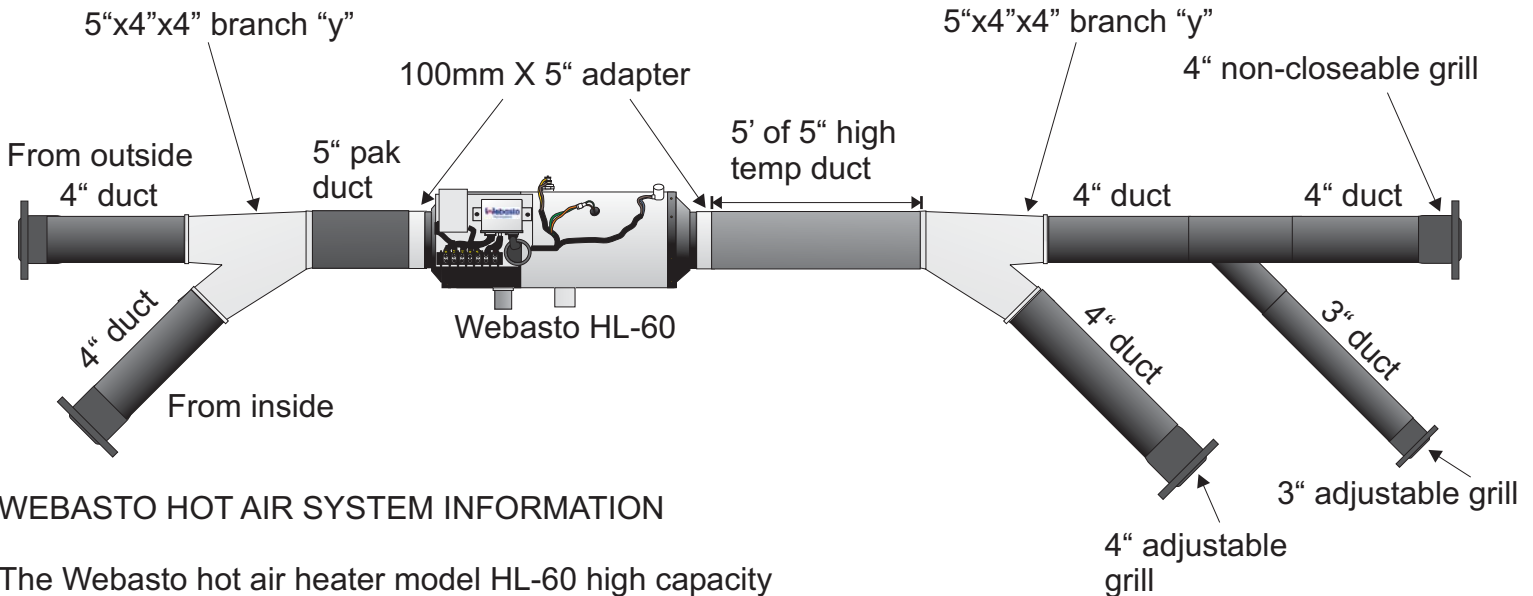


Specifications	
Heat Output:	
Full	25,000 btu
Input Rating Based On	
Fuel Consumption: (Diesel)	
Full	.22 GPH
Rated Voltage:	12v or 24v
Electrical Power Consumption @ 12v:	
Full	6.3 amps
Start-up (first 30 secs.)	20.75 amps
Dimensions	9.56" x 9.25" x 10.25"
(L x W x H)	650mm x 235mm x 260mm
Weight	29 lbs.
Hot Airflow (unrestricted)	115 CFM



HL-60



WEBASTO HOT AIR SYSTEM INFORMATION

The Webasto hot air heater model HL-60 high capacity air flow requires proper selection of ducting material, size and length, as well as a 5 foot run of high temperature 5 inch duct. The HL-60 should be installed with an intake taken from inside and outside of the boat. All information provided in the installation manual should be followed.



Sure Marine Service
(206) 784-9903



Webasto Hot air Heating System for 40 to 50 foot boats HL 60

The HL 60 is a heater designed to heat boats from 40 to 50 feet in size (depending on make and model). This diesel-fired heater that is rated to 22,000 BTU and is available in 12 or 24 volt.

The HL 60 is an air heater designed to blow air through installed duct run to various spaces in the boat. The unit is controlled by a central thermostat that shuts the unit down when the boat's interior has reached the desired temperature. Benefits of an air heater are simple installation and operation as well as quick heat. The duct design of the HL 60 allows the unit to be installed with a simple run of duct from the heater to the spaces that need heat. This simple installation allows the heater to blow hot air into the cabin just after startup without a warm-up period.

When choosing a system to heat your boat, installation requirements should be taken into account. A clean, dry location should be chosen for the mounting of the heater. Once this spot is chosen it should be checked against the parameters of the heater's system. Exhaust run and placement should be taken into consideration when choosing a location for the unit. The HL 60 uses 1 ½" rigid exhaust tube that must vent over the side or aft transom of the boat. Location for the thru-hull should be as high (min 36 in.) and far aft as possible to prevent water intrusion into the exhaust system. The HL 60 can have a maximum of 10 ft. of exhaust installed with a maximum of 270° of bends. The unit should not have more than 50 ft. of duct installed and should have no sharp turns within 2 ft. of the unit itself. The placement of the heater should conform to these specifications before the installation process begins.

Along with heater placement, placement of the duct for the heater is also important. The HL 60 uses 5 in. and 4 in. duct that must be installed in such a manner that it cannot be crushed or knocked loose during cruising or boat use.

Once heater placement has been chosen, heat outlet locations should be chosen. All outlets should be located low in the space because heat rises. The main salon should have on 4 in. open-only outlet installed and this should be the first outlet in the line. Other smaller spaces can have 3 in. or even 2 in. outlets depending on the needs of that particular space.

With this information, heater choice for your boat should be a bit easier (or perhaps harder if you cannot meet some of the specifications listed). If you have any further questions on installation or operation, please contact Sure Marine Service for information or to purchase a complete marine heater installation manual.