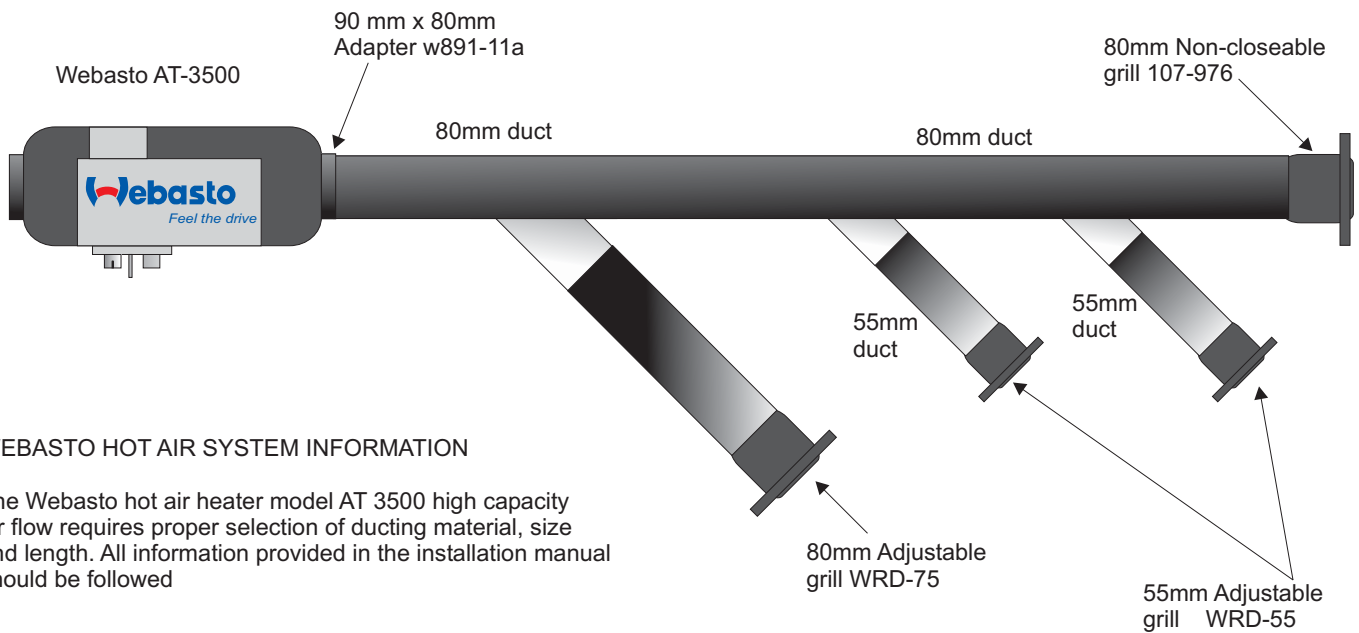


Specifications	
Heat Output:	
Full	12,000 btu
Input Rating Based On	
Fuel Consumption: (Diesel)	
Full	.11 GPH
Rated Voltage:	12v or 24v
Electrical Power Consumption @ 12v:	
Full	3 amps
Start-up (first 30 secs.)	10 amps
Dimensions	16½" x 6 1/8" x 7¼"
(L x W x H)	420mm x 152mm x 184mm
Weight	13lbs.
Hot Airflow (unrestricted)	82cfm (145 m <sup>3</sup> /h)





**Sure Marine Service**  
(206) 784-9903



## **Webasto Hot air Heating System for 28 to 34 foot boats AT 3500**

The AT 3500 a heater designed to heat boats from 30 to 38 feet in size (depending on make and model). This unit is diesel-fired heater that is rated to 12,000 BTU and is available in 12 or 24 volt. To figure the BTU's necessary for your boat, measure the internal volume to be heated and multiply the cubic feet by 15 for powerboats and 12 for sailboats. This should give you a round figure for BTU requirements for your particular boat.

The AT 3500 is an air heater designed to blow air through installed duct ran 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 AT 3500 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 AT 3500 uses 24 mm exhaust flex 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 AT 3500 can have a maximum of 10 ft. of exhaust installed with a maximum of 270° of bends. The unit should not have more than 30 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 AT 3500 uses 80mm 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 one 80mm open-only outlet installed and this should be the first outlet in the line. Other smaller spaces can have 55mm 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.