrictor Da = 18	■	■	■	■		Part No. 88593A
	Connection pipe Da = 18	■	■	■	■		Part No. 123858
	Pipe socket Da = 19; L = 100 Da = 38; L = 100			■		■	Part No. 369632 138169
	Manual stop valve Da = 38; L1 = 165; L2 = 85 Ms chrome plated casing					■	Part No. 90736A
	Solenoid valve Da = 32; L1 = 187; L2 = 95 for 24 V, 2/2 ways casing and screw-inport BRS					■	Part No. 93207A
	Shut off valve with filter Da = 38; H = 131 2/2 ways water filter, plastic casing					■	Part No. 91800B

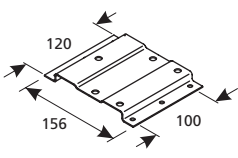
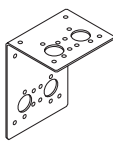
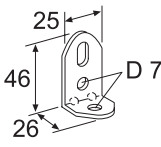
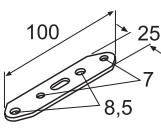

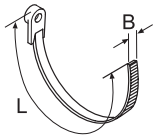
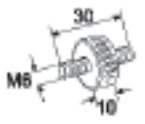
Accessories: Water System

		Thermo Top C	Thermo 50	Thermo 90 ST	DBW 2010/2016	Thermo 230 / 300 / 350	Part No.
	Strainer						
	Da = 38 for 2/2 way-water filter					■	66532B
	Solenoid valve						
	Da = 18; H = 101; L = 84 for 12 V, 3/2 ways; plastic casing open without power	■	■	■	■		9014606A
	Bleed valve						
	Da = 15	■		■	■		112392
	Da = 18	■	■	■	■		105848
Da = 20	■		■	■		98464A	
	T-piece with bleed valve						
	D1a = 15, D2a = 15	■		■	■		488526
	D1a = 18, D2a = 15	■	■	■	■		488534
D1a = 20, D2a = 20	■		■			15581A	
	One way valve						
	Da = 18; L = 90 Da = 20; L = 120 without leak hole	■	■		■		453137
		■	■	■			15685A

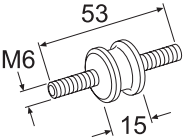
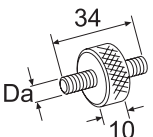
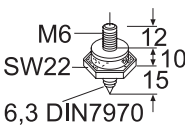

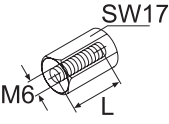
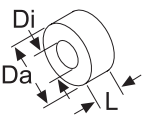
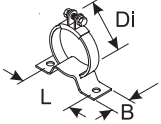
Accessories: Water System

		Thermo Top C	Thermo 50	Thermo 90 ST	DBW 2010/2016	Thermo 230 / 300 / 350	Part No.
	Instant water heater with insulated cover						
	max. 23.3 kW; max. 10 bar; 2 kg copper with pipe connections	■	■	■	■	■	434043
	max. 23.3 kW; max. 10 bar; 2 kg without pipe connections	■	■	■	■	■	434035
	Flexible pipe (heat protection hose)						
	GA-A28; Di = 28, Da = 35; L = (per m) for insulation and kink-free installation Gf/Al	■	■	■	■	■	21543A
	Connection pipe						
	Di = 25, Da = 45; L = 20	■	■	■	■		9000919A
	Di = 22, Da = 46; L = 20	■	■	■	■		9000920A
	Di = 20,5, Da = 40; L = 20 chafing guard	■	■	■	■		387045
	Woven protection hose						
	D = 26 ... 30; L = 1,500 chafing guard for polyester water hoses	■	■	■	■		1301317A
	Expansion tank						
	8 l preset pressure: 0.5 bar total volume of system: 157 l max.	■	■	■	■	■	351725
	Expansion tank						
	10 l; pipe connection 20, with level indicator 12 l; pipe connection 38	■	■	■	■	■	79289500 79289000
	Buffer tank						
	to enlarge the water/glycol volume of the heating circuit, stainless steel, with 800 W/230 V electrical heating element water thermostat set to 65° C 20 l; L x D (in mm) = 630 x 295						

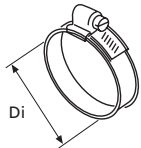
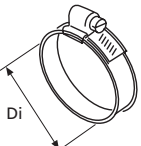
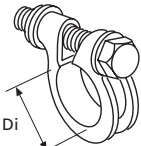
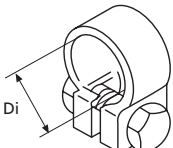
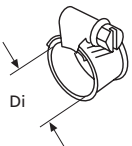
Accessories: Mounting Parts

		Air Top 2000 ST	Air Top Evo	HL90	Thermo Top C	Thermo 50	Thermo 90 S / ST	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Part No.
	Heater bracket										Part No.
	stainless steel						■				9009203A
	Heater bracket										Part No.
	stainless steel	■	■								92223B
	Angle bracket										Part No.
	stainless steel	■	■	■	■	■	■	■	■	■	9000802A
steel		■	■	■	■	■	■	■	■	■	242780
	Mounting strip										Part No.
	stainless steel	■	■	■	■	■	■	■	■	■	9000801A
steel		■	■	■	■	■	■	■	■	■	242888
	Cable strip										Part No.
	L = 100; B = 3	■	■	■	■	■	■	■	■	■	9010995A
L = 178; B = 5.3		■	■	■	■	■	■	■	■	■	1301888A
bag of 30 pieces											
	Cable strip										Part No.
	L = 400; B = 7.6; 1 piece	■	■	■	■	■	■	■	■	■	92647A
L = 400; B = 7.6; 10 pieces		■	■	■	■	■	■	■	■	■	9007917A
	Anti-vibration mount										Part No.
							■				472670

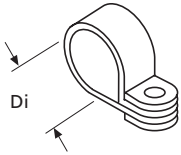
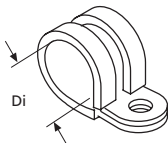
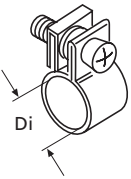
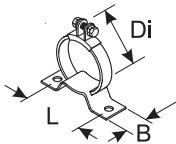
Accessories: Mounting Parts

		Air Top 2000 ST	Air Top Evo	HL90	Thermo Top C	Thermo 50	Thermo 90 S / ST	DBW 2010/2016	DBW 2020/300/350	Thermo 230/300/350	Part No.
	Anti-vibration mount for dosing pump						■				434264
	Anti-vibration mount for dosing pump										Part No.
	Da = M6	■	■	■	■						462543
	Da = M8						■				15500B
	Anti-vibration mount self-tapping screw	■	■	■	■	■	■	■			475831
	Cable clamp fastening cables and fuel lines bag of 50 pieces	■	■	■	■	■	■	■	■	■	Part No.
											9009015A
	Spacer nut										Part No.
	M6; L = 20	■	■	■	■	■	■	■	■	■	492302
	M6; L = 30	■	■	■	■	■	■	■	■	■	492310
	M6; L = 40	■	■	■	■	■	■	■	■	■	492329
	M8; L = 15	■	■	■	■	■	■	■	■	■	28897A
	GS										
	Spacer washer										Part No.
	DI = 8, Da = 20; AIL = 5	■	■	■	■	■	■	■	■	■	67689B
	DI = 8, Da = 20; AIL = 8	■	■	■	■	■	■	■	■	■	9001473B
	DI = 8, Da = 20; AIL = 10	■	■	■	■	■	■	■	■	■	25154B
	DI = 8, Da = 20; AIL = 15	■	■	■	■	■	■	■	■	■	98861B
	DI = 8, Da = 20; AIL = 20	■	■	■	■	■	■	■	■	■	67628B
	DI = 8, Da = 20; AIL = 30	■	■	■	■	■	■	■	■	■	67629B
	DI = 8, Da = 20; AIL = 40	■	■	■	■	■	■	■	■	■	67630B
	Mounting / fastening bracket										Part No.
	DI = 86; B = 25; L = 111	■	■	■	■	■	■	■	■	■	253685
	DI = 106; B = 25; L = 135	■	■	■	■	■	■	■	■	■	253715

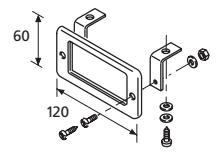
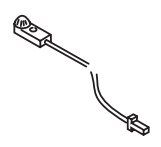
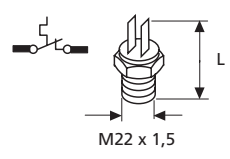
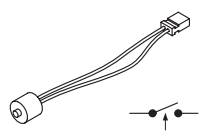
Accessories: Clamps

		Air Top 2000 ST	Air Top Evo	Thermo Top C	Thermo 50	Thermo 90 ST	DBW 2010/2016	Thermo 230/300/350	
	Hose clamp								Part No.
	Di = 27 ... 31; stainless steel	■	■	■	■	■	■	■	67859A
	Di = 32 ... 39; stainless steel	■	■	■	■	■	■	■	67369A
	Di = 40 ... 47; stainless steel	■	■	■	■	■	■	■	67370A
	Di = 48 ... 55; stainless steel	■	■	■	■	■	■	■	67371A
	Di = 60 ... 80; stainless steel	■	■	■	■	■	■	■	1310877
	Di = 70 ... 90; stainless steel	■	■	■	■	■	■	■	92659A
	Di = 72 ... 79; stainless steel	■	■	■	■	■	■	■	67372A
	Di = 80 ... 87; stainless steel	■	■	■	■	■	■	■	67475A
	Di = 90 ... 100; stainless steel	■	■	■	■	■	■	■	1310875
	Di = 98 ... 120; stainless steel	■	■	■	■	■	■	■	67373A
Di = 100 ... 120; stainless steel	■	■	■	■	■	■	■	1310876	
	Hose clamp								Part No.
	Di = 16 ... 24	■	■	■	■	■	■	■	18574A
	Di = 25 ... 40	■	■	■	■	■	■	■	119099
	Di = 40 ... 60	■	■	■	■	■	■	■	285560
	Di = 50 ... 70	■	■	■	■	■	■	■	139645
	Di = 60 ... 80	■	■	■	■	■	■	■	139661
	Di = 70 ... 90	■	■	■	■	■	■	■	139610
	Di = 80 ... 95	■	■	■	■	■	■	■	91565A
Di = 100 ... 120 steel	■	■	■		■	■	■	139653	
	Hose clamp								Part No.
	Di = 39 ... 42					■			367400
	Di = 68 ... 71						■		113518
	Di = 83 ... 87 steel						■		113526
	Pipe clip								Part No.
	Di = 24 ... 26	■		■	■		■		70910C
	Di = 26 ... 28 stainless steel		■						91383B
	Hose clamp								Part No.
	Di = 20 ... 27; stainless steel	■	■	■	■	■	■	■	243744
	Di = 28 ... 35; stainless steel	■	■	■	■	■	■	■	417866
	Di = 16 ... 24; stainless steel	■	■	■	■	■	■	■	139696
	Di = 40 ... 50; stainless steel	■	■	■	■	■	■	■	139726

Accessories: Clamps

		Air Top 2000 ST	Air Top Evo	Thermo Top C	Thermo 50	Thermo 90 ST	DBW 2010/2016	Thermo 230 / 300 / 350	
	Pipe clip without rubber coat								Part No.
	Di = 18; W = 20 mm	■	■	■	■	■	■	■	29143A
	Di = 24; W = 15 mm	■	■	■	■	■	■	■	67546A
	Di = 25; W = 15 mm	■	■	■	■	■	■	■	405256
	Di = 33; W = 15 mm	■	■	■	■	■	■	■	499021
	Di = 35; W = 20 mm	■	■	■	■	■	■	■	9000884A
	Di = 38; W = 20 mm	■	■	■	■	■	■	■	29917A
	Di = 42; W = 12 mm	■	■	■	■	■	■	■	126830
	Di = 42; W = 20 mm	■	■	■	■	■	■	■	35455A
	Di = 42; W = 15 mm	■	■	■	■	■	■	■	90433A
Di = 52; W = 15 mm	■	■	■	■	■	■	■	9002762B	
	Pipe clip with rubber coat								Part No.
	Di = 05; W = 12 mm	■	■	■	■	■	■	■	9002439A
	Di = 10; W = 15 mm	■	■	■	■	■	■	■	63299A
	Di = 15; W = 15 mm	■	■	■	■	■	■	■	63538A
	Di = 29; W = 15 mm	■	■	■	■	■	■	■	63539A
	Di = 34; W = 20 mm	■	■	■	■	■	■	■	63840B
Di = 38; W = 15 mm	■	■	■	■	■	■	■	63188A	
	Hose clamp								Part No.
	Di = 8; stainless steel	■	■	■	■	■	■	■	439673
	Di = 9; stainless steel	■	■	■	■	■	■	■	1310771A
	Di = 10; stainless steel	■	■	■	■	■	■	■	330027
	Di = 12; stainless steel	■	■	■	■	■	■	■	379670
Di = 14; stainless steel	■	■	■	■	■	■	■	363022	
	Mounting / fastening bracket								Part No.
	Di = 40 ... 50; L = 74; W = 25	■	■	■	■	■	■	■	255149
	Di = 86; L = 111; W = 25	■	■	■	■	■	■	■	253685
Di = 106; L = 135; W = 25	■	■	■	■	■	■	■	253715	

Accessories: Electronics

		Air Top 2000 ST	Air Top Evo	Thermo Top C	Thermo 50	Thermo 90 ST	DBW 2010/2016	Thermo 230/300/350	
	Mounting kit for digital timer 1522, 1529, 1531 and electric thermostat 34875A								Part No. 474630
	Temperature sensor external 12, 24 V ca. 2.5 m ca. 5 m	■	■						Part No. 9014694A 9005004B
	Thermostat (control thermostat) 35 – 42° C; opener, L = 38 50 – 55° C; opener, L = 38 62 – 70° C; opener, L = 39,5 71 – 76° C; opener, L = 39,6 73 – 78° C; opener, L = 39,6 76 – 85° C; opener, L = 38 gasket ring, Cu, 22 x 27						■	■	Part No. 408298 79430500 261130 43292A 43308A 79430700 217336
	Thermostat closer 40° C			■	■	■	■		Part No. 109867

Spare Parts: Webasto Heating Products

Find the adequate documentation for each product:

Spare part lists	Part No.	Language
Air Top 24	70960D	DE, EN, FR, IT, SV
Air Top 32	70960D	DE, EN, FR, IT, SV
Air Top 24 S	70960D	DE, EN, FR, IT, SV
Air Top 32 S	70960D	DE, EN, FR, IT, SV
Air Top 2000 S	70958F	DE, EN, FR, IT, SV
Air Top 2000	70958F	DE, EN, FR, IT, SV
Air Top 2000 ST	9001116A	DE, EN, FR, IT, SV
Air Top 3500	70946D	DE, EN, FR, IT, SV
Air Top 5000	70946D	DE, EN, FR, IT, SV
Air Top 3500 ST	9001117A	EN, DE, FR, IT, SV
Air Top 5000 ST	9001117A	EN, DE, FR, IT, SV
Air Top Evo 3900/5500	9019314A	EN, DE, FR, IT, SV
HL 2010	775784	DE, EN, FR, IT, SV
HL 2012	775784	DE, EN, FR, IT, SV
HL 90	70962A	DE, EN
Thermo Top C	70970E	DE, EN, FR, IT, SV
Thermo Top E	70970E	DE, EN, FR, IT, SV
Thermo Top Z	70970E	DE, EN, FR, IT, SV
Thermo 50	70971A	DE, EN, FR, IT, SV
Thermo 90	70972D	DE, EN, FR, IT, SV
Thermo 90 S	70972D	DE, EN, FR, IT, SV
Thermo 90 ST	70961A	DE, EN, FR, IT, SV
DBW 2010	70974F	EN, DE, FR, IT, SV
DBW 2012	70974F	EN, DE, FR, IT, SV
DBW 2016	70974F	EN, DE, FR, IT, SV
Thermo 230	70983G	DE, EN, FR, IT, SV
Thermo 300	70983G	DE, EN, FR, IT, SV
Thermo 350	70983G	DE, EN, FR, IT, SV



Contact your Webasto authorised Dealer or visit our Dealer Portal at <http://dealers.webasto.com/>
Also available on the Marine Navigator CD.

Which is the Right Air Conditioning System for Your Boat?



BlueCool Classic

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

OR ...



BlueCool Premium

- 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 systems

BlueCool Air Conditioners

BlueCool Products

How to choose the right BlueCool 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

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

Category 2

Step 2

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**.

40 m³

Step 3

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

Normal region

Step 4

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

20,000 BTU/h

Step 5

Depending on the demands you can decide on a **BlueCool Classic or Premium** with a cooling capacity of 20,000 BTU/h.

WBCC 20

Step 1

	Category 1 portlights only, cabin(s) all below deck [400 BTU / m ³]		
	region normal	cold	hot
Volume of the rooms [m ³]*	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 3


Step 2


Step 4





For precise BTU calculation, please refer to our dedicated BTU calculation tool, available on the Marine Navigator.

The right cooling capacity

	Category 1 portlights only, cabin(s) all below deck [400 BTU/m ³]		
	region: normal	cold	hot
Volume of the rooms [m ³] (L x W x H)			
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

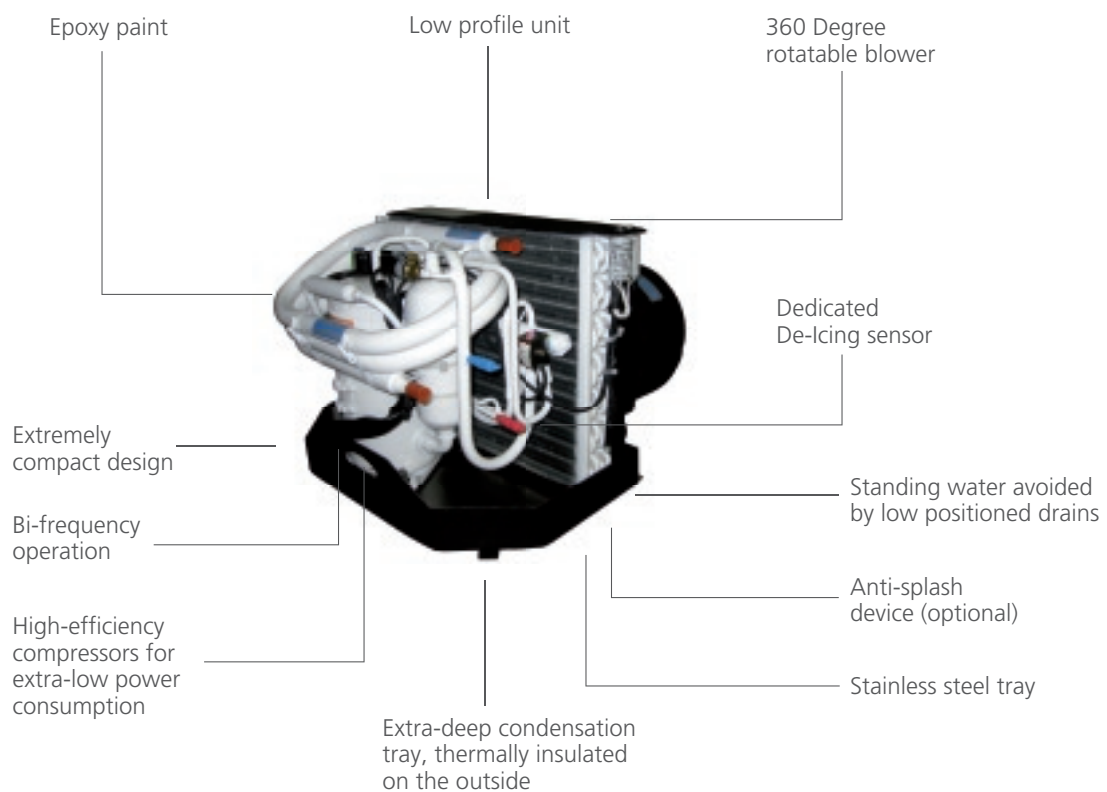
	Category 3 glass area above average, saloon above deck [600 BTU/m ³]		
	region: normal	cold	hot
Volume of the rooms [m ³] (L x W x H)			
10	6,000	4,500	7,500
20	12,000	9,000	15,000
30	18,000	13,500	22,500
40	24,000	18,000	30,000
50	30,000	22,500	37,500
60	36,000	27,000	45,000
70	42,000	31,500	52,500
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

	Category 2 average glass area, cabins partly below deck [500 BTU/m ³]		
	region: normal	cold	hot
Volume of the rooms [m ³] (L x W x H)			
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

	Category 4 very large glass areas, saloon and wheel house above deck [750 BTU/m ³]		
	region: normal	cold	hot
Volume of the rooms [m ³] (L x W x H)			
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. It is also recommended that the condenser is increased in size.

Our Classic Approach to On-Board Air Conditioning



NEW – all BlueCool Classic units with insulated condensation trays

Webasto BlueCool Classic Self-Contained Air Conditioners



■ WBC5 to 20

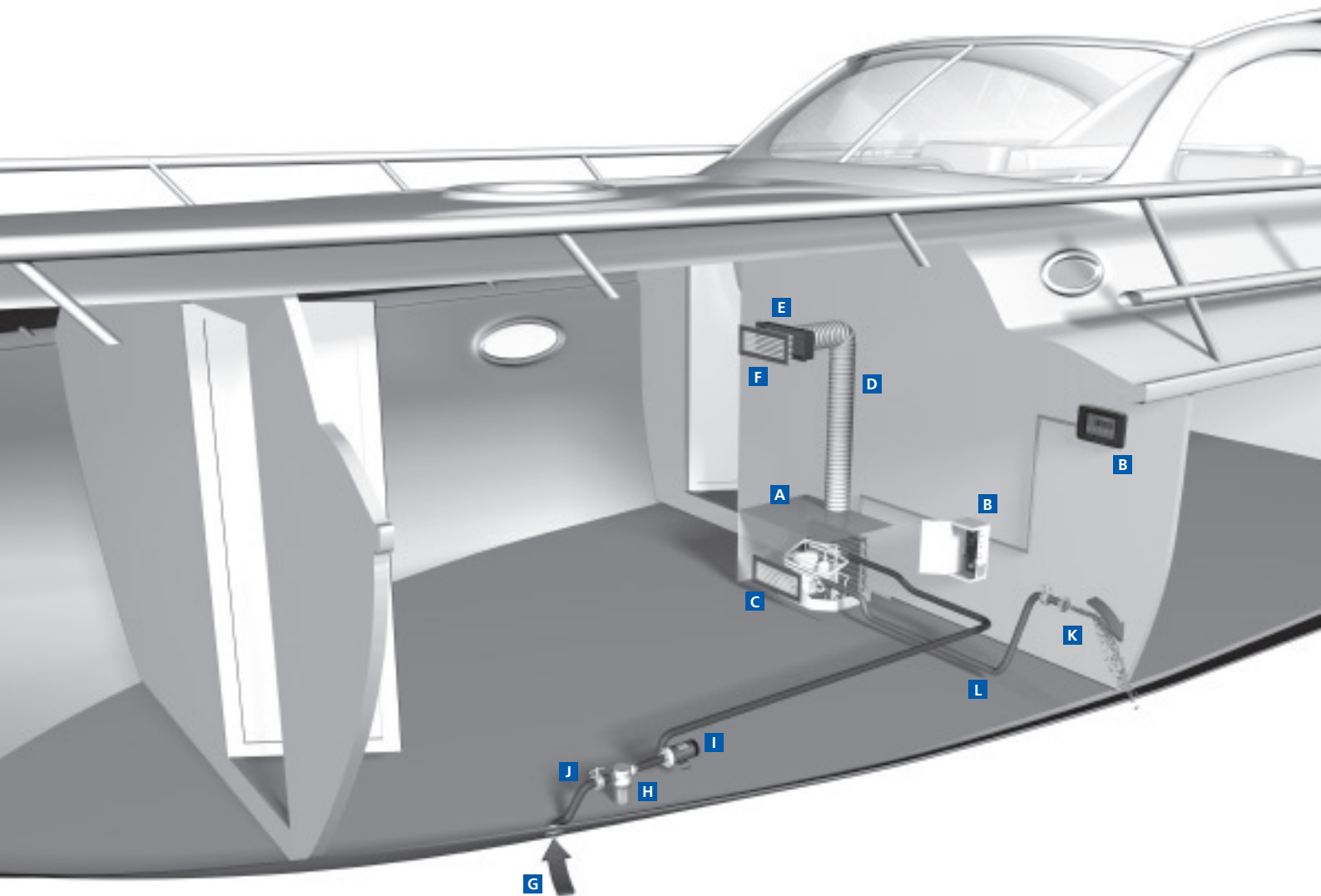
[See page 70 – 73](#)



■ WBC24 to 30

[See page 70 – 73](#)

Installation Example for BlueCool Classic



Installation of a BlueCool Classic 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 **G** to **L**.

Application Guidelines

For a complete BlueCool Classic 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 72 – 73](#) **B** Air Control (control unit) [See page 89 – 90](#)

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

- Electric cable and control box
- Display cable 4.5 m
- Installation manual
- Operating manual
- Remote air temperature sensor 3 m

Air system

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

C Return air grille [See page 97](#) **D** Air ducting [See page 98 – 100](#)
E Transition box [See page 98 – 99](#) **F** Supply air grille [See page 97 – 98](#)

Sea water circuit

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

G Sea water inlet [See page 112](#) **H** Sea water strainer [See page 112](#)
I Sea water pump [See page 92 – 93](#) **J** Closing valve [See page 105](#)
K Overboard discharge [See page 112](#) **L** Water hose [See page 105 – 107](#)

Webasto BlueCool Classic

Webasto BlueCool Classic air conditioning units are systems with one hermetically encapsulated compressor. The cooling circuit includes not only the compressor but also a condenser, a throttle element (capillaries or expansion valve) as well as an evaporator. Self-contained Webasto BlueCool Classic 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 BlueCool Classic 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.

Product Overview

BlueCool Classic

Model	WBCC5	WBCC6.5	WBCC7	WBCC9	WBCC12	WBCC16	WBCC20	WBCC24	WBCC30
Capacity	5,000 BTU/h 1.5 kW	6,500 BTU/h 1.9 kW	7,000 BTU/h 2.0 kW	9,000 BTU/h 2.6 kW	12,000 BTU/h 3.5 kW	16,000 BTU/h 4.7 kW	20,000 BTU/h 5.8 kW	24,000 BTU/h 7 kW	30,000 BTU/h 8.8 kW
Voltage	230 V, 115 V 50 – 60 Hz, 60 Hz	115 V 60 Hz	230 V 50 – 60 Hz	230 V, 115 V 50 – 60 Hz, 60 Hz	230 V, 115 V 50 – 60 Hz, 60 Hz	230 V, 115 V 50 – 60 Hz, 60 Hz	230 V, 50 – 60 Hz	230 V, 50 – 60 Hz	230 V, 50 – 60 Hz
Power consumption/ start *	2,1/5 A	2.8/6 A	2.8/6 A	3.2/7.5 A	4.3/9 A	5.5/12 A	6.5/14 A	8 /18 A	9,5/22 A
LRA **			19 A	20 A	21 A	34 A	37 A	54 A	60 A
Net weight	21kg, 47 lbs	21 kg, 47 lbs	24 kg, 53 lbs	26 kg, 58 lbs	29 kg, 64 lbs	36 kg, 80 lbs	38 kg, 84 lbs	47 kg, 104 lbs	51 kg, 113 lbs
Seawater pump	WB200, WB250	WB200, WB250	WB200, WB250	WB200, WB250	WB200, WB350	WB200, WB350	WB350	WB350	WB1000
Blower output	275 m³/h 162 cfm	275 m³/h 162 cfm	275 m³/h 162 cfm	400 m³/h 235 cfm	500 m³/h 294 cfm	625 m³/h 368 cfm	625 m³/h 368 cfm	2 x 500 m³/h 2 x 294 cfm	2 x 550 m³/h 2 x 324 cfm
Ø Condenser water connection	16 mm, 5/8"	16 mm, 5/8"	16 mm, 5/8"	16 mm, 5/8"	16 mm, 5/8"	16 mm, 5/8"	16 mm, 5/8"	16 mm, 5/8"	16 mm, 5/8"
Dimensions (L x D x H) (mm, inch)	424 x 285 x 278 16.7 x 11.2 x 10.9	444 x 285 x 278 17.5 x 11.2 x 10.9	434 x 285 x 301 17.1 x 11.2 x 11.9	459 x 382 x 312 18.1 x 15 x 12.3	467 x 451 x 315 18.4 x 17.8 x 13.8	491 x 451 x 346 19.3 x 17.8 x 13.6	486 x 451 x 386 19.1 x 17.8 x 15.2	504 x 508 x 387 19.8 x 20 x 15.2	509 x 609 x 392 20 x 24 x 15.4
Ø Air outlet	100 mm, 4"	100 mm, 4"	100 mm, 4"	100 mm, 4"	125 mm, 5"	125 mm, 5"	125 mm, 5"	2 x 125 mm 2 x 5"	2 x 125 mm 2 x 5"
Suggested breaker *	8 A	10 A	10 A	12 A	16 A	20 A	20 A	28 A	32 A

* has to be doubled for the 115 V versions. ** LRA = Locked Rotor Amperage; listed value for 230 V version!

OPTIONAL: Anti-splash device for critical applications such as high-speed boats WBCL010818A



WBCC5 to 20
5,000 to 20,000 BTU/h

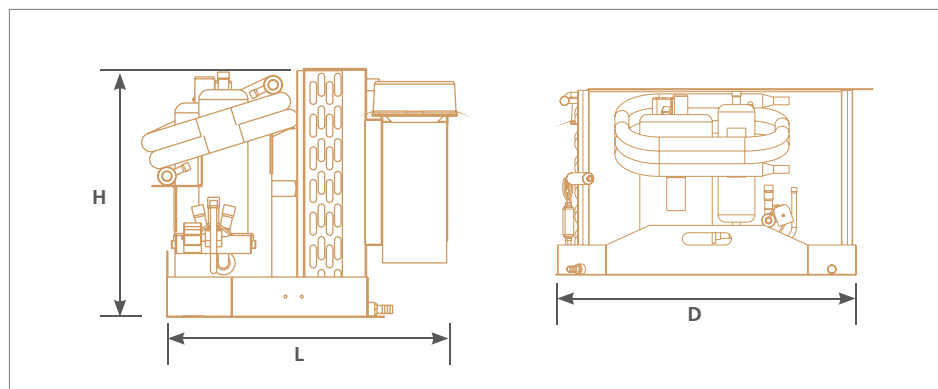


WBCC24 to 30
24,000 to 30,000 BTU/h

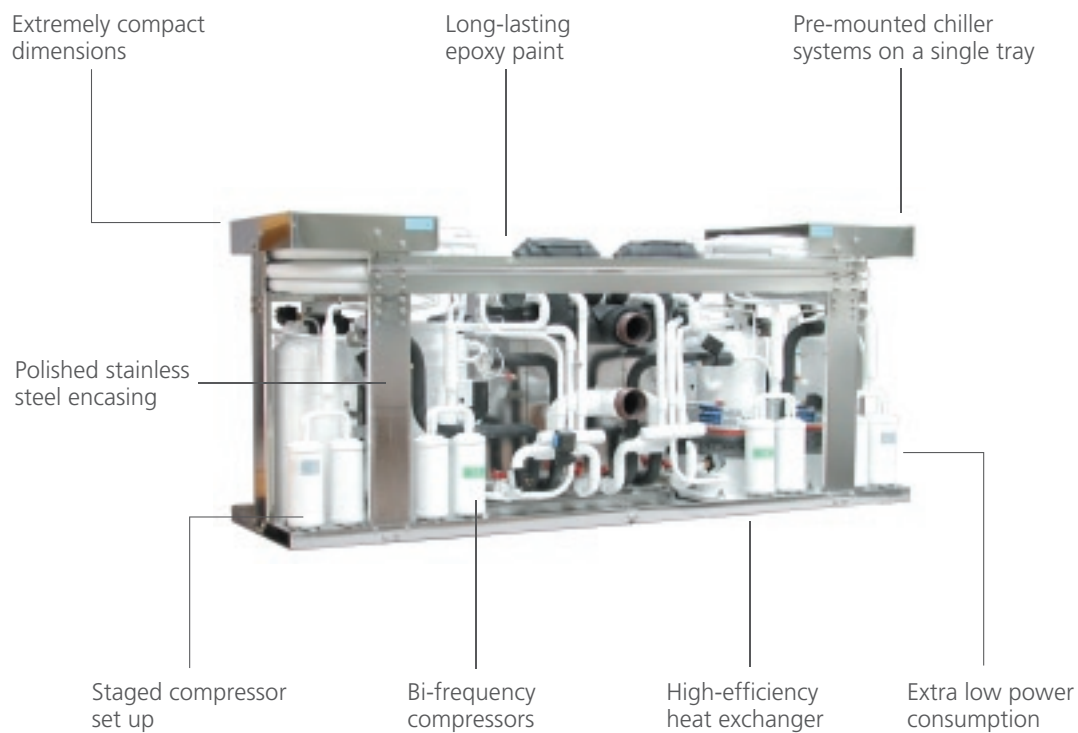


Order numbers:

	Reversible 230 V, 50/60 Hz	Reversible 230 V, 50/60 Hz	Cool Cycle 115 V, 60 Hz	Reversible 115 V, 60 Hz
Model, cooling capacity in BTU/h, Watt	Order No.	Order No.	Order No.	Order No.
WBCC 5: 5,000 BTU/h, 1,465 Watt	WBCL005102C	WBCL005101C	WBCL009780C	WBCL009775C
WBCC 6.5: 6,500 BTU/h, 1,900 Watt			WBCL009781C	WBCL009776C
WBCC 7: 7,000 BTU/h, 2,000 Watt	WBCL005103C	WBCL005010C		
WBCC 9: 9,000 BTU/h, 2,635 Watt	WBCL005104C	WBCL005011C	WBCL009782C	WBCL009777C
WBCC 12: 12,000 BTU/h, 3,515 Watt	WBCL005105C	WBCL005012C	WBCL009783C	WBCL009778C
WBCC 16: 16,000 BTU/h, 4,690 Watt	WBCL005106C	WBCL005013C	WBCL009784C	WBCL009779C
WBCC 20: 20,000 BTU/h, 5,800 Watt	WBCL005133C	WBCL005132C		
WBCC 24: 24,000 BTU/h, 7,035 Watt	WBCL005131C	WBCL005130C		
WBCC 30: 30,000 BTU/h, 8,790 Watt	WBCL005119C	WBCL005118C		



Premium Course For On-Board Air Conditioning



- Largest BTU range on the market
- Largest Air Handler range on the market
- Fully independent cooling loops in multiple compressor units
- Power continuously adapted to demand
- High system availability
- Softstart option
- Electronic silencer for noise-sensitive applications

Webasto BlueCool Premium Chilled Water Air Conditioners



■ WBCP12 to 60 Single

[See page 76 – 81](#)



■ WBCP24 to 60 Twin

[See page 76 – 81](#)



■ WBCP72 to 252 Triple

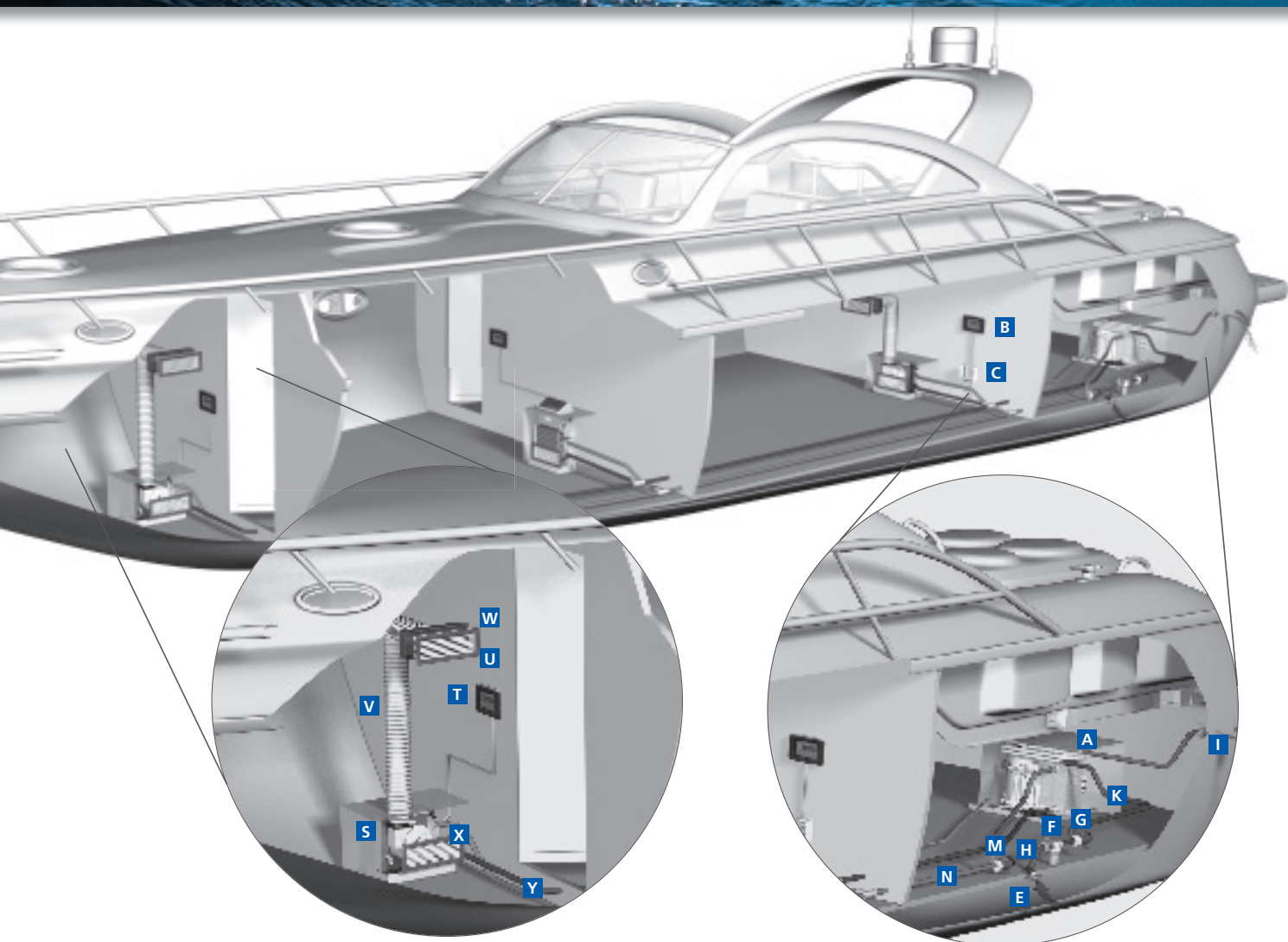
[See page 76 – 81](#)



■ WBCP100 to 572 Quattro

[See page 76 – 81](#)

Installation Example for BlueCool Premium



For larger boats with several cabins a BlueCool Premium unit 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 **M** to **R**. In each cabin one or several air handlers **S** are fitted depending on cooling capacity and space requirements. The "Chiller Control" **B** controls the A/C system itself. For each cabin one "Cabin Control" **T** 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.

Webasto BlueCool Premium

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.

Application Guidelines

For a complete BlueCool Premium 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 78 – 81](#) ▶

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 Display chiller control (Master control unit) See page 89 – 91 ▶ | C Display cable See page 91 ▶ |
| | D Remote air temperature sensor See page 91 ▶ |

Sea water circuit

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

- | | |
|---|--|
| E Sea water inlet See page 112 ▶ | F Sea water strainer See page 112 ▶ |
| G Sea water pump See page 92 – 93 ▶ | H Closing valve See page 105 ▶ |
| I Overboard discharge See page 112 ▶ | K Water hose See page 105 – 107 ▶ |

Chilled water circuit

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

- | | |
|--|---|
| M Circulation pump See page 92 – 93 ▶ | N Piping or hosing system with insulation See page 106 ▶ |
| O 3-way-valve (optional) See page 105 ▶ | |
| P Turn ball valve See page 105 ▶ | Q Expansion tank See page 105 ▶ |
| R T-pieces See page 106 ▶ | |

Cabin accessories necessary for each single cabin

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

- | | |
|--|--|
| S Air handler See page 83 – 86 ▶ | T Cabin control (Air control, display cable, temperature sensor and control box) See page 90 – 91 ▶ |
| U Supply air grille See page 97 – 98 ▶ | |
| V Air ducting See page 98 – 100 ▶ | |
| W Transition box See page 98 – 99 ▶ | X Return air grille See page 97 – 98 ▶ |
| Y Water hoses for condensation drain See page 106 ▶ | |

Product Overview

BlueCool Premium

Webasto BlueCool Premium	230 V	400 V/3 Ph	115 V
Cooling capacity in BTU/h, kW			
Chiller-Unit with 1 compressor:	Order No.	Order No.	Order No.
WBCP12: 12,000 BTU/h, 3.5 kW	WBCL005236B		WBCL009785B
WBCP16: 16,000 BTU/h, 4.7 kW	WBCL005203B		WBCL009787B
WBCP20: 20,000 BTU/h, 5.8 kW	WBCL005227B		
WBCP24: 24,000 BTU/h, 7 kW	WBCL005205B		
WBCP30: 30,000 BTU/h, 8.7 kW	WBCL005201B		
WBCP30: 30,000 BTU/h, 8.7 kW	WBCL005207B	WBCL009750B	
WBCP36: 36,000 BTU/h, 10.5 kW	WBCL005209B	WBCL009752B	
WBCP42: 42,000 BTU/h, 12.3 kW	WBCL005211B	WBCL009754B	
WBCP48: 48,000 BTU/h, 14 kW	WBCL005213B	WBCL009756B	
WBCP60: 60,000 BTU/h, 17.6 kW		WBCL005238	
Chiller-Unit with 2 compressors:			
WBCP24/TW: 24,000 BTU/h, 7 kW	WBCL005232C		WBCL009789B
WBCP32/TW: 32,000 BTU/h, 9.4 kW	WBCL005231C		WBCL009790B
WBCP40/TW: 40,000 BTU/h, 11.7 kW	WBCL005233C		
WBCP50/TW: 50,000 BTU/h, 14.6 kW	WBCL005234C		
WBCP60/TW: 60,000 BTU/h, 17.6 kW	WBCL005235C		
WBCP60/TW: 60,000 BTU/h, 17.6 kW		WBCL009758	
WBCP72/TW: 72,000 BTU/h, 21.1 kW	WBCL005217	WBCL009760	
WBCP84/TW: 84,000 BTU/h, 24.6 kW	WBCL005223	WBCL009762	
WBCP96/TW: 96,000 BTU/h, 28.1 kW	WBCL005224	WBCL009764	

Notes:

- 1) All single and twin compressor units include reverse cycle function
- 2) All models use environmentally friendly refrigerant



WBCP12 to 60 to Single
12,000 to 60,000 BTU/h

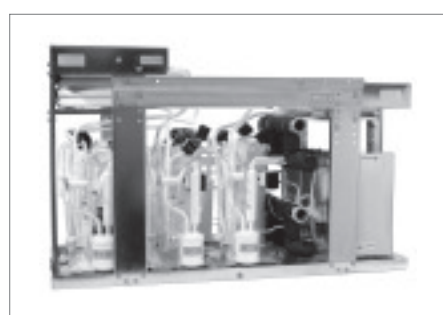


WBCP24 to 96 Twin
24,000 to 96,000 BTU/h



Webasto BlueCool Premium	230 V		208 V / 3 Ph		400 V / 3 Ph	
Cooling capacity in BTU/h, kW	Cool Only	Reverse Cycle	Cool Only	Reverse Cycle	Cool Only	Reverse Cycle
Chiller-Unit with 3 compressors:	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
WBCP72/TRI: 72,000 BTU/h, 21.1 kW		WBCL005258B				
WBCP90/TRI: 90,000 BTU/h, 26.4 kW		WBCL005259B				
WBCP108/TRI: 108,000 BTU/h, 31.7 kW	WBCL005250	WBCL005260			WBCL009766	WBCL009975
WBCP126/TRI: 126,000 BTU/h, 37 kW	WBCL005251	WBCL005261			WBCL009767	WBCL009976
WBCP144/TRI: 144,000 BTU/h, 42.2 kW	WBCL005252	WBCL005262			WBCL009768	WBCL009977
WBCP180/TRI: 180,000 BTU/h, 52.8 kW			WBCL005253	WBCL005263	WBCL009769	WBCL009978
WBCP216/TRI: 216,000 BTU/h, 63.3 kW			WBCL005254	WBCL005264	WBCL009770	WBCL009979
WBCP252/TRI: 252,000 BTU/h, 73.8 kW			WBCL005255	WBCL005265	WBCL009771	WBCL009980
Chiller-Unit with 4 compressors:						
WBCP100/Quattro: 100,000 BTU/h, 29 kW		WBCL005490B				
WBCP120/Quattro: 120,000 BTU/h, 35 kW		WBCL005491C				
WBCP240/Quattro: 240,000 BTU/h, 70 kW			WBCL009772	WBCL009981	WBCL005503	WBCL005266
WBCP288/Quattro: 288,000 BTU/h, 85 kW			WBCL009773	WBCL009982	WBCL005504	WBCL005267
WBCP336/Quattro: 336,000 BTU/h, 99 kW			WBCL009774	WBCL009983	WBCL005505	WBCL005268
WBCP384/Quattro: 384,000 BTU/h, 112 kW					WBCL005506	WBCL009999A
WBCP448/Quattro: 448,000 BTU/h, 132 kW					WBCL005507	WBCL005510A
WBCP504/Quattro: 504,000 BTU/h, 148 kW					WBCL005508	
WBCP572/Quattro: 572,000 BTU/h, 168 kW					WBCL005509	

BlueCool Products



WBCP72 to 252 Triple
72,000 to 252,000 BTU/h



WBCP100 to 572 Quattro
100,000 to 572,000 BTU/h

All chiller units are 50 and 60 Hz frequency compatible.

Product Overview

BlueCool Premium

Webasto BlueCool Premium	Voltage – Phase	Power consumption [Watt] Run/Start*	Current Draw [Ampère] Run/Start*	LRA 230 V**	LRA 400 V**
WBCP12	230 V/115 V-1	1,000/2,500	4.8/12.1 A (230 V) 9.6/24.2 A (115 V)	21	
WBCP16	230 V/115 V-1	1,250/3,200	6/15.5 A (230 V) 12/31 A (115 V)	34	
WBCP20	230 V-1	1,500/3,700	7.3/17.9 A (230 V)	37	
WBCP24	230 V-1	1,725/4,200	8.3/20.3 A (230 V)	54	
WBCP30	230/400 V-1/3	2,200/5,000	10.6/24.2 A (230 V) 3.5/8 A (400 V)	59	28
WBCP30	230 V-1	2,100/4,500	10.2/21.7 A (230 V)	60	
WBCP36	230/400 V-1/3	2,650/5,600	12.8/27.1 A (230 V) 4.3/9 A (400 V)	66	40
WBCP42	230/400 V-1/3	3,000/7,300	14.5/35.3 A (230 V) 4.8/11.7 A (400 V)	76	36
WBCP48	230/400 V-1/3	3,450/9,200	16.7/44.4 A (230 V) 5.5/14.8 A (400 V)	85	54
WBCP60	400 V-3	4,400/9,800	7.1/15.7 A (400 V)		57
WBCP24 Tw	230 V-1	2,070/3,750	10/18.1 A (230 V)	42	
WBCP32 Tw	230 V-1	2,500/4,450	12.1/21.5 A (230 V)	68	
WBCP40 Tw	230 V-1	3,000/5,000	14.5/24.2 A (230 V)	74	
WBCP50 Tw	230 V-1	3,500/5,800	16.9/28 A (230 V)	108	
WBCP60 Tw	230 V-1	4,200/6,600	20.3/31.9 A (230 V)	120	
WBCP60 Tw	230/400 V-1/3	4,400/8,100	21.3/39.1 A (230 V) 7.1/13 A (400 V)	118	56
WBCP72 Tw	230/400 V-1/3	5,300/9,650	25.6/46.6 A (230 V) 8.5/15.5 A (400 V)	132	80
WBCP84 Tw	230/400 V-1/3	6,000/11,000	29/53.1 A (230 V) 9.6/17.6 A (400 V)	152	72
WBCP96 Tw	230/400 V-1/3	6,900/12,850	33.3/62.1 A (230 V) 11/17.6 A (400 V)	190	108
WBCP72 Tri	230 V-1	5,175/7,550	25/36.5 A (230 V)	162	
WBCP90 Tri	230 V-1	6,300/8,700	30.4/42 A (230 V)	180	
WBCP108 Tri	230/400 V-1/3	8,000/12,300	38.7/59.4 A (230 V) 12.8/19.7 A (400 V)	198	120
WBCP126 Tri	230/400 V-1/3	9,000/14,000	43.5/67.6 A (230 V) 14.4/22.5 A (400 V)	228	108
WBCP144 Tri	230/400 V-1/3	10,350/16,300	50/78.7 A (230 V) 16.6/26.1 A (400 V)	255	162
WBCP180 Tri	400 V-3	13,200/18,600	21.2/29.8 A (400 V)		171
WBCP216 Tri	400 V-3	16,500/25,500	26.5/40.9 A (400 V)		228
WBCP252 Tri	400 V-3	18,900/29,100	30.3/46.7 A (400 V)		228
WBCP100 Qtr	230 V-1	6,900/9,300	33.3/44.9 A (230 V)	216	
WBCP120 Qtr	230 V-1	8,280/11,040	40/53.3 A (230 V)	240	
WBCP240 Qtr	400 V-3	17,500/22,900	28.1/36.7 A (400 V)		228
WBCP288 Qtr	400 V-3	22,000/31,000	35.3/49.7 A (400 V)		304
WBCP336 Qtr	400 V-3	25,000/35,250	40.1/56.5 A (400 V)		304
WBCP384 Qtr	400 V-3	27,200/38,400	43.3/61.6 A (400 V)		396
WBCP448 Qtr	400 V-3	30,400/42,800	48.8/68.6 A (400 V)		492
WBCP504 Qtr	400 V-3	34,200/48,150	54.9/77.2 A (400 V)		508
WBCP572 Qtr	400 V-3	38,000/53,500	60.9/85.8 A (400 V)		668

* Starting surge of compressor for approximately 0.3 seconds.

** LRA = Locked Rotor Amperage; total value for complete system (all compressors added)



	BTU/h/kW	Net weight	Seawater pump	Ø Seawater circuit	Ø Chilled water circuit	Dimensions (L x D x H) in mm
	12,000/3.5	29 kg, 64 lbs	WB350	15 mm	20 mm	405 x 333 x 347 mm 15.9 x 13.1 x 13.7 inch
	16,000/4.7	33 kg, 73 lbs	WB350	15 mm	20 mm	417 x 333 x 356 mm 16.4 x 13.1 x 14 inch
	20,000/5.8	33 kg, 73 lbs	WB350	15 mm	20 mm	417 x 333 x 356 mm 16.4 x 13.1 x 14 inch
	24,000/7	39 kg, 86 lbs	WB350	15 mm	20 mm	405 x 333 x 419 mm 15.9 x 13.1 x 16.5 inch
	30,000/8.7	55 kg, 121 lbs	WB1000	20 mm	20 mm	411 x 355 x 410 mm 16.2 x 14 x 16.1 inch
	30,000/8.7	43 kg, 95 lbs	WB1000	20 mm	20 mm	480 x 422 x 505 mm 18.9 x 16.6 x 19.9 inch
	36,000/10.5	66 kg, 145 lbs	WB1000	20 mm	20 mm	480 x 422 x 515 mm 18.9 x 16.6 x 20.3 inch
	42,000/12.3	68 kg, 150 lbs	WB1000	20 mm	20 mm	480 x 422 x 535 mm 18.9 x 16.6 x 21.1 inch
	48,000/14	70 kg, 154 lbs	WB1000	20 mm	20 mm	480 x 422 x 585 mm 18.9 x 16.6 x 23 inch
	60,000/17.6	75 kg, 165 lbs	WB1500	25 mm	25 mm	535 x 530 x 600 mm 21.1 x 20.9 x 23.6 inch
	24,000/7	70 kg, 154 lbs	WB350	20 mm	20 mm	470 x 419 x 480 mm 18.5 x 16.5 x 18.9 inch
	32,000/9.4	75 kg, 165 lbs	WB1000	20 mm	20 mm	470 x 419 x 523 mm 18.5 x 16.5 x 20.6 inch
	40,000/11.7	78 kg, 172 lbs	WB1000	20 mm	20 mm	470 x 419 x 523 mm 18.5 x 16.5 x 20.6 inch
	50,000/14.6	85 kg, 187 lbs	WB1500	25 mm	25 mm	470 x 419 x 552 mm 18.5 x 16.5 x 21.7 inch
	60,000/17.6	90 kg, 198 lbs	WB1500	25 mm	25 mm	470 x 419 x 552 mm 18.5 x 16.5 x 21.7 inch
	60,000/17.6	95 kg, 209 lbs	WB1500	25 mm	25 mm	680 x 432 x 572 mm 26.8 x 17 x 22.5 inch
	72,000/21.1	100 kg, 220 lbs	WB2500	25 mm	25 mm	681 x 432 x 572 mm 26.8 x 17 x 22.5 inch
	84,000/24.6	105 kg, 231 lbs	WB2500	25 mm	25 mm	680 x 415 x 630 mm 26.8 x 16.4 x 24.9 inch
	96,000/28.1	130 kg, 286 lbs	WB2500	25 mm	25 mm	680 x 432 x 630 mm 26.8 x 17 x 24.8 inch
	72,000/21.1	130 kg, 286 lbs	WB2500	1" F BST	25 mm	1,060 x 540 x 670 mm 41.7 x 21.3 x 26.4 inch
	90,000/26.4	140 kg, 308 lbs	WB3000	1" F BST	25 mm	1,060 x 540 x 670 mm 41.7 x 21.3 x 26.4 inch
	108,000/31.7	150 kg, 330 lbs	WB3000	1 1/4" F BST	1 1/2" M BST	1,310 x 540 x 680 mm 51.6 x 21.3 x 26.8 inch
	126,000/37	180 kg, 397 lbs	WB3000	1 1/4" F BST	1 1/2" M BST	1,310 x 540 x 680 mm 51.6 x 21.3 x 26.8 inch
	144,000/42.2	190 kg, 418 lbs	WB3000	1 1/4" F BST	1 1/2" M BST	1,310 x 540 x 680 mm 51.6 x 21.3 x 26.8 inch
	180,000/52.8	210 kg, 462 lbs	WB5500	1 1/2" F BST	1 1/2" M BST	1,310 x 540 x 718 mm 51.6 x 21.3 x 28.3 inch
	216,000/63.3	250 kg, 551 lbs	WB5500	1 1/2" F BST	2" M BST	1,310 x 540 x 850 mm 51.6 x 21.3 x 33.5 inch
	252,000/73.8	260 kg, 573 lbs	WB5500	2" F BST	2" M BST	1,060 x 540 x 670 mm 41.7 x 21.3 x 26.4 inch
	100,000/29	175 kg, 386 lbs	WB3000	1 1/4" F BST	1 1/2" M BST	1,060 x 540 x 670 mm 41.7 x 21.3 x 26.4 inch
	120,000/35	185 kg, 408 lbs	WB3000	1 1/4" F BST	1 1/2" M BST	1,730 x 540 x 720 mm 68.1 x 21.3 x 28.4 inch
	240,000/70	270 kg, 595 lbs	WB5500	1 1/2" F BST	2" M BST	1,730 x 540 x 740 mm 68.1 x 21.3 x 29.1 inch
	288,000/85	350 kg, 771 lbs	WB5500	2" F BST	2 1/2" M BST	1,720 x 500 x 780 mm 67.8 x 19.7 x 30.8 inch
	336,000/99	350 kg, 771 lbs	WB5500	2" F BST	2 1/2" M BST	1,730 x 540 x 740 mm 68.1 x 21.3 x 29.1 inch
	384,000/112	450 kg, 991 lbs	WB5500	2" F BST	2 1/2" M BST	2,030 x 610 x 900 mm 79.9 x 24 x 35.4 inch
	448,000/132	670 kg, 1476 lbs	WB7400	2" F BST	2 1/2" M BST	2,030 x 610 x 975 mm 79.9 x 24 x 38.4 inch
	504,000/148	670 kg, 1476 lbs	WB7400	2" F BST	2 1/2" M BST	2,030 x 610 x 1000 mm 79.9 x 24 x 39.4 inch
	572,000/168	725 kg, 1597 lbs	WB7400	2" F BST	2 1/2" M BST	2,030 x 610 x 1000 mm 79.9 x 24 x 39.4 inch

Note: Webasto engineers and quotes custom manufactured chiller systems upon request. Please contact us for a tailored solution to fit your individual needs.

F = Female thread in inch M = Male thread in inch

Webasto BlueCool Premium Additional Options

Electric control box for superyacht applications

Webasto also offers an electric control box for superyacht applications according to MCA standards. Due to high customisation, please contact us directly in order to choose the right solution.



Soft start-up option

- Reduce compressor starting current by up to 40%
- Eliminate the damaging effects of high starting torque surges
- Fast and reliable start – pressure equalization not necessary

Soft start-up option	Part No.
400 V, 15 A, 3 Phase	WBCL 000830
400 V, 25 A, 3 Phase	WBCL 000831
230 V, 25 A, 1 Phase	WBCL009445A NEW



Further options:

- For extremely hot environments, Webasto offers special solutions for effective air conditioning on board. Please contact us directly for professional consulting.
- Webasto also can provide all accessories for completely pressurized systems.
- Bleeding valves for pumps
- Water flow regulator
- 3-way valve for air handler and heater integration

[See page 113](#) ➔

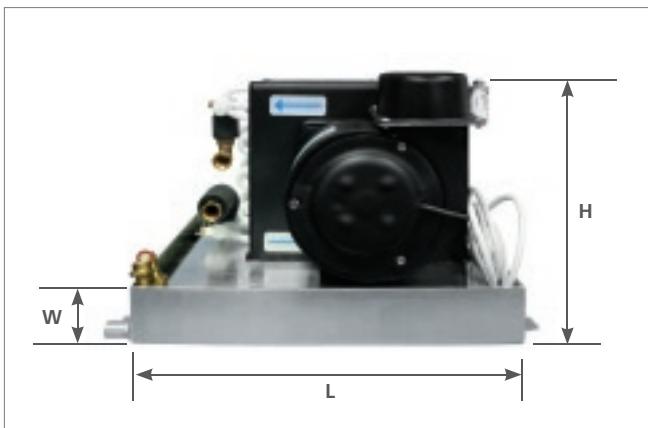
[See page 105](#) ➔

[See page 105](#) ➔

Webasto BlueCool Premium Air Handlers

Compact air handlers:

Model	Air Flow	Amp draw (Running Watts)	Ø hose ring	Net weight	Ø chilled water hose	Performance	Dimensions (H x L x W)	Part No. 230 V	Part No. 115 V
Comp. 4500	275 m³/h 165 cfm	0.35 (80)	100 mm 3.9 inch	5 kg 11 lbs	16 mm	4,500 BTU/h 1.3 kW	265 x 340 x 260 mm 10.4 x 13.4 x 10.2 inch	WBCL000744XX0B	WBCL006300000B
Comp. 6000	275 m³/h 165 cfm	0.35 (80)	100 mm 3.9 inch	7.5 kg 16.5 lbs	16 mm	6,000 BTU/h 1.7 kW	265 x 400 x 260 mm 10.4 x 15.7 x 10.2 inch	WBCL000745XX0B	WBCL006301000B
Comp. 9000	430 m³/h 253 cfm	0.57 (130)	100 mm 3.9 inch	9 kg 20 lbs	16 mm	9,000 BTU/h 2.6 kW	295 x 430 x 300 mm 11.6 x 17 x 11.8 inch	WBCL000746XX0B	WBCL006302000B
Comp. 12000	500 m³/h 300 cfm	0.65 (150)	125 mm 4.9 inch	9.5 kg 21 lbs	16 mm	12,000 BTU/h 3.5 kW	345 x 430 x 300 mm 13.6 x 16.9 x 11.8 inch	WBCL000747XX0B	WBCL006303000B
Comp. 16000	625 m³/h 368 cfm	0.67 (200)	125 mm 4.9 inch	12.5 kg 27.5 lbs	16 mm	16,000 BTU/h 4.6 kW	345 x 505 x 300 mm 13.6 x 19.9 x 11.8 inch	WBCL000748XX0B	WBCL006304000B
Comp. 20000	625 m³/h 368 cfm	0.67 (200)	125 mm 4.9 inch	14 kg 31 lbs	20 mm	20,000 BTU/h 5.6 kW	405 x 505 x 300 mm 15.9 x 19.5 x 11.8 inch	WBCL000790XX0B	WBCL006305000B
Comp. 24000	2 x 500 m³/h 2 x 300 cfm	0.87 (300)	2 x 125 mm 2 x 4.9 inch	25 kg 55 lb	20 mm	24,000 BTU/h 7 kW	405 x 550 x 300 mm 15.9 x 21.7 x 11.8 inch	WBCL000329XX0B	WBCL006306000B
Comp. 30000	2 x 550 m³/h 2 x 324 cfm	1.3 (400)	2 x 125 mm 2 x 4.9 inch	24 kg 53 lb	20 mm	30,000 BTU/h 8.8 kW	405 x 650 x 320 mm 15.9 x 25.6 x 12.6 inch	WBCL000330XX0B	
Comp. 48000	2 x 900 m³/h 2 x 530 cfm	2.7 (620)	2 x 125 mm 2 x 4.9 inch	40 kg 88 lbs	20 mm	48,000 BTU/h 14 kW	450 x 960 x 350 mm 17.7 x 37.8 x 13.8 inch	WBCL000789XX0B	

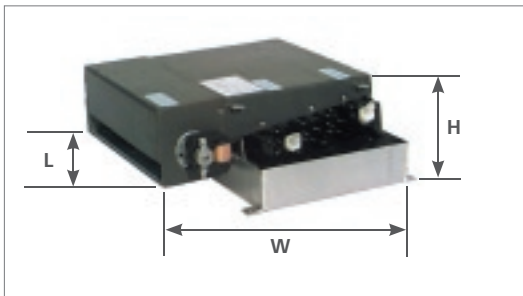


**New: All air handlers
now with insulated
condensation trays!**

Webasto BlueCool Premium Air Handlers

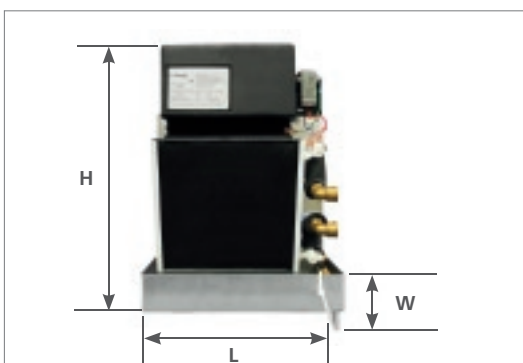
Cross flow air handlers /H:

Model	Air Flow	Amp draw (Running Watts)	air output dimensions		Net weight	Ø chilled water hose	Performance	Dimensions (H x L x W)	Part No. 230 V	Part No. 115 V
			height	length						
TAN 4000/H	150 m ³ /h 88 cfm	0.13 (30)	40 mm 1.6 inch	180 mm 7.1 inch	5 kg 11 lbs	16 mm	4,000 BTU/h 1.1 kW	170 x 305 x 405 mm 6.7 x 12 x 15.9 inch	WBCL000750XXXB	WBCL00631300XB
TAN 6000/H	190 m ³ /h 112 cfm	0.17 (40)	40 mm 1.6 inch	240 mm 9.4 inch	7 kg 15.5 lbs	16 mm	6,000 BTU/h 1.7 kW	170 x 360 x 405 mm 6.7 x 14.2 x 15.9 inch	WBCL000752XXXB	WBCL00631200XB
TAN 9000/H	250 m ³ /h 147 cfm	0.2 (46)	40 mm 1.6 inch	302 mm 11.9 inch	8 kg 18 lbs	16 mm	9,000 BTU/h 2.6 kW	170 x 420 x 440 mm 6.7 x 16.5 x 17.3 inch	WBCL000753XXXB	WBCL00631100XB
TAN 12000/H	250 m ³ /h 147 cfm	0.2 (46)	40 mm 1.6 inch	302 mm 11.9 inch	9 kg 20 lbs	16 mm	12,000 BTU/h 3.5 kW	170 x 420 x 495 mm 6.7 x 16.5 x 19.5 inch	WBCL000765XXXB	WBCL00631000XB



Cross flow air handlers /V:

Model	Air Flow	Amp draw (Running Watts)	air output dimensions		Net weight	Ø chilled water hose	Performance	Dimensions (H x L x W)	Part No. 230 V	Part No. 115 V
			height	length						
TAN 4000/V	150 m ³ /h 88 cfm	0.13 (30)	180 mm 7.1 inch	40 mm 1.6 inch	5 kg 11 lbs	16 mm	4,000 BTU/h 1.1 kW	410 x 305 x 150 mm 16.1 x 12 x 5.9 inch	WBCL000760XXXB	WBCL00635400XB
TAN 6000/V	190 m ³ /h 112 cfm	0.17 (40)	240 mm 9.4 inch	40 mm 1.6 inch	7 kg 16.5 lbs	16 mm	6,000 BTU/h 1.7 kW	410 x 360 x 150 mm 16.1 x 14.2 x 5.6 inch	WBCL000762XXXB	WBCL00635500XB
TAN 9000/V	250 m ³ /h 147 cfm	0.2 (46)	302 mm 11.9 inch	40 mm 1.6 inch	8.5 kg 19 lbs	16 mm	9,000 BTU/h 2.6 kW	440 x 410 x 155 mm 17.3 x 16.1 x 6.1 inch	WBCL000763XXXB	WBCL00635600XB
TAN 12000/V	250 m ³ /h 147 cfm	0.2 (46)	302 mm 11.9 inch	40 mm 1.6 inch	9.5 kg 21 lbs	16 mm	12,000 BTU/h 3.5 kW	480 x 410 x 155 mm 18.9 x 16.1 x 6.1 inch	WBCL000766XXXB	WBCL00635700XB



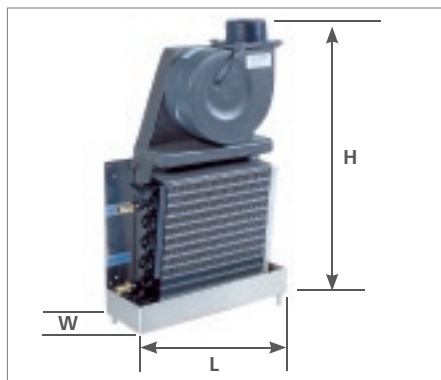


SlimLine /V air handlers:

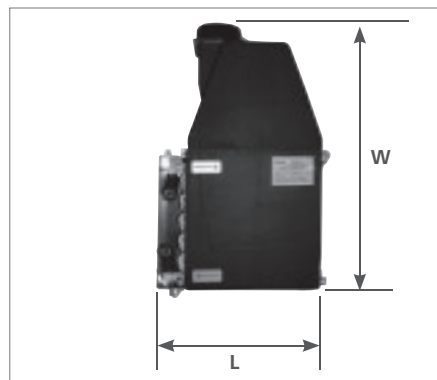
Model	Air Flow	Amp draw (Running Watts)	Ø hose ring	Net weight	Ø chilled water hose	Performance	Dimensions (H x L x W)	Part No. 230 V	Part No. 115 V
SlimLine 4500/V	275 m ³ /h 165 cfm	0.35 (80)	100 mm 3.9 inch	6.5 kg 14.5 lbs	16 mm	4,500 BTU/h 1.3 kW	465 x 300 x 145 mm 18.3 x 11.8 x 5.7 inch	WBCL000740XX0B	WBCL006350000B
SlimLine 6000/V	275 m ³ /h 165 cfm	0.35 (80)	100 mm 3.9 inch	8 kg 18 lbs	16 mm	6,000 BTU/h 1.7 kW	465 x 355 x 145 mm 18.3 x 14 x 5.7 inch	WBCL000741XX0B	WBCL006351000B
SlimLine 9000/V	430 m ³ /h 253 cfm	0.57 (130)	100 mm 3.9 inch	10 kg 22 lbs	16 mm	9,000 BTU/h 2.6 kW	550 x 410 x 155 mm 21.7 x 16.1 x 6.1 inch	WBCL000742XX0B	WBCL006352000B
SlimLine 12000/V	500 m ³ /h 300 cfm	0.65 (150)	125 mm 4.9 inch	11 kg 24.5 lbs	16 mm	12,000 BTU/h 3.5 kW	615 x 410 x 155 mm 24.2 x 16.1 x 6.1 inch	WBCL000743XX0B	WBCL006353000B
SlimLine 16000/V	625 m ³ /h 368 cfm	0.87 (200)	125 mm 4.9 inch	15 kg 33 lbs	16 mm	16,000 BTU/h 4.6 kW	620 x 470 x 165 mm 24.4 x 18.5 x 6.5 inch	WBCL000791XX0B	WBCL006360000B
SlimLine 20000/V	625 m ³ /h 368 cfm	0.87 (200)	125 mm 4.9 inch	16 kg 35.5 lbs	20 mm	20,000 BTU/h 5.6 kW	670 x 470 x 165 mm 26.4 x 18.5 x 6.5 inch	WBCL000792XX0B	WBCL006361000B
SlimLine 24000/V	2 x 500 m ³ /h 2 x 300 cfm	1.3 (300)	2 x 125 mm 2 x 4.9 inch	30 kg 66 lbs	20 mm	24,000 BTU/h 7 kW	710 x 570 x 215 mm 28 x 22.4 x 8.5 inch	WBCL000793XX0B	WBCL006362000B

SlimLine /H air handlers:

Model	Air Flow	Amp draw (Running Watts)	Ø hose ring	Net weight	Ø chilled water hose	Performance	Dimensions (H x L x W)	Part No. 230 V	Part No. 115 V
SlimLine 4500/H	275 m ³ /h 165 cfm	0.35 (80)	100 mm 3.9 inch	7 kg 15.5 lbs	16 mm	4,500 BTU/h 1.3 kW	170 x 305 x 470 mm 6.7 x 12 x 18.5 inch	WBCL000950XX0B	WBCL006370000B
SlimLine 6000/H	275 m ³ /h 165 cfm	0.35 (80)	100 mm 3.9 inch	8 kg 18 lbs	16 mm	6,000 BTU/h 1.7 kW	170 x 360 x 470 mm 6.7 x 14.2 x 18.5 inch	WBCL000951XX0B	WBCL006371000B
SlimLine 9000/H	430 m ³ /h 253 cfm	0.57 (130)	100 mm 3.9 inch	10 kg 22 lbs	16 mm	9,000 BTU/h 2.6 kW	170 x 410 x 560 mm 6.7 x 16.1 x 22 inch	WBCL000952XX0B	WBCL006372000B
SlimLine 12000/H	500 m ³ /h 300 cfm	0.65 (150)	125 mm 4.9 inch	11 kg 24.5 lbs	16 mm	12,000 BTU/h 3.5 kW	170 x 410 x 625 mm 6.7 x 16.1 x 24.6 inch	WBCL000953XX0B	WBCL006373000B
SlimLine 16000/H	625 m ³ /h 368 cfm	0.87 (200)	125 mm 4.9 inch	15 kg 33 lbs	16 mm	16,000 BTU/h 4.6 kW	185 x 470 x 635 mm 7.3 x 18.5 x 25 inch	WBCL000954XX0B	WBCL006374000B
SlimLine 20000/H	625 m ³ /h 368 cfm	0.87 (200)	125 mm 4.9 inch	16 kg 35.5 lbs	20 mm	20,000 BTU/h 5.6 kW	185 x 470 x 680 mm 7.3 x 18.5 x 26.8 inch	WBCL000955XX0B	WBCL006375000B
SlimLine 24000/H	2 x 500 m ³ /h 2 x 300 cfm	1.3 (300)	2 x 125 mm 2 x 4.9 inch	30 kg 66 lbs	20 mm	24,000 BTU/h 7 kW	200 x 570 x 730 mm 7.9 x 22.4 x 28.7 inch	WBCL000956XX0B	WBCL006376000B



SlimLine/V



SlimLine/H (top view)

Webasto BlueCool Premium Air Handler

Additional components

Description	Order No.
(1) Remote bleeder kit Adaptor kit for easy bleeding of the air handler	WBCL010125A
(2) Electronic silencer: to be mounted afterwards for significant reduction of noise impact suitable for 4.5 to 6,000 BTU/h	WBCL010160A
(2) Electronic silencer: to be mounted afterwards for significant reduction of noise impact suitable for 9 to 12,000 BTU/h	WBCL010161A
(2) Electronic silencer: to be mounted afterwards for significant reduction of noise impact suitable for 16 to 24,000 BTU/h	WBCL010162A



(1)

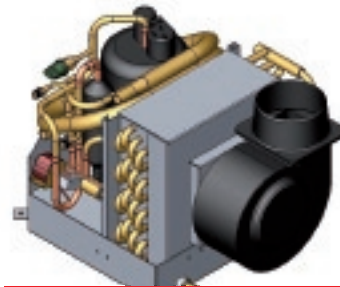


(2)

The electronic silencer

- Significant reduction of blower noise, making the air handler more silent than a whisper
- Works with all our air handler models due to a simple integration into the power supply
- Easy to install and retrofit as an upgrade
- Allows fine-tuning of installed applications where necessary
- Further noise reduction can be obtained by using our new extra-silent air ducting

[See page 99](#)



CAD data available on the Webasto Marine Navigator as well as on request.

Webasto offers the widest range of air handlers with plenty of options.

For clear identification when ordering, please use the following codification:

WBCL000752 X X X

Identifies 3-way valve option*

0 = without valve
1 = with valve

Example:

WBCL000752000 = standard unit

WBCL000752100 =
unit with 3-way valve mounted

Identifies electric heating option*

0 = without heating
1 = with heating

Example:

WBCL000752010 = unit equipped
with electric heating element

WBCL000752110 =
unit equipped with 3-way valve and
electric heating element

Identifies blower position option
for Cross Flow models

0 = standard position
1 = lateral position

Example:

WBCL000752001 = unit with blower
in lateral position

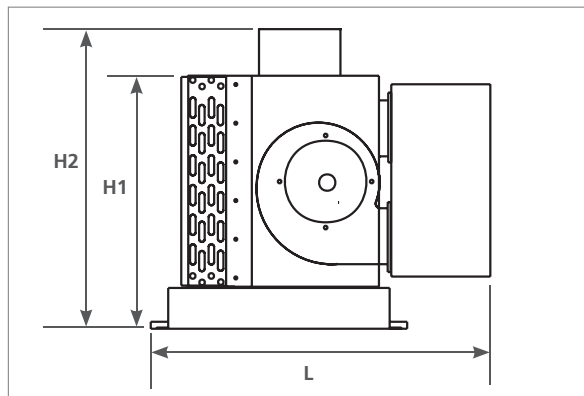
WBCL000752111 = unit equipped with
3-way valve, electric heating element and
blower in lateral position

* Only available for 230 V air handler versions

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	Performance	Volume	Length (L)	Height (H1)	Height (H2)	Depth (D)	Weight	Part No.
Fresh Air 24	24,000 BTU/h 7 kW	900 m ³ /h 530 cfm	700 mm 27.6 inch	430 mm 16.9 inch	540 mm 21.3 inch	585 mm 23 inch	35 kg 77 lbs	WBCL005241
Fresh Air 24 SP	24,000 BTU/h 7 kW	1,800 m ³ /h 1,060 cfm	700 mm 27.6 inch	430 mm 16.9 inch	540 mm 21.3 inch	585 mm 23 inch	35 kg 77 lbs	WBCL005242
Fresh Air 48	48,000 BTU/h 14 kW	1,800 m ³ /h 1,060 cfm	850 mm 33.5 inch	512 mm 20.2 inch	565 mm 22.2 inch	925 mm 36.41 inch	45 kg 100 lbs	WBCL005240
Fresh Air 2 x 24	48,000 BTU/h 14 kW	1,800 m ³ /h 1,060 cfm	940 mm 37 inch	490 mm 19.3 inch	570 mm 22.4 inch	620 mm 24.4 inch	48 kg 106 lbs	WBCL000218

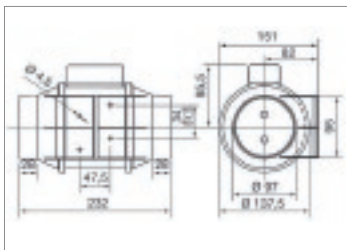
Extract Air Systems	Performance	Volume	Length (L)	Height (H1)	Height (H2)	Depth (D)	Weight	Part No.
Extract 900	–	900 m ³ /h 530 cfm	515 mm 20.3 inch	435 mm 17.1 inch	–	585 mm 23 inch	18 kg 40 lbs	WBCL000216
Extract 1800	–	1,800 m ³ /h 1,060 cfm	515 mm 20.3 inch	435 mm 17.1 inch	–	615 mm 24.2 inch	21 kg 46 lbs	WBCL000219

Blower Modules and Air Flow Regulators

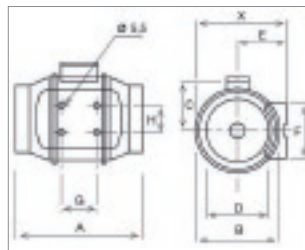


Inline blower modules:

- Provide or extract fresh air to 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



Modell 160



Modell 250 & 350

Modell	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 (W)	Air flow at free discharge	Maximum operating temperature	Sound pressure level* (dB(A))	Power supply	Ø Duct	Weight	Part No.
Inline extractor blower 160	II	2,500	20	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	140 m³/h, 82 cfm	40	21				
Inline extractor blower 250	II	2,200	24	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	180 m³/h, 106 cfm	40	26				
Inline extractor blower 350	II	2,250	30	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	280 m³/h, 165 cfm	40	28				

* 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	Part. No
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

Webasto BlueComfort ControlPad: Innovation to Touch

The Next Generation of Control Elements

This stand-alone comfort control system provides a central interface for the complete Webasto climate system. Operation and service of comfort systems has never been easier.

- Comfort of all cabins can be controlled centrally
- User-friendly interface with intuitive touch-screen panel
- Easy access to all system information for quick and easy service



Technical Specifications:

- 5.7" TFT colour display
- VGA resolution (640 x 480 pixel)
- Sunlight-readable (350 cd/m²)
- Connection ports for 2x CAN, Ethernet 10/100 Mbit, RS-232 and RS-422
- Waterproof front side (IP67) and housing (IP66)
- CE and RINA Certification
- Dimensions: 189 x 149 x 91 mm (L x W x H)*

* Bigger display sizes are available on request



Ease of operation

Customised to yacht

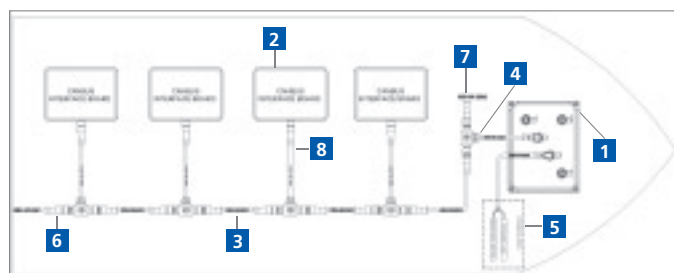
Fast installation

Multilingual menu

System information at a glance

Self-explaining diagnosis

Item	Part No.
1 BlueComfort ControlPad 5.7"	WBCL010126A
2 CANbus interface Kit	WBCL010127A
3 Main CANbus network cable M/F – 5 m	WBCL010250A
4 Main CANbus network cable M/F – 10 m	WBCL010251A
5 Main CANbus network cable M/F – 15 m	WBCL010252A
6 Main CANbus network cable M/F – 20 m	WBCL010253A
7 Main CANbus network cable M/F – 30 m	WBCL010254A
8 Drop CANbus to connect touch panel – 2 m	WBCL010255A
9 Power supply cable for touch panel – 2 m	WBCL010256A
10 Main CANbus network Female ending	WBCL010257A
11 Main CANbus network Male ending	WBCL010258A
12 Drop CANbus cable to connect interface card	WBCL010259A



Intuitive Control Elements for Perfect Climatisation on Board

NEW: Digital control panels with contemporary design



Air Control (BlueCool Classic)

The Webasto Digital Air Control Panel is part of a complete electronic control system including the TCC electronic controller card and connecting cables/sensors. In addition to the immediately available modes and information the following programmable functions can be accessed:

- Automatic/manual cycle switching cool/heat
- Cool cycle/heat cycle only operation
- Calibration of all temperature read-outs
- Automatic blanking of display
- Fine-tuning of all blower speed settings
- Choice between thermostatic and continuous blower control
- Possibility to connect 2nd slave WBCC unit including staged compressor start-up
- Automatic dehumidification cycle in absence of user
- Direct read-out of evaporator temperature
- Choice between manual blower speed control and automatic by temperature differential
- Optional infra-red remote control
- Access code possible for programming access.



Chiller Control (BlueCool Premium)

The complete Chiller Digital Control System includes a TECC controller card in alu box + Digital Chiller Control panel + cables and accessories. The Chiller Control panel allows direct read-out of chilled water temperature at the exit of the chiller condensing unit. In addition to the standard available modes and information, the following features can also be accessed:

- Key-board control, cool cycle only mode
- Key-board control, heat cycle only mode
- Key-board control, automatic cycle switching cool/heat
- Direct control over external heat-source integrated in the chilled water circuit
- Calibration of temperature read-outs
- Fine tuning of blower speed settings
- Choice between thermostatic and continuous blower control - 0 position blower control = blower halt
- TECC cards can control up to 4 compressors with staged compressor start-up
- Direct control chilled water circulation pump
- Modification of the high and low set-points chilled water circuit temperature
- Modification low-voltage cut-out settings
- Manual or automatic compressor start-up rotation to equalize running hours
- Direct control over each compressor running status directly from digital display
- All safety controls are micro-processor controlled with direct display of all error codes



Cabin Control (BlueCool Premium)

The Webasto Digital Cabin Control Panel is part of a complete electronic control system including the electronic controller card, connecting cables and sensors. In addition to the immediately available modes and information the following programmable functions can be accessed:

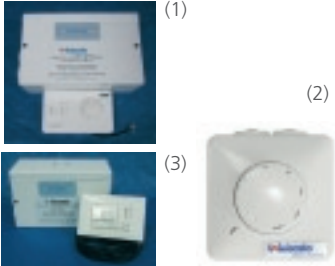

- Automatic/manual cycle switching cool/heat
- Cool cycle/heat cycle only operation
- Calibration of all temperature read-outs
- Automatic blanking of display
- Fine-tuning of all blower speed settings
- Choice between thermostatic and continuous blower control
- Direct read-out of air handler temperature
- Access code possible for programming access



Customize the Design:

In order to provide best customisation possibilities, Webasto Control Units for air conditioning are compatible with bezels of the Vimar series IDEA as well as the Bticino series LIVING INTERNATIONAL.

Accessories: Electronic Controls

		BlueCool Classic	BlueCool Premium	Part No.
	Digital Controls			
	chiller control, with WB Bezel	■		WBCL000827
	cabin control, with WB Bezel, 115 V*	■		WBCL000850
	cabin control, with WB Bezel, 230 V*	■		WBCL000373
	cabin control 230 V for electric heating option 500 – 1,500 W	■		WBCL000396A
	cabin control 230 V for electric heating option 1,750 – 4,500 W	■		WBCL000397A
	fresh air control 230 V for 24,000 BTU/h			WBCL000217
	fresh air control 230 V for 48,000 BTU/h			WBCL000221
* includes: alu box with PCB, cabin control, display cable 4,5 m, water temperature sensor 3 m				
	Remote Control			
	infrared remote control for digital controls	■	■	WBCL000854A
	Mechanical Controls			Part No.
	electronic thermostat 230 V with 3 speed control (3)		■	WBCL000394B
	mechanical thermostat 230 V with integrated 3 speed blower control (1)		■	WBCL000392B
	mechanical thermostat 115 V with integrated 3 speed blower control (1)		■	WBCL000851B
	mechanical blower speed control without thermostat (2)		■	WBCL010231A
	wall mounting frame for WBCL000394B			WBCL009655
	Electrical Accessories for Controls			Part No.
	display cable between TCC controller and digital panel – 4.5 m (1)	■		WBCL000815
	display cable between TCC controller and digital panel – 6 m (1)	■		WBCL000808
	display cable between TCC controller and digital panel – 12 m (1)	■		WBCL000809
	remote air temperature sensor with 3 m cable (2)	■	■	WBCL000813
	remote air temperature sensor with 6 m cable (2)	■	■	WBCL000810
	remote air temperature sensor with 12 m cable (2)	■	■	WBCL000812
	composite water temperature sensor with 3 m cable (2)*	■	■	WBCL000368B
	composite water temperature sensor with 6 m cable (2)*	■	■	WBCL000369B
	* to be used with TECC V3 cards only. For all V2 cards, please use metallic water sensors. Please refer to the spare part section.			
	Relay Box for AC Units with one Pump			Part No.
	relay box 2 WBCC – one pump – 230 V	■		WBCL001127
	relay box 3 WBCC – one pump – 230 V	■		WBCL001128
	relay box 4 WBCC – one pump – 230 V	■		WBCL001129
	relay box 2 WBCC – one pump – 115 V	■		WBCL001182
	relay box 3 WBCC – one pump – 115 V	■		WBCL001183
	relay box 4 WBCC – one pump – 115 V	■		WBCL001184

Please contact us if you want to combine more AC units with one pump.

Accessories: Pumps

Selfpriming Pumps



Model WB200



WB4000/5600/8000/10500

Pumps



WB250 to WB1000



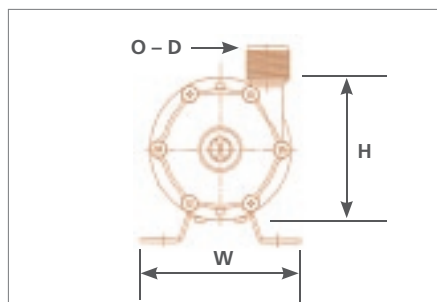
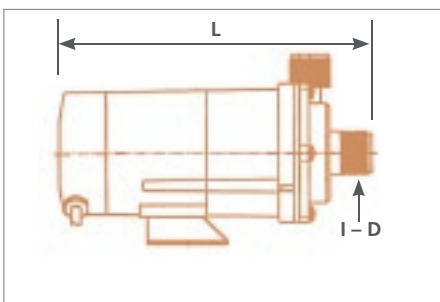
WB1500 to WB2000



WB3500 to 9800



WB2500G to 5500G



Selfpriming Pumps

Model	Dimensions L x W x H	Output	Running	Connection in, out	Weight	Max. Condensing	Part No. 230 V	Part No. 400 V
Selfpriming								
WB200*** variable output contains straight hose nipple 5/8", 16 mm and 90° adaptor for hose nipple	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	16,000 BTU/h 4.7 kW	WBCL001103B	
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(i) 3/4", G(i) 3/4"	6.5 kg 14.4 lbs	48,000 BTU/h 14.1 kW	WBCL001092A	
Selfpriming Calpeda 50 Hz								
WB4000***	504 x 215 x 270 mm 19.7 x 8.5 x 10.7 inch	250 (l/min) 66 (gpm)	730 W, 3.3 Amps (230 V) 1.6 Amps (400 V)	G(i) 2", G(i) 1/2"	9 kg 19.9 lbs	144,000 BTU/h 42.2 kW	WBCL001160*	WBCL001161
WB5600***	530 x 215 x 270 mm 20.9 x 8.5 x 10.7 inch	300 (l/min) 80 (gpm)	1,200 W, 5.4 Amps (230 V) 2.2 Amps (400 V)	G(i) 2", G(i) 1/2"	12.2 kg 26.9 lbs	300,000 BTU/h 87.9 kW	WBCL001162*	WBCL001163
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(i) 2", G(i) 2"	19 kg 41.9 lbs	450,000 BTU/h 131.9 kW		WBCL001164
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(i) 2", G(i) 2"	21 kg 46.3 lbs	650,000 BTU/h 190.4 kW		WBCL001165

*** can only be used for sea water cooling, not for chiller water circulation

Pumps

Model	Dimensions L x W x H	Output	Running	Connection in, out	Weight	Max. Chil/ Loop	Max. Condensing	Part No. 115 V	Part No. 230 V	Part No. 400 V
Iwaki 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	N/A	9,000 BTU/h 3.6 kW	WBCL001301	WBCL001104	
	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" G 3/4"	1.6 kg 3.3 lbs	N/A	9,000 BTU/h 3.6 kW		WBCL010799A*	
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	N/A	24,000 BTU/h 7.1 kW	WBCL001302	WBCL001105	
	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" G 3/4"	2 kg 4.4 lbs	N/A	24,000 BTU/h 7.1 kW		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" G 3/4"	3.5 kg 7.8 lbs	N/A	36,000 BTU/h 10.6 kW		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" G 3/4"	3.5 kg 7.8 lbs	N/A	36,000 BTU/h 10.6 kW		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" G 3/4"	3.9 kg 8.6 lbs	24,000 BTU/h 7.1 kW	48,000 BTU/h 14.1 kW	WBCL001303	WBCL001106	
	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" G 3/4"	3.9 kg 8.6 lbs	24,000 BTU/h 7.1 kW	48,000 BTU/h 14.1 kW		WBCL0010820A*	
WB1500	258 x 130 x 155 mm 10.2 x 5.2 x 6.1 inch	86 (l/min) 22.7 (gpm)	235 W, 2.42 Amps (115 V) 1.21 Amps (230 V)	G 1" G 1"	6 kg 13.2 lbs	60,000 BTU/h 17.6 kW	72,000 BTU/h 21.1 kW	WBCL001304	WBCL001107	
	258 x 130 x 155 mm 10.2 x 5.2 x 6.1 inch	86 (l/min) 22.7 (gpm)	235 W, 2.42 Amps (115 V) 1.21 Amps (230 V)	G 1" G 1"	6 kg 13.2 lbs	60,000 BTU/h 17.6 kW	72,000 BTU/h 21.1 kW		WBCL0010830A*	
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 (230V)	G 1" G 1"	8.5 kg 18.8 lbs	84,000 BTU/h 24.7 kW	96,000 BTU/h 28.2 kW		WBCL001108	
	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" G 1"	8.5 kg 18.8 lbs	84,000 BTU/h 24.7 kW	96,000 BTU/h 28.2 kW		WBCL0010840A*	
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" 1 1/2"	14 kg 30.9 lbs	144,000 BTU/h 42.2 kW	144,000 BTU/h 42.2 kW		WBCL001109	WBCL001111
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" 1 1/2"	22 kg 48.5 lbs	250,000 BTU/h 73.3 kW	300,000 BTU/h 87.9 kW		WBCL001110	WBCL001112
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" G 1 1/2"	25 kg 55.2 lbs	450,000 BTU/h 131.9 kW	500,000 BTU/h 146.5 kW		WBCL010121A	WBCL001138
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" G 1 1/2"	32 kg 70.5 lbs	520,000 BTU/h 152.4 kW	600,000 BTU/h 175.8 kW			WBCL001139
Iwaki Pump Kits Pump; kits include white painted pumps, threaded hose connections and self-priming tank										
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" G 3/4"	3.5 kg 7.8 lbs	N/A	24,000 BTU/h 7.1 kW		WBCL0010811A	
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" G 3/4"	4.5 kg 10 lbs	N/A	48,000 BTU/h 14.1 kW		WBCL0010821A	
WB1500	250 x 156 x 168 mm 9.9 x 6.2 x 6.7 inch	86 (l/min) 22.7 (gpm)	235 W, 2.42 Amps (115 V) 1.21 Amps (230 V)	G 1" G 1"	7.5 kg 16.6 lbs	N/A	72,000 BTU/h 21.1 kW		WBCL0010831A	
Calpeda 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(i) 2" G(i) 1 1/4"	23 kg 50.7 lbs	450,000 BTU/h 131.9 kW	N/A			WBCL001136
Calpeda 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(i) 2" G(i) 1 1/4"	23 kg 50.7 lbs	450,000 BTU/h 131.9 kW	N/A			WBCL001137
Gianneschi 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(i) 1" G(i) 1"	9 Kg 19.9 lbs	84,000 BTU/h 24.7 kW	108,000 BTU/h 31.7 kW		WBCL001170	
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(i) 1" G(i) 1"	10 Kg 22.1 lbs	100,000 BTU/h 29.3 kW	144,000 BTU/h 42.2 kW		WBCL001171	WBCL001172
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(i) 1 1/2" G(i) 1 1/2"	17 Kg 37.5 lbs	250,000 BTU/h 73.3 kW	336,000 BTU/h 98.5 kW		WBCL001173	WBCL001174

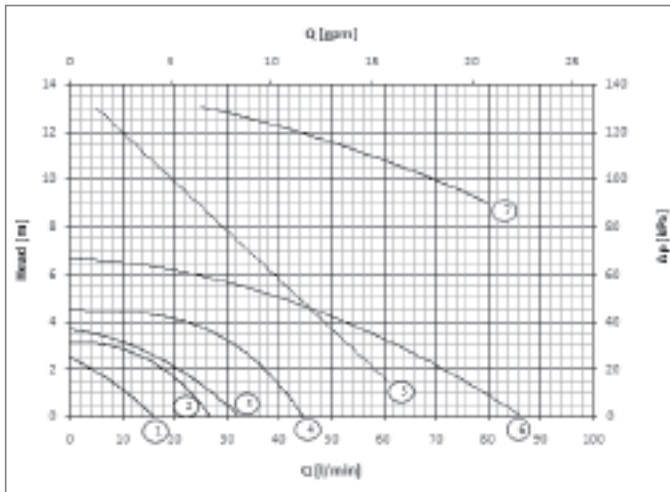
* white painted version with threaded hose connections ** can only be used for chiller water circulation, not for sea water cooling.

Accessories: Pumps

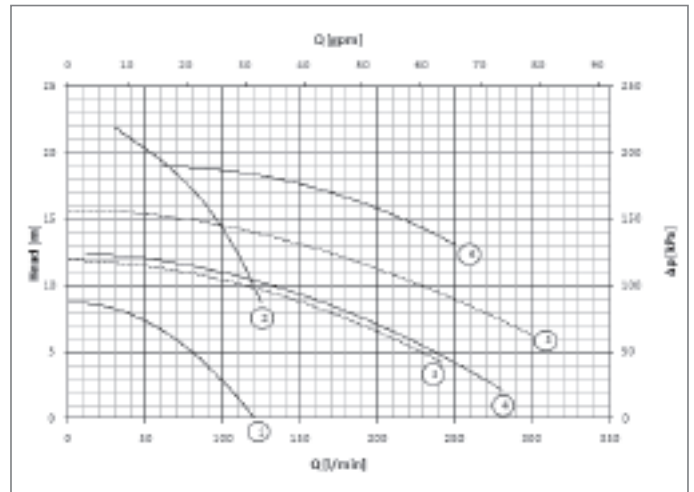
In order to ensure the necessary water flow in your application, please respect the pump curves:

- By measuring the pressure difference in between inlet and outlet of the pump, the overall flow through the system can be determined by using the provided pump curves (Graphic 1 – 5)
- Operating the pumps outside the limits of the pump curves may result in motor overload or cavitation. These cases are excluded from Webasto warranty.
- The pump models WB 1000 G, as well as WB 500, WB 1000, WB 1500 with self-priming tank have to be pre-filled before the first start-up and after long downtimes.

50 Hz water pump curves



--- Centrifugal - - - Self-priming



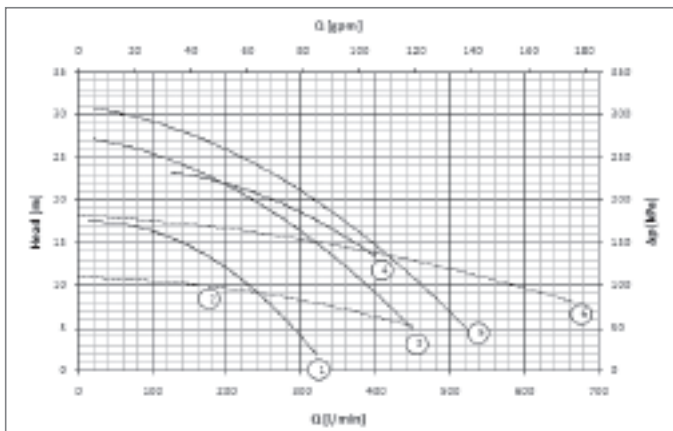
--- Centrifugal - - - Self-priming

Graphic 1	50 Hz up to 100 l/min.
1	WB 250
2	WB 350
3	WB 500
4	WB 1000
5	WB 1000 G
6	WB 1500
7	WB 2500 G

Graphic 2	50 Hz up to 300 l/min.
1	WB 2000
2	WB 3000 G
3	WB 4000
4	WB 3500
5	WB 5600
6	WB 5500 G



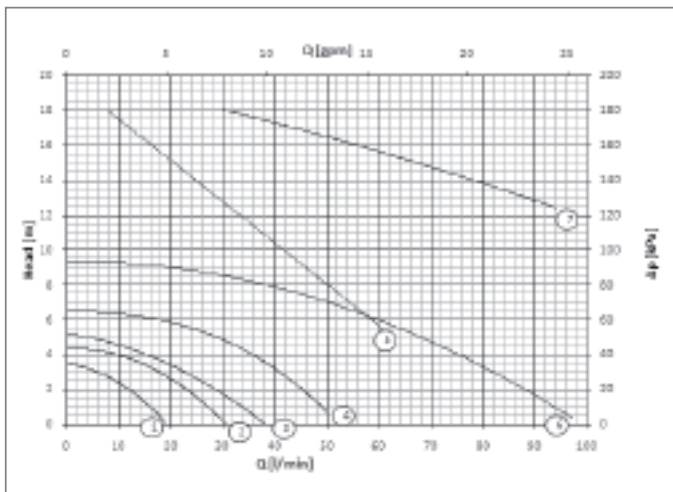
50 Hz water pump curves (continued)



--- Centrifugal - - - Self-priming

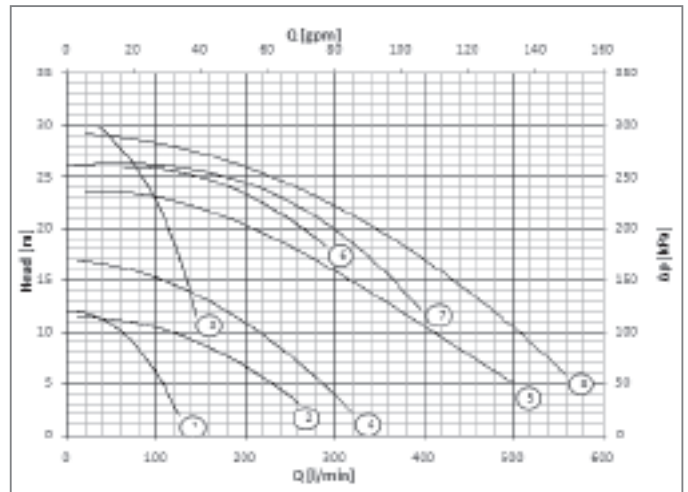
Graphic 3	50 Hz up to 700 l/min.
1	WB 5500
2	WB 8000
3	WB 7400
4	WB 7500
5	WB 9800
6	WB 10500

60 Hz water pump curves



--- Centrifugal - - - Self-priming

Graphic 4	60 Hz up to 100 l/min.
1	WB 250
2	WB 350
3	WB 500
4	WB 1000
5	WB 1000 G
6	WB 1500
7	WB 2500 G



--- Centrifugal - - - Self-priming

Graphic 5	60 Hz up to 700 l/min.
1	WB 2000
2	WB 3500
3	WB 3000 G
4	WB 5500
5	WB 7400
6	WB 5500
7	WB 7500
8	WB 9800

Accessories: Air System

Functioning Principals

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

Air Handler WBCC Model	Supply Air Grille		Return Air Grille		Duct diam. < 2 m duct length	Duct diam. > 2 m duct length
	Model	section cm ²	Model	section cm ²		
4,000; 4,500 BTU/h	1 x 8 x 4"	150 cm ²	1 x 12 x 5"	325 cm ²	80 mm	100 mm
6,000 BTU/h	1 x 10 x 4"	190 cm ²	1 x 11 x 8"	490 cm ²	100 mm	125 mm
9,000 BTU/h	1 x 12 x 4"	235 cm ²	1 x 11 x 8"	490 cm ²	100 mm	125 mm
12,000 BTU/h	1 x 10 x 5"	250 cm ²	1 x 14 x 7"	550 cm ²	125 mm	150 mm
16,000 BTU/h	1 x 12 x 6"	390 cm ²	1 x 14 x 10"	800 cm ²	125 mm	150 mm
or 16,000 BTU/h	2 x 10 x 4"	380 cm ²			125 mm	150 mm
20,000 BTU/h	1 x 12 x 6"	390 cm ²	1 x 14 x 10"	800 cm ²	125 mm	150 mm
24,000 BTU/h	2 x 10 x 5"	500 cm ²	1 x 14 x 12"	1,000 cm ²	2 x 125 mm	2 x 150 mm
30,000 BTU/h	2 x 12 x 5"	650 cm ²	2 x 14 x 10"	1,600 cm ²	2 x 125 mm	2 x 150 mm
48,000 BTU/h	4 x 10 x 5"	1,000 cm ²	2 x 14 x 12"	2,000 cm ²	2 x 125 mm	2 x 150 mm

- 2 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.
- 3 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.
- 4 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 airducts.
- 5 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.

In order to customise the wooden air grilles at page 97, 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	Suffix	Wood Type	Decription
0	Teak	Asian Teak	7	Maple	American soft Maple
1	Cherry	American Cherry	8	Beech	American Beech
2	Mahogany	Honduran Mahogany	9	Cedar	Spanish Cedar
3	Ash	American white Ash	10	Makore	African Cherry
4	Oak	American white Oak	11	Hickory	American Hickory
5	Walnut	American black Walnut	12	Jatoba	Brazilian Jatoba
6	Poplar	American Poplar			









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

Accessories: Air Grilles

Air grille*	Model	L1	L2	W1	W2	Part No.
	8 x 4 TS (supply air)	202	230	100	128	WBCL004000X
	10 x 4 TS	252	281	100	128	WBCL004001X
	12 x 4 TS	304	332	100	128	WBCL004002X
	10 x 5 TS	252	281	125	152	WBCL004018X
	12 x 5 TS	304	332	125	152	WBCL004004X
	12 x 6 TS	304	332	152	179	WBCL004024
Wedge type supply air grille*	Model	L1	L2	W1	W2	Part No.
	10 x 5 WGT (supply air)	–	280	–	150	WBCL004023X
Air grille, closeable*	Model	L1	L2	W1	W2	Part No.
	8 x 4 TSC (supply air)	202	230	100	128	WBCL004005X
	10 x 4 TSC	252	281	100	128	WBCL004019X
	12 x 4 TSC	304	332	100	128	WBCL004006X
	10 x 5 TSC	252	281	125	152	WBCL004022X
	12 x 5 TSC	304	332	125	152	WBCL004025X
Air grille with filter*	Model	L1	L2	W1	W2	Part No.
	12 x 5 TR (return air)	304	332	125	152	WBCL004020X
	11 x 8 TR	280	306	204	230	WBCL004017X
	14 x 7 TR	177	205	355	381	WBCL004007X
	12 x 10 TR	304	332	254	281	WBCL004021X
	14 x 10 TR	354	382	254	281	WBCL004008X
	14 x 12 TR	354	382	304	332	WBCL004009X
Air grille (ABS)	Model	L1	L2	W1	W2	Part No.
	10 x 4 PS (ABS, supply air)	242	280	92	128	WBCL004030
	12 x 4 PS	292	332	92	128	WBCL004031
	10 x 5 PS	242	280	115	152	WBCL004032
	10 x 6 PS	242	280	138	174	WBCL004033
Air grille (ABS) with filter	Model	L1	L2	W1	W2	Part No.
	10 x 8 PR (ABS, return air)	242	281	190	232	WBCL004076
	10 x 10 PR	242	281	242	281	WBCL004077
	12 x 12 PR	292	332	292	332	WBCL004078
	14 x 10 PR	342	382	242	281	WBCL004080
	14 x 12 PR	342	382	292	332	WBCL004081
Adaptable, round plastic grille	Model	L1	L2	W1	W2	Part No.
	Black	Round, adjustable plastic grille 100 mm				WBCL004090
	Walnut brown	Round, adjustable plastic grille 100 mm				WBCL004091
	White	Round, adjustable plastic grille 100 mm				WBCL004092
	Off-white	Round, adjustable plastic grille 100 mm				WBCL004093
	White	Round, adjustable plastic grille 75 mm				WBCL004094
	White	Round, adjustable plastic grille 75 mm with hose ring				WBCL004095
	Black	Round, adjustable plastic grille 75 mm with hose ring				WBCL004096
	Black	Round, adjustable plastic grille 75 mm				WBCL004097

* Note: All teak grilles can be supplied in other wood qualities on demand. Please see table on page 100 listing the special suffixes to the chosen grille item code in accordance with the wood type preference.

Accessories: Air System

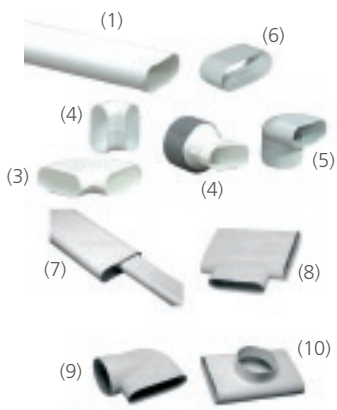
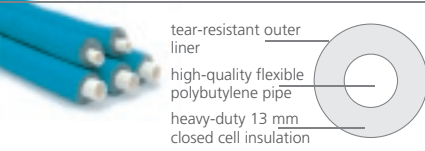
T-piece (inside)	Model	D1/D2/D3	L x H		Part No.
	100/100F/100	100/100F/100	220 x 185 mm		WBCL001549
	100/125F/100	125/100F/100	220 x 185 mm		WBCL001560
	125/125F/100	125/125F/100	220 x 185 mm		WBCL001550
	125/125F/125	125/125F/125	220 x 185 mm		WBCL001555
T-piece (outside)	Model	D1/D2/D3	L x H		Part No.
	100/100M/100	100/100M/100	220 x 185 mm		WBCL001551
	100/125M/100	100/125M/100	220 x 185 mm		WBCL001552
Standard transition box	Model		L x H	W	Part No.
	8 x 4"		252 x 130 mm	150 mm	WBCL001501
	10 x 4"		304 x 130 mm	150 mm	WBCL001502
	12 x 4"		352 x 130 mm	150 mm	WBCL001503
	12 x 5"		352 x 130 mm	180 mm	WBCL001505
	10 x 5"		304 x 130 mm	180 mm	WBCL001506
	12 x 6"		352 x 130 mm	200 mm	WBCL001507
	10 x 6"		304 x 130 mm	200 mm	WBCL001508
Standard hose rings	Model	D		W	Part No.
	HR4 – 100 mm	100 mm		134 mm	WBCL002502
	HR5 – 125 mm	125 mm		150 mm	WBCL002503
	HR6 – 150 mm	150 mm		170 mm	WBCL002504
	HR7 – 178 mm	175 mm		200 mm	WBCL002509
Connection adaptor for Select	Model	D	L x B x H (mm)		Part No.
	80 mm	80 mm	110 x 110 x 40		WBCL007420
	100 mm	100 mm	110 x 110 x 40		WBCL007421
Oval hose rings	Model	D x W2	L x H	W1/W2	Part No.
	HO4 – 100*	120 x 55 mm	170 mm	100/55 mm	WBCL002505
	HO5 – 125*	150 x 65 mm	195 mm	110/65 mm	WBCL002506
	HO6 – 150*	180 x 72 mm	228 mm	120/72 mm	WBCL002507
	HO7 – 175*	200 x 84 mm	255 mm	140/84 mm	WBCL002508
Transition box, round entry	Model	D	L x H	W	Part No.
	8 x 4LN/100*	100 mm	250 x 130 mm	150 mm	WBCL001520
	10 x 4LN/100*	100 mm	305 x 130 mm	150 mm	WBCL001521
	12 x 4LN/100*	100 mm	360 x 130 mm	150 mm	WBCL001522
	10 x 5LN/125*	125 mm	304 x 130 mm	180 mm	WBCL001523
Transition box, lateral oval entry	Model	D x W2	L x H	W	Part No.
	8 x 4LT/OV100*	120 x 55 mm	250 x 130 mm	155 mm	WBCL001510
	10 x 4LT/OV100*	120 x 55 mm	305 x 130 mm	155 mm	WBCL001530
	10 x 4LT/OV125*	150 x 65 mm	305 x 130 mm	155 mm	WBCL001529
	12 x 4LT/OV125*	150 x 65 mm	305 x 130 mm	180 mm	WBCL001528

* equivalent diameter of air ducting in mm.

Accessories: Air System

Transition box, direct oval entry	Model	D x W2	L x H	W	Part No.
	8 x 4AR/OV100*	120 x 55 mm	250 x 180 mm	155 mm	WBCL001524
	10 x 4AR/OV100*	120 x 55 mm	305 x 180 mm	155 mm	WBCL001525
	10 x 4AR/OV125*	150 x 65 mm	305 x 180 mm	155 mm	WBCL001531
	10 x 5AR/OV125*	150 x 65 mm	305 x 180 mm	180 mm	WBCL001526
Y-piece	Model	D/D1/D2	L x H		Part No.
	YAS100	100/100/100	320 x 255 mm		WBCL001562
	YAS125	125/125/125	360 x 300 mm		WBCL001563
	YAS125/100	125/100/100	380 x 255 mm		WBCL001561
	YAS125/125/100	125/125/100	380 x 300 mm		WBCL001564
	YAS100/80/80	-	-		WBCL001548
Insulated flexible air ducts	Model	D	L		Part No.
	80 mm	IN = 80; A = 105	L = 6 m		WBCL007460
	100 mm	IN = 100; A = 128	L = 6 m		WBCL007461
	125 mm	IN = 125; A = 145	L = 6 m		WBCL007462
Standard flexible air ducts	Model	D	L		Part No.
	Cflex 102 mm	102 mm	10 m		WBCL001804
	Cflex 127 mm	127 mm	10 m		WBCL001805
	Cflex 150 mm	150 mm	10 m		WBCL001806
Insulated flexible air ducts	Model	D	L		Part No.
	Cflexlso 102	102 mm	10 m		WBCL001807
	Cflexlso 127	127 mm	10 m		WBCL001808
	Cflexlso 152	152 mm	10 m		WBCL001809
Tubular hose insulation	Model	D	L		Part no.
	Isosleeve 102	102 mm	10 m		WBCL001810
	Isosleeve 127	127 mm	10 m		WBCL001811
	Isosleeve 152	152 mm	10 m		WBCL001812
	Isosleeve 180	180 mm	10 m		WBCL001813
Extra silent insulated air ducts		D	L		Part no.
		102 mm	10 m		WBCL010155A
		127 mm	10 m		WBCL010156A
		160 mm	10 m		WBCL010206A

Accessories: Air System / Water System

Oval ducts	Description	Model	L	Order No.
	oval duct (1)	100 x 40 mm	3 m	WBCL007100
	oval duct (1)	200 x 60 mm	3 m	WBCL007106
	elbow 90° (2)	100 x 40 mm	–	WBCL007105
	elbow 90° (2)	200 x 60 mm	–	WBCL007108
	elbow. 90° – flat (3)	100 x 40 mm	–	WBCL007104
	elbow 90° – flat (3)	200 x 60 mm	–	WBCL007111
	junction oval/round (4)	100 x 40/100 mm	–	WBCL007102
	junction oval/round (4)	100 x 40/80 mm	–	WBCL007117
	junction oval/round (4)	200 x 60/125 mm	–	WBCL007109
	junction oval/round (5)	100 x 40/100 mm	–	WBCL007103
	junction oval/round (5)	200 x 60/125 mm	–	WBCL007110
	junction oval (6)	100 x 40 mm	–	WBCL007101
	junction oval (6)	200 x 60 mm	–	WBCL007107
reduction (7)	200 to 100 mm	–	WBCL007112	
oval t (8)	200 x 60 mm	–	WBCL007114	
adapter oval/round (9)	200 x 60/125 mm	–	WBCL007115	
oval/round t (10)	200 x 60/125 mm	–	WBCL007116	
	Chilled water tubes Webasto EasyPipe			Part No.
	d15/D41 mm – 50 m			WBCL010122A
	d22/D48 mm – 25 m			WBCL010123A
	d28/D54 mm – 25 m			WBCL010124A

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 locking
- Sold in rolls to be cut to length









Water System

	Description	Model	Packaging	Order No.
	Hep,O® Barrier Pipe	15	L = 50 mtr	WBCL010300A
	Polybutylen pipe for warm + cold water	22	L = 50 mtr	WBCL010301A
	order pipe by unit (coil) not meter	28	L = 25 mtr	WBCL010302A
	Hep,O® Barrier Pipe Blue Conduit	15	L = 50 mtr	WBCL010303A
	order pipe by unit (coil) not by meter	22	L = 50 mtr	WBCL010304A








Accessories: Water System

	Description	Model	Packaging	Order No.
	hep ₂ O® Barrier Pipe Red Conduit	15	L = 50 mtr	WBCL010305A
	order pipe by unit (coil) not by meter	22	L = 50 mtr	WBCL010306A
	straight connector	15	10 pieces	WBCL010307A
	straight connector	22	10 pieces	WBCL010308A
	straight connector	28	10 pieces	WBCL010309A
	elbow 90°	15	10 pieces	WBCL010325A
	elbow 90°	22	10 pieces	WBCL010326A
	elbow 90°	28	10 pieces	WBCL010327A
	equal tee	15 x 15 x 15	10 pieces	WBCL010337A
	equal tee	22 x 22 x 22	10 pieces	WBCL010338A
	equal tee	28 x 28 x 28	10 pieces	WBCL010342A
	end reduced tee	22 x 22 x 15	5 pieces	WBCL010339A
	double end reduced tee	22 x 15 x 22	5 pieces	WBCL010340A
	branch reduced tee	22 x 15 x 15	5 pieces	WBCL010341A
	branch reduced tee	28 x 15 x 28	5 pieces	WBCL010343A
	branch reduced tee	28 x 28 x 22	5 pieces	WBCL010344A
	branch reduced tee	28 x 22 x 28	5 pieces	WBCL010345A
	double spigot reducer	28 x 22	5 pieces	WBCL010347A
	socket reducer	22 x 15	10 pieces	WBCL010379A
	socket reducer	28 x 22	10 pieces	WBCL010380A
	straight tap connector	15 x 1/2"	10 pieces	WBCL010316A
	straight tap connector	15 x 3/4"	5 pieces	WBCL010317A
	straight tap connector	22 x 3/4"	5 pieces	WBCL010318A
	bent tap connector	15 x 1/2"	10 pieces	WBCL010328A







Accessories: Water System

	Description	Model	Packaging	Order No.
	brass female adaptor	15 x 1/2"	10 pieces	WBCL010310A
	brass female adaptor	22 x 3/4"	10 pieces	WBCL010312A
	brass female adaptor	28 x 1"	10 pieces	WBCL010314A
	brass male adaptor	15 x 1/2"	10 pieces	WBCL010311A
	brass male adaptor	22 x 3/4"	10 pieces	WBCL010313A
	brass male adaptor	28 x 1"	10 pieces	WBCL010315A
	brass elbow 90° female	15 x 1/2"	5 pieces	WBCL010329A
	brass elbow 90° female	22 x 3/4"	5 pieces	WBCL010331A
	brass elbow 90° female	28 x 1"	2 pieces	WBCL010333A
	brass elbow 90° male	15 x 1/2"	5 pieces	WBCL010330A
	brass elbow 90° male	22 x 3/4"	5 pieces	WBCL010332A
	brass elbow 90° male	28 x 1"	2 pieces	WBCL010334A
	brass spigot adaptor female	15 x 1/2"	10 pieces	WBCL010319A
	brass spigot adaptor female	22 x 3/4"	10 pieces	WBCL010321A
	brass spigot adaptor female	28 x 1"	10 pieces	WBCL010323A
	brass spigot adaptor male	15 x 1/2"	10 pieces	WBCL010320A
	brass spigot adaptor male	22 x 3/4"	10 pieces	WBCL010322A
	brass spigot adaptor male	28 x 1"	10 pieces	WBCL010324A
	brass ball valve	15	2 pieces	WBCL010353A
	brass ball valve	22	2 pieces	WBCL010354A
	shut-off valve hot / cold	15	5 pieces	WBCL010375A

Accessories: Water System

	Description	Model	Packaging	Order No.
	brass draincock	15	10 pieces	WBCL010352A
	wall plate	15 x 1/2"	5 pieces	WBCL010360A
	wall plate	22 x 3/4"	5 pieces	WBCL010361A
	stop end	15	10 pieces	WBCL010350A
	stop end	22	10 pieces	WBCL010351A
	cold forming bend fixture	15	5 pieces	WBCL010335A
	cold forming bend fixture	22	5 pieces	WBCL010336A
	pipe support sleeve	15	10 pieces	WBCL010362A
	pipe support sleeve	22	10 pieces	WBCL010364A
	pipe support sleeve	28	5 pieces	WBCL010366A
	copper pipe end protector	15	10 pieces	WBCL010363A
	copper pipe end protector	22	10 pieces	WBCL010365A
	wedge removal tool	15	10 pieces	WBCL010376A
	wedge removal tool	22	10 pieces	WBCL010377A
	wedge removal tool	28	5 pieces	WBCL010378A
	o-ring	15	10 pieces	WBCL010370A
	o-ring	22	10 pieces	WBCL010371A
	o-ring	28	10 pieces	WBCL010372A

Accessories: Water System

	Description	Model	Packaging	Order No.
	grab wedge	15	10 pieces	WBCL010367A
	grab wedge	22	10 pieces	WBCL010368A
	grab wedge	28	10 pieces	WBCL010369A
	pipe clips – screw type	15	10 pieces	WBCL010355A
	pipe clips – screw type	22	10 pieces	WBCL010356A
	pipe clips – screw type	28	10 pieces	WBCL010357A
	pipe clip – spacers	15	10 pieces	WBCL010358A
	pipe clip – spacers	22	10 pieces	WBCL010359A
	pipe clamp with clip for dia. 15 mm	40	1 piece	WBCL002801
	pipe clamp with clip for dia. 22 mm	50	1 piece	WBCL002802
	pipe clamp with clip for dia. 28 mm	63	1 piece	WBCL002803
	demountable stop-end	15	10 pieces	WBCL010348A
	demountable stop-end	22	10 pieces	WBCL010349A
	obtuse bend 135° – single socket	15	10 pieces	WBCL010381A
	pipe cutter 10 – 28 mm standard		1 piece	WBCL010373A
	pipe cutter 10 – 28 mm professional		1 piece	WBCL010374A

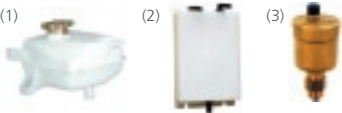

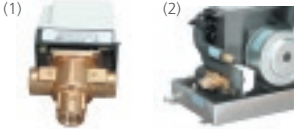

Important Note:

ALL FITTINGS ARE PRE-LUBRICATED – NO ADDITIONAL LUBRICATION REQUIRED.

If the fitting is demounted and remade, the use of Hep₂O Silicone Lubricant Spray (HX200) is recommended.

HX200 is the only lubricant recommended for use with Hep₂O.

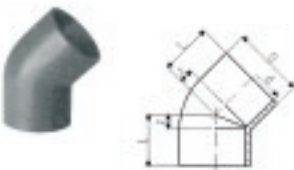
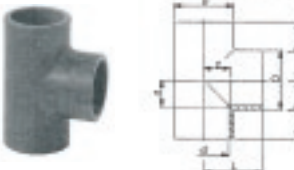
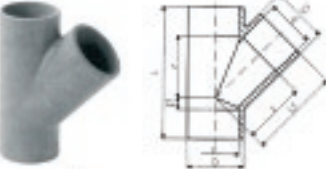
Accessories: Water System

	<p>Expansion tank</p> <p>model 2,5 liter (1)</p> <p>model 8 liter (2)</p> <p>automatic air bleeder (3) for chiller circuits, 5/8" = 15 mm</p>	<p>Part No.</p> <p>WBCL002030</p> <p>WBCL002031</p> <p>WBCL002035</p>
	<p>TA Hydronics flow regulators</p> <p>model STAD-15 – diameter 15 mm (5/8")</p> <p>model STAD-20 – diameter 20 mm (3/4")</p> <p>model STAD-25 – diameter 25 mm (1")</p> <p>model STAD-32 – diameter 32 mm (1,25")</p> <p>model STAD-40 – diameter 40 mm (1,5")</p> <p>model STAD-50 – diameter 50 mm (2")</p>	<p>Part No.</p> <p>WBCL002100</p> <p>WBCL002101</p> <p>WBCL002102</p> <p>WBCL002103</p> <p>WBCL002104</p> <p>WBCL002105</p>
	<p>3-Way valve</p> <p>3-way valve 25 mm (1") without fitting (1)</p> <p>3-way valve 15 mm (5/8") without fitting (1)</p> <p>3-way valve 20 mm (3/4") without fitting (1)</p> <p>3-way valve 15 mm (5/8") with fitting (2)</p> <p>3-way valve 20 mm (3/4") with fitting (2)</p>	<p>Part No.</p> <p>WBCL009433B</p> <p>WBCL009434B</p> <p>WBCL009432B</p> <p>on request</p> <p>on request</p>
	<p>Turn ball valve</p> <p>1/4 turn ball valve – diameter 12 mm</p> <p>1/4 turn ball valve – diameter 15 mm</p> <p>1/4 turn ball valve – diameter 20 mm</p> <p>1/4 turn ball valve – diameter 25 mm</p>	<p>Part No.</p> <p>WBCL002015</p> <p>WBCL002016</p> <p>WBCL002017</p> <p>WBCL002018</p>

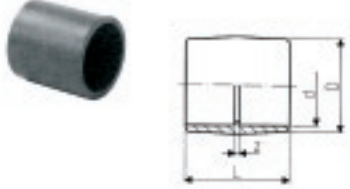
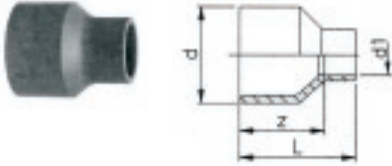

Accessories: Water System

		Chilled water hoses and accessories				Part No.
	hose D12 with insulation 9 x 18 mm – 25 m (1)				WBCL002001	
	hose D15 with insulation 9 x 22 mm – 25 m (1)				WBCL002002	
	hose D20 with insulation 9 x 28 mm – 25 m (1)				WBCL002003	
	hose D25 with insulation 9 x 35 mm – 25 m (1)				WBCL001999	
	hose D12 without insulation – 25 m (2)				WBCL002004	
	hose D15 without insulation – 25 m (2)				WBCL002005	
	hose D20 without insulation – 25 m (2)				WBCL002006	
	hose D25 without insulation – 25 m (2)				WBCL002000	
	tubular insulation for D12; 9 x 18 mm – 2 m (4)				WBCL002007	
	tubular insulation for D15; 9 x 22 mm – 2 m (4)				WBCL002008	
	tubular insulation for D20; 9 x 28 mm – 2 m (4)				WBCL002009	
	tubular insulation for D25; 9 x 35 mm – 2 m (4)				WBCL002829	
	adhesive foam, 50 mm wide – 9.1 m roll (5)				WBCL001998	
	t-piece 19-19-19 for hose D20 (3)				WBCL002011	
	t-piece 19-15-19 for reduction D20 – D15 (3)				WBCL002012	
t-piece 19-12-19 for reduction D20 – D12 (3)				WBCL002013		
t-piece 15-12-15 for reduction D15 – D12 (3)				WBCL002014		
t-piece 15-15-15 for hose D15 (3)				WBCL002019		
t-piece 19-16-16 (3)				WBCL002023		
ABS tubes	Da (d)	D (d-e)	Weight	Length	Part No.	
	20 mm	16.6 mm	0.10 kg/m	2.5	WBCL002510	
	25 mm	21.2 mm	0.16 kg/m	2.5	WBCL002511	
	32 mm	27.6 mm	0.208 kg/m	2.5	WBCL002512	
	40 mm	34.6 mm	0.336 kg/m	2.5	WBCL002513	
	50 mm	43.4 mm	0.528 kg/m	2.5	WBCL002514	
	63 mm	54.4 mm	0.827 kg/m	2.5	WBCL002515	
	75 mm	65.2 mm	1.20 kg/m	2.5	WBCL002516	
	90 mm	78.0 mm	1.68 kg/m	2.5	WBCL002517	
ABS elbow long	Di	Da	Weight	Length (L)	Length (z)	Part No.
	20 mm	27 mm	0.027 kg	58 mm	40 mm	WBCL002539
	25 mm	35 mm	0.038 kg	71 mm	50 mm	WBCL002540
	32 mm	38 mm	0.051 kg	88 mm	64 mm	WBCL002541
	40 mm	54 mm	0.194 kg	109 mm	80 mm	WBCL002542
	50 mm	61 mm	0.206 kg	131 mm	100 mm	WBCL002543
	63 mm	76 mm	0.387 kg	163 mm	126 mm	WBCL002544
	75 mm	90 mm	0.585 kg	194 mm	150 mm	WBCL002545
	90 mm	113 mm	0.75 kg	231 mm	180 mm	WBCL002546
ABS elbow short	Di	Da	Weight	Length (L)	Length (z)	Part No.
	20 mm	27 mm	0.019 kg	29 mm	13 mm	WBCL002559
	25 mm	34 mm	0.032 kg	34 mm	16 mm	WBCL002560
	32 mm	39 mm	0.040 kg	39 mm	17 mm	WBCL002561
	40 mm	52 mm	0.076 kg	48 mm	22 mm	WBCL002562
	50 mm	62 mm	0.104 kg	56 mm	26 mm	WBCL002563
	63 mm	78 mm	0.205 kg	69 mm	32 mm	WBCL002564
	75 mm	89 mm	0.395 kg	83 mm	40 mm	WBCL002565
	90 mm	110 mm	0.570 kg	97 mm	46 mm	WBCL002566

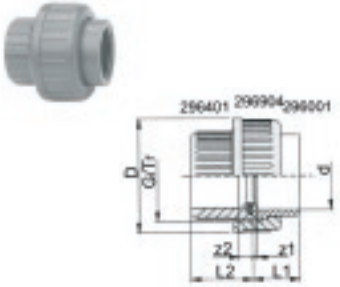
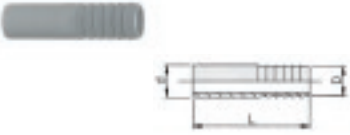
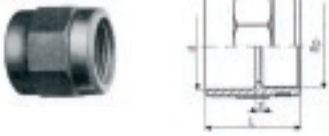
Accessories: Water System

ABS elbow 45°	Di (d)	Da (D)	Weight	Length (L)	Length (z)	Part No.	
	20 mm	27 mm	0.019 kg	24 mm	8 mm	WBCL002579	
	25 mm	33 mm	0.029 kg	29 mm	10 mm	WBCL002580	
	32 mm	41 mm	0.046 kg	34 mm	12 mm	WBCL002581	
	40 mm	51 mm	0.082 kg	40 mm	14 mm	WBCL002582	
	50 mm	63 mm	0.121 kg	41 mm	10 mm	WBCL002583	
	63 mm	78 mm	0.115 kg	51 mm	14 mm	WBCL002584	
	75 mm	87 mm	0.200 kg	61 mm	17 mm	WBCL002585	
90 mm	109 mm	0.521 kg	72 mm	21 mm	WBCL002586		
T-piece 90°	Di (d)	Da (d/e)	Weight	Length (L)	Length (z)	Part No.	
	25 mm	35 mm	0.050 kg	37 mm	18 mm	WBCL002600	
	32 mm	43 mm	0.075 kg	43 mm	21 mm	WBCL002601	
	40 mm	53 mm	0.180 kg	51 mm	22 mm	WBCL002602	
	50 mm	61 mm	0.1404 kg	58 mm	27 mm	WBCL002603	
	63 mm	77 mm	0.265 kg	72 mm	34 mm	WBCL002604	
	75 mm	92 mm	0.442 kg	84 mm	40 mm	WBCL002605	
90 mm	110 mm	0.755 kg	97 mm	46 mm	WBCL002606		
Y-piece 45°	Di (d)	Da (D)	Weight	Length (L)	(L1)	(z)	Part No.
	20 mm	27 mm	0.028 kg	68 mm	46 mm	30 mm	WBCL002614
	25 mm	33 mm	0.043 kg	83 mm	55 mm	36 mm	WBCL002615
	32 mm	41 mm	0.072 kg	99 mm	67 mm	45 mm	WBCL002616
	40 mm	50 mm	0.119 kg	118 mm	82 mm	56 mm	WBCL002617
	50 mm	60 mm	0.203 kg	140 mm	97 mm	66 mm	WBCL002618
	63 mm	74 mm	0.325 kg	175 mm	123 mm	85 mm	WBCL002619
	75 mm	91 mm	0.605 kg	207 mm	145 mm	101 mm	WBCL002620
90 mm	107 mm	0.940 kg	245 mm	173 mm	122 mm	WBCL002621	



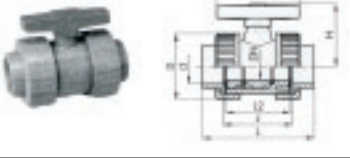

Accessories: Water System

ABS socket FF	Di (d)	Da (D)	Weight	Length (L)	Length (z)	Part No.
	20 mm	27 mm	0.010 kg	38 mm	6 mm	WBCL002629
	25 mm	33 mm	0.017 kg	44 mm	7 mm	WBCL002630
	32 mm	41 mm	0.025 kg	51 mm	7 mm	WBCL002631
	40 mm	50 mm	0.045 kg	60 mm	8 mm	WBCL002632
	50 mm	62 mm	0.070 kg	66 mm	4 mm	WBCL002633
	63 mm	78 mm	0.130 kg	80 mm	5 mm	WBCL002634
	75 mm	93 mm	0.268 kg	95 mm	8 mm	WBCL002635
	90 mm	104 mm	0.242 kg	107 mm	5 mm	WBCL002636
Reducer M-F long	Da (d)	D (d1)	Weight	Length (L)	Length (z)	Part No.
	32 mm	20 mm	0.016 kg/m	45 mm	30 mm	WBCL002650
	40 mm	25 mm	0.023 kg/m	55 mm	36 mm	WBCL002651
	50 mm	25 mm	0.041 kg/m	63 mm	44 mm	WBCL002652
	63 mm	32 mm	0.077 kg/m	76 mm	54 mm	WBCL002653
	75 mm	40 mm	0.115 kg/m	88 mm	62 mm	WBCL002654
	90 mm	63 mm	0.218 kg/m	112 mm	74 mm	WBCL002655
Reducer M-F short	Da (d)	D (d1)	Weight	Length (L)	Length (z)	Part No.
	20 mm	16 mm	0.003 kg	16 mm	2 mm	WBCL002669
	25 mm	20 mm	0.005 kg	19 mm	3 mm	WBCL002670
	32 mm	25 mm	0.009 kg	22 mm	4 mm	WBCL002671
	40 mm	20 mm	0.016 kg	26 mm	10 mm	WBCL002672
	40 mm	25 mm	0.016 kg	26 mm	7 mm	WBCL002673
	40 mm	32 mm	0.012 kg	26 mm	4 mm	WBCL002674
	50 mm	25 mm	0.025 kg	31 mm	12 mm	WBCL002675
	50 mm	32 mm	0.035 kg	31 mm	9 mm	WBCL002676
	50 mm	40 mm	0.038 kg	31 mm	5 mm	WBCL002677
	63 mm	32 mm	0.060 kg	38 mm	16 mm	WBCL002678
	63 mm	40 mm	0.067 kg	38 mm	12 mm	WBCL002679
	63 mm	50 mm	0.044 kg	36 mm	7 mm	WBCL002680
	75 mm	50 mm	0.105 kg	44 mm	13 mm	WBCL002681
	75 mm	63 mm	0.076 kg	44 mm	7 mm	WBCL002682
	90 mm	50 mm	0.135 kg	51 mm	20 mm	WBCL002683
	90 mm	63 mm	0.188 kg	51 mm	14 mm	WBCL002684
90 mm	75 mm	0.133 kg	51 mm	7 mm	WBCL002685	

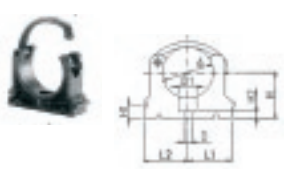


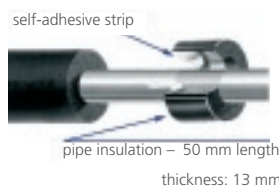
Accessories: Water System

Hose nipple	Di (d)	Da (D)	Weight	Length (L1)	Length (L2)	Part No.	
	25 mm	53 mm	0.050 kg	24 mm	29 mm	WBCL002700	
	32 mm	60 mm	0.070 kg	27 mm	32 mm	WBCL002701	
	40 mm	74 mm	0.130 kg	32 mm	38 mm	WBCL002702	
	50 mm	83 mm	0.170 kg	33 mm	40 mm	WBCL002703	
	63 mm	103 mm	0.340 kg	40 mm	46 mm	WBCL002704	
	75 mm	135 mm	0.461 kg	47 mm	62 mm	WBCL002705	
	90 mm	158 mm	0.694 kg	56 mm	69 mm	WBCL002706	
	screw connection ABS / bronze						
	25 mm	32 mm	0.221 kg	24 mm	23 mm	WBCL002709	
	32 mm	38 mm	0.263 kg	27 mm	26 mm	WBCL002710	
40 mm	50 mm	0.437 kg	32 mm	28 mm	WBCL002711		
50 mm	57 mm	0.508 kg	33 mm	29 mm	WBCL002712		
63 mm	70 mm	0.774 kg	40 mm	34 mm	WBCL002713		
Hose nipple	Di (d)	Da (D)	Weight	Length (L)	Part No.		
	16 mm	16 mm	0.007 kg	57 mm	WBCL002720		
	20 mm	20 mm	0.011 kg	73 mm	WBCL002721		
	25 mm	25 mm	0.016 kg	79 mm	WBCL002722		
	32 mm	32 mm	0.026 kg	89 mm	WBCL002723		
Screw bonded socket joint	Di (d)	Thread	Weight	Length (L)	Part No.		
	25 mm	3/4"	0.030 kg/m	40 mm	WBCL002730		
	32 mm	1"	0.040 kg/m	45 mm	WBCL002731		
	40 mm	1 1/4"	0.069 kg/m	51 mm	WBCL002732		
	50 mm	1 1/2"	0.100 kg/m	59 mm	WBCL002733		
	63 mm	2"	0.162 kg/m	69 mm	WBCL002734		



Accessories: Water System

Screw bonded socket joint, reinforced	Da (d)	thread	Weight	Length (L)	Length (z)	Part No.
	25 mm	1/2"	0.018 kg	41 mm	27 mm	WBCL002740
	32 mm	3/4"	0.027 kg	48 mm	32 mm	WBCL002741
	40 mm	1"	0.048 kg	56 mm	38 mm	WBCL002742
	50 mm	1 1/4"	0.073 kg	66 mm	46 mm	WBCL002743
	63 mm	1 1/2"	0.148 kg	77 mm	57 mm	WBCL002744
Closing cap	Da (d)	D (d1)	Weight	Length (L)	Length (z)	Part No.
	25 mm	37 mm	0.013 kg	30 mm		WBCL002760
	32 mm	44 mm	0.020 kg	34 mm		WBCL002761
	40 mm	55 mm	0.034 kg	41 mm		WBCL002762
	50 mm	64 mm	0.034 kg	44 mm		WBCL002763
	63 mm	80 mm	0.086 kg	54 mm		WBCL002764
	75 mm	87 mm	0.115 kg	65 mm		WBCL002765
	90 mm	112 mm	0.215 kg	77 mm		WBCL002766
ABS-ball check valve	Di (d)	Da (D)	Weight	Length (L)	Height (H)	Part No.
	25 mm	56 mm	0.360 kg	120 mm	60 mm	WBCL002790
	32 mm	67 mm	0.360 kg	131 mm	70 mm	WBCL002791
	40 mm	82 mm	0.6 kg	150 mm	80 mm	WBCL002792
	50 mm	92 mm	0.65 kg	163 mm	92 mm	WBCL002793
	63 mm	120 mm	1.7 kg	197 mm	110 mm	WBCL002794
ABS cold fusion glue	Description					Part No.
	special ABS glue, 0.75 l					WBCL002780




Accessories: Water System

Pipe clamp with clip, 061 PP	Di (d)	Drilling (D)	Weight	L1+L2	Width (H3)	Height (H)	Part No.
	32 mm	5.5 mm	0.011 kg	24 + 26,5 mm	16 mm	31 mm	WBCL002800
	40 mm	6.5 mm	0.025 kg	33.5 x 2 mm	22 mm	35 mm	WBCL002801
	50 mm	6.5 mm	0.028 kg	37 x 2 mm	22 mm	40 mm	WBCL002802
	63 mm	8.5 mm	0.047 kg	44.5 x 2 mm	25 mm	51.5 mm	WBCL002803
	75 mm	8.5 mm	0.058 kg	52 x 2 mm	25 mm	57.5 mm	WBCL002804
Pipe clamp with clip, 060 PP	Di (d)	Drilling (D)	Weight	L1+L2	Width (H2)	Height (H)	Part No.
	90 mm	9 mm	0.163 kg	89 + 71 mm	32.5 mm	105 mm	WBCL002810
	110 mm	9 mm	0.179 kg	94 + 80 mm	32.5 mm	115 mm	WBCL002811
	125 mm	11 mm	0.300 kg	116 + 91 mm	35 mm	130 mm	WBCL002812
Pipe insulation closed, foam	Di (d)	Da	Length	pc./box	For ABS:	MIn. Order	Part No.
 <p>thickness: 13 mm</p>	28 mm	54 mm	2 m	78	DN25	10	WBCL002830
	35 mm	60 mm	2 m	58	DN32	10	WBCL002831
	42 mm	68 mm	2 m	48	DN40	10	WBCL002832
	54 mm	80 mm	2 m	34	DN50	10	WBCL002833
	64 mm	90 mm	2 m	30	DN63	5	WBCL002834
	76 mm	102 mm	2 m	22	DN75	5	WBCL002835
	89 mm	116 mm	2 m	18	DN90	5	WBCL002836
Pipe insulation open, self-adhesive	Di (d)	Da					Part No.
 <p>self-adhesive strip</p> <p>pipe insulation – 50 mm length</p> <p>thickness: 13 mm</p>	21 mm	47 mm					WBCL002849
	27 mm	53 mm					WBCL002850
	34 mm	60 mm					WBCL002851
	42 mm	68 mm					WBCL002852
	54 mm	80 mm					WBCL002853
	64 mm	90 mm					WBCL002854
	76 mm	102 mm					WBCL002855
	89 mm	115 mm					WBCL002856

Accessories: Water System

 <p>model 1160 model 1164 model 1162</p>	<p>Sea water strainer</p> <p>G 3/4" model 1160, height 105 mm, nickel-plated brass</p> <p>G 1" model 1164, height 144 mm, nickel-plated bronze</p> <p>G 1 1/4" model 1164, height 178 mm, nickel-plated bronze</p> <p>G 1" model 1162, height 151 mm, nickel-plated bronze</p> <p>G 1 1/4" model 1162, height 176 mm, nickel-plated bronze</p> <p>Screen filter element for model 1160</p>	<p>Part No.</p> <p>WBCL010109A</p> <p>WBCL010110A</p> <p>WBCL010111A</p> <p>WBCL010112A</p> <p>WBCL010113A</p> <p>WBCL010268A</p>
 <p>Screen</p>	<p>Sea-water strainer, 16 – 20 mm, with two nipples</p> <p>capacity in US gallons 350/1,000 US gallons/h</p> <p>capacity in liters 25/50 l/min.</p> <p>suitable for pump models WB250 – WB350/1000</p> <p>H = height 140 mm</p> <p>W = width 100 mm</p> <p>D = diameter inlet/outlet 5/8" – 16 mm</p> <p>D = diameter inlet/outlet 3/4" – 20 mm</p> <p>screen-filter element 1.000 Microns</p>	<p>Part No.</p> <p>WBCL001151</p> <p>WBCL001152</p> <p>WBCL001154</p>
 <p>Screen</p>	<p>Sea-water strainer, 25 mm, with two nipples</p> <p>capacity in US gallons 1.000 US gallons/h</p> <p>capacity in liters 50 l/min.</p> <p>suitable for pump models WB1000 to 2000</p> <p>H = height 290 mm</p> <p>W = width 144 mm</p> <p>D = diameter inlet/outlet 1.25" – 32/40 mm</p> <p>1" – 25 mm</p> <p>screen-filter element 1000 Microns</p>	<p>Part No.</p> <p>WBCL001153</p> <p>WBCL001155</p>
 <p>plastic overboard discharge</p> <p>90° reinforced plastic valve</p> <p>through-hull fitting</p> <p>bronze discharge (5)</p> <p>nickel plated valve (4)</p> <p>(1) (2) (3)</p>	<p>Through-hull kits 16, 20, 25 mm</p> <p>capacity in US gallons 350/1.000 – 25/50 l/min.</p> <p>suitable for pump models WB250 – WB350/1000</p> <p>D = diameter inlet/outlet, 5/8" – 16 mm kit, 1/2" – 16</p> <p>D = diameter inlet/outlet, 3/4" – 20 mm kit, 3/4" – 20</p> <p>5/8" – 16 mm – 1 plastic valve (1 + 2 + 3)</p> <p>3/4" – 20 mm – 1 plastic valve (1 + 2 + 3)</p> <p>5/8" – 16 mm + 2 x 90° plastic valve (1 + 3 + 5)</p> <p>3/4" – 20 mm + 2 x 90° plastic valve (1 + 3 + 5)</p> <p>kit 5/8" – 16 mm – 1 nickel plated valve (1 + 4 + 2)</p> <p>kit 3/4" – 20 mm – 1 nickel plated valve (1 + 4 + 2)</p> <p>kit 5/8" – 16 mm – 2 nickel plated valves/bronze exit (1 + 4 + 5)</p> <p>kit 3/4" – 20 mm – 2 nickel plated valves/bronze exit (1 + 4 + 5)</p> <p>kit 1" – 25 mm – 1 nickel plated valve/plastic exit (1 + 4 + 2)</p>	<p>Part No.</p> <p>WBCL001125</p> <p>WBCL001126</p> <p>WBCL001123</p> <p>WBCL001124</p> <p>WBCL001175</p> <p>WBCL001176</p> <p>WBCL001177</p> <p>WBCL001178</p> <p>WBCL001179</p>




Accessories: Water System

	<p>Air bleeder t-piece for chilled water system</p> <p>model 1000S (for pump WB1000): t-piece 3/4", diameter shut-off valve outlet 1/2" – 16 mm</p> <p>model 2000S (for pumps WB1500-2500): t-piece 1", diameter shut-off valve outlet 3/4" – 20 mm</p>	<p>Part No.</p> <p>WBCL001121</p> <p>WBCL001122</p>
	<p>Sea-water strainer, 16-20 mm, with two nipples</p> <p>with safety thermostat</p> <p>model 10 kW; 400 V; L = 675; H = 200; weight = 8 kg</p> <p>model 15 kW; 400 V; L = 1015; H = 200; weight = 11 kg</p> <p>model 20 kW; 400 V; L = 1015; H = 200; weight = 12 kg</p> <p>model 30 kW; 400 V; L = 1590; H = 200; weight = 19 kg</p> <p>model 40 kW; 400 V; L = 2130; H = 200; weight = 22 kg</p> <p>D = diameter inlet/outlet 3/4" – 20 mm</p> <p>screen-filter element 1.000 Microns</p>	<p>Part No.</p> <p>WBCL002120</p> <p>WBCL002121</p> <p>WBCL002122</p> <p>WBCL002123</p> <p>WBCL002124</p> <p>WBCL001152</p> <p>WBCL001154</p>
	<p>Air bleeder for seawater pumps</p> <p>model 350R (for pumps WB250 and WB350): t-piece 3/4", diameter supply and outlet 1/2" – 16 mm</p> <p>model 1000R (for pump WB1000): t-piece 3/4", diameter supply and outlet 3/4" – 20 mm</p> <p>model 2000R (for pumps WB1500 – 2500): t-piece 1", diameter supply and outlet 3/4" – 20 mm</p>	<p>Part No.</p> <p>WBCL001118</p> <p>WBCL001119</p> <p>WBCL001120</p>





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

Spare Parts: Core Units


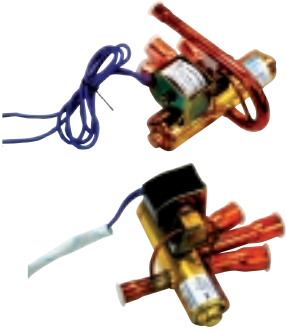

Spare parts

Refrigerant Circuit		Part No.
	Co-Axial Cupro Nickel Sea-Water Condenser; Type ES	
	ES-06: 5,000/9,000 BTU/h for WBCC5/7/9 and Select 5/7/9 260 x 214 x 50 (L x H x W)	WBCL000660
	ES-10: 12,000 BTU/h for WBCC 12 and Select 12 360 x 214 x 50 (L x H x W)	WBCL000661
	ES-16: 16,000/20,000 BTU/h for WBCC16/20, Select 16/20 and WPCP16/20 360 x 238 x 60 (L x H x W)	WBCL000662
	ES-24: 24,000/30,000 BTU/h for WBCC24/30 and WPCP24/30 360 x 238 x 90 (L x H x W)	WBCL000663
	Co-Axial Cupro Nickel Sea-Water Condenser; Type S	
	cupro-nickel condenser S-2-I – 24,000 BTU/h	WBCL000652
	cupro-nickel condenser S-3-I – 30,000 / 36,000 BTU/h	WBCL000653
	cupro-nickel condenser S-3.5-I – 48,000 BTU/h	WBCL000654
	cupro-nickel condenser S-4-I – 60,000 BTU/h	WBCL000655
	cupro-nickel condenser S-5-I – 76,000 BTU/h	WBCL000659
	cupro-nickel condenser S-6-I – 84,000 BTU/h	WBCL000665
	cupro-nickel condenser S-7-I – 112,000 BTU/h	WBCL000668
	cupro-nickel condenser S-8-I – 124,000 BTU/h	WBCL000666
cupro-nickel condenser S-10-I – 143,000 BTU/h	WBCL000667	
	Expansion Valves, suitable for R407C/R404A/R22	
	tube 6: 5,7 kW; 12,000/16,000 BTU/h	WBCL000632
	tube 7: 7,5 kW; 20,000/24,000 / 30,000 BTU/h	WBCL000633
	tube 8: 11 kW; 36,000/42,000 BTU/h	WBCL000634
	TCBE 1: 19 kW; 48,000/60,000 BTU/h	WBCL000636
	TCBE 2: 23 kW; 72,000/84,000 BTU/h	WBCL000635
	TRE 10-10Z: 35 kW; 96,000/112,000 BTU/h	WBCL009430
TRE 20-12,5Z: 44 kW; 126,000/143,000 BTU/h	WBCL009431	

Spare Parts: Core Units

	<p>Capillary Tubes</p> <p>cap tube injection kit for WBCC5 – suitable for R407C – 230 V</p> <p>cap tube injection kit for WBCC7 – suitable for R407C – 230 V</p> <p>cap tube injection kit for WBCC5 – suitable for R22/R417A – 115 V</p> <p>cap tube injection kit for WBCC6.5 – suitable for R22/R417A – 115 V</p> <p>cap tube injection kit for WBCC9 – suitable for R22/R407C – 115/230 V</p> <p>cap tube injection kit for WBCC12 – suitable for R22/R407C – 115/230 V</p> <p>cap tube injection kit for WBCC16 – suitable for R22/R407C – 115/230 V</p> <p>cap tube injection kit for WBCC9B – suitable for R22/R407C – 115/230 V</p> <p>cap tube injection kit for WBCC12B – suitable for R22/R407C – 115/230 V</p> <p>cap tube injection kit for WBCC16B – suitable for R22/R407C – 115/230 V</p> <p>cap tube injection kit for WBCC20 – suitable for R407C – 230 V</p> <p>cap tube injection kit for WBCC24 – suitable for R407C – 230 V</p> <p>cap tube injection kit for WBCC30 – suitable for R407C – 230 V</p>	<p>Part No.</p> <p>WBCL002240</p> <p>WBCL002241</p> <p>WBCL002242</p> <p>WBCL002243</p> <p>WBCL002244</p> <p>WBCL002245</p> <p>WBCL002246</p> <p>WBCL002250A</p> <p>WBCL002251A</p> <p>WBCL002252A</p> <p>WBCL002247</p> <p>WBCL002248</p> <p>WBCL002249</p>
	<p>Rotary compressors</p> <p>rotary compressor for WBCC5 – suitable for R407C – 230 V</p> <p>rotary compressor for WBCC7 – suitable for R407C – 230 V</p> <p>rotary compressor for WBCC9 – suitable for R407C – 230 V</p> <p>rotary compressor for WBCC12/WBCP12 – suitable for R407C – 230 V</p> <p>rotary compressor for WBCC16/WBCP16 – suitable for R407C – 230 V</p> <p>rotary compressor for WBCC20/WBCP20 – suitable for R407C – 230 V</p> <p>rotary compressor for WBCC24/WBCP24 – suitable for R407C – 230 V</p> <p>rotary compressor for WBCC30/WBCP30 – suitable for R407C – 230 V</p> <p>rotary compressor for WBCC5 – suitable for R22/R417A – 115 V</p> <p>rotary compressor for WBCC6.5 – suitable for R22/R417A – 115 V</p> <p>rotary compressor for WBCC9 – suitable for R22/R417A – 115 V</p> <p>rotary compressor for WBCC12/WBCP12 – suitable for R22/R417A – 115 V</p> <p>rotary compressor for WBCC16/WBCP16 – suitable for R22/R417A – 115 V</p>	<p>Part No.</p> <p>WBCL002260</p> <p>WBCL002261</p> <p>WBCL002262</p> <p>WBCL002263</p> <p>WBCL002264</p> <p>WBCL002265</p> <p>WBCL002266</p> <p>WBCL002267</p> <p>WBCL002268</p> <p>WBCL002269</p> <p>WBCL002270</p> <p>WBCL002271</p> <p>WBCL002272</p>
	<p>Scroll compressors</p> <p>scroll compressor for WBCP60 single – suitable for R407C – 400 V – 3 Phase</p> <p>note: other scroll compressor versions available on demand</p>	<p>Part No.</p> <p>WBCL002283</p>
	<p>Filters</p> <p>bi-flow filter/dryer 3/8" for WBCP – 12,000 – 36,000 BTU/h</p> <p>bi-flow filter/dryer 1/2" for WBCP – 42,000 – 60,000 BTU/h</p> <p>bi-flow filter/dryer 1/2" for WBCP – 72,000 – 84,000 BTU/h</p> <p>bi-flow filter/dryer 5/8" for WBCP – 96,000 – 143,000 BTU/h</p>	<p>Part No.</p> <p>WBCL002300</p> <p>WBCL002301</p> <p>WBCL002299A</p> <p>WBCL002302A</p>



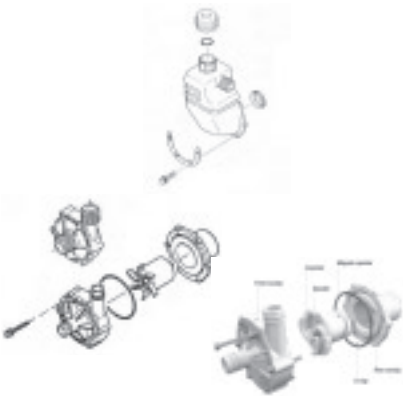

Spare Parts: Core Units

Air Filters		
	Woven Fabric Air Filter	Part No.
	woven fabric for self-contained unit/air handler of 4,500 BTU/h	WBCL000910
	woven fabric for self-contained unit/air handler of 6,000 BTU/h	WBCL000911
	woven fabric for self-contained unit/air handler of 9,000 BTU/h	WBCL000912
	woven fabric for self-contained unit/air handler of 12,000 BTU/h low profile	WBCL000913
	woven fabric for self-contained unit/air handler of 12,000 BTU/h	WBCL000914
	woven Fabric for self-contained unit/air handler of 16,000 BTU/h	WBCL000915
	woven fabric for self-contained unit/air handler of 24,000 BTU/h	WBCL000916
woven fabric for self-contained unit/air handler of 30,000 BTU/h	WBCL000917	
woven fabric for self-contained unit/air handler of 20,000 BTU/h	WBCL000918	
Valves and Switches		
	Reversing Valves	Part No.
	cool/heat – 5 to 12,000 BTU/h – 230 V – DSF-4	WBCL002202
	cool/heat – 16 to 20,000 BTU/h – 230 V – DSF-9	WBCL002203
	cool/heat – 24 to 30,000 BTU/h – 230 V – DSF-9B	WBCL002204
	cool/heat – 36 to 42,000 BTU/h – 230 V – DSF-11	WBCL002205
	cool/heat – 48 to 60,000 BTU/h – 230 V – DSF-11C	WBCL002206
	cool/heat – 72 to 84,000 BTU/h – 230 V – SHF-20	WBCL002207
	cool/heat – 96 to 143,000 BTU/h – 230 V – SHF-34	WBCL002215
	cool/heat – 5 to 12,000 BTU/h – 115 V	WBCL002208
	cool/heat – 16 to 20,000 BTU/h – 115 V	WBCL002209
	coil 230 V – diam axis 10.9 mm	WBCL002211
	coil 115 V – diam axis 10.9 mm	WBCL002212
coil 230 V – diam axis 11.3 mm	WBCL002213	
coil 115 V – diam axis 11.3 mm	WBCL002214	
	Switches	Part No.
	high pressure switch non-adjustable 350 – 250 psi (green)	WBCL002230
	low pressure switch non-adjustable 15 – 35 psi (black)	WBCL002231
high pressure switch non-adjustable 375 – 250 psi (green)	WBCL009987A	
	Contactors	Part No.
Contactor 2-Pole 30 A – 230 V coil (for all 230 V compressors except 48 k BTU/h)	WBCL000165	
Contactor 2-Pole 40 A – 230 V coil (for 48,000 BTU/h compressor)	WBCL000260	
Contactor 2-Pole 30 A – 115 V coil (for all 115 V compressors)	WBCL009666	
Contactor 3-Pole 30 A – 230 V coil (for all 208 V & 400 V compressors)	WBCL009668	

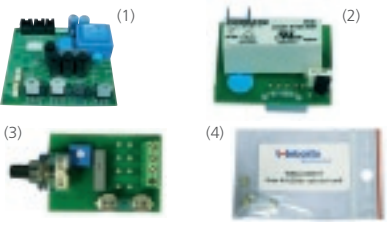
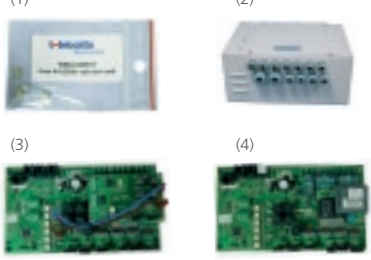
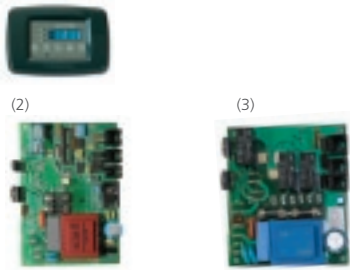
Spare Parts: Core Units

Spare Blowers		
	Centrifugal Blowers; suitable for Classic systems and air handler; 115 V	Part No.
	2GRE15; 275 m ³ /h; 120 x 62R; suitable for 4,500/6,000 BTU/h air handler and 5,000/6,500 BTU/h Classic systems	WBCL007030
	2GRE20; 430 m ³ /h; 140 x 59R; suitable for 9,000 BTU/h air handler and Classic systems	WBCL007031
	2GRE35; 500 m ³ /h; 140 x 59R; suitable for 12,000/24,000 BTU/h air handler and 12,000 BTU/h Classic systems	WBCL007032
	2GRE45; 625 m ³ /h; 180 x 75R; suitable for 16,000/20,000 BTU/h air handler and 16,000 BTU/h Classic systems	WBCL007033
	Centrifugal Blowers; suitable for Classic systems and air handler; 230 V	Part No.
	2GRE15; 275 m ³ /h; 120 x 62R; suitable for 4,500/6,000 BTU/h air handler and 5,000 / 7,000 BTU/h Classic systems	WBCL007020
	2GRE20; 430 m ³ /h; 140 x 59R; suitable for 9,000 BTU/h air handler and Classic systems	WBCL007021
	2GRE35; 500 m ³ /h; 140 x 59R; suitable for 12,000/24,000 BTU/h air handler and Classic systems	WBCL007022
	2GRE45; 625 m ³ /h; 180 x 75R; suitable for 16,000/20,000 BTU/h air handler and Classic systems	WBCL007023
	2GRF65; 900 m ³ /h; 180 x 70R; suitable for 48,000 BTU/h air handler, fresh air 24 special unit, fresh air 48 unit and extract air 48 unit	WBCL007024
	Cross Flow Blowers; suitable for air handler; 115 V	Part No.
	4,000 BTU/h; 150 m ³ /h	WBCL007010
	6,000 BTU/h; 190 m ³ /h	WBCL007011
	9,000/12,000 BTU/h; 250 m ³ /h	WBCL007012
	Cross Flow Blowers; suitable for air handler; 230 V	Part No.
	4,000 BTU/h; 150 m ³ /h	WBCL007016
	6,000 BTU/h; 190 m ³ /h	WBCL007017
	9,000/12,000 BTU/h; 250 m ³ /h	WBCL007018
	Spare capacitors for blowers	Part No.
	capacitor 2µF for 2GRE15; 120 x 62 R – 230 V	WBCL000017
	capacitor 2,5µF for 2GRE20; 140 x 59 R – 230 V	WBCL000009
	capacitor 4µF for 2GRE35; 140 x 59 R – 230 V	WBCL000018
	capacitor 12µF for 2GRF65; 180 x 70 R – 230 V	WBCL007041
	capacitor 6µF for 2GRE45; 180 x 75 R – 230 V	WBCL000070
	capacitor 8µF for 2GRE25; 140 – 115 V	WBCL000008
	capacitor 18µF for 2GRE35; 140 x 59 R – 115 V	WBCL000012
capacitor 24µF for 2GRE45; 180 x 75 R – 115 V	WBCL000016	
	Paint	Part No.
	Epoxy paint, 400 ml	WBCL000300

Spare Parts: Pumps

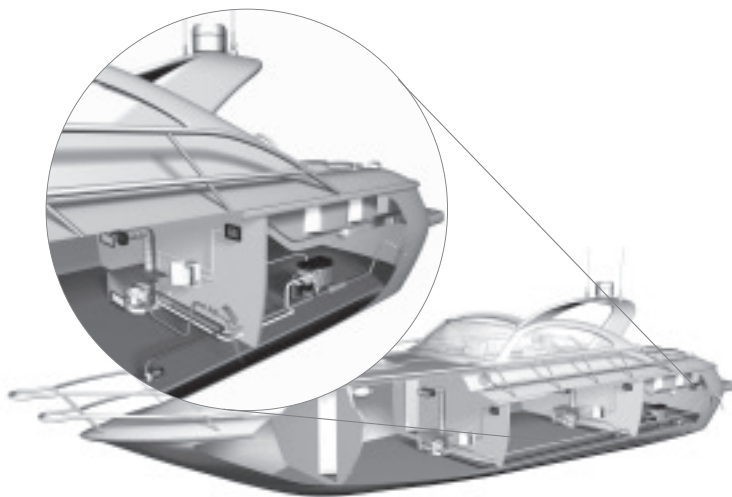
	<p>Front covers for pumps</p> <p>front cover – hose nipples – pump WB250</p> <p>front cover – hose nipples – pump WB350</p> <p>front cover – threaded 3/4" – pump WB250</p> <p>front cover – threaded 3/4" – pump WB350</p> <p>front cover – threaded 3/4" – pump WB500/WB1000</p> <p>front cover – threaded 1" – pump WB1500</p> <p>front cover – threaded 1" – pump WB2000</p> <p>front cover – threaded 1 1/4" – pump WB3500</p>	<p>Part No.</p> <p>WBCL001140</p> <p>WBCL001141</p> <p>WBCL001158</p> <p>WBCL001159</p> <p>WBCL001142</p> <p>WBCL001143</p> <p>WBCL001150A</p> <p>WBCL001169A</p>
	<p>Wet end sets for pumps</p> <p>wet end set – WB250 threaded</p> <p>wet end – WB350 threaded</p> <p>wet end – WB500 threaded</p> <p>wet end – WB1000 threaded</p> <p>wet end – WB1500 threaded</p> <p>wet end – WB2000 threaded</p>	<p>Part No.</p> <p>WBCL001194</p> <p>WBCL001195</p> <p>WBCL001196</p> <p>WBCL001197</p> <p>WBCL001198</p> <p>WBCL001199</p>
	<p>Caps, O-rings and impellers for pumps</p> <p>Cap for self-priming chamber SC-4/7</p> <p>O-ring for self-priming chamber SC-4/7</p> <p>gasket for self-priming chamber SC-4</p> <p>gasket for self-priming chamber SC-7</p> <p>O-ring for WB250</p> <p>impeller unit for WB250</p> <p>O-ring for WB350</p> <p>impeller unit for WB350</p> <p>O-ring for WB500/WB1000</p> <p>impeller unit for WB500</p> <p>impeller unit for WB1000</p> <p>O-ring for WB1500</p> <p>impeller unit for WB1500</p> <p>O-ring for WB2000</p> <p>impeller unit for WB2000</p>	<p>Part No.</p> <p>WBCL010803B</p> <p>WBCL010801A</p> <p>WBCL010804A</p> <p>WBCL010805A</p> <p>WBCL010806A</p> <p>WBCL010807A</p> <p>WBCL010808A</p> <p>WBCL010809A</p> <p>WBCL010810A</p> <p>WBCL010811A</p> <p>WBCL010812A</p> <p>WBCL010813A</p> <p>WBCL010814A</p> <p>WBCL010815A</p> <p>WBCL010816A</p>
	<p>Pump electronics</p> <p>controller card for WB200 pump – 115/230 V</p>	<p>Part No.</p> <p>WBCL001116</p>

Spare Parts: Electronic Controls

BlueCool Classic/Select System		Part No.
	TCC V2 – Classic card – 230 V	WBCL000823
	TCC V2 – Classic card – 115 V	WBCL000840
	TCC V3 – Classic/Select card – 2005 series – 230 V (1)	WBCL000828
	TCC V3 – Classic/Select card – 2005 series – 115 V (1)	WBCL000829
	digital display <air control> 2004 with bezel	WBCL000824
	blower speed controller for blower module – 230/115 V (3)	WBCL007480
	on/off controller remote split-air blower modules (2)	WBCL000819
	fuse kit for TCC controller WBCL000811 (4)	WBCL000816
	woven fabric for self-contained unit/air handler of 20,000 BTU/h	WBCL000918
BlueCool Premium System		Part No.
	TECC V2 – chiller control card for 1 or 2 compressors – 230 V	WBCL000384
	TECC V2 – chiller control card for 3 or 4 compressors – 230 V	WBCL000387
	TECC V2 – chiller control card for 1 or 2 compressors – 115 V	WBCL000845
	TECC V2 – chiller control card for 3 or 4 compressors – 115 V	WBCL000846
	TECC V3 – chiller control card for 1 or 2 compressors – 230 V (4)	WBCL000864
	TECC V3 – chiller control card for 3 or 4 compressors – 230 V (3)	WBCL000866
	TECC V3 – chiller control card for 1 or 2 compressors – 115 V (4)	WBCL000865
	TECC V3 – chiller control card for 3 or 4 compressors – 115 V (3)	WBCL000867
	fuse kit for TECC/compressor/network controllers (1)	WBCL000367
	metallic water temperature sensor with 3 m cable*	WBCL00368
metallic water temperature sensor with 6 m cable*	WBCL00369	
	* only to be used with V2 cards. Not to be used with V3 cards, please refer to composite water sensors.	
Cabin Controls		Part No.
	electronic card V2 for WBCL000371 – 230 V (2)	WBCL000375
	electronic card V2 for WBCL000850 – 115 V (2)	WBCL000852
	electronic card V3 for Cabin Control – 230 V (3)	WBCL000860
	electronic card V3 for Cabin Control – 115 V (3)	WBCL000861
	electronic card V2 for WBCL000392 & WBCL000394 – 230 V	WBCL000376
	electronic card V2 for thermostat with 3 speed blower control – 115 V	WBCL000853
	electronic card V3 for thermostat with 3 speed blower control – 230 V	WBCL000379
	electronic card V3 for thermostat with 3 speed blower control – 115 V	WBCL000380
	digital display <air control> 2004 with bezel	WBCL000824
	plastic bezel Webasto for digital display 2005 (1)	WBCL000877
	thermostat and speed selector with cable for WBCL000392B/000851B	WBCL000863
3 speed selector with cable for WBCL000394B	WBCL010208A	
BlueCool Fresh Air System		Part No.
	electronic controller card V2 for freshair units – 230 V	WBCL000215
	electronic controller card V3 for freshair units – 230 V	WBCL000215B
	digital display <fresh air> with removable bezel	WBCL000214

Perfect Climate Control in Any Weather Condition

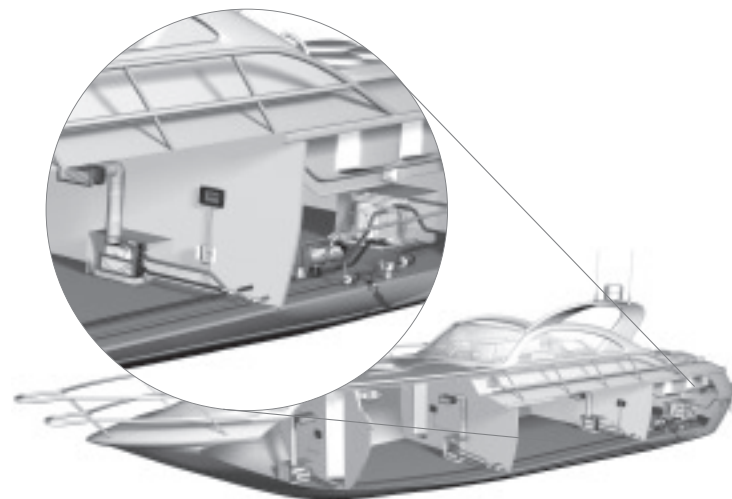
Because sailors do not like limits, Webasto developed solutions to expand their boating season. Most air conditioning systems have a reverse cycle function to enable heating with the AC system. However, this requires mild sea water temperatures for efficient heating. Below 6° C sea water temperature the heat cycle becomes inefficient. To gain total autonomy from environmental conditions Webasto offers the BlueComfort system. It consists of a water heater and a BlueCool air conditioning unit integrated in one system. These unique solutions are cost efficient, space-saving and deliver the perfect climate out of one central system.



BlueComfort Classic

- Super quick warm-up of cabin, independently of sea water temperature
- Opportunity to have heating on board while sailing (no need for generator running)
- Unrivalled dehumidification power in "reheat" mode
- Individual temperature control for each cabin

The benefits of a self-contained A/C unit complemented by a compact, high efficient diesel heater.



BlueComfort Premium

- Flexible control system operation
- 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 Solutions

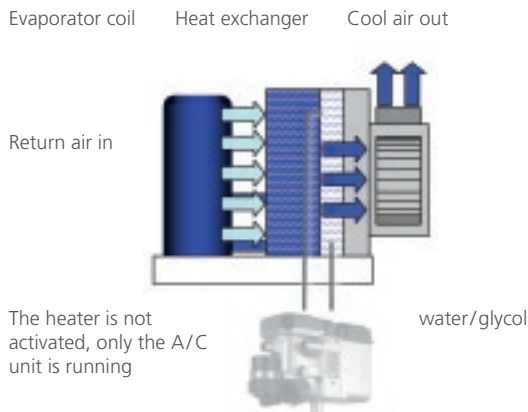


BlueComfort Classic: How Does it Work?

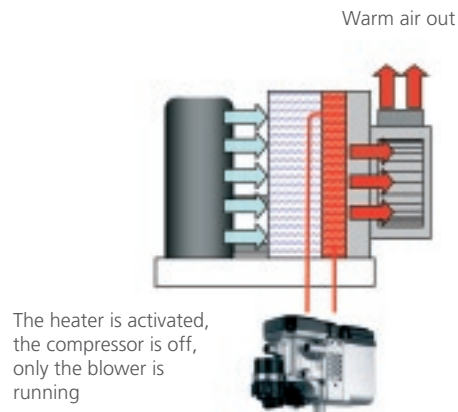
In a BlueComfort Classic system an A/C system and a water heater are integrated into one system.

The BlueComfort Classic units are equipped with a second heat exchanger which is connected to a diesel fired water heater. In cooling mode, the water heater is off and only the A/C circuit is running. In heating mode the water heater is running, heating up the heat exchanger and thus the air passing through. In the "reheat" mode, the air is first cooled down and then heated up again, thus being dehumidified.

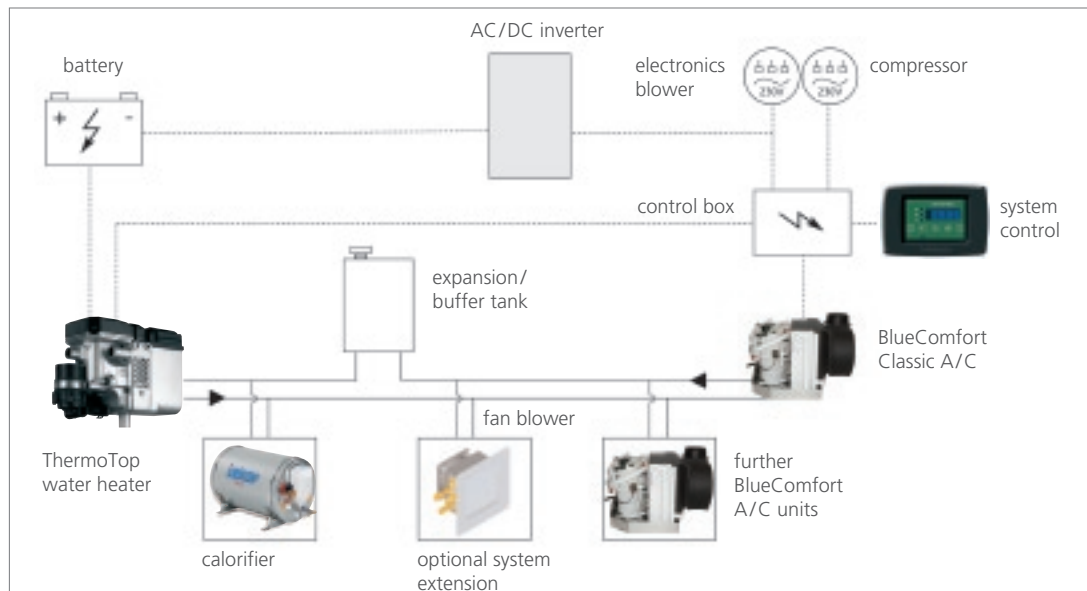
Cooling mode



Heating mode



Example of a system set up:



Application Guidelines

For a BlueComfort Classic system, please select the following products according to your performance requirements.

1 BlueCool Air Conditioner

Choose the right cooling capacity according to the BTU calculator.

See page 66 – 67

Complete your A/C system with the necessary components.

See page 72

Item	Model	Webasto BlueComfort Classic 9	Webasto BlueComfort Classic 12	Webasto BlueComfort Classic 16	Webasto BlueComfort Classic 20
1	performance in BTU/h, kW	9,000/2.6	12,000/3.5	16,000/4.7	20,000/5.8
2	voltage	230 V/115 V 50 – 60 Hz/60 Hz	230 V/115 V 50 – 60 Hz/60 Hz	230 V/115 V 50 – 60 Hz/60 Hz	230 V 50 – 60 Hz
3	power consumption/start**	3.2/7.5 A	4.3/9 A	5.5/12 A	6.5/14 A
4	Net weight	26 kg	27 kg	34 kg	35 kg
5	seawater pump	WB200/WB250	WB200/WB350	WB200/WB350	WB350
6	blower output	400 m ³ /h	500 m ³ /h	625 m ³ /h	625 m ³ /h
7	Ø condenser water connection	16 mm	16 mm	16 mm	16 mm
8	dimensions (L x D x H) in mm	495 x 385 x 310	492 x 455 x 310	492 x 455 x 330	513 x 455 x 385
9	Ø air outlet	100 mm	125 mm	125 mm	125 mm
10	suggested breaker	12 A	16 A	20 A	20 A
11	diameter hot water connection (in mm)	20	20	20	20
12	order number 230 V	WBCL010114A*	WBCL010115A*	WBCL010107A	WBCL010116A*
13	order number 115 V	WBCL010117A*	WBCL010118A*	WBCL010119A*	

* ask for availability ** has to be doubled for the 115 V versions.

2 BlueHeat Heater

Select the right heater according to the BlueComfort Classic system.

See Thermo Top E Comfort Classic 12 V Diesel 9019718A

See page 26 – 27

Air conditioner	WBCC9	WBCC12	WBCC16	WBCC20
Heater	Thermo Top E			Thermo Top C

Note: To validate your heater selection please refer to the BlueComfort Classic system specifications on the dealer portal at <http://dealers.webasto.com>

3 BlueComfort Accessories

Do not forget to add an expansion/buffer tank.

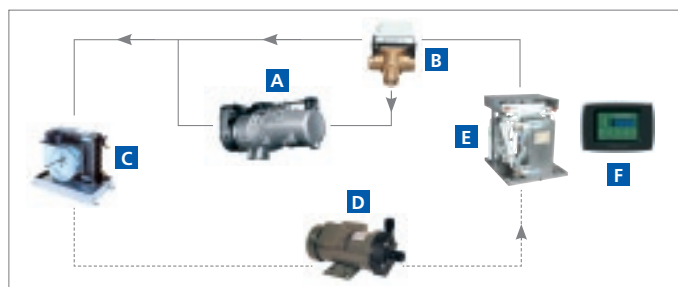
See page 57

BlueComfort Premium: How Does it Work?

In a BlueComfort Premium system an A/C unit and a diesel fired 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.

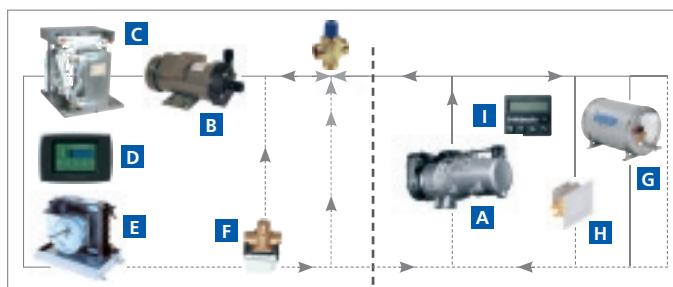


- A Water Heater** Produces hot (60° C) water when system switches to heating
- B 3 Way Valve** Switches between cooling or heating loop
- C Air Handler** Warms up or cools down returning air
- D Water Pump** Circulates the water
- E A/C Chiller Unit** Cools down the water when system switches to cooling
- 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

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

DeLuxe Integration

The DeLuxe has all the features of the **Basic integration but additionally allows to integrate 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 to heat the boiler in summer while the A/C system is cooling the cabins at the same time.



- 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 Blower** 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

Application Guidelines

For a BlueComfort Premium system, select the chiller system and a water heater accordingly.

1 BlueCool Air Conditioner

See page 66 – 67

See page 78 – 81

Choose the right cooling capacity according to the BTU calculator.
Configure your chilled water application.

System combinations available from 12,000 BTU/h to 572,000 BTU/h cooling capacity



2 BlueHeat Heater

Select the right heater according to the table below

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										
Air conditioner	WBCP12	WBCP20	WBCP24	WBCP30	WBCP32	WBCP36	WBCP40	WBCP42	WBCP48	WBCP50	WBCP60	WBCP72	WBCP84	WBCP90	WBCP96	WBCP100	WBCP108	WBCP120	WBCP126	WBCP144
Heater	Thermo 50		Thermo 90 ST		DBW 2010		DBW 2016		DBW 2020		Thermo 230		Thermo 3000							

Basic Integration	DeLux Integration
Thermo 90 ST chiller See page 28	Thermo 90 ST chiller See page 28 – 33
All other heaters are standard kits. They require an additional water control thermostat. For details please refer to the BlueComfort Premium system specifications or visit http://dealers.webasto.com See page 28 – 33	

3 BlueComfort Accessories

For the chilled water system, the following key components are needed as well:		
3 way motor valve	Basic Integration	DeLux Integration
	Thermo 90 ST chiller & DBW 2010/2016/2020 use 3/4" motor valve WBCL000776	Thermo 90 ST chiller & DBW 2010/2016/2020 use 3/4" motor valve WBCL000776
	Thermo 230/300/350 use 1 1/2" motor valve	Thermo 230/300/350 use 1 1/2" motor valve
thermostatic mixing valve	Basic Integration	DeLux Integration
		Thermo 90 ST use 3/4" mixing valve
		DBW 2010/2016/2020 use 3/4" mixing valve
		Thermo 230/300/350 use 1 1/2" mixing valve

There is always a Webasto Solution for Your Roof Project!



Design Options / Image	**
Low Development Costs	***
Short Project Leadtime	****

Webasto Marine Roofs – our customisable platforms:

- Robust, pre-developed platforms benefiting from Webasto's worldwide technological leadership in automotive sunroofs
- Possible customisation in size, curvature, material and colour to fit your special needs.
- Benefit from a product customised to your needs with no development costs involved and in a very short time frame.
- Two platforms (flush integrated or topmounted) for unlimited design possibilities

OR ...



Design Options / Image	*****
Development Costs / Leadtime	Project Specific
Short Project Leadtime	**

Webasto Engineering Services – add value to your boats and brand image by developing your own roof system:

- Unique, exclusive roof systems to match your exact specifics
- 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

Webasto Marine Roof Platform Systems

Webasto Engineering Services



The 60 Series: an Unrivalled Set of Highly-valued Features!



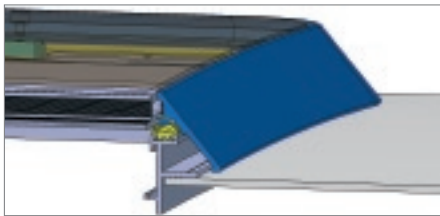
The 60 Series Sliding Roof: The easy, ready-to-be-mounted solution!

- Pre-assembled and fully tested in manufacturing plant
- Delivered ready-to-be-mounted thus providing significant cost savings for your assembly line.

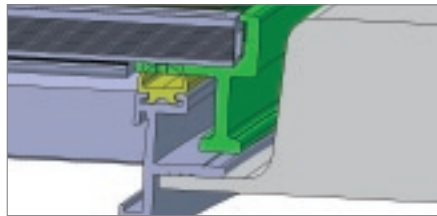
Customise Your 60 Series Platform According to Your Demands!

Four main aspects can be fully personalised

Top mount or flush integration:

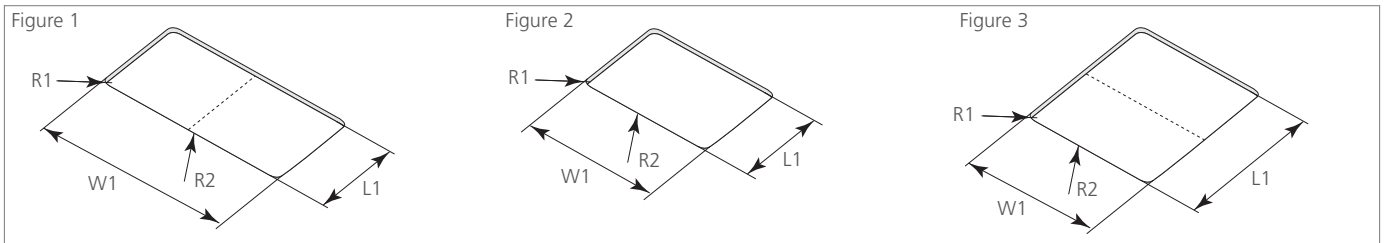


Top Mount



Flush Integration

Size and curvature:



Maximum Cut-Out size dimensions customised roofs		max. length (L1)	max. width (W1)	corner curvature (R1)	min. cross curvature (R2)
Figure 1	Roof without cross beam	1,100	1,100	80	10,000
Figure 2	Roof with cross beam in sliding direction	1,100	1,800	80	10,000
Figure 3	Roof with cross beam perpendicular to sliding direction	1,500	1,100	80	10,000

Design selection:

Panel design

- PMMA/Acrylic
- Glass
- Non transparent
- Teak

Frame design

- Anodised
- Coated
- Coloured in all available

Additional options:



Fixed panel



Sunblind/Flyscreen

For further information, please refer to our **Webasto Marine Roofs Brochure** or visit our website at www.webasto-marine.com

80/150 Series: Get Closer to the Roof of Your Dreams ...

Customisable, integrated roof design: the 80 Series

With the 80 Series, Webasto offers shipyards a completely dedicated frame design fitting the shipyard's panel design. The frame construction is supplied as a kit which facilitates the installation on board. This innovative roof development approach requires application engineering and a close cooperation between the shipyard and Webasto.

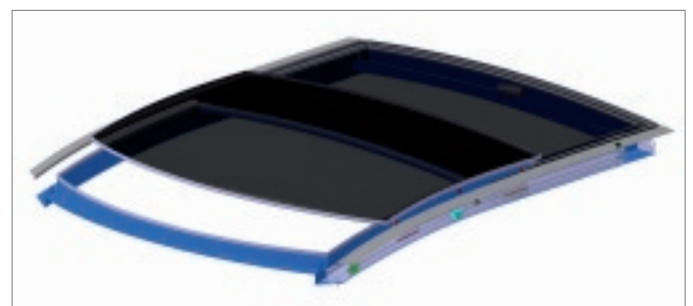
- Frame design is dedicated to the yacht
- Panel design to be defined by shipyard, limited only by the maximum panel weight of 80 kg
- Supplied as a kit, including the frame, mechanism and sealing as well as rear rails. Panel usually supplied by the shipyard.
- Fully water tight sealing system
- Tilting at front side (ventilation) and sliding to the rear
- 12 V DC drive system
- Integrated roof design
- Cross curvature is possible (starboard to port side)
- Several possibilities for panel material



Customised double curvature roof models: the 150 Series

The 150 Series of roof solutions by Webasto is the perfect solution for demanding roof projects. The fully integrated roof consists of a moving panel and optional of a fixed panel. The double curvature allows extraordinary design possibilities. The 150 Series is supplied as a complete system. The frame design is dedicated to each yacht. Application engineering and a close cooperation between the shipyard and Webasto is required.

- Frame design dedicated to each yacht
- Maximum weight of the moving panel is 150 kg
- Supplied as complete functional system
- Full water tight sealing system
- Tilting at rear side (ventilation) and sliding to rear
- 24 V DC drive system
- Double curvature (front to aft, starboard to port side).
- Panel material can be glass or sandwich
- Application engineering required



Webasto Marine Roofs Some References

Arcoa Mystic 60' – Webasto Marine Roof 80 Series



Classic Yachts – Webasto Marine Roof 60 Series



Azimut 40S – Webasto Marine Roof 80 Series



Maritimo Yachts – Webasto Marine Roof 60 Series

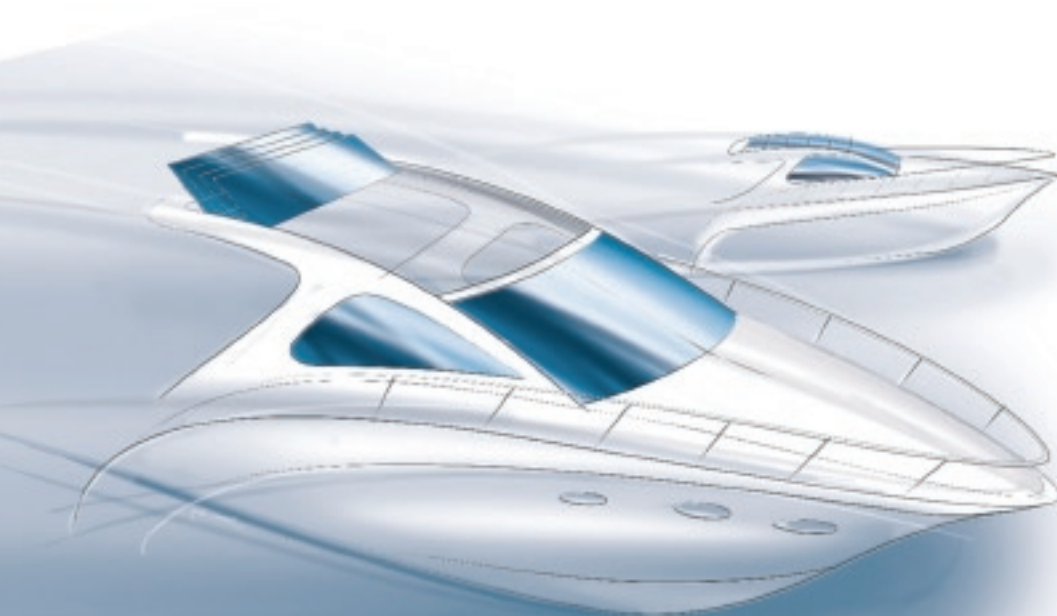


Marine Engineering Services

We can do a lot more for your roof project!

- As the worldwide leader in automotive sunroof and convertible systems, Webasto can offer you uniquely customised roof solutions for your boat or yacht.
- Large moveable surfaces of all kinds and sizes are our mission.
- 30 years experience in advanced automotive roof systems applied to marine: kinematics, advanced materials, water management and sealing systems.
- We bring your ideas to reality and guarantee high quality and outstanding production know-how.
- Webasto offers manufacturing at full series quality levels: Process orientated assembly operations, from the pilot line, through the design check to series production.
- Staged project approach and joint teams enabling know-how transfer to your engineers.

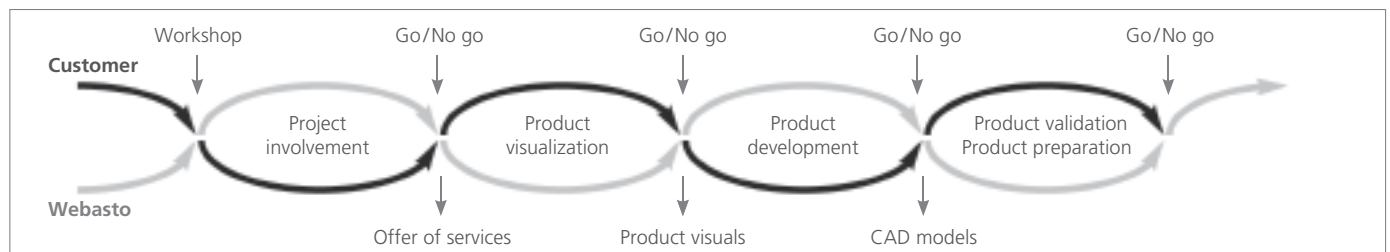
Contact us to get a free evaluation of your project!



Roof Concepts that turn Your Ideas into Reality?

The success of our projects stands on three basic elements:

- 1) Phased project approach allows frequent evaluation and limits the customers' risks
- 2) Joint teams require strong customer involvement (Marketing, R&D, Manufacturing) at every stage
- 3) Highly valuable know-how transfer ensures best outcome of the project investments.



Phase 1: Product visualization

Activity: Translate ideas in visual concepts

- Input (of customer)
- Ideas out of workshop
- CAD data of customer
- Application of product
- Technical requirements
- Technical constraints

Deliverables

- Visuals of product ideas
- Basic product description
- Functionality/Test specs
- Technology/materials
- Indication of piece price and investment
- Detailed offer for phase 2

Phase 2: Product development

Activity: Translate visual into technical concept

- Evaluate various concepts:
- Customised, adaptation of semi-standard products
- Creation of technical solution
- Solutions to constraints

Deliverables

- CAD Presentation of product concept
- Translation of functions into technical solutions
- Translation of constraints into technical solutions
- 3D CAD models
- Updated cost price and investment
- Detailed offer for phase 3

Phase 3: Product validation

Activity: Prepare drawing package for suppliers & assembly

- Product update
- Review 3D model
- Make changes
- Possibility to test prototypes

Deliverables

- Design Failure Mode and Effect Analysis (D-FMEA)
- Updated 3D CAD models
- On request: prototyping & testing
- Detailed offer for production

Abbreviation Index

Units and Conversions

This catalogue is intended to present Webasto products from our marine segment and simplify the ordering procedure. Deliveries are subject exclusively to our terms and conditions of sale and supply.

Specifications subject to modification without prior notice. Errors excepted.

ABBREVIATIONS

Units of measurement

L	=	length (mm)
W	=	width (mm)
H	=	height (mm)
D	=	depth (mm)
C	=	capacity (litres)
D	=	diameter (mm)
Di	=	internal diameter (mm)
Da	=	external diameter (mm)

Electrical units

A	=	ampere
V	=	volt

Materials

Al	=	aluminium
Cu	=	copper
CS	=	chromium steel
SS	=	stainless steel
GF	=	glass fibre
RBR	=	rubber
GRP	=	glass fibre-reinforced plastic
Sm	=	plastic/synthetic material
BRS	=	brass
St	=	steel
GS	=	galvanized steel
AA	=	aluminium-aluminium
APK	=	aluminium-paper-plastic
BAS	=	bitumen-aluminium-plastic
PAB	=	paper-aluminium-bitumen
PHSAS	=	paper-high strength aluminium-plastic
PAPK	=	paper-aluminium-paper-plastic
PAK	=	paper-aluminium-plastic
SPS	=	plastic-paper-plastic

UNITS AND CONVERSIONS

Metric	Imperial
1 kW	= 3412.14 Btu/h
292.99 W	= 1,000 Btu/h
0.454 Kg	= 1 lb
1 Kg	= 2.205 lb
25.4 mm	= 1 inch
100 mm	= 3.937 inch
3.785 L	= 1 gallon
1 L	= 0.264 gallon
63X L/min	= X gph
X L/h	= 0.264X gph
1 m ³ /h	= 0.589 cfm
1 bar	= 14.504 psi
0.069 bar	= 1 psi
X° C	= 1.8X+32° F
(X-32)/1.8° C	= X° F

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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

System unit abbreviations:

SC = Self-Contained (BlueCool Classic) CH = Chiller (BlueCool Premium)

Example: CH60-TWIN-S400V-REV = Chiller 60000 Twin Scroll 400V reversible				
<i>CH</i>	<i>60</i>	<i>S</i>	<i>400V</i>	<i>REV</i>
Chiller	60,000 BTU/h	S = scroll comp. R = rotary comp.	Voltage COOL = cool only	REV = reversible

Air Handler Nomenclature

Air handler model abbreviations:

CO = Compact TH = Tan Horizontal TV = Tan Vertical SV = Slim Line Vertical SH = Slim Line Horizontal

There are 3 possible options that may be installed/mounted on a standard air handler unit at the factory before shipment:

Air handler option abbreviations:

FC = Danfoss – 3 WAY VALVE 15mm KIT

EH = AC 230 V HEAT FOR AIR HANDLER (Codes: WBCL000794 to WBCL000798) – AC Heat is abbreviated by EH + value of heating power, e.g. 1,000 for 1,000 W)

LAT = Lateral Exit/orientation of blower on a Crossflow unit – only available on Tangential/Crossflow models!

Example: TH12EU-FC-EH1000-LAT					
<i>TH</i>	<i>12</i>	<i>EU</i>	<i>FC</i>	<i>EH 1000</i>	<i>LAT</i>
Air Handler Style	12,000 BTU/h	EU=230V US=115V	FC = 3-way valve	Electrical heat 1000 W	Blower Orientation

More examples:

CO30EU-EH2250 / TH4US-FC-LAT / TV9EU-FC-EH1000 / SV16US / SH20EU-FC-EH1500

In General: codes are only added if option is included, e.g. FC for 3-way valve!

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Indel Webasto Marine stands for high quality solutions for refrigeration and water heating in the marine industry.

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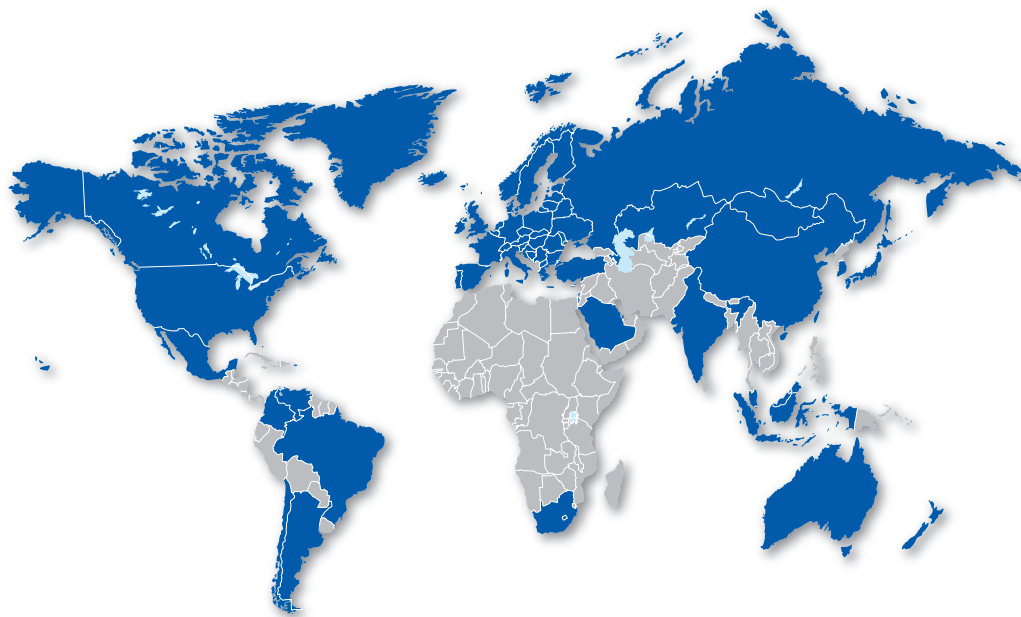


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www.indelwebastomarine.com or consult our product catalogue.

Webasto, a feel good climate – worldwide

Whether OEM or aftermarket: our products improve the comfort in vehicles. The name Webasto stands for innovative, economic and environmentally sound heating, cooling and ventilation systems for cars, commercial vehicles, motorhomes and boats. Our success is based on our wide range of products and high quality standard. An outstanding network of dealers guarantees top quality fitting and services around the globe.

We have been setting standards in technology for over one hundred years and are now amongst the 100 biggest suppliers to the automotive industry world-wide. Webasto operates in two business units: Convertible, Roof & Body (CRB) systems as well as Global Comfort Solutions (GCS) for heating, cooling and ventilation systems.



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