

GREAT LAKES MARINE SPECIALTIES

10800 NORMANDALE BLVD, SUITE 102B, MINNEAPOLIS, MINNESOTA 55437 USA
800-821-0207 - 952-920-8500 - FAX 866-657-2634

Why Webasto?

Webasto is a global market leader in the auxiliary heater industry and is a supplier to major equipment manufacturers around the world.

Webasto makes a full line of air and coolant heaters to meet the needs of virtually any size craft. State of the art and micro-processor controlled, all Webasto marine heaters are compact, lightweight, and extremely energy efficient.

Heaters for quiet warmth and cozy comfort.

Small in size but not in power, Webasto air heaters generate warm, dry air quickly and quietly.

Adaptable for installation wherever room allows, the Webasto air heaters draws fresh air into a sealed heat exchanger where it is heated very quickly. Powerful fans circulate the warmth evenly throughout any number of outlets, while exhaust is discharged outside.

Heaters for plentiful heat and hot water.

Nothing extends the boating season like a Webasto coolant heater. Sophisticated and powerful enough to heat a yacht, Webasto water heaters are still small enough to fit into snug spaces.

Webasto coolant heaters can warm radiators in all the cabins, or be installed with fan-assisted heat exchangers when space is at a premium. The unit can even be linked to the engine's coolant system, to pre-heat the engine and eliminate cold starts.

With a Webasto heater on board, you'll also have plenty of hot water for showers and the galley, heated by an indirect coil in the hot water tank.

Best of all, you won't be bothered by the drone of a noisy generator. Mounted in the engine room near the batteries and fuel tank, a Webasto coolant heater is almost inaudible.

DBW 2015 Coolant Heater

"The DBW 2015 coolant heater has proven itself to be one of the most reliable and popular heaters ever produced by Webasto. Now manufactured right here in North America, it has been the standard choice among owners and technicians for nearly 20 years."

The DBW 2015 coolant heater can provide "engine-off" heating, maintain minimum operating engine temperature and preheat your engine in cold weather. You will save operating costs by eliminating the need to idle engines to supply heat while on the water resulting in reduced fuel consumption and engine maintenance. Coolant heaters also reduce dependency on expensive shore power for heating while docked.

Choose the DBW 2015 coolant heater to provide fast heating and increased comfort levels for yacht and large boat enthusiasts.

- Nozzle burner system provides instant heat & low maintenance
- Lowest amp draw in its class ensures sufficient battery capacity
- Electronic ignition system ensures reliable starts and low power consumption
- Magnetic drive coolant pump eliminates seal leaking & replacement
- Developed & produced under ISO 9000 and QS 9000 quality assurance standards
- Manufactured in North America, Lapeer, Michigan



Webasto 2015 Specifications:	
Fuel Type:	Diesel
Heat Output:	45,000 Btu/h (13.1kW)
Maximum Fuel Consumption:	0.4 gal/h (1.5 l/h)
Rated Voltage:	12 or 24V
Power Consumption:	7.1 Amps @12V (85W) w/ coolant pump 3.5 Amps @ 24V (85W) w/ coolant pump
Dimensions:	23" L x 8-1/16" W x 9" H (584 mm L x 205 mm W x 228 mm H)
Weight:	33 lbs. (15 kg)

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Webasto DBW 2015 45,000 BTU



The DBW 2015 is a 45,000 BTU water heater. It utilizes a 1" water system, a 1 1/2" rigid exhaust system and a 1/4" supply only fuel system. It can heat up to a 52-foot sailboat or a 50-foot powerboat." * (Boat design, construction and cruising area environment may require an alternative heater recommended ion. Contact us if you have any questions.)

ITEM NO.	ITEM	QUANTITY	AMOUNT
DBW2015SW-12	Webasto Diesel Hot Water Heater 45,000 BTU 12v, Marine Installation Manual, Surewire Kit	1	\$3,156.53
MOUNTING EQUIPMENT			
W005-220	Aluminum Side Wall Mount Bracket	1	\$61.45
W600-014K	8MM Rubber Shock Mount Kit (Including 3 Mounts)	1	\$35.32
ELECTRICAL EQUIPMENT			
SC1600B	SC1600B Digital Room Thermostat	1	\$62.05
W005-378K	On/off Switch Kit	1	\$22.95
75135K-30	Main Power Breaker Kit	1	\$16.14
W005-213-KIT	3/4" Fan Aquastat Kit	1	\$32.76
EXHAUST EQUIPMENT			
W002-109	1.5" S/S 316 Grade Thru Hull FTG W/GSKTS	1	\$130.42
W005-110	1.5" S/S 316 Grade Long 90 Exhaust ELL W/Drain	1	\$100.45
W001-214	1.5" S/S 316 Grade Rigid Exhaust Tube	4ft	\$71.94
W002-780	1.5" All S/S Exhaust Clamps	3	\$39.62
W001-441	Exhaust Insulation Blanket	5ft	\$182.23
45050	High Temperature Exhaust Cement	1	\$11.22
PERM-81878	High Temperature Silicone Sealer	1	\$8.46
FUEL EQUIPMENT			
W11BVRK	Garber Fuel Filter W/MNT Bracket & Fittings	1	\$65.54
001-449	1/4" A-1 Fuel Rated Hose	20ft	\$67.06
WATER SYSTEM EQUIPMENT			
MP1200-12-2015	MP Model 1200 Water Circulation Pump Kit W/1" HB	1	\$496.02
WSMS-2LOOPK	2 Loop Manifold Kit 1" Hose to 3/4" Hose	2	\$87.94
WSMS-0092010	Water Conditioner Kit	1	\$153.12
W002-105B	SMS 5 Gallon Steel Buffer Tank Kit	1	\$191.91
W002-103	SMS 2.5 Gallon Steel Expansion Tank Kit	1	\$189.04
001-453	3/4" Webasto System Hose	100ft	\$283.33
002-850	1" Webasto System Hose	20ft	\$65.76
002-621S-1"	1" Shut Off Valve w/Barbs	2	\$34.34
001-394K	Drain Valve Kit	1	\$24.25
CLA-012	#12 S/S Hose Clamps	16	\$27.69
CLA-016	#16 S/S Hose Clamps	10	\$17.31
PERM-80019	Permatex Form-A Gasket #3, 4 oz Tube	1	\$6.77
AS05	FasSeal-ATS Anaerobic Tread Sealant with PTFE	1	\$25.58
FAN HEATER EQUIPMENT			
W002-6214	REAL Single 4" Outlet Fan Heater 7,000 BTU	1	\$288.29
W002-6424	REAL Dual 4" Fan Heater 14,000 BTU	1	\$360.19
W002-6414	REAL Single 4" Outlet Fan Heater Dual fan 14,000 BTU	1	\$328.54
W002-6013	REAL Single 3" Head Fan Heater 3500 BTU	1	\$221.28
W002-911.36	Fan Heater Two Speed Switch & Plate .36 amp	2	\$58.57
W002-911.70	Fan Heater Two Speed Switch & Plate .70 amp	2	\$63.58
	Kit Price		\$6,987.65

Special Kit Price (includes Free UPS Ground Shipping on Complete Kit within lower 48 States)

\$6,639.00

REV A-112

This is a generic kit that contains most parts that are likely needed for an installation. Additional parts may be added or subtracted to suit your particular installation requirements.

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Heating System Guidelines

WHY THE RIGHT SIZE IS IMPORTANT

Many factors are involved when choosing the right heater for a particular boat. The amount of space has to be taken into consideration when choosing a heater. However, merely purchasing a heater based on its compact size for the purpose of "taking the chill off" can be a costly mistake in the long run. Smaller heaters are attractive in boating because they do not take up too much storage space. Many boaters are willing to sacrifice a small temperature difference for that extra room, without knowing the future costs in installing the wrong heater.

A heater that is too small for a boat will work to perform up to the demand called by the thermostat. Even though the heater may keep the boat at only a minimum temperature for comfort, it will run excessively and cause maintenance problems due to wear. The wear that is caused from this excessive running is not covered under warranty, compacting the problem for the customer.

Another common mistake by some boaters is a hot rod mentality. Some customers have expressed interest in installing the largest heater possible in their boat, thinking it will cut down on operation and wear. This, too, is a mistake that can cost in maintenance. If a heater is over-sized for a boat it will be prone to "short cycle". Short cycling is when a heater does not run long enough for proper heat-up and cool-down or purge cycle. Like engines, heaters must be run, and there is a minimum run time for Webasto heaters. In this run time, the heater is allowed to come up to proper temperature and can properly purge itself of carbon buildup. If this time is not reached, the unit will be prone to burning improperly due to carbon buildup, and will begin to destroy its own electrical components.

SIZING A BOAT

Considering these problems, choosing the right heater is obviously very important. Great Lakes Marine Specialties offers a basic chart that can be a quick reference to guide an installer in the right direction. If there is concern about whether or not a heater is right for a boat, there are formulas that can be used to figure out the requirements for a boat. The internal volume of the spaces being heated should be multiplied by 12 if in a sailboat [(length x width x height) x 12], and by 15 if by a powerboat [(length x width x height) x 15]. These numbers will give a round number of the BTU requirements for a boat, but other factors must be taken into consideration.

When selecting a heater, the construction of the boat must be considered as well as its size. Windows are sources of heat loss that should be considered in a space. If a main salon has multiple windows, the amount of heat for that space should be raised. Whether or not a boat is insulated is also another factor. Un-insulated boats should also consider raising their heat requirements. These considerations are usually applied only if a boat size rests in between one of the heater sizing specifications. If a heater is well within the range of the performance of a particular heater, these factors may affect installation, but not sizing.

LIVE-ABOARD

Choosing a heater for a live-aboard application will throw out conventional wisdom in choosing a heater. Firstly, air heaters should not be used. The amount of time put on the heater maintaining a household temperature can be too much for an air unit; and, avoiding it as a main heater is advisable.

Most live-aboard boats are larger boats that may require a Thermo 90 or above if chosen for just cruising. If the boat is a live-aboard boat, the DBW 2010, or larger heater, should be installed. The DBW 2010 and DBW 2020/300 are the only heaters in the Webasto line that we advise for installation in a live-aboard situation. In the case of smaller boats that would normally require a Thermo 90, additional water capacity should be designed into the system with the 2010. This will cut down on the run time of the heater without having an effect on performance.

In the end, a properly sized and installed heater will run better and cost less in the long run. By putting in the right heater for the right application, the heater will work well and you will be happier.

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Proper heater size selection is very important to the operation of that heater. If the heater chosen for your boat is too small, it will not heat your boat adequately; and another possible consequence is heightened maintenance costs. This can come from the heater constantly running to maintain the temperature called for inside the boat. This is a very costly mistake, and faults due to overrunning are not covered under warranty. If the heater chosen is too big, it will not run properly as well. Heaters that are too large for their installation will "short cycle." Short cycling is when the heater runs in short bursts and shuts down before being properly heated up and purged. Short cycling will cause coking problems and, ultimately, failure of parts involved in the burning process.

Below is a list that gives a general idea of how to size a heater to a particular boat. Although this list is not exact, and factors such as location and purpose for the heater can affect the choice, the information comes from years of experience in selling and repairing these units. Be sure to contact Great Lakes Marine Specialties for exact information for your boat.

Heater	Sailboat Size	Power Boat Size
AT 2000ST	22-28 foot boat	20-24 foot boat
AT 3900	28-34 foot boat	24-30 foot boat
AT 5500	34-38 foot boat	30-34 foot boat
HL 60*	42-46 foot boat	38-42 foot boat
TSL 17	28-30 foot boat	26-28 foot boat
Thermo 90ST	38-42 foot boat	34-40 foot boat
DBW 2010*	42-48 foot boat	40-47 foot boat
DBW 2015*	44-52 foot boat	42-50 foot boat
DBW 2020*	48-56 foot boat	47-58 foot boat
DBW 300*	56-62 foot boat	58-65 foot boat

*Heaters for live aboard application