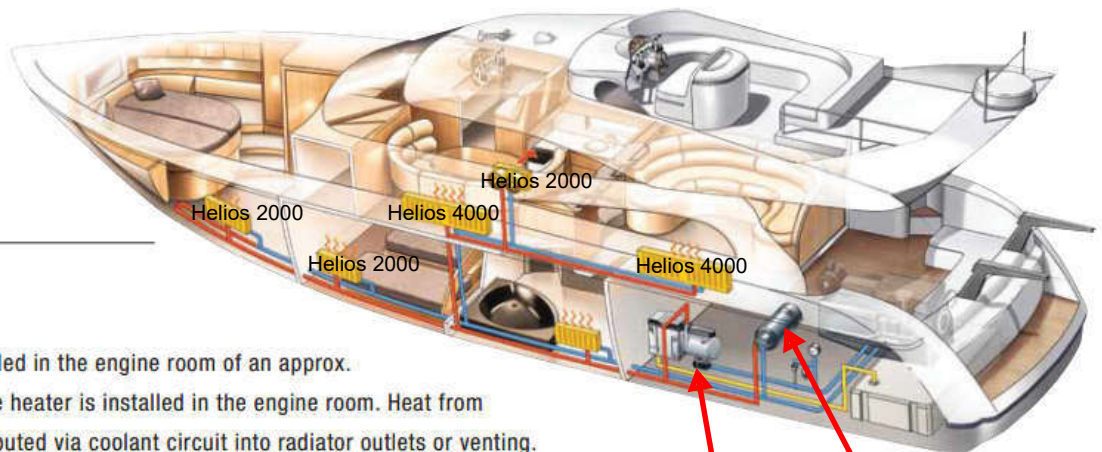


ESPAR / EBARSPACHER HYDRONIC M-II HEATER SYSTEM FOR SALE



INSTALLATION EXAMPLE

A Hydronic M-II heater is installed in the engine room of an approx. 35ft. yacht. In this example, the heater is installed in the engine room. Heat from warmed coolant/water is distributed via coolant circuit into radiator outlets or venting.

COOLANT HEATERS		HYDRONIC M-II *
Heat Output (kW/BTU)	High	12 / 42000
	Low	1.2 / 4100
Coolant/Water Throughput (l/h / US gal/h)		1400 / 370
Fuel Consumption (l/hr / US gal/hr)	Diesel 1/2	
	High	1.5 / 0.40
	Low	0.15 / 0.04
Fuel Metering Pump		External
Electrical Consumption (amps) (12V shown, 12V or 24V available)	High	11.0
	Low	2.8
Coolant Pump		External
Weight (kg/lbs)		6.2 / 13.7



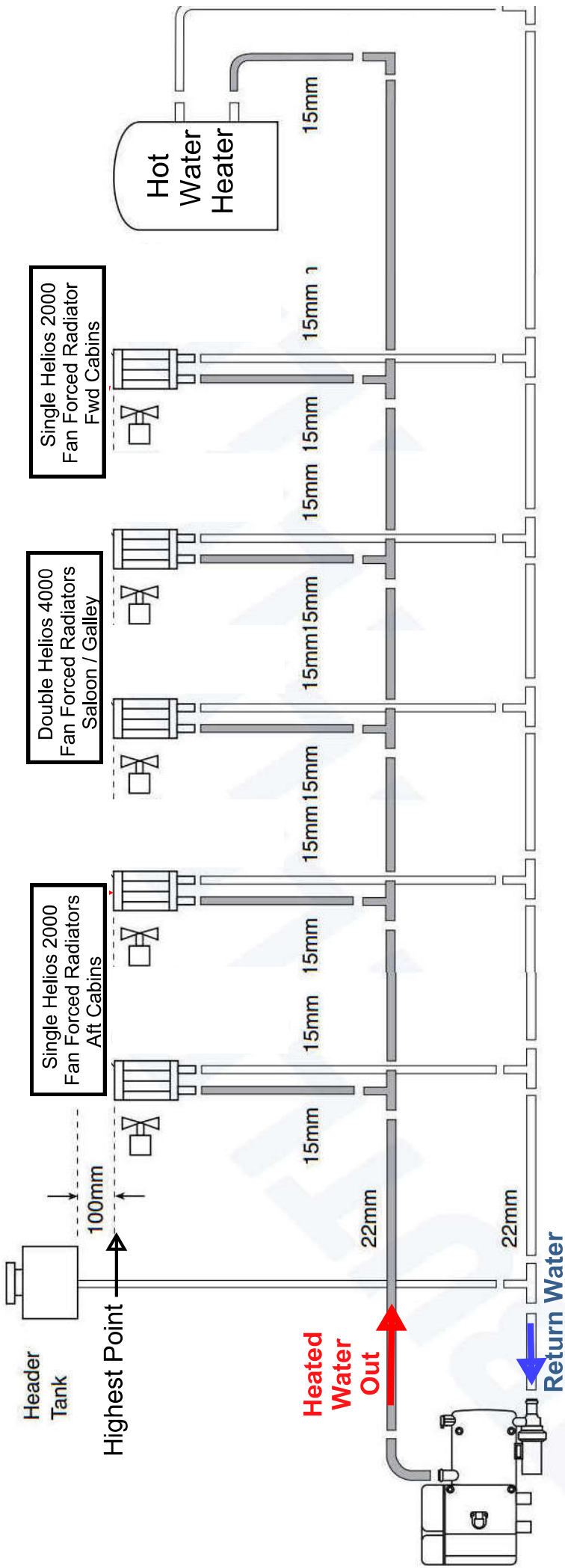
	Helios 2000		Helios 4000	
	High /daytime	Low/night	High /daytime	Low/night
Heat output W	2,000	1,500	4,000	3,000
Air flow volume - cubic ft	4,414	2,811	8,784	5,650
Current draw Amps	9	7	1.8	7
Noise Decibels	41	34	48	41
Width	239 mm / 9.4"		239 mm / 9.4"	
Height	170 mm / 6.7"		170 mm / 6.7"	
Depth	124mm / 4.9"		124mm / 4.9"	
				

HELIOS HEATER ADVANTAGES:

Very quiet / Lower current consumption / Durable motor
Simple installation with the outlet on the left or right
Switch with 3 settings

ESPAR / EBARSPOCHER HYDRONIC M-II HEATER SYSTEM EXAMPLE

The header tank should always be connected to the return pipework going to the water pump. The header tank should be sited in a position where it can be easily topped up. It should be mounted at a height not less than 100mm above the highest component on the installation. The highest component on the installation could be the pipework, radiator, fan matrix or hot water tank



Actual Componenets

252472050000

Espar / Eberspacher Hydronic M-11 D12W 12V Heater



Fuel Hose & Pump



292100300135

4 X THERMOSTAT AMB BLACK 12V with On/Off Switches



221000328800

EASystart MULTIFUNCTION TIMER



Eberspacher
Fuel pump wiring loom

Qty 3 Helios 2000
Fan Forced Radiator



2 X Helios 4000 Fan Forced Radiator



Controller Harness



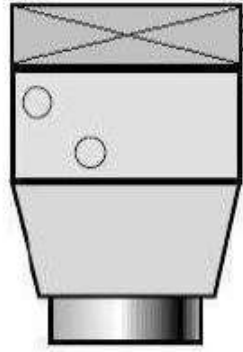
Exhaust Parts



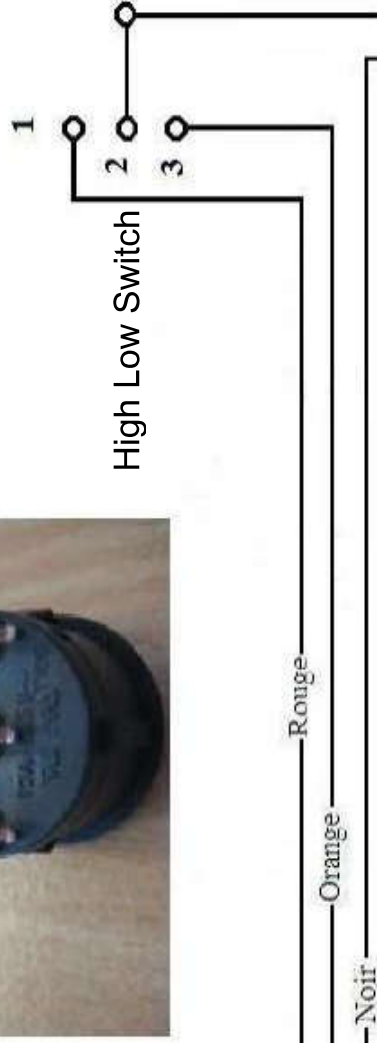
Expansion Tank



Helios 2000 or 4000
Fan Forced Radiator

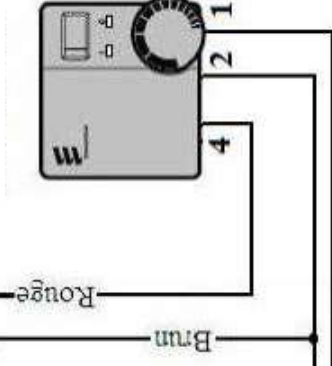


High Low Switch



High Low Switch

Thermostat



Rouge

Brun

Rouge



Batterie

High Low Switch

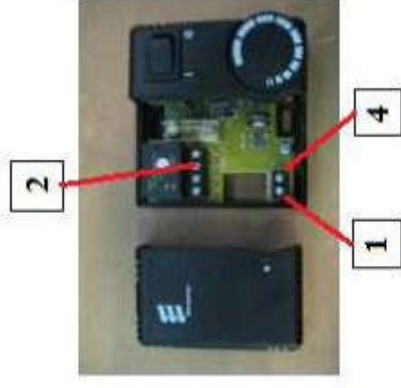
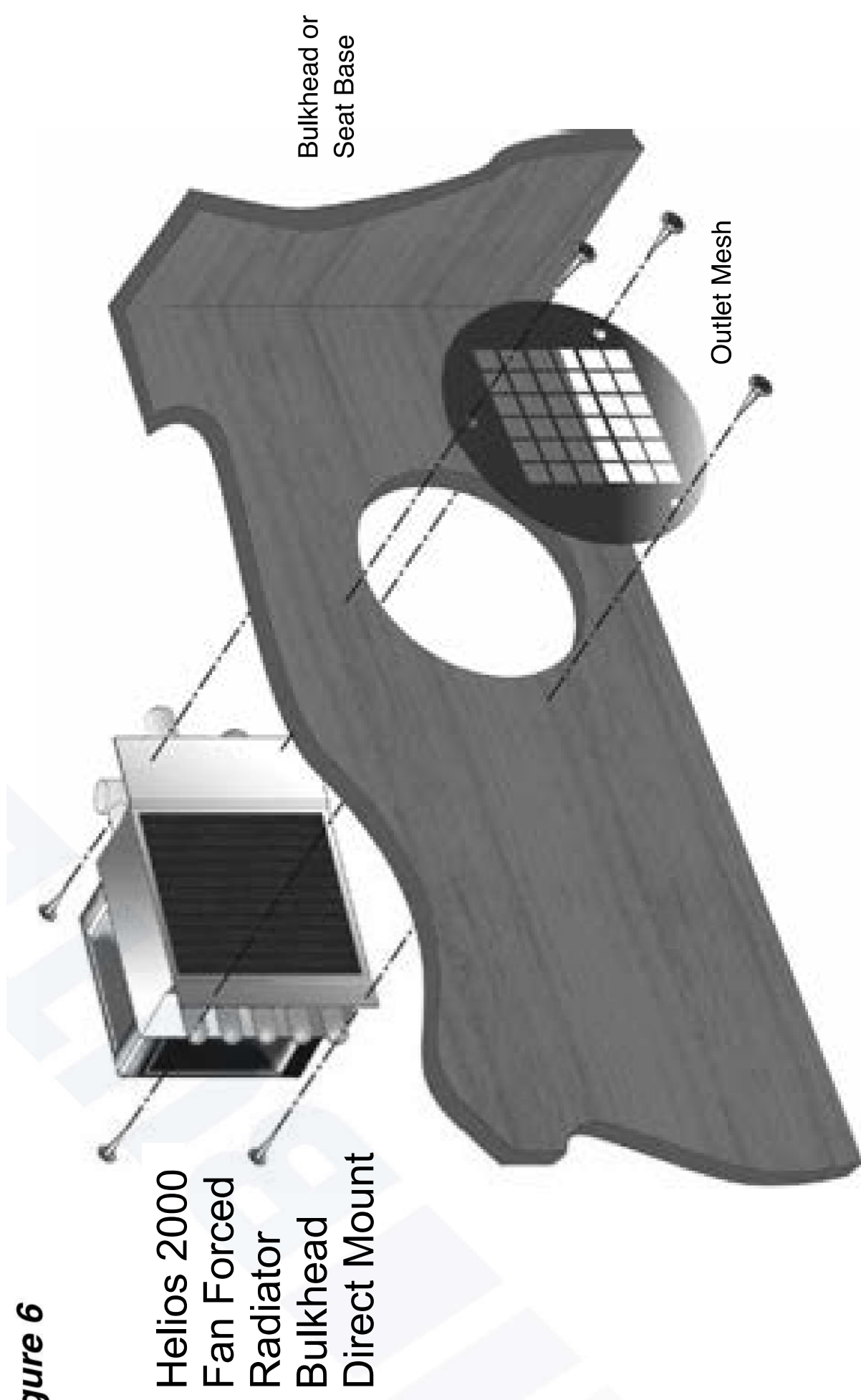
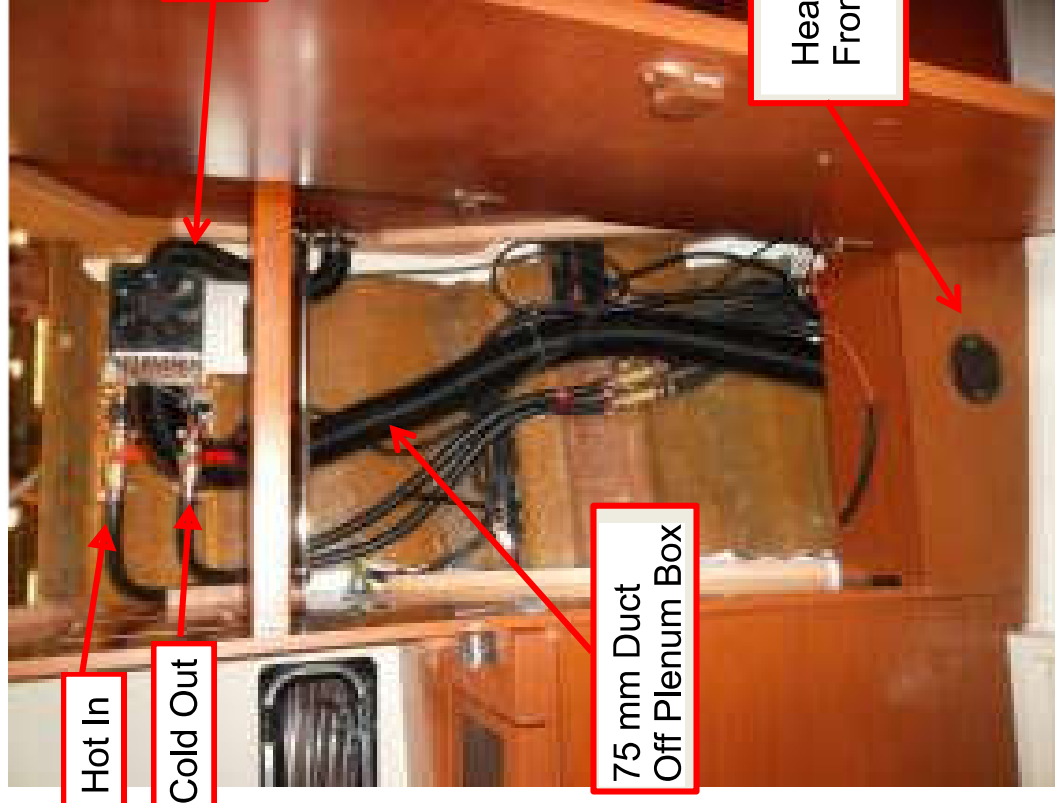


Figure 6



Helios 2000 Aft cabin install example



Helios
2000

50 mm Duct
Off Plenum Box

Helios 2000
ducting from a
plenum box, aft
cabin hanging
locker



Hanging Locker
Air Intake Grill



Heater Hot Air Vent
From 50 mm Duct

Aft
Cabin
Bulkhead

Heater Hot Air Vent
From 75 mm Duct