

MAEX



Marine fancoil units



General features

- The fan coil units are designed for the use in marine field to fit in accommodation spaces like cabin, living room, office and all other rooms with high-quality finish and low noise level.
- Cooling capacity ranging from 1,0 kW to 10,3 kW.
- Air flow ranging from 150 m³/h to 1.920 m³/h.
- Heating capacity ranging from 2,5kW to 21,5kW.
- Suitable for 230V-1ph-50/60Hz.



Casing

- The casing is made in galvanized metal sheet post painted with epoxy powders; marine resistant, RAL9016.
- Supply grille made in fire retardant plastic suitable for marine use and in according to Registers.
- Frontal intake grille made in galvanized metal sheet post painted with epoxy powders easily removable for filter inspection and maintenance.

Fan

- Direct drive fan, forward blades made in galvanized steel, dynamically and statically balanced.
 - Electric motor suitable for 50 or 60Hz as standard.
- On request at 115V with surplus.

Filter

- Synthetic filter as standard with efficiency EU1; washable and renewable.
- Panel filter type class G3, washable and renewable. As option.
- Option class G4 also available.

Heat exchanger

- Standard heating/cooling coil made of copper pipes and aluminum fins, optionally in copper pipes and copper fins.
- Air vent valve included. Accessible for venting from the side and from the outlet.

Drip tray

- Made in galvanized metal sheet externally isolated to prevent condensation, folded in the middle to grant full discharge of the condensates, with double drain especially designed for marine environment.

Configuration

- Several configurations are available to meet all type of installation on board:
 - Ceiling mounted type with decorative cabinet, with rear suction (HMF) or with frontal mounted grille (HMAF).
 - Wall mounted type with decorative cabinet and suction from bottom (VMF) or from frontal mounted grille (VMAF).
 - Ceiling mounted type for concealed installation, with rear suction (HCF) or frontal suction (HCAF).
 - Vertical wall mounted type for concealed installation, with bottom suction (VCF) or frontal suction (VCAF).

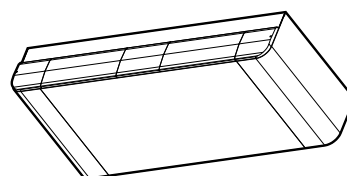
Control of the units

- The fancoil can be equipped with two different type of controls
 - Controlled in room by thermostat, built-in or remote.
 - Controlled by PLC locally or remote.
- The fancoil is equipped with 3way/4poort valve with actuator for on-off or proportional control.
- All models and configuration are equipped with terminal box

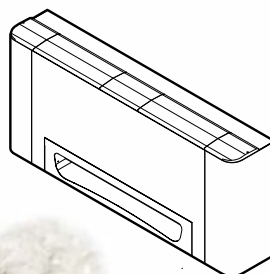
Accessories

- The following options are available:
 - Electric heating coil with relay.
 - Suction and discharge plenum with spigots or rectangular flange.
 - Cu/Cu coil.
 - Casing in stainless steel.
 - Section switch

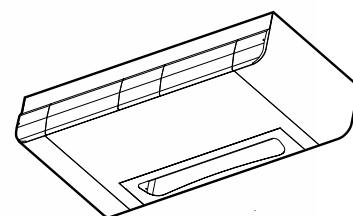
HMF & VMF



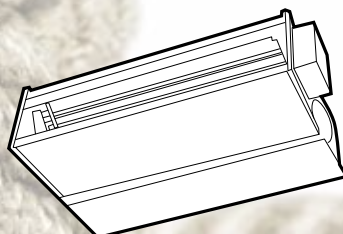
VMAF



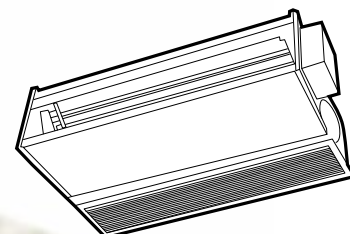
HMAF



**HCF
if vertical VCF**



**HCAF
if vertical VCAF**



MAEX Marine fancoil units

TECHNICAL DATA			speed	108	120	234	347	460	575	685
Air flow (a) (c)	Max	m ³ /h	345	330	590	916	1249	1425	1920	
	Med	m ³ /h	250	235	445	585	1050	1220	1600	
	Min	m ³ /h	175	156	300	390	860	1035	1250	
Total cooling Capacity (a) (c)	Max	kW	1,2	1,93	3,18	5,11	6,3	7,2	10,3	
	Med	kW	0,84	1,6	2,58	4,04	5,6	6,5	8,6	
	Min	kW	0,76	1,17	1,85	2,91	3,87	5,11	7,2	
Sensible capacity (a) (c)	Max	kW	1,04	1,46	2,47	3,93	4,93	5,69	8,36	
	Med	kW	0,82	1,21	2,02	3,09	4,52	5,25	6,82	
	Min	kW	0,7	0,87	1,41	2,17	3,04	4,11	5,72	
Pressure drop	Max	kPa	2,9	14,6	7	20,6	29,5	14,8	23,9	
Heating capacity (a) (c)	Max	kW	2,94	4,27	7,43	11,37	14,98	16,8	21,5	
	Med	kW	2,1	3,46	5,9	8,71	12,63	14,9	18,06	
	Min	kW	1,71	2,52	4,24	6,17	8,38	11,44	14,85	
Pressure drop	Max	kPa	1,9	14,6	7,1	19,3	29,5	15	20,6	
Pressure noise level (b)	Min	dB(A)	21,5	24,6	26,6	28,6	39,6	45,6	43,5	
Electric heater		W	1000	1000	1250	1250	2000	2000	2000	
Absorption power (c)	Max	W	34	32	44	95	136	147	210	

(a) Capacity are stated in accordance to ISO 7547.

(b) At min speed. At 1,5 meters from unit.

(c) Cooling water delta temperature 6 degrees. Heating water delta temperature 20 degrees. Same coil used for heating and cooling.

Model MAEX

SIZE	VERSION	CASING	COIL	CONNECTION	ACCESSORIES
108 = 345 m ³ /h	VMF & HMF = Vertical or Horizontal with casing; bottom or rear suction				
120 = 330 m ³ /h	VMAF & HMAF = Vertical or Horizontal with casing Frontal suction	1= Aluzinc	AL= Al/Cu	DX= right	Thermostat PLC
234 = 590 m ³ /h	VCF & HCF = Vertical or Horizontal concealed Bottom or rear suction	2= Aluzinc painted RAL 9016	CU= Cu/Cu	SX= left	Supply plenum PMS-M
347 = 916 m ³ /h	VCAF & HCAF = Vertical or Horizontal concealed Frontal suction	3= Stainless steel AISI 304			Electric heater ERX
460 = 1249 m ³ /h					Return plenum PAS-M
575 = 1425 m ³ /h					Section switch SW
685 = 1920 m ³ /h					

Horizontal with cabinet

HMF if vertical VMF HMAF

Vertical with cabinet

VMAF

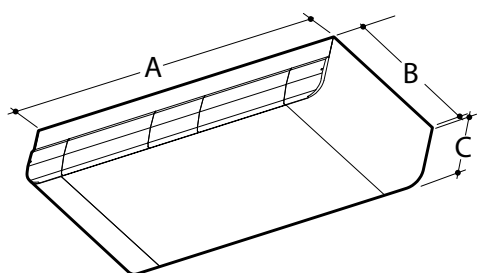
Concealed

HCAF if vertical VCAF

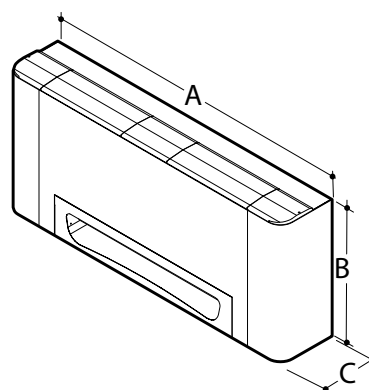
HCF if vertical VCF



	SIZE		108	120	234	347	460	575	685
Dimensions	A	mm	898	898	1198	1448	1448	1698	1948
	B	mm	531	531	531	531	531	531	531
	C	mm	226	226	226	226	226	226	226
Weight		Kg	19	21	26	33	35	39	44

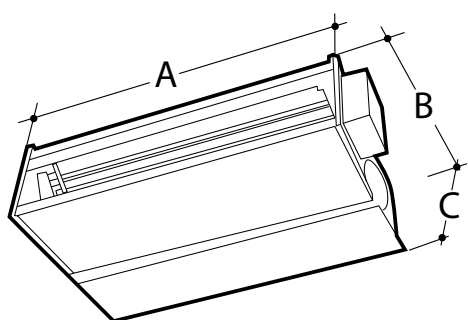


HMF (if vertical VMF)
Horizontal with cabinet and frontal suction

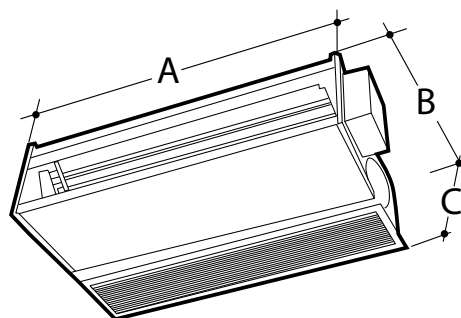


VMAF (if horizontal HMAF)
Vertical with cabinet and frontal suction

	SIZE		108	120	234	347	460	575	685
Dimensions	A	mm	558	558	818	1078	1078	1338	1598
	B	mm	500	500	500	500	500	500	500
	C	mm	218	218	218	218	218	218	218
Weight		Kg	17	18	23	29	31	35	41



HCF-Horizontal Built-In model.
If vertical it becomes VCF



HCAF-Horizontal Built-In model.
If vertical it becomes VCAF



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