

DESCRIPTION

Main components of the VK Air Conditioning Unit are:

- two speed centrifugal fan with motor fixed with permanently lubricated bearings and features impedance overload protection;
- copper evaporator coil with mechanically bonded aluminium fins;
- shell and tube type condenser which is suitable for cooling by sea water (or plate type suitable for cooling by fresh water);
- high speed and hermetically sealed compressor which is resiliently mounted for quiet vibration-free operation and fitted internal overload;
- a washable filter which is situated behind the air intake grille;
- electrical panel which is located behind the right hand side panel and includes contractor, circuit breaker and mains connection block;
- controls – manually operated switch and thermostat at front of unit.

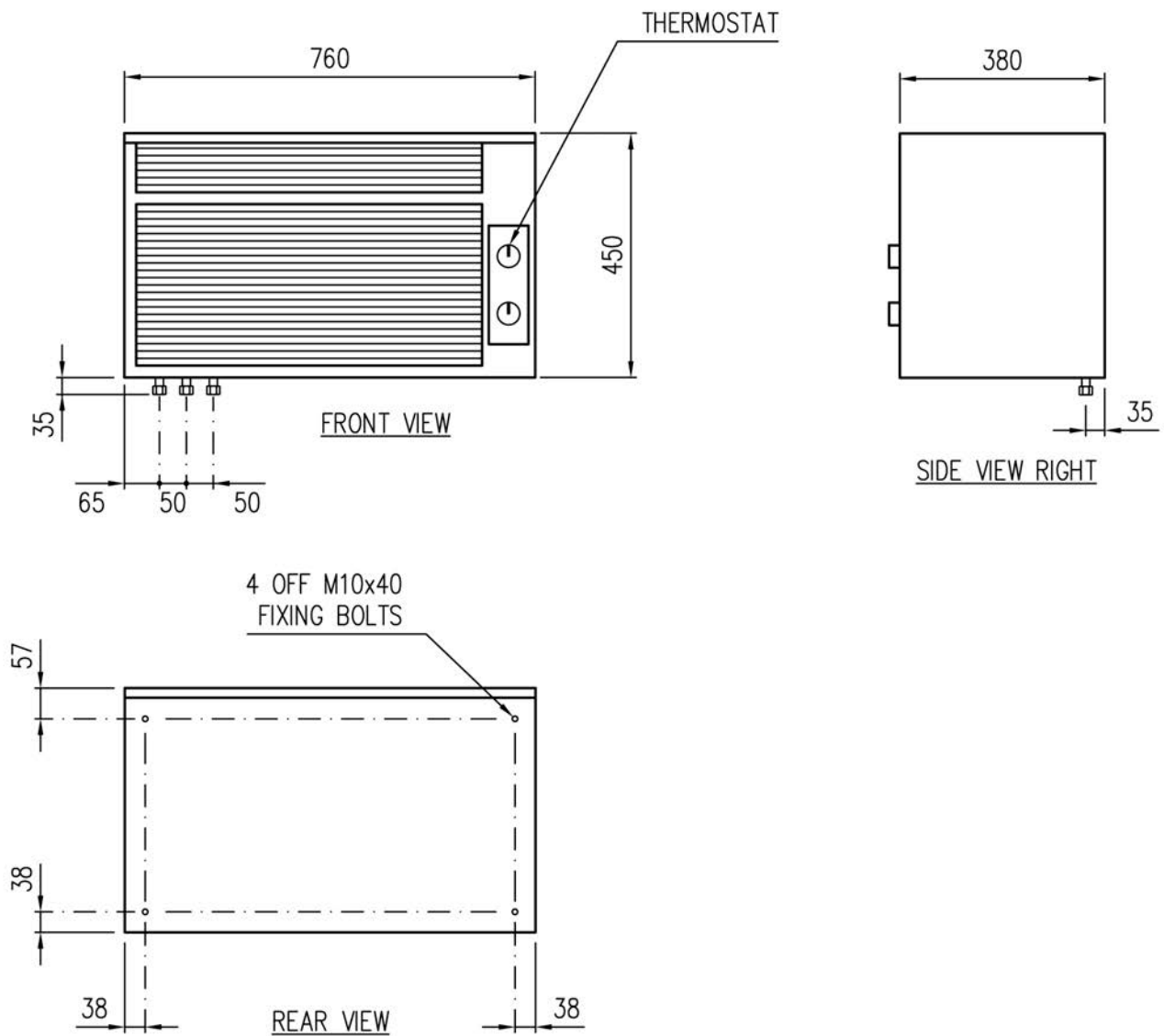
The unit can be fixed to a bulkhead by means of the M10 bolts incorporated at the rear of the unit. The brackets should be of robust design and capable of taking the unit weight of 80kg.

TECHNICAL SPECIFICATION

Model		VK12	VK18
Nominal cooling load [kW]		3.50	5.25
Cooling water flow [l/min]		10 (ΔP 1.8 mWG; 32°C)	15 ($P\Delta$ 0.5 mWG; 32°C)
Nominal air flow	Low [m ³ /h]	300	350
	Medium [m ³ /h]	400	500
	High [m ³ /h]	500	675
Fan motor rating [kW]		0.037	0.045
Compressor motor power [kW]		1.87	2.28
Nominal water quantity [m ³ /h]		0.72	0.87
Dimensions [mm]	Height	450	550
	Width	760	760
	Depth	380	380
Weight [kg]		70	90
Electric heating [kW]		1.5	1.5

Addition notes:

- sea water cooled shell and tube condenser;
- available with R404A, R407C, R134a refrigerants;
- zinc coated mild steel casing with powder coated paint finish RAL 9018 (grey);
- removable panels for access and maintenance;
- quick release grille for air filter cleaning and replacement;
- units supplied factory precharged only requiring suitable water and electrical connections;
- electric supply:
 - 110V 1ph 60Hz (VK12 only)
 - 220V 1ph 50/60Hz
 - 380V 3ph 50Hz
 - 440V 3ph 60Hz

DIMENSIONS**VK12**

VK18

