



EAM

Conditioning machines

Thermal and refrigerant power from 9 to 50 kW

Air flow from 1.500 m³/h to 10.000 m³/h



Features

The machines of the EAM series are Ufad active terminals for the distribution of air in the zones. With 5 sizes, range from 1.500 to 10.000 mc/h of air flow, these machines cover most of the plant requirements.

The machines of the EAM series are characterized by being versatile and can adapt with any need in the air diffusion. They are particularly suitable for commercial and hotel installations for applications in small, medium and large areas.

Installed in combination with the ONE booster units make the system efficient and comfortable any Ufad environment.

Structure consisting of the frame with aluminum profiles and sandwich panels with a thickness of 25 mm in galvanized steel inside, in steel painted on the outside, with interposed polyurethane (40 kg / m³).

Backward curved centrifugal **fan** with directly coupled motor. The motor speed can be selected using the control panel. The fan is fixed on special anti-vibration mounts which prevent the transmission of vibrations to the structure of the machine. Prevalence available above 150 Pa.

3-row **battery** powered by water and made of copper tube with aluminum fins. The machine is equipped with threaded sleeves for hydraulic connections.

Condensate **drain pan** in galvanized steel.

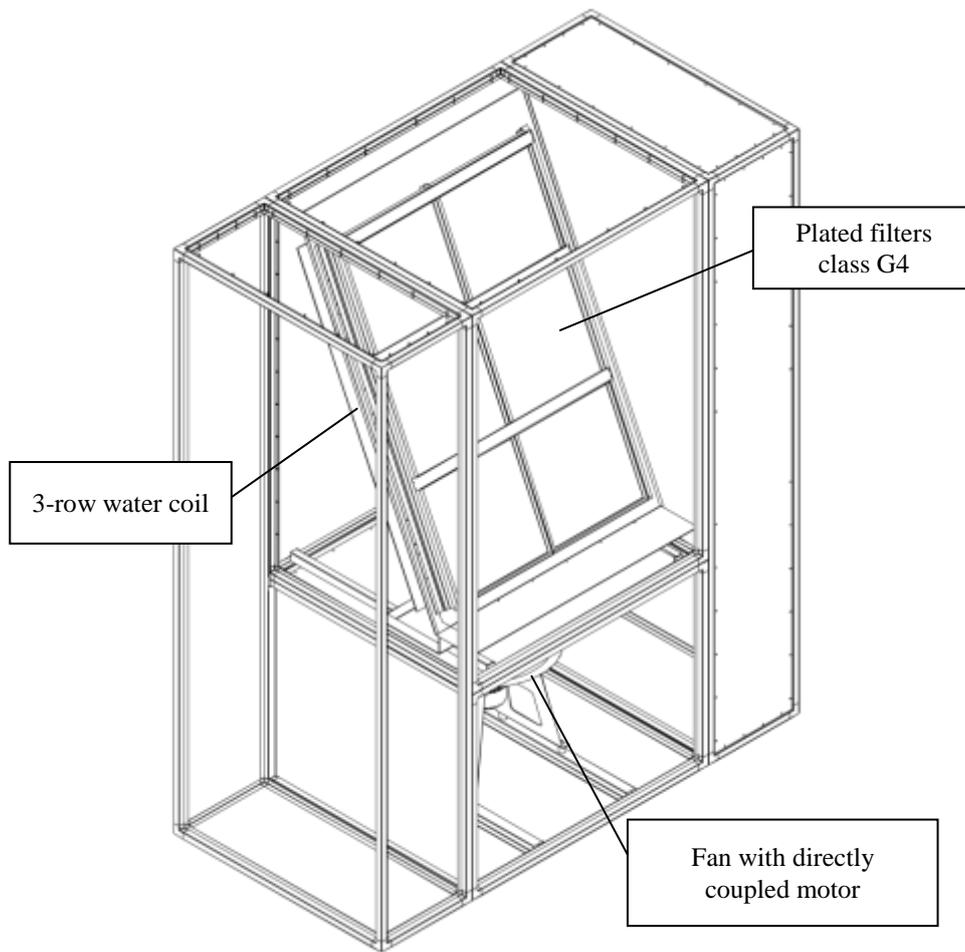
Standard **air filtration** by means of class G4 pleated filters, positioned in suction on a special metal frame.

Electrical panel in compliance with CE standards, positioned outside the machine and isolated from the air flow. It is equipped as standard with a main switch with the possibility of setting the summer / winter operation mode. A terminal board is provided for the connection of up to 4 dampers (optional), minimum thermostat and humidifier (when present).

Accessories

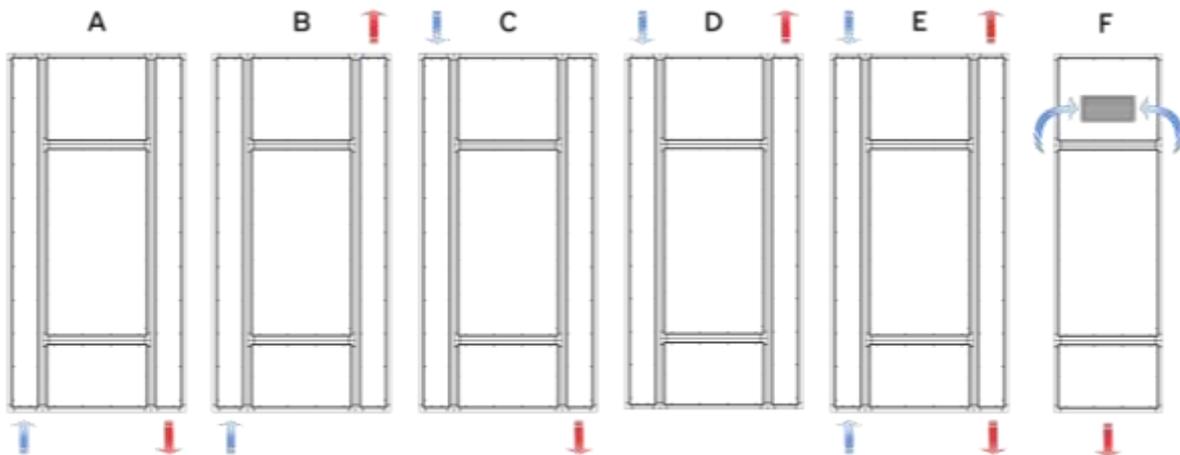
- **Humidifier** of the type with immersed electrode for the production of the adequate quantity of steam.
- **Motorized dumper** in galvanized steel to install in suction and/or in supply depending on the plant requirements.
- **Condensate pump** to discharge the condensate from the machine.
- **Mixing chamber** in galvanized steel with two air calibration dampers.
- **Supervision system** for the regulation of room temperature and humidity parameters, supply air temperature, return air temperature and programming of on and off days and times. Can be integrated into a centralized monitoring system through C-BUS communication.
- 1-row additional heat exchanger **coil**.
- Additional **electric heater** up to 3 stages with power on request.

Manufacture



Configurations

The machines of the EAM series were designed to be configured in 6 different ways to adapt best to every type of installation.

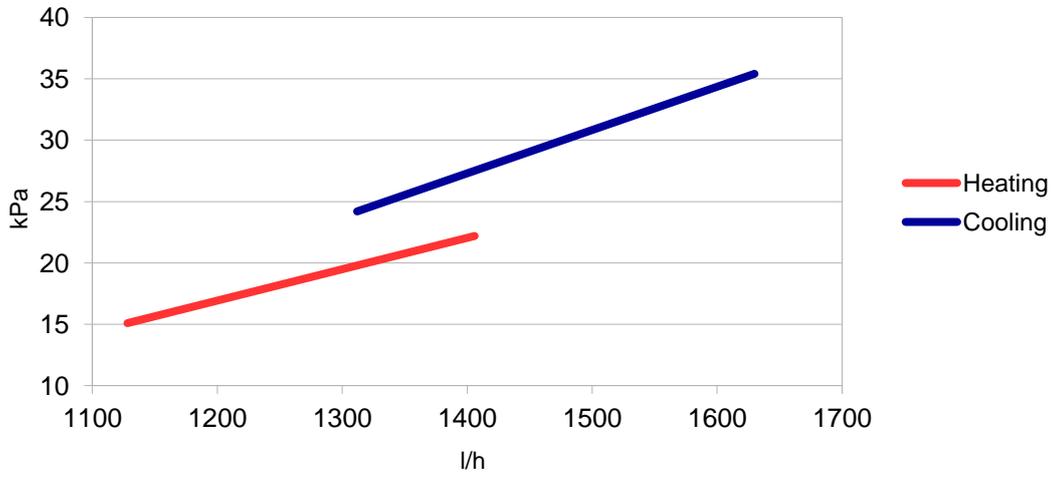


Technical data

		EAM 9	EAM 18	EAM 28	EAM 40	EAM 55
VENTILATION - VENTILAZIONE						
Air Flow (max speed) - Portata Aria (velocità massima)	m ³ /h	1.500	3.000	5.000	7.000	10.000
Fans - Ventilatori	n	1	1	1	1	1
Residual Hydraulic Head - Prevalenza Utile Residua	Pa	150	200	200	200	200
COIL - BATTERIA						
N° Ranks - N° Ranghi	n	3	3	3	3	3
Connections - Attacchi		3/4"	1"	1"	1"1/4	1"1/4
Frontal surface – Superficie frontale	m ²	0,5	0,7	0,7	1,44	1,44
Fins surface – Superficie alette	m ²	20,7	26,65	26,65	69,12	69,12
Water content – Contenuto acqua	dm ³	3	3,8	3,8	4,24	4,24
COOLING POWER – POTENZA FRIGORIFERA						
Inlet /Output fluid temperature Temperatura Entrata / Uscita Fluido	°C	7,0 / 12,0	7,0 / 12,0	7,0 / 12,0	7,0 / 12,0	7,0 / 12,0
Water Flow - Portata Acqua	l/h	1630	3277	4805	7183	9302
Drop of Fluid Load - Perdita di Carico Fluido	kPa	35,0	15,8	31,0	14,5	22,7
Inlet Air temperature - Temperatura Entrata Aria	°C	26,0 50% U.R.				
Outlet Air Temperature - Temperatura Uscita Aria	°C	14,0 82% U.R.	12,5 91% U.R.	14,0 86% U.R.	14,5 84% U.R.	16,0 80% U.R.
Total Refrigeration Power - Potenza Frigorifera Totale	kWf	9,5	19,0	28,0	42,0	54,0
Sensible Power - Potenza Sensibile	kWf	5,0	12,0	19,0	28,0	36,0
Corrective factor for yield at maximum speed – Fattore correttivo per resa alla massima velocità		1,09	1,09	1,09	1,09	1,09
Corrective factor for yield at minimum speed – Fattore correttivo per resa alla minima velocità		0,88	0,88	0,88	0,88	0,88
HEATING POWER – POTENZA RISCALDAMENTO						
Inlet temperature / Outlet temperature Temperatura Entrata / Uscita Fluido	°C	50,0 / 45,0	50,0 / 45,0	50,0 / 45,0	50,0 / 45,0	50,0 / 45,0
Water Flow - Portata Acqua	l/h	1600	4325	6376	7224	9288
Drop of Fluid Load - Perdita di Carico Fluido	kPa	22,0	21,0	41,0	17,0	22,0
Inlet Air temperature - Temperatura Entrata Aria	°C	20,0	20,0	20,0	20,0	20,0
Outlet Air Temperature - Temperatura Uscita Aria	°C	43,0	44,5	41,8	42,0	48,0
Thermal Power -Potenza Termica	kWt	9,0	25,0	36,5	42,0	54,0
Corrective factor for yield at maximum speed – Fattore correttivo per resa alla massima velocità		1,10	1,10	1,10	1,10	1,10
Corrective factor for yield at minimum speed – Fattore correttivo per resa alla minima velocità		0,9	0,9	0,9	0,9	0,9
ELECTRICAL SUPPLY – ALIMENTAZIONE ELETTRICA						
Electrical Supply - Alimentazione Elettrica	V/F/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Max Absorbed Power - Potenza Massima Assorbita	kW	0,60	0,55	0,75	0,75	1,5
Absorbed Current - Corrente Assorbita	A	0,27	0,25	0,34	0,34	0,66
NOISE LEVEL - RUMOROSITA'						
Noise at 1,5 m - Rumore a 1,5 m	dB(A)	44	42	45	43	45
Noise in the environment – Rumore in ambiente	dB(A)	30,2	30,4	30,5	30,5	30,8
DIMENSIONS AND WEIGHT – DIMENSIONI E PESO						
Length – Lunghezza (L)	mm	1330	1330	1530	2210	2210
Width – Larghezza (W)	mm	565	645	790	1100	1100
Height – Altezza (H)	mm	2700	2700	2700	2700	2700

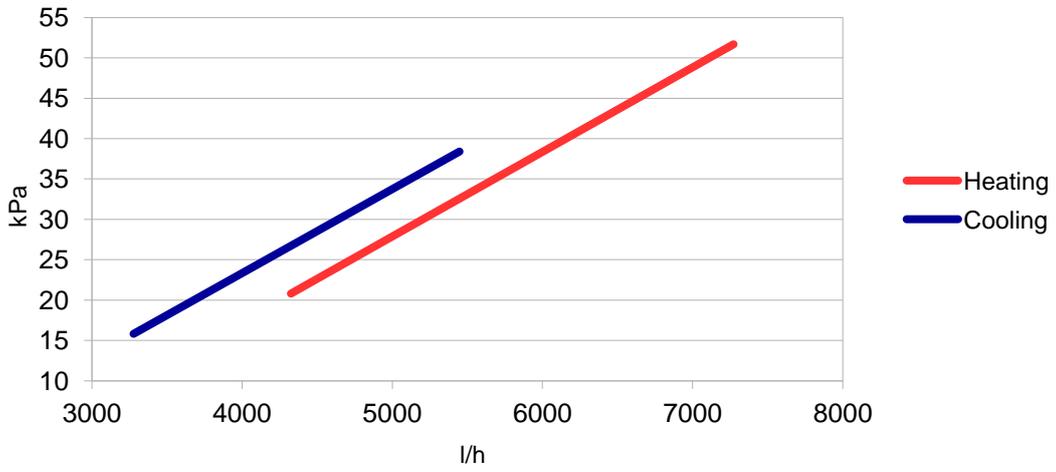
Valid for EAM 9:

FLOW-PRESSURE DROP



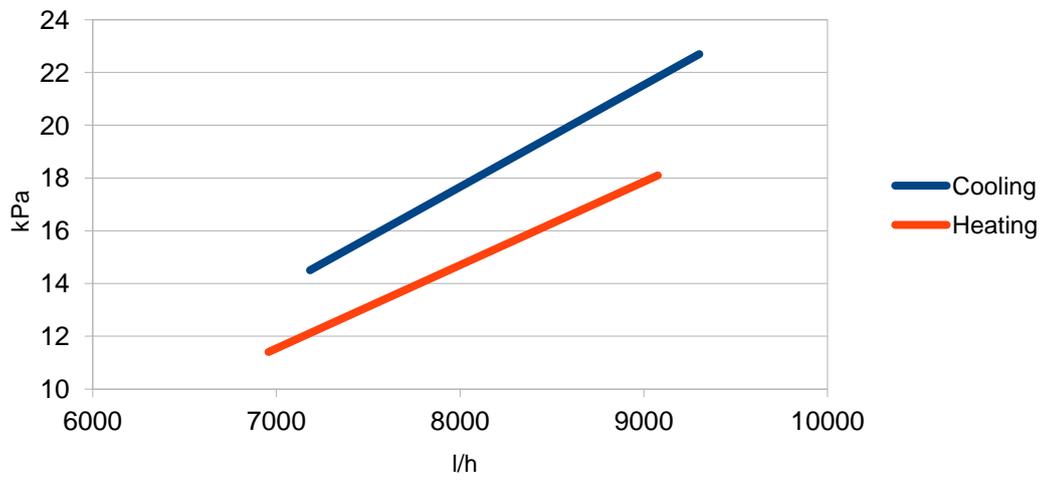
Valid for EAM 18 – 28:

FLOW-PRESSURE DROP



Valid for EAM 40 – 55:

FLOW - PRESSURE DROP



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