

04

SELF CONTAINED UNITS

- **SEA WATER COOLED**

- **TYPE FVK**

- NOMINAL COOLING CAPACITIES (3,5 - 5,25 Kw)

- **TYPE FTR**

- NOMINAL COOLING CAPACITIES (7,0 - 70,0 Kw)

- **TYPE CARRIER 90MA/MU**

- NOMINAL COOLING CAPACITIES (10,5 - 35,1 Kw)

- **TYPE FXVWM**

- NOMINAL COOLING CAPACITIES (8 - 90 Kw)

- **FRESH WATER COOLED**

- **TYPE FKW**

- NOMINAL COOLING CAPACITIES (10,0 - 70,0 Kw)

- **TYPE FKWG**

- NOMINAL COOLING CAPACITIES (10,0 - 25,0 Kw)

- **AIR COOLED**

- **TYPE FVKA**

- NOMINAL COOLING CAPACITIES (3,5 - 7,0 Kw)

- **TYPE FFP**

- NOMINAL COOLING CAPACITIES (3,5 - 7,0 Kw)

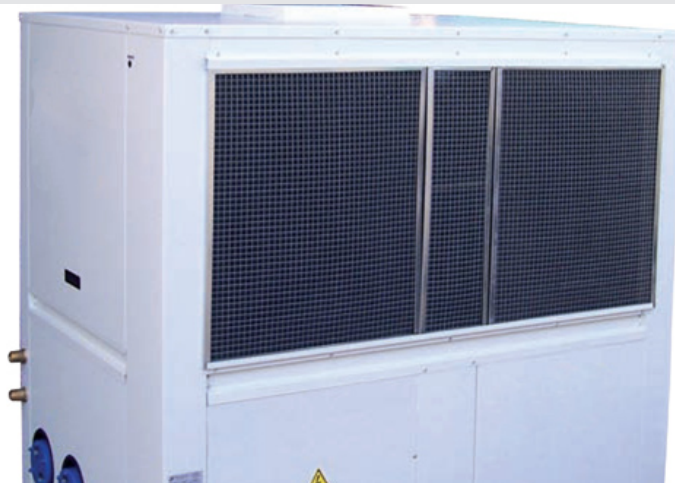
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REV 0108

TYPE FXVWM

NOMINAL COOLING CAPACITIES
(8 - 90 Kw)



Equipments specially designed for Air Conditioning of cabins, lounges, technical rooms, engineering rooms, etc... in general, for different marine applications.

Casing is made of galvanised steel sheet with semi-rigid PVC film coating. They are sea water condensed and incorporate a reverse blade centrifugal fan to enable the system to be installed in the HVAC room and can be connected to a supply air duct system. Its design using removable panels provides easy access to the different elements.

GENERAL DESCRIPTION

- Hermetic compressors with internal protection incorporated and external protection by circuit-breaker.
- Copper tube coils with aluminium fins, polyvinyl coating.
- Internal reverse blade centrifugal fan.
- Multi-pipe exchanger, with cupronickel pipe and AISI-316L stainless steel terminal covers.
- Cleanable air filter.
- Anti-acid dehydrator filter
- Thermostatic expansion valve.
- High and low pressure switches.
- Drain pan with double drainage
- Refrigerant R407C
- Fully wired switchboard including: thermostat with electronic regulation.
- Circuit-breaker in all compressors and in the three-phase motors
- General door switch
- Anti-short-cycle timing
- 380V-220V transformer
- General earthing

Electronic Thermostat



Models 02 to 06



Models 07 to 25 and which incorporate electrical heaters



FXVWM - 50 Hz: TECHNICAL DATA

FXVWM - 50Hz				02	03	04	05	06	07	08	10	12	15	17	20	25
Nominal cooling capacity *	(W)			8360	10410	13670	17060	19710	21480	26110	34200	38270	42960	52220	68400	76540
Total absorbed power *	(W)			2890	3680	4560	5890	5580	7210	8590	11100	12310	14360	17180	22280	24700
Nominal current																
220V / 3~ / 50Hz	(Amps)			12	14	18	21	23	28	35	44	50	56	71	89	101
380V / 3~ / 50Hz				7	9	10	12	13	15	17	25	28	29	34	51	56
Air flow	(m3/h)			1400	1600	2200	2800	3100	3300	4400	5300	6000	6600	8800	10600	12000
Available pressure	(mm.c.a.)			90	90	90	90	90	90	90	90	90	90	90	90	90
Water flow	(l/h)			2100	2600	3400	4200	4800	5300	6400	8400	9400	10600	12800	16800	18800
Water pressure drop	(m.c.a.)			4.0	3.6	4.0	3.5	4.5	2.5	4.0	5.0	4.6	2.5	4.0	5.0	4.6
Diameter of hydraulic connections				1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2" x2	1-1/2" x2	1-1/2" x2	1-1/2" x2
Unit dimensions	H (mm)	(kW)		1350	1350	1350	1350	1350	1350	1350	1550	1550	1750	1750	1750	1750
	W (mm)	(kW)		800	1000	1000	1350	1350	1350	1350	1440	1440	1800	2000	2800	2800
	D (mm)			650	650	650	650	750	750	750	1100	1100	1190	1190	1190	1190
Unit weight (kg)			150	160	205	225	250	305	330	350	365	430	540	650	700	

Nominal conditions for cooling (air 27 °C, 50% RH)
Inlet water temperature 30 °C





FXVWM - 60 Hz: TECHNICAL DATA

FXVWM - 60Hz				02	03	04	05	06	07	08	10	12	15	17	20	25
Nominal cooling capacity *	(W)			9780	12180	15990	19450	23060	25130	29770	38990	45540	50260	59540	77980	91080
Total absorbed power *	(W)			3820	4340	5820	6770	6540	9280	10880	12950	14740	18560	21760	25900	32000
Nominal current 440V / 3~ / 60Hz	(Amps)			7	8	11	12	13	16	18	25	28	32	37	51	60
Air flow	(m3/h)			1600	2200	2800	3100	3300	4400	5300	6000	6600	8800	10600	12000	16000
Available pressure	(mm.c.a.)			90	90	90	90	90	90	90	90	90	90	90	90	90
Water flow	(l/h)			2400	3000	3900	4800	5700	6200	7300	9600	11200	12300	14600	19200	22400
Water pressure drop	(m.c.a.)			3.6	4.0	3.5	4.5	2.5	4.0	5.0	4.6	2.5	4.0	5.0	4.6	4.0
Diameter of hydraulic connections				1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2" x2	1-1/2" x2	1-1/2" x2	1-1/2" x2
Unit dimensions	H (mm)	(kW)		1350	1350	1350	1350	1350	1350	1550	1550	1750	1750	1750	1750	1850
	W (mm)	(kW)		1000	1000	1350	1350	1350	1350	1440	1440	1800	2000	2800	2800	2800
	D (mm)			650	650	650	750	750	750	1100	1100	1190	1190	1190	1190	1190
Unit weight (kg)			155	168	215	235	265	315	340	360	410	460	580	670	740	

Nominal conditions for cooling (air 27 °C, 50% RH)
Inlet water temperature 30 °C



OPTIONALS

· HEATING COIL

All electrical heaters will be assembled in an external box at the discharge opening of the internal fan. The electrical heaters are made of stainless steel pipes and galvanised steel fins.

HEATING COIL	02	03	04	05	06	07	08	10	12	15	17	20	25
3 Kw. 380 V.III 1 step	○	○	○	○	○	-	-	-	-	-	-	-	-
6 Kw. 380 V.III 1 step	○	○	○	○	○	-	-	-	-	-	-	-	-
9 Kw. 380 V.III 1 step	-	○	○	○	○	○	○	○	○	-	-	-	-
12 Kw. 380 V.III 1 step	-	-	-	○	○	○	○	○	○	○	○	○	○
18 Kw. 380 V.III 1 step	-	-	-	-	-	○	○	○	○	○	○	○	○
18 Kw. 380 V.III 2 steps	-	-	-	-	-	○	○	○	○	○	○	○	○
24 Kw. 380 V.III 1 step	-	-	-	-	-	-	-	○	○	○	○	○	○
24 Kw. 380 V.III 2 steps	-	-	-	-	-	-	-	○	○	○	○	○	○
36 Kw. 380 V.III 1 step	-	-	-	-	-	-	-	-	-	○	○	○	○
36 Kw. 380 V.III 2 steps	-	-	-	-	-	-	-	-	-	○	○	○	○

○ Available
 - Not available

· EVAPORATION PRESSURE REGULATION

· R404a REFRIGERANT

· SOUND INSULATION OF THE COMPRESSOR

· THERMOSTAT WITH TIME PROGRAMMING

· BODYWORK MADE OF ALUMINIUM SHEET

· SUPPLY PLENUM FOR CIRCULAR DUCTS CONNECTION OR FREE BLOWING OPERATION.



SUPPLY PLENUM FOR AIR DISTRIBUTION

