

The MAXA hydronic terminals are designed to meet the demanding requirements for efficiency, quiet operation and good looks. The microprocessor assures accurate environmental control.

Applicazioni Applications



Ventilconvettori / Fan Coils



VE

1,4 kW÷10,7 kW



Murali idronici / Hydronic Highwall



MI

2,6 kW÷4,2 kW



Cassette idroniche / Hydronic cassette



HCA HCA/4

2,3 kW÷6 kW



Unità canalizzabili modulari / Modular ductable units



HCN

6 kW÷20 kW



Unità canalizzabili medie / Medium ductable terminal units



HCNA

7 kW÷68 kW



VE

1,4 kW ÷ 10,7 kW

Fan coil with Brushless DC and AC asynchronous motor



Dc Brushless → 50%

Annual savings in electricity
Reduction of the noise level

VERSIONS

- VMI** Vertical units with bottom inlet
- VMF** Vertical units with front inlet
- OMP** Horizontal units with rear inlet
- OMI** Horizontal units with bottom inlet
- VII** Fitted vertical units, bottom inlet
- VIF** Fitted vertical units, front inlet
- OIP** Fitted horizontal units, rear inlet
- OII** Fitted horizontal units, bottom inlet
- VIP** Fitted vertical units whit P1 panel
- VIP2** Fitted vertical units whit P2 panel
- ONP** Horizontal vertical units whit panel

FANCOIL BRUSHLESS

- Modulating ventilation 0-100%
- Super quiet operation
- Highest well-being: the continuous variation 0-100% of the air flow (by means of the signal 0...10Vdc) is reflected in the modulation of the heating and cooling power by their instantaneous adaptation, to the actual needs of the room that to be conditioned and ensuring reduced fluctuations temperature, humidity and quiet noise.

BUILDING FEATURES

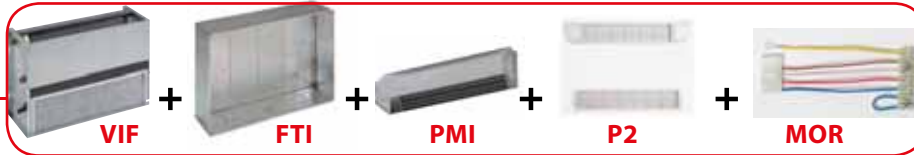
- Structure galvanized sheet with prepainted covering shell (in VMI-VMF-OMP-OMI models) and ABS details, complete with heat/sound insulation
- Regenerating filter and natural discharge moisture tray.
- Centrifugal 6-speed fans type, with 3 speeds connected in the standard configuration.
- Heat exchanger in copper tubes and alluminium fins with hydrophilic surface treatment to rapid draining of moisture.
- It's recommended to use the kit valves for each type of system.

VIP



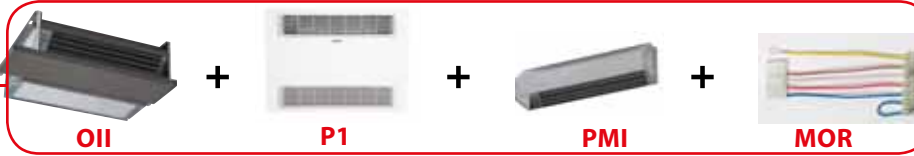
Verticale incasso con pannello P1 (compresi VE/VIF, FTI, PMI, MOR, P1)
Vertical built-in terminal with P1 panel (included VE/VIF, FTI, PMI, MOR, P1)

VIP2



Verticale incasso con pannello P2 (compresi VE/VIF, FTI, PMI, MOR, P2)
Vertical built-in terminal with P2 panel (included VE/VIF, FTI, PMI, MOR, P2)

ONP



Orizzontale incasso con pannello (compresi VE/OII, PMI, MOR, P1)
Horizontal built-in with panel (included VE/OII, PMI, MOR, P1)



3 RANGHI I 3 ROWS I 3 RANGÉES I 3 ZELLEN I 3 BANCOS DE TUBOS I 3 LINHAS

VE		13	23	33	43	53	63	73	VE		
Pot. frigorifera / Cooling cap. / Puiss. frigorifique (1) (*)	W	1.579	2.105	2.663	3.179	3.947	4.474	5.811	W	Kühlleistung / Pot. frigorífica / Potê. de refrigeração (1) (*)	
Resa sensibile / Sensible capacity / Rend. sensible (1) (*)	W	1.290	1.620	2.070	2.310	2.870	3.230	4.330	W	Sensible Leistung / Cap. Sensible / Cap. sensível (1) (*)	
Pot. calorifica / Heating cap. / Puiss. calorifique (2) (*)	W	1.870	2.455	2.990	3.355	4.080	4.720	6.000	W	Heizleistung / Pot. calorífica / Pot. calorífica (2) (*)	
Pot. calorifica / Heating cap. / Puiss. calorifique (3) (*)	W	3.740	4.910	5.980	6.710	8.160	9.440	12.000	W	Heizleistung / Pot. calorífica / Pot. calorífica (3) (*)	
Perdite di carico / Pressure drop / Pertes de pression										Leitungsverluste / Pérdidas de carga / Perdas de carga	
Raffreddamento / Cooling / Refroidissement (*)	kPa	14,5	18,1	20,5	23,0	25,1	26,8	27,2	kPa	Kühlung / Enfriamiento / Resfriamento (*)	
Riscaldamento / Heating / Chauffage (3) (*)	kPa	15,9	19,2	20,1	20,0	20,9	23,2	22,6	kPa	Heizung / Calefacción / Aquecimento (3) (*)	
Portata d'aria / Air flow / Débit d'air (*)	max	m ³ /h	370	400	500	550	670	720	1.000	m ³ /h	max
	med	m ³ /h	285	308	400	440	590	634	890	m ³ /h	med
	min	m ³ /h	226	244	305	336	462	497	650	m ³ /h	min
Raffreddamento / Cooling / Refroidissement (*)	l/h	272	362	458	547	679	769	999	l/h	Kühlung / Enfriamiento / Resfriamento (*)	
Riscaldamento / Heating / Chauffage (3) (*)	l/h	322	422	514	577	702	812	1.032	l/h	Heizung / Calefacción / Aquecimento (3) (*)	
Potenza assorb. / Power input / Puissance absorbée (*)	W	55	55	85	85	75	75	145	W	Leistungsaufnahme / Pot. absorbida / Pot. absorvida (*)	
Press. sonora / Sound pressure / Pression sonore (4)	dB(A)	24/31/38	25/31/38	30/38/44	31/38/45	26/33/37	27/34/37	34/41/43	dB(A)	Geräuschentwicklung / Nivel de ruido / Rumoridade (4)	
Alimentazione / Power supply / Alimentation	V~, Ph, Hz	230, 1, 50						V~, Ph, Hz	Versorgung / Alimentación / Alimentação		
Attacchi idraulici / Water connections / Con. hydrauliques	"G	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	"G	Hyd. Anschlüsse / Acoplam. para agua / Uniões hidr.	
Scarico condensa / Condensing drain / évac. condensant	mm	20	20	20	20	20	20	20	mm	Kondenswasser. / Desagüe cond. / Evacuação da cond.	

BATTERIA CALDA - HOT WATER EXCHANGER - RANGÉE CHAUDE - HEISSLUFTZELLE - BATERIA DE AGUA CALIENTE - LINHA QUIENTE

VE		13	23	33	43	53	63	73	VE	
Pot. calorifica / Heating cap. / Puiss. calorifique (2) (*)	W	940	990	1.590	1.675	2.190	2.275	3.145	W	Heizleistung / Pot. calorífica / Pot. calorífica (2) (*)
Pot. calorifica / Heating cap. / Puiss. calorifique (3) (*)	W	1.880	1.980	3.180	3.350	4.380	4.550	6.290	W	Heizleistung / Pot. calorífica / Pot. calorífica (3) (*)
Perdite di carico / Pressure drop / Pertes de pression (3) (*)	kPa	7,3	8,0	11,7	12,9	21,3	22,9	41,1	kPa	Leitungsverluste / Pérdidas de carga / Perdas de carga (3) (*)

BRUSHLESS

VE		13	23	33	43	53	63	73	VE		
Pot. frigorifera / Cooling cap. / Puiss. frigorifique (1)	W	1.810-880	2.320-1.130	2.830-1.400	3.220-1.600	4.630-2.130	5.070-2.330	6.010-3.060	W	Kühlleistung / Pot. frigorífica / Potê. de refrigeração (1)	
Pot. calorifica / Heating cap. / Puiss. calorifique (2)	W	985-2.325	1.233-2.915	1.670-3.409	1.557-3.625	2.063-5.209	2.285-5.794	2.949-6.615	W	Heizleistung / Pot. calorífica / Pot. calorífica (2)	
Pot. calorifica / Heating cap. / Puiss. calorifique (3)	W	4.680-1.970	5.860-2.470	6.840-2.940	7.250-3.120	10.510-4.130	11.650-4.580	13.280-5.900	W	Heizleistung / Pot. calorífica / Pot. calorífica (3)	
Batteria calda / Hot water exchanger / Rangée chaude (2)	W	1.209-510	1.211-515	1.855-800	1.865-805	2.880-1.135	2.883-1.140	3.553-1.580	W	Heissluftzelle / Bateria de agua caliente / Linha quente (2)	
Batteria calda / Hot water exchanger / Rangée chaude (3)	W	2.440-1.030		3.730-1.610		5.800-2.280		7.140-3.170	W	Heissluftzelle / Bateria de agua caliente / Linha quente (3)	
Portata d'aria / Air flow / Débit d'air	m ³ /h	537-127			625-153		1.021-215		1.184-306	m ³ /h	Luftdurchflussmenge / Caudal de aire / Cap. ar
Pot. assorbita / Power input / Puiss. absorbée (5)	W	9			9		10		11	W	Leistungsaufnahme / Pot. absorbida / Pot. absorvida (5)
Press. sonora / Sound pressure / Pression sonore (5)	dB(A)	23			26		22		24	dB(A)	Geräuschentwicklung / Nivel de ruido / Rumoridade (5)
Alimentazione / Power supply / Alimentation	V~, Ph, Hz	230, 1, 50						V~, Ph, Hz	Versorgung / Alimentación / Alimentação		
Segnale / Signal / Signal	Vdc	0-10						Vdc	Signal / Señal / Sinal		

Attacchi acqua lato sinistro / Left side water sockets / Prises d'eau côté gauche Linke Seite Wasseranschlüsse Enganches agua lado izquierdo Ligações água lado esquerdo

Nota: Rese e portate d'aria riferite in condizioni di prevalenza 0 Pa. Per prevalenze utili diverse riferirsi ai diagrammi di variazione di portata d'aria. Note: Capacities and air flow rates referred in terms of prevalence 0 Pa. For different static pressure, refer air flow variation diagrams.

- (1) Temperatura aria in ingresso: 27°C b.s./19,5°C b.u.
Temperatura acqua in ingresso/uscita: 7°C/12°C
- (2) Temperatura aria in ingresso: 20°C b.s.
Temperatura acqua in ingresso/uscita: 45°C/40°C
- (3) Temperatura aria in ingresso: 20°C b.s.
Temperatura acqua in ingresso/uscita: 70°C/60°C
- (4) Alla distanza di 2 m e tempo di riverbero 0,5 s.
Con segnale ingresso 3Vdc
- (5) Massima velocità

- (1) Température air en entrée: 27°C b.s./19,5°C b.u.
Température eau entrée/sortie: 7°C/12°C
- (2) Température air en entrée: 20°C b.s.
Température eau entrée/sortie: 45°C/40°C
- (3) Température eau entrée/sortie: 70°C/60°C
- (4) A une distance de 2 m et avec temps de résonance de 0,5 s
- (5) Signal d'entrée 3Vdc
- (*) Vitesse maximale
- (1) Lufttemperatur Zuluft: 27°C b.t./19,5°C b.f.
Wassertemperatur: 7°C/12°C
- (2) Lufttemperatur Zuluft: 20°C b.t.
Wassertemperatur: 45°C/40°C
- (3) Wassertemperatur: 70°C/60°C
- (4) Bei einer Entfernung von 2 m und mit Wiederhallzeit von 0,5 s
- (5) 3Vdc Eingangssignal
- (*) Höchstgeschwindigkeit

- (1) Temperatura del aire de entrada: 27°C b.s./19,5°C b.u. Temperatura del agua de entrada/salida: 7°C/12°C
- (2) Temperatura del aire de entrada: 20°C b.s.
Temperatura del agua de entrada/salida: 45°C/40°C
- (3) Temperatura del agua de entrada/salida: 70°C/60°C
- (4) En una distancia de 2 m y con tiempo de reverberación de 0,5 s
- (5) Señal de entrada 3Vdc
- (*) Máxima velocidad
- (1) Temperatura ar à entrada: 27°C b.s./19,5°C b.u.
Temperatura água à entrada/sáida: 7°C/12°C
- (2) Temperatura ar à entrada: 20°C b.s.
Temperatura água à entrada/sáida: 45°C/40°C
- (3) Temperatura água à entrada/sáida: 70°C/60°C
- (4) A uma distância de 2 m e com tempo de reverberação de 0,5 s
- (5) Sinal de entrada 3Vdc
- (*) Velocidade máxima

VE		83 93 103 93P 103P 113P 123P								VE		
Pot. frigorifera / Cooling cap. / Puiss. frigorifique (1) (*)	W	6.758	7.926	9.495	9.568	10.337	10.105	11.274	W	Kühlleistung / Pot. frigorífica / Pot. de refrigeração (1) (*)		
Resa sensibile / Sensible capacity / Rend. sensible (*)	W	4.800	5.670	6.620	6.200	7.300	7.640	8.360	W	Sensible Leistung / Cap. Sensible / Cap. sensível (*)		
Pot. calorifica / Heating cap. / Puiss. calorifique (2) (*)	W	6.650	7.750	9.050	8.415	9.895	10.550	11.600	W	Heizleistung / Pot. calorífica / Pot. calorífica (2) (*)		
Pot. calorifica / Heating cap. / Puiss. calorifique (3) (*)	W	13.300	15.500	18.100	16.830	19.790	21.100	23.200	W	Heizleistung / Pot. calorífica / Pot. calorífica (3) (*)		
Perdite di carico / Pressure drop / Pertes de pression										Leitungsverluste / Pérdidas de carga / Perdas de carga		
Raffreddamento / Cooling / Refroidissement (*)	kPa	30,0	31,9	32,4	37,4	38,4	34,4	37,0	kPa	Kühlung / Enfriamiento / Resfriamento (*)		
Riscaldamento / Heating / Chauffage (3) (*)	kPa	22,6	23,8	22,9	28,1	27,4	29,2	30,5	kPa	Heizung / Calefacción / Aquecimento (3) (*)		
Portata d'aria / Air flow / Débit d'air (*)	max	m³/h	1.050	1.280	1.310	1.450	1.500	1.910	1.940	m³/h	max	Luftdurchflussmenge / Caudal de aire / Cap. ar (*)
	med	m³/h	935	1.139	1.166	1.291	1.335	1.643	1.668	m³/h	med	
	min	m³/h	683	870	891	986	1020	1490	1.513	m³/h	min	
Raffreddamento / Cooling / Refroidissement (*)	l/h	1.162	1.363	1.633	1.474	1.778	1.738	1.939	l/h	Kühlung / Enfriamiento / Resfriamento (*)		
Riscaldamento / Heating / Chauffage (3) (*)	l/h	1.144	1.333	1.557	1.447	1.702	1.815	1.995	l/h	Heizung / Calefacción / Aquecimento (3) (*)		
Potenza assorb. / Power input / Puissance absorbée (*)	W	145	175	175	225	225	285	285	W	Leistungsaufnahme / Pot. absorbida / Pot. absorvida (*)		
Press. sonora / Sound pressure / Pression sonore (4)	dB(A)	35/41/45	39/46/48	40/46/49	43/48/51	44/49/52	45/48/51	46/48/51	dB(A)	Geräuschentwicklung / Nivel de ruido / Rumorosidade (4)		
Alimentazione / Power supply / Alimentation	V~, Ph, Hz	230, 1, 50						V~, Ph, Hz		Versorgung / Alimentación / Alimentação		
Attacchi idraulici / Water connections / Con. hydrauliques	"G	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	"G	Hyd. Anschlüsse / Acoplam. para agua / Uniãoes hidr.		
Scarico condensa / Condensing drain / évac. condensant	mm	20	20	20	20	20	20	20	mm	Kondenswasser. / Desagüe cond. / Evacuação da cond.		

BATTERIA CALDA - HOT WATER EXCHANGER - RANGÉE CHAUDE - HEISSLUFTZELLE - BATERIA DE AGUA CALIENTE - LINHA QUIENTE

VE		83 93 103 93P 103P 113P 123P								VE	
Pot. Calorifica / Heating cap. / Puiss. calorifique (2) (*)	W	3.230	3.995	4.055	4.350	4.450	5.545	5.600	W	Heizleistung / Pot. calorífica / Pot. calorífica (2) (*)	
Pot. Calorifica / Heating cap. / Puiss. calorifique (3) (*)	W	6.460	7.990	8.110	8.700	8.900	11.090	11.200	W	Heizleistung / Pot. calorífica / Pot. calorífica (3) (*)	
Perdite di carico / Pressure drop / Pertes de pression (3) (*)	kPa	43,3	37,7	38,8	44,6	46,7	48,4	49,3	kPa	Leitungsverluste / Pérdidas de carga / Perdas de carga (3) (*)	

BRUSHLESS

VE		83			93			103			VE	
Pot. frigorifera / Cooling cap. / Puiss. frigorifique (1)	W	6.820-3.470			7.440-3.780			8.790-4.460			W	Kühlleistung / Pot. frigorífica / Pot. de refrigeração (1)
Pot. calorifica / Heating cap. / Puiss. calorifique (2)	W	2.174-7.149			3.388-7.650			3.898-8.800			W	Heizleistung / Pot. calorífica / Pot. calorífica (2)
Pot. calorifica / Heating cap. / Puiss. calorifique (3)	W	14.300-6350			15.300-6.780			17.600-7.800			W	Heizleistung / Pot. calorífica / Pot. calorífica (3)
Batteria calda / Hot water exchanger / Rangée chaude (2)	W	3.561-1.590			4.045-1.790			4.045-1.795			W	Heissluftzelle / Bateria de agua caliente / Linha quente (2)
Batteria calda / Hot water exchanger / Rangée chaude (3)	W	7.140-3.170			8.090-3.590						W	Heissluftzelle / Bateria de agua caliente / Linha quente (3)
Portata d'aria / Air flow / Débit d'air	m³/h	1.184-306			1.255-323						m³/h	Luftdurchflussmenge / Caudal de aire / Cap. ar
Pot. assorbita / Power input / Puiss. absorbée (5)	W	11			11						W	Leistungsaufnahme / Pot. absorbida / Pot. absorvida (5)
Press. sonora / Sound pressure / Pression sonore (5)	dB(A)	24			25						dB(A)	Geräuschentwicklung / Nivel de ruido / Rumorosidade (5)
Alimentazione / Power supply / Alimentation	V~, Ph, Hz				230, 1, 50						V~, Ph, Hz	Versorgung / Alimentación / Alimentação
Segnale / Signal / Signal	Vdc				0-10						Vdc	Signal / Señal / Sinal

VMI



Verticale con mobile ripresa inferiore
Vertical terminal with cabinet, bottom air intake

VMF



Verticali con mobile ripresa frontale
Vertical terminal with cabinet, frontal air intake

OMP



Orizzontale con mobile ripresa posteriore
Horizontal terminal with cabinet, rear air intake

OMI



Orizzontale con mobile ripresa inferiore
Horizontal terminal with cabinet, bottom air intake

VII



Verticale da incasso ripresa inferiore
Vertical naked terminal, bottom air intake

VIF



Verticale da incasso ripresa frontale
Vertical naked terminal, front air intake

OIP



Orizzontali da incasso ripresa posteriore
Horizontal naked terminal, rear air intake

OII



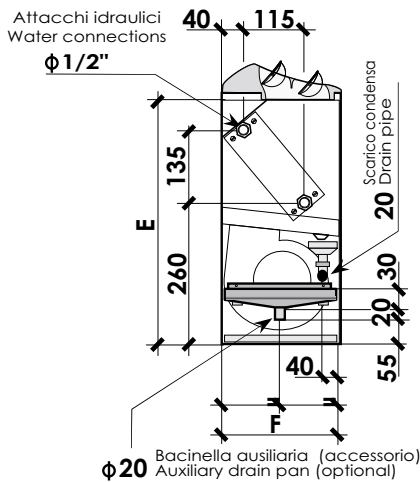
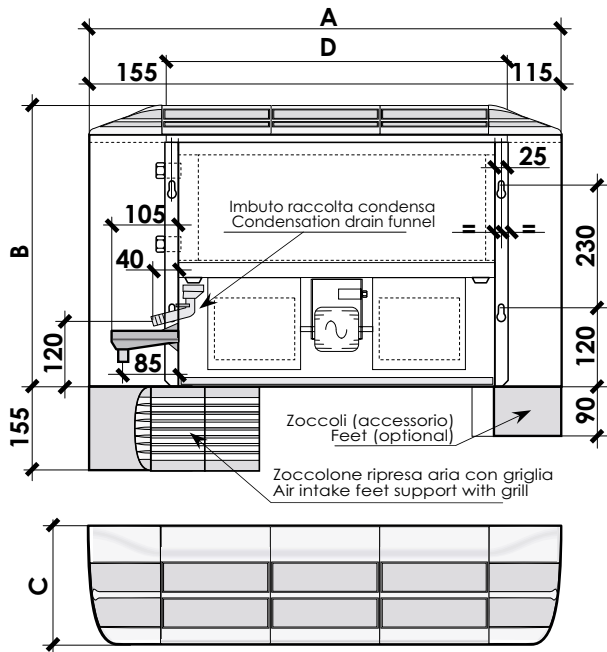
Orizzontali da incasso ripresa inferiore
Horizontal naked terminal, bottom air intake

Attacchi acqua lato sinistro / Left side water sockets / Prises d'eau côté gauche Linke Seite Wasseranschlüsse Enganches agua lado izquierdo Ligações água lado esquerdo

Nota: Rese e portate d'aria riferite in condizioni di prevalenza 0 Pa. Per prevalenze utili diverse riferirsi ai diagrammi di variazione di portata d'aria. Note: Capacities and air flow rates referred in terms of prevalence 0 Pa. For different static pressure, refer air flow variation diagrams.

- | | | |
|---|---|---|
| (1) Temperatura aria in ingresso: 27°C b.s./19,5°C b.u.
Temperatura acqua in ingresso/uscita: 7°C / 12°C | (1) Température air en entrée: 27 °C b.s. / 19,5 °C b.u.
Température eau entrée/sortie: 7 °C / 12 °C | (1) Temperatura del aire de entrada: 27°C b.s. / 19,5°C b.u. Temperatura del agua de entrada/salida: 7°C / 12°C |
| (2) Temperatura aria in ingresso: 20°C b.s.
Temperatura acqua in ingresso/uscita: 45°C / 40°C | (2) Température air en entrée: 20 °C b.s.
Température eau entrée/sortie: 45°C / 40°C | (2) Temperatura del aire de entrada: 20°C b.s.
Temperatura del agua de entrada/salida: 45°C / 40°C |
| (3) Temperatura acqua in ingresso/uscita: 70°C / 60°C | (3) Température eau entrée/sortie: 70°C / 60°C | (3) Temperatura del agua de entrada/salida: 70°C / 60°C |
| (4) Alla distanza di 2 m e tempo di riverbero 0,5 s. | (4) A une distance de 2 m et avec temps de resonnance de 0,5 s | (4) En una distancia de 2 m e con tiempo de resonancia de 0,5 s |
| (5) Con segnale ingresso 3Vdc | (5) Signal d'entrée 3Vdc | (5) Señal de entrada 3Vdc |
| (*) Massima velocità | (*) Vitesse maximale | (*) Máxima velocidad |
| (1) Entering air temperature: 27°C d.b./19,5°C w.b.
In/Out water temperature: 7°C / 12°C | (1) Lufttemperatur Zulauf: 27°C b.t. / 19,5°C b.f.
Wassertemperatur: 7°C / 12°C | (1) Temperatura ar à entrada: 27°C b.s. / 19,5°C b.u.
Temperatura água à entrada/sáida: 7°C / 12°C |
| (2) Entering air temperature: 20°C d.b.
In/Out water temperature: 45°C / 40°C | (2) Lufttemperatur Zulauf: 20°C b.t.
Wassertemperatur: 45°C / 40°C | (2) Temperatura ar à entrada: 20°C b.s.
Temperatura água à entrada/sáida: 45°C / 40°C |
| (3) In/Out water temperature: 70°C / 60°C | (3) Wassertemperatur: 70°C / 60°C | (3) Temperatura água à entrada/sáida: 70°C / 60°C |
| (4) At a distance of 2 m and with reverberation time of 0,5 s. | (4) Bei einer Entfernung von 2 m und mit Widerhallzeit von 0,5 s | (4) A uma distância de 2 m e com tempo de reverberação de 0,5 s. |
| (5) 3Vdc input signal | (5) 3Vdc Eingangssignals | (5) Sinal de entrada 3Vdc |
| (*) Max speed | (*) Höchstgeschwindigkeit | (*) Velocidade máxima |

DIMENSIONI DIMENSIONS



Versioni con mobile
Versions with cabinet
B = 520 mm
C = 220 mm

Versioni senza mobile
Versions without cabinet
B1 = 450 mm
C1 = 215 mm

Attacchi acqua lato sinistro / Left side water sockets / Prises d'eau côté gauche
Linke Seite Wasseranschlüsse / Enganches agua lado izquierdo / Ligações água lado esquerdo

CON MANTELLO - WITH CABINET - AVEC CARROSSERIE - EINHEITEN - CON MANTO - COM MANTO

VE		13	23	33	43	53	63	73
A *	mm	670	670	870	870	1.070	1.070	1.270
B	mm	520	520	520	520	520	520	520
C	mm	220	220	220	220	220	220	220
Peso / Weight / Poids / Gewicht / Peso / Peso	kg	15	15,5	18,5	19	25	26	29

VE		83	93	103	93P	103P	113P	123P
A *	mm	1.270	1.470	1.470	1.470	1.470	1.670	1.670
B	mm	520	520	520	520	520	520	520
C	mm	220	220	220	220	220	220	220
Peso / Weight / Poids / Gewicht / Peso / Peso	kg	30	34	35	35	36	39	42

* Nelle versioni orizzontali la larghezza A risulta più larga di 120 mm / * In horizontal versions the width A is larger than 120 mm / * Dans les versions horizontales la largeur A est supérieur à 120 mm / * In horizontaler Ausführung die Breite A ist größer als 120 mm / * En las versiones horizontales de la anchura A es mayor que 120 mm / * Em versões horizontais a largura A é maior do que 120 mm

SENZA MANTELLO - NAKED VERSION - VERSION NAKED - NACKT VERSIONEN - VERSIÓN DESNUDO - VERSÃO DESPIDO

VE		13	23	33	43	53	63	73
A *	mm	425	425	625	625	825	825	1.025
B	mm	450	450	450	450	450	450	450
C	mm	215	215	215	215	215	215	215
Peso / Weight / Poids / Gewicht / Peso / Peso	kg	11	11,6	14	15	20	21	23,5

VE		83	93	103	93P	103P	113P	123P
A *	mm	1.025	1.225	1.225	1.225	1.225	1.425	1.425
B	mm	450	450	450	450	450	450	450
C	mm	215	215	215	215	215	215	215
Peso / Weight / Poids / Gewicht / Peso / Peso	kg	25	27,5	29	28,5	30	31	35

* Nelle versioni orizzontali la larghezza A risulta più larga di 120 mm / * In horizontal versions the width A is larger than 120 mm / * Dans les versions horizontales la largeur A est supérieur à 120 mm / * In horizontaler Ausführung die Breite A ist größer als 120 mm / * En las versiones horizontales de la anchura A es mayor que 120 mm / * Em versões horizontais a largura A é maior do que 120 mm

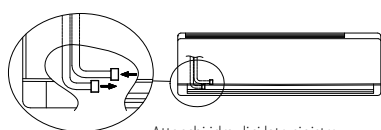


MB	Brushless motor (only for models 13÷103) / Moteur
BC	Auxiliary LPHW coil
P	Pedestal
VA	Auxiliary drain pan for vertical versions
CVA	OFF/3-speed switch
CVB	/3-speed switch Winter-Summer switch+Bulb room thermostat
CVC	On board mounted electronic controll 230Vac with off/summer/winter+3speeds+thermostat with-without valves/
CBB	On board brushless controll 2/4pipes unit with-without valves
CVD	On board controll 230 Vac for controll 2/4 pipes unit with/without valves /
CRA	3 speeds fan selector + Off/On selector + 2 pipes plant management with or without 230V on-off valves
CRB	230V/24V wall digital thermostat. 3 ways and auto selector + 2 or 4 pipes plant management with or without on-off valves, PWM, 3 points, electrical heaters
CBP	Digital wall thermostat 230V/24V. On-off or brushless fan, 2 or 4 pipes plant management with or without on-off valve or 0..10V with 230V or 24V alimentation.
CRI	Programable 230V ducted electronic thermostat - Relay contacts 3A/230V. Start-Stop + 3-speeds fan selector + heat/cool selector. 2 pipes plant management with or without on-off valve with 230V alimentation. Not compatible with TMB
TMB	Water low temperature thermostat - Tset 32°C
MOR	Mammoth type terminal board (included on the on board controller CVA-CVB-CVC-CVB-CVD) In other cases must be ordered as an accessory

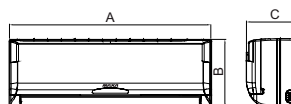


3V2	3-way valve with actuator 230V for 2 pipes units														
2V2	2-way valve with actuator 230V for 2 pipes units														
3V4	3-way valve with actuator 230V heating coil for 4 pipes units														
2V4	2-way valve with actuator 230V for 4 pipes units														
P1	Panel made of pre-painted steel														
P2	Panel made of pre-painted steel with controll panel doors														
FTI	False frame made of galvanizes steel for versions VIP and OIP														
PMI	Air supply plenum with spigots for versions VIP and OIP														
PCPF	Central closing back panel														
PCPB	Central closing back panel														
PCB	Bottom closing panel without grill														
PM	Air supply plenum with spigots														
PA	Air intake plenum with spigots Plenum con attacchi circolari - Plenum with spigots (PA, PM) <table border="1"> <thead> <tr> <th>VE</th> <th>13/23</th> <th>33/43</th> <th>53/63</th> <th>73/83</th> <th>93P/103P</th> <th>113P/123P</th> </tr> </thead> <tbody> <tr> <td>Attacchi circolari - Spigots (N° x Ø 200/180/160 mm)</td> <td>1 x Ø</td> <td>2 x Ø</td> <td>2 x Ø</td> <td>3 x Ø</td> <td>4 x Ø</td> <td>4 x Ø</td> </tr> </tbody> </table>	VE	13/23	33/43	53/63	73/83	93P/103P	113P/123P	Attacchi circolari - Spigots (N° x Ø 200/180/160 mm)	1 x Ø	2 x Ø	2 x Ø	3 x Ø	4 x Ø	4 x Ø
VE	13/23	33/43	53/63	73/83	93P/103P	113P/123P									
Attacchi circolari - Spigots (N° x Ø 200/180/160 mm)	1 x Ø	2 x Ø	2 x Ø	3 x Ø	4 x Ø	4 x Ø									
RA	Electrical heater 230V (0,7 Kw - 2 Kw)														
RB	Electrical heater 230V (1Kw - 3Kw)														

Hydronic Highwall



• Attacchi idraulici lato sinistro
• Water connections on left



Dimensioni - Dimensions		26A	35A	42A
A	mm	915	915	1072
B	mm	290	290	315
C	mm	230	230	230

BUILDING FEATURES

Unit in A.b.s. with high mechanical characteristics and resistance to ageing; the water coil has a large heat transfer surface is equipped with purge air valve and purge water valve; equipped with boot deflector blades and independent directional vanes, supply air can automatically be distributed and customized to direct the air; all function controlled by the LCD remote control handset unit; cool, heat, three fan speeds and auto mode; manual-restart, timer function.

AS A STANDARD

3 way valve control, used for two different applications, "Diverting and mixing application" with the same result. Compact electrothermic actuator, normally closed with varistor protection against surges, air purge valve, LCD remote controller, drain pan and condensate drain.

MI		26A	35A	42A	MI
(1) Pot. frigorifera / Cooling capacity / Puissance frigorifique	kW	2,62	3,27	4,25	Kühlleistung / Pot. frigorifica / Potência de refrigeração (1)
(1) Pot. frigorifera / Cooling capacity / Puissance frigorifique	BTU/h	8.942	11.161	14.505	Kühlleistung / Pot. frigorifica / Potência de refrigeração (1)
(2) Pot. calorifica / Heating capacity / Puissance calorifique	kW	3,36	4,37	5,81	Heizleistung / Potencia calorifica / Potência calorífica (2)
(2) Pot. calorifica / Heating capacity / Puissance calorifique	BTU/h	11.468	14.915	19.830	Heizleistung / Potencia calorifica / Potência calorífica (2)
Pot. assorbita / Power input / Puiss. absorbée	W	24	40	50	Leistungsaufnahme / Pot. absorvida / Pot. absorvida
Corr. assorbita / Absorbed current / Cou.absorbé	A	0,11	0,18	0,22	Stromaufnahme / Corr. absorvida / Corr. absorvida
(3) Press. sonora / Sound pressure / Pression sonore					Geräuschentwicklung / Nivel de ruido / Rumorosidade (3)
MAX - MED - MIN	dB(A)	30/24/20	37/31/26	39/33/28	MAX - MED - MIN
Attacchi idraulici / Water connections / Con. hydrauliques	Ø	3/4"	3/4"	3/4"	Hyd. Anschlüsse / Acoplam. para agua / Racorduri hidraulice
Peso / Weight / Poids	kg	13	13,3	15,8	Gewicht / Peso / Peso

Non dotato di pompa scarico condensa.
(1)Potenzialità frigorifera: Temperatura aria in ingresso: 27°C b.s./ 19°C b.u. Max velocità
Temperatura acqua in ingresso/uscita: 7°C / 12°C Max velocità
(2)Potenzialità calorifica: Temperatura aria in ingresso: 20°C b.s. Max velocità
Temperatura acqua in ingresso/uscita: 45°C / 40°C Max velocità
(3)Alla distanza di 1 m e tempo di riverbero 0,5 s. Max velocità

It not fitted with condensate pump.
(1)Cooling capacity: Entering air temperature: 27°C d.b./ 19°C w.b. Max speed
In/Out water temperature: 7°C / 12°C Max speed
(2)Heating capacity:
Entering air temperature: 20°C d.b. Max speed
In/Out water temperature: 45°C / 40°C Max speed
(3) At a distance of 1 m and with reverberation time of 0.5 s. Max speed

Il pas équipé de pompe à condensat.
(1)Puissance frigorifique: Température air en entrée: 27 °C b.s./19 °C b.h. Vitesse max
Température eau entrée/sortie: 7 °C/12 °C Vitesse max
(2)Puissance calorifique: Température air en entrée: 20 °C b.s. Vitesse max
Température eau entrée/sortie: 45°C / 40°C Vitesse max
(3)À une distance de 1 m et avec temps du renvoi de 0.5 s.Vitesse max(1) Kühlleistung:

Es ist nicht mit Kondensatpumpe ausgestattet.
(1)Lufttemperatur Zulauf: 27°C b.s./ 19°C b.u. Max Geschwindigkeit
Wassertemperatur Zulauf/Ablauf: 7°C / 12°C Max Geschwindigkeit
(2)Wärmeleistung: Lufttemperatur Zulauf: 20°C b.s. Max Geschwindigkeit
Wassertemperatur Zulauf/Ablauf: 45°C / 40°C Max Geschwindigkeit
(3) Bei einer Entfernung von 1 m und mit Widerhallzeit von 0.5 s.

No equipado con bomba de condensado.
(1)Potencialidad frigorífica: Temperatura del aire de entrada: 27°C b.s./ 19°C b.u. Velocidad máx
Temperatura del agua de entrada/salida: 7°C / 12°C Velocidad máx
(2)Potencialidad calorífica: Temperatura del aire de entrada: 20°C b.s. Velocidad máx
Temperatura del agua de entrada/salida: 45°C / 40°C Velocidad máx
(3)En una distancia de 1 m y con tiempo de resonancia de 0.5 s. Velocidad máx

Não equipado com bomba de condensado.
(1)Potencialidade frigorífica: Temperatura ar à entrada: 27°C b.s./ 19°C b.u. Velocidade máx
Temperatura água à entrada/sáida: 7°C / 12°C Velocidade máx
(2)Potencialidade frigorífica: Temperatura ar à entrada: 20°C b.s. Velocidade máx
Temperatura água à entrada/sáida: 45°C / 40°C Velocidade máx
(3)A uma distância de 1 m e com tempo de reverberação de 0.5 s.

Hydronic cassette



VERSIONS

- HCA** Cassette for 2-pipe systems with electronic control and wireless controller
- HCA/4** Cassette for 4-pipe systems with electronic control and wireless controller

TECHNICAL FEATURES

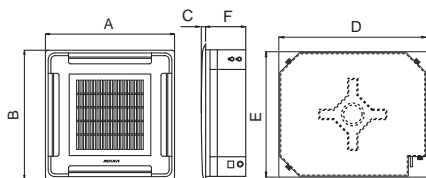
The MAXA hydronic cassette is designed to meet the market requirements of efficiency, quiet operation and good looks. The microprocessor assures accurate environmental control. The reduced dimensions ensure the installation requirements in the false ceiling thanks to small dimensions 57 x 57 cm or 84 x 84 cm for the powerful models.

Unit composition

- Finned batteries for heat exchange with high efficiency and low pressure drop.
- Internal insulation with closed cells expanded enough to limit heat dispersion and noise emissions to a minimum.
- Automatic fins adjustment.
- Build-in Drain water pump for lifting the condensing up to a maximum of 200mm.

KIT VALVOLE

- 3V2C** 2 pipes 3 way valve kit (HCA 22-29-35-42)
- 3V2CG** 2 pipes 3 way valve kit (Necessary for HCA 60)
- 3V4C** 4 pipes 3 way valve kit (HCA 22-35-50)
- 3V4CG** 4 pipes 3 way valve kit (Necessary for HCA 60)



Dimensioni - Dimensions

		HCA 22	HCA 29	HCA 35 HCA/4 35	HCA 42 HCA/4 50	HCA 60 HCA/4 60
A	mm	650	650	650	650	950
B	mm	650	650	650	650	950
C	mm	50	50	50	50	46
D	mm	575	575	575	575	840
E	mm	575	575	575	575	840
F	mm	260	260	260	260	300
Peso / Weight	kg	21	21	21	25	29

KIT VALVES FOR SYSTEMS WITH MODULATING PUMP

- 2V2C 2 pipes 2 way valve kit (HCA 22-29-35-42)
- 2V2CG 2 pipes 2 way valve kit (HCA 60-80)
- 2V4C 4 pipes 2 way valve kit (HCA 22-35-50)
- 2V4CG 4 pipes 2 way valve kit (HCA 60)

KIT FOR 3-WAY / 2-WAY VALVE

The kit, **necessary** for size 60, is composed by:

- a) n° 2 nipples / n° 1 nipples
- b) n° 4 o-ring / n° 2 o-ring
- c) n° 2 copper joints / n° 1 copper joints
- d) n° 1 3 way valve - 4 connections / n° 1 2 way valve - 2 connections
- e) n° 1 ON / OFF actuators / n° 1 ON / OFF actuators



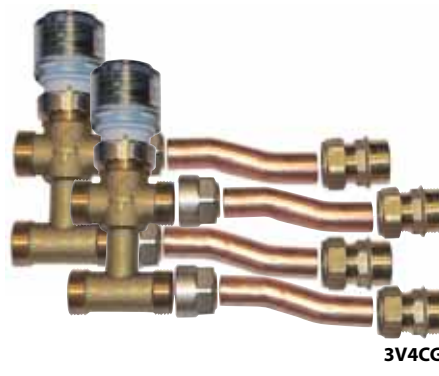
2V4C/2V4CG



3V4C



3V2C/3V2CG



3V4CG

HCA		22	29	35	42	60		HCA
Potenza frigorifera (1)	Watt	2.300	2.900	3.500	4.350	6.700	Watt	Kühlleistung (1)
Cooling capacity (1)	frig/h	2.000	2.520	3.040	3.780	5.810	frig/h	Potencia frigorífica (1)
Puissance frigorifique (1)	BTU/h	7.850	9.900	11.950	14.850	22.870	BTU/h	Potência de refrigeração (1)
Potenza calorifica (2)	Watt	3.300	3.850	4.900	5.800	8.500	Watt	Heizleistung (2)
Heating capacity (2)	kcal/h	2.870	3.340	4.250	5.030	7.370	kcal/h	Potencia calorífica (2)
Puissance calorifique (2)	BTU/h	11.270	13.150	16.730	19.800	29.020	BTU/h	Potência calorífica (2)
Press. sonora / Sound pressure / Pression sonore (3)								Geräuschentwicklung / Nivel de ruido / Rumorosidade (3)
MAX - MED - MIN	dB(A)	46/39/33	46/39/33	51/44/38	55/48/40	50/46/40	dB(A)	MAX - MED - MIN

HCA/4		35	50	60		HCA/4
Potenza frigorifera (1)	Watt	2.800	3.400	5.900	Watt	Kühlleistung (1)
Cooling capacity (1)	frig/h	2.430	2.950	5.120	frig/h	Potencia frigorífica (1)
Puissance frigorifique (1)	BTU/h	9.560	11.610	20.140	BTU/h	Potência de refrigeração (1)
Potenza calorifica (2)	Watt	4.450	4.950	7.850	Watt	Heizleistung (2)
Heating capacity (2)	kcal/h	3.860	4.300	6.810	kcal/h	Potencia calorífica (2)
Puissance calorifique (2)	BTU/h	15.190	16.900	26.800	BTU/h	Potência calorífica (2)
Press. sonora / Sound pressure / Pression sonore (3)						Geräuschentwicklung / Nivel de ruido / Rumorosidade (3)
MAX - MED - MIN	dB(A)	51/44/38	55/48/40	55/41/35	dB(A)	MAX - MED - MIN

(1) Temperatura aria in ingresso: 27°C b.s./19,5°C b.u. massima velocità
 Temperatura acqua in ingresso/uscita: 7°C / 12°C massima velocità
 (2) Temperatura aria in ingresso: 20°C b.s. massima velocità
 Temperatura acqua in ingresso: 50°C massima velocità
 (3) Alla distanza di 1 m e tempo di riverbero 0,5 s massima velocità

(1) Entering air temperature: 27°C d.b./19,5°C w.b. maximum speed
 In/Out water temperature: 7°C / 12°C maximum speed
 (2) Entering air temperature: 20°C d.b. maximum speed
 In water temperature: 50°C maximum speed
 (3) At a distance of 1 m and with reverberation time of 0.5 s. maximum speed

Accessori per gamma MI e HCA

Accessories for MI and HCA range

CODICE CODE			
<p>WRC09</p>			<p>The WRC09 remote control allows you to control the Mode functions, (the type of operation Auto, Cool, Dry, Heat, Fan Only), activation / deactivation the daily timer and function follow me. It also allows you to change the complete control of unit</p>
<p>WGC3</p>			<p>The centralized WGC3 filocontrol allows the control of up to 64 indoor units through mass functions or specific functions on the single unit such as on-off, change of setpoint or speed of fans</p>
<p>WGC5</p>			<p>The centralized WGC5 filocontrol allows the control of up to 64 indoor units through mass functions or specific functions specifications on the single unit such as on-off, change of setpoint or speed of fans. In order it allows the weekly programming function.</p>
<p>MFAR</p>			<p>Fresh air inlet-flange sleeve</p>

Modular terminal units slim/reduced



VERSIONS

- S-OIP** Single panel, horizontal naked terminal, rear air intake
- D-OIP** Double panel, horizontal naked terminal, rear air intake
- S-OII** Single panel, horizontal naked terminal, bottom air intake
- D-OII** Double panel, horizontal naked terminal, bottom air intake

GENERAL CHARACTERISTICS

- It has a self-supporting structure made of galvanized sheet with thermal and acoustic insulation (version S) or sandwich double panels 20mm thick with outer painted sheet with white RAL 9002 (version D); with ceiling/wall mounting holes, of contained dimensions and optimized encumbrance.
- Drain pan made with dual slope.
- Heat exchange coils with high efficiency made of copper tubes and aluminium fins, standard connections are located on the right side, 1 coil for a 2-pipe system; 2 coils for a 4-pipe system.
- Centrifugal fans with double air inlet aluminium blades of large diameter with 3-speed, mounted on elastic supports and dampers.
- The unit is provided with a of "Mammoth" type terminal board IP20 installed outside the unit.
- The basic units are supplied without air filter in order to allow the customer to choose between the available filtering sections as accessories; even the remote control is an accessory.

VERSIONI - VERSIONS

S-OIP

Single panel, horizontal naked terminal, rear air intake

D-OIP

Double panel, horizontal naked terminal, rear air intake

S-OII

Single panel, horizontal naked terminal, bottom air intake

D-OII

Double panel, horizontal naked terminal, bottom air intake



HCN		60	75	86	103	130		HCN
Pot. frigorifera / Cooling cap. / Puiss. frigorifique (1) (*)	W	6.010	7.480	8.590	10.300	12.900	W	(1) Kühlleistung / Pot. frigorifica / Cap. de racire
Resa sensibile / Sensible capacity / Rend. sensible (1) (*)	W	4.570	5.560	6.160	8.100	9.950	W	(1) Sensible Leistung / Cap. Sensible / Cap. de rac. sensibil
Pot. calorifica / Heating cap. / Puiss. calorifique (2) (*)	W	6.550	7.900	8.300	11.700	14.400	W	(3) Heizleistung / Pot. calorifica / Pot. calorifica
Pot. calorifica / Heating cap. / Puiss. calorifique (3) (*)	W	13.100	15.800	16.600	23.400	28.800	W	(2) Heizleistung / Pot. calorifica / Cap. de incalzire
Portata d'aria / Air flow / Débit d'air (4)	m³/h	1.100	1.200	1.150	2.100	2.300	m³/h	(4) Luftdurchflussmenge / Caudal de aire / Debit aer
Press. sonora / Sound pressure / Pression sonore (7)								(7) Geräusentwicklung / Nivel de ruido / Nivel de zgomot
Min-Med-Max	dB(A)	37-44-49	38-45-50	38-45-50	45-50-52	46-51-53	dB(A)	Min-Med-Max

HCN		136	150	170	200		HCN
Pot. frigorifera / Cooling cap. / Puiss. frigorifique (1)	W	13.600	15.000	17.200	20.200	W	(1) Kühlleistung / Pot. frigorifica / Cap. de racire
Resa sensibile / Sensible capacity / Rend. sensible (1)	W	10.800	11.100	13.300	14.900	W	(1) Sensible Leistung / Cap. Sensible / Cap. de rac. sensibil
Pot. calorifica / Heating cap. / Puiss. calorifique (2)	W	15.650	15.200	19.400	20.400	W	(2) Heizleistung / Pot. calorifica / Pot. calorifica
Pot. calorifica / Heating cap. / Puiss. calorifique (3)	W	31.300	30.400	38.800	40.800	W	(3) Heizleistung / Pot. calorifica / Cap. de incalzire
Portata d'aria / Air flow / Débit d'air (3)	m³/h	2.800	2.200	3.100	2.950	m³/h	(3) Luftdurchflussmenge / Caudal de aire / Debit aer
Press. sonora / Sound pressure / Pression sonore (6)							(6) Geräusentwicklung / Nivel de ruido / Nivel de zgomot
Min-Med-Max	dB(A)	41-48-51	46-51-53	42-49-52	42-49-52	dB(A)	Min-Med-Max

Batteria calda - Heating coil

HCN		60	75	-	103	130		HCN
Pot. calorifica / Heating cap. / Puiss. calorifique (2)	W	6.610	6.970	-	11.600	12.200	W	(2) Heizleistung / Pot. calorifica / Cap. de incalzire
Portata d'aria / Air flow / Débit d'air (4)	m³/h	1.050	1.140	-	2.000	2.170	m³/h	(4) Luftdurchflussmenge / Caudal de aire / Debit aer

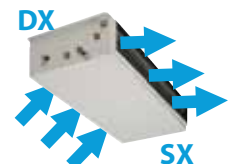
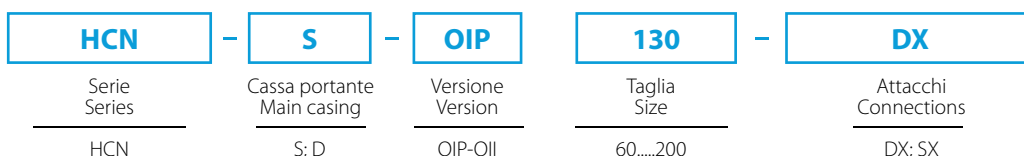
HCN		-	136	170	-		HCN
Pot. calorifica / Heating cap. / Puiss. calorifique (2)	W	-	15.500	16.400	-	W	(2) Heizleistung / Pot. calorifica / Cap. de incalzire
Portata d'aria / Air flow / Débit d'air (3)	m³/h	-	2.670	2.930	-	m³/h	(3) Luftdurchflussmenge / Caudal de aire / Debit aer

Nota: Rese e portate d'aria riferite in condizioni di prevalenza 0 Pa. Per prevalenze utili diverse riferirsi ai diagrammi di variazione di portata d'aria.
 Note: Capacities and air flow rates referred in terms of prevalence 0 Pa. For different static pressure, refer air flow variation diagrams.

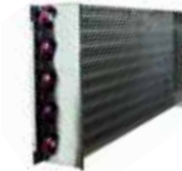
- | | |
|---|--|
| <p>(1) Temperatura aria in ingresso: 27°C b.s./19,5°C b.u.
Temperatura acqua in ingresso/uscita: 7°C / 12°C</p> <p>(2) Temperatura aria in ingresso: 20°C b.s.
Temperatura acqua in ingresso/uscita: 45°C / 40°C</p> <p>(3) Temperatura aria in ingresso: 20°C b.s.
Temperatura acqua in ingresso/uscita: 70°C / 60°C</p> <p>(4) Valori nominali rilevati con cassone rif. norme AMCA210-74 e condotto + diaframma rif. norme CNR-UNI10023</p> <p>(7) In campo libero, distanza 3 m. Valori calcolati da potenza sonora rilevata in camera riverberante rif. norme ISO3740 - ISO3742</p> <p>(1)(2)(3)(4)(5)(6) Dati tecnici nominali rif. portata aria (4) alla velocità max ed unità a bocca libera</p> <p>(*) Massima velocità
DN=Diametro nominale; F=Attacchi gas femmina</p> <p>(1) Température air en entrée: 27°C b.s./19°C b.u.
Température eau en entrée/sortie: 7°C / 12°C</p> <p>(2) Température air en entrée: 20°C b.s.
Température eau en entrée/sortie: 45°C / 40°C</p> <p>(3) Température air en entrée: 20°C b.s.
Température eau entrée/sortie: 70°C / 60°C</p> <p>(4) Valeurs nominales mesurées avec caisson selon normes réf. AMCA210-74 Standard et con duit + diaphragme réf. normes CNR-UNI10023</p> <p>(7) En champ libre, distance de 3 m. Valeurs calculées de puissance acoustique mesurée en chambre reverberante réf. normes ISO3740 - ISO3742</p> <p>(1)(2)(3)(4)(5)(6) Données techniques nominales réf. débit d'air (3) à vitesse maximale et unité à soufflage libre
DN=Diamètre nominal; F= Raccords gaz femelle</p> | <p>(1) Entering air temperature: 27°C d.b./19°C w.b.
In/Out water temperature: 7°C / 12°C</p> <p>(2) Entering air temperature: 20°C d.b.
In/Out water temperature: 70°C / 60°C</p> <p>(3) Entering air temperature: 20°C d.b.
In/Out water temperature: 40°C / 45°C</p> <p>(4) Nominal data measured with casing ref. AMCA210-74 standards and plenum + diaphragm ref. CNR-UNI10023 standards.</p> <p>(7) Free field sound pressure, 3 m distance. Data calculated based on sound power measured in reverberation room ref. ISO 3741 - ISO 3742 standards.</p> <p>(1)(2)(3)(4)(5)(6) Nominal technical data, refer air flow (4) to the max speed and unit with free air flow
DN: Nominal diameter; F=Female gas water coil connections</p> <p>(1) Temperatura intrare aer: 27°C b.s./19°C b.u.
Temperatura apa intrare/iesire: 7°C / 12°C</p> <p>(2) Temperatura intrare aer: 20°C b.t.
Temperatura apa intrare/iesire: 45°C / 40°C</p> <p>(3) Temperatura intrare aer: 20°C b.t.
Temperatura apa intrare/iesire: 70°C / 60°C</p> <p>(4) Date nominal calculate cu cascasa standard ref. AMCA210-74 si plenum+diafragma standard CNR-UNI10023</p> <p>(7) Nivel de zgomot in camp deschis, distanta 3 m. Datele au la baza puterea sonora masurata in camera standard de reverberatie ref. ISO3741-ISO3742</p> <p>(1)(2)(3)(4)(5)(6) Date tehnice nominale, debit de referinta max (3) si unitate in camp deschis
DN: Diametru nominal, F= conexiune baterie gaz apa filet interior</p> |
|---|--|

NOMENCLATURA - NOMENCLATURE

.When ordering, always specify complete model like the example.



HCN-S-OIP 130-DX



<p>BC</p>	<p>Auxiliary heating coil, 2 rows</p>
<p>MOR-TMB⁽¹⁾</p>	<p>Mammoth type terminal board + water low temperature thermostat. Tset 32°C</p>
<p>CRA⁽²⁾</p>	<p>3 speeds fan selector + Off/On selector + 2 pipes plant management with or without 230V on-off valves</p>
<p>CRB⁽²⁾</p>	<p>wall digital thermostat. 3 ways and auto selector + 2 or 4 pipes plant management with or without on-off valves, PWM, 3 points, electrical heaters</p>
<p>CBP⁽²⁾</p>	<p>On-off or brushless fan, 2 or 4 pipes plant management with or without on-off valve or 0..10V with 230V or 24V alimentation.</p>
<p>CRI⁽²⁾</p>	<p>Programable 230V ducted electronic thermostat - Relay contacts 3A/230V. Start-Stop + 3-speeds fan selector + heat/cool selector. 2 pipes plant management with or without on-off valve with 230V alimentation. Not compatible with TMB</p>
<p>TEL</p>	<p>Motherboard + Air sensor + Water sensor - I.R. reciever + I.R. Remote control (control 2-4 pipe units, with/without valves). Fan 7A-230Vac. Valves: 2A-230Vac.</p>
<p>SDI.4X3A</p>	<p>Card with 4 by 3A output (suitable to control up to max No. 4 3-Speed 3A motors ; ex. No. 4 small fan-coils) Contacts: 4x 3(0,3)A 230Vac</p>
<p>SDI.2X10A</p>	<p>Card with 2 by 10A output (suitable to control up to max No. 2 3-Speed motors of 10A ; ex. No. 1 large unit with 2 motors) Contatti-Contacts: 2x 10A-230Vac</p>
<p>RE</p>	<p>Electrical heater integrated inside the units + "TS" safety thermostat (without power relay) 230V/50Hz/1Ph</p>

(1) Tutte le unità HCN sono fornite complete di morsetteria standard tipo "Mammut", senza termostato. / All HCN units are supplied with standard Mammoth type terminal board, without thermostat.

(2) Ogni pannello comandi può controllare una sola unità (vedi accessorio "SDI"). / Each control panel can control only one unit (see accessory "SDI").



QR1

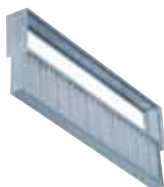
Power electric board for heaters 230Vac (BOX+magnetothermic+relè)

Modello Model	Potenza Power	Compatibilità HCN HCN compatibility	Compatibilità QR1 QR1 compatibility
RE0.7-24	0,7 kW / 3,1 A	Tutte le taglie - All sizes	QR1-0,7
RE1.0-24	1,0 kW / 4,4 A	Tutte le taglie - All sizes	QR1-1,4
RE1.5-24	1,5 kW / 6,6 A	Tutte le taglie - All sizes	QR1-2,3
RE2.0-24	2,0 kW / 8,7 A	Tutte le taglie - All sizes	QR1-2,3
RE3.0-24	3,0 kW / 13,1 A	HCN 103-130-150-136-170-200	QR1-3,7



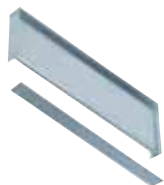
SFA-S
SFA-D

Flat air filter (not ductable), EU3 filtering level. (S=single skin panel made of galvanized steel, D=double skin panel pre-painted)



SFC-S
SFC-D

Ductable air filter section + flat air filter, EU3 filtering level (S=single skin panel made of galvanized steel, D=double skin panel pre-painted)



SFD-S
SFD-D

Ductable air filter section + HIGH EFFICIENCY undulated air filter H=100mm, EU5 filtering level (S=single skin panel made of galvanized steel, D=double skin panel pre-painted)

P.D.C. aria (filtro pulito/sporco) - Air press. drop (clean/dirty filter)

HCN	60	75	86	103	130	150	136	170	200
SFA (Pa)	15/35	17/42	16/38	23/55	27/66	25/60	22/54	28/66	25/60
SFC (Pa)	15/35	17/42	16/38	23/55	27/66	25/60	22/54	28/66	25/60
SFD (Pa)	20/37	24/44	22/41	32/59	38/70	35/64	31/58	39/71	35/64



3V-2,5
3V-4
3V-6

3-way valve with actuator 230V for 2 pipes units

3VM-2,5
3VM-4
3VM-6

0-10V 3-way valve with actuator 24Vac for 2 pipes units, Modulating signal 0-10V



2V-2,5
2V-4
2V-6

2-way valve with actuator 230V for 2 pipes units

2VM-2,5
2VM-4
2VM-6

2-way valve with actuator 24Vac for 2 pipes units, Modulating signal 0-10V



3VC-2,5
3VC-4
3VC-6

3-way valve for heating coil (4-pipe unit) with actuator 230V

3VCM-2,5
3VCM-4
3VCM-6

3-way valve for heating coil (4-pipe unit) with actuator 24Vac, Modulating signal 0-10V



<p>2VC-2,5 2VC-4 2VC-6</p>	<p>230V 2-way valve for heating coil (4-pipe unit) with actuator 230V</p>
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<p>2VCM-2,5 2VCM-4 2VCM-6</p>	<p>2-way valve for heating coil (4-pipe unit) with actuator 24Vac, Modulating signal 0-10V</p> <p>Note: Every single kit includes one valve and one actuator. In case of 4-pipe system must be provided n° 2 valves. For example, with ducted 4-pipe, in the case of 3-way valves, power supply 230 V: 3V + 3VC</p> <p>Caratteristiche delle valvole a 3vie / 2vie - COMBINAZIONI RACCOMANDATE 3/2 way valve characteristics - RECOMMENDED MATCHINGS</p> <table border="1"> <thead> <tr> <th>HCN</th> <th>60</th> <th>75</th> <th>86</th> <th>103</th> <th>130</th> <th>150</th> <th>136</th> <th>170</th> <th>200</th> </tr> </thead> <tbody> <tr> <td>Caratteristica valvola Valve characteristics</td> <td colspan="2">Kvs 2,5</td> <td colspan="3">Kvs 4</td> <td colspan="4">Kvs 6</td> </tr> <tr> <td>Attacchi lato utente User side connection</td> <td colspan="9">DN 3/4" M</td> </tr> <tr> <td>Pressione nominale Nominal pressure</td> <td colspan="9">PN 16 bar</td> </tr> </tbody> </table>	HCN	60	75	86	103	130	150	136	170	200	Caratteristica valvola Valve characteristics	Kvs 2,5		Kvs 4			Kvs 6				Attacchi lato utente User side connection	DN 3/4" M									Pressione nominale Nominal pressure	PN 16 bar								
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Pressione nominale Nominal pressure	PN 16 bar																																								



<p>SBC-O</p>	<p>Auxiliary drain pan made of galvanized steel- thermal insulation</p>
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<p>PMP</p>	<p>Condensate pump provided with 8A (250V)</p>
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<p>SSM-S SSM-D</p>	<p>External/Internal mixing section "external air 0-33% - internal air 100-67% or vice versa (coupled louvers with manual controls - can be motorized) (S=single skin panel made of galvanized steel, D=double skin panel pre-painted)</p> <p>Perdite Di Carico aria - Air pressure drop</p> <table border="1"> <thead> <tr> <th>HCN</th> <th>60</th> <th>75</th> <th>86</th> <th>103</th> <th>130</th> <th>150</th> <th>136</th> <th>170</th> <th>200</th> </tr> </thead> <tbody> <tr> <td>SSM (Pa)</td> <td>13</td> <td>15</td> <td>14</td> <td>20</td> <td>24</td> <td>22</td> <td>20</td> <td>24</td> <td>22</td> </tr> <tr> <td>S2S (Pa)</td> <td>15</td> <td>17</td> <td>16</td> <td>23</td> <td>27</td> <td>25</td> <td>22</td> <td>28</td> <td>25</td> </tr> </tbody> </table>	HCN	60	75	86	103	130	150	136	170	200	SSM (Pa)	13	15	14	20	24	22	20	24	22	S2S (Pa)	15	17	16	23	27	25	22	28	25
HCN	60	75	86	103	130	150	136	170	200																						
SSM (Pa)	13	15	14	20	24	22	20	24	22																						
S2S (Pa)	15	17	16	23	27	25	22	28	25																						



<p>S2S-S S2S-D</p>	<p>Closed section + 2 Regulation/adjustment louvers (1 louver below + 1 louver on the rear side) - Louvers without controls - can be either manual or motorized control (S=single skin panel made of galvanized steel, D=double skin panel pre-painted)</p>
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<p>MS</p>	<p>Motor "230Vac on-off" suitable for air damper</p>
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<p>SSL-S SSL-D</p>	<p>Labyrinth noise level attenuator section, suitable for both air intake/supply outlets (S=single skin panel made of galvanized steel, D=double skin panel pre-painted)</p>
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<p>SCM-S SCM-D</p>	<p>Steel section with spigots "Ø" with variable diameter made of plastic material, external insulation (S=single skin panel made of galvanized steel, D=double skin panel pre-painted)</p> <p>N° e Ø attacchi circolari - N° and Ø spigots</p> <table border="1"> <thead> <tr> <th>HCN</th> <th>60</th> <th>75</th> <th>86</th> <th>103</th> <th>130</th> <th>150</th> <th>136</th> <th>170</th> <th>200</th> </tr> </thead> <tbody> <tr> <td>SCM n° x Ø</td> <td colspan="3">3xØ200/180/160</td> <td colspan="3">5xØ200/180/160</td> <td colspan="3">6xØ200/180/160</td> </tr> </tbody> </table>	HCN	60	75	86	103	130	150	136	170	200	SCM n° x Ø	3xØ200/180/160			5xØ200/180/160			6xØ200/180/160		
HCN	60	75	86	103	130	150	136	170	200												
SCM n° x Ø	3xØ200/180/160			5xØ200/180/160			6xØ200/180/160														

Medium ductable terminal units with Brushless DC and AC asynchronous motor



D



S

N° 2 motorizzazioni:
6 Poli o Brushless

N° 2 motor types:
6 Poles or Brushless

VERSIONI

- S** Versione da incasso - Singolo pannello
D Versione a vista - Doppio pannello

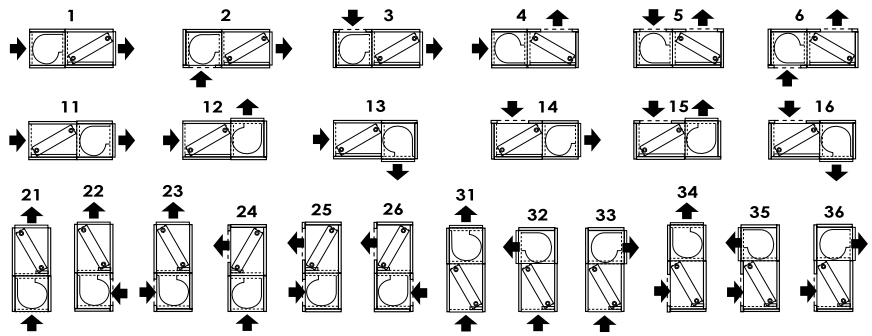
VERSIONS

- S** Concealed version - Single panel
D With cabinet version - Double panel

The HCNA are small air handling units, which can be freely configured. It is possible to select between 2 motors (6 Poles or Brushless), 2 types of housing cases (S or D), the version of 2/4 pipes and a wide range of coupled accessories. The wide flexibility combined with the full range of capacity rating is the HCNA winning idea that allows to find the best solution for suiting your needs.

TECHNICAL FEATURES

- It has a self-supporting structure made of thick galvanized sheet making it resistant to rust, corrosion, chemical agents, solvents, aliphatic and alcohols. Self-supporting panels and removable; assembling with self-tapping screws for quick and easy inspection/maintenance. They are available in housing cases "S"-version (Simple panel) and "D"-version (Sandwich double panels 20mm thick with outer painted sheet with white RAL 9002). The units provide heat exchange coils (without air vent valves) with high-efficiency made of copper tubes and aluminium fins. Standard connections located on the right; on request for left connections at additional charges. The sections with cooling coil are equipped with a drain pan in galvanized sheet + external thermal insulation (optional, with additional charges, made of stainless steel AISI 304) with a single slope in order to ensure the optimal condensate draining, with drain hole of Ø30mm.
- The standard electrical equipment includes: "Mammoth" type terminal board IP20 installed outside the unit on the same side of the water connections. For units with 2 motors, it is recommended the installation of 3 relays or the interface card.
- All the standard versions are supplied with free air inlet and air outlet openings, without any grill/protection and without air filter.



HCNA

71 117 143 165 216⁽⁷⁾

HCNA

Pot. frigorifera / Cooling cap. / Puiss. frigorifique (1)	W	7.100	11.700	14.300	16.500	21.600	W	(1) Kühlleistung / Pot. frigorifica / Cap. de racire
Resa sensibile / Sensible capacity / Rend. sensible (1)	W	5.800	9.800	11.700	13.600	17.800	W	(1) Sensible Leistung / Cap. Sensible / Cap. de rac. sensibil
Pot. calorifica / Heating cap. / Puiss. calorifique (2)	W	16.700	28.200	34.000	39.400	51.300	W	(2) Heizleistung / Pot. calorifica / Cap. de incalzire
Pot. calorifica / Heating cap. / Puiss. calorifique (3)	W	8.350	14.100	17.000	19.700	25.650	W	(3) Heizleistung / Pot. calorifica / Cap. de incalzire
Portata d'aria / Air flow / Débit d'air (3)	m ³ /h	1.440	2.480	2.890	3.350	4.800	m ³ /h	(3) Luftdurchflussmenge / Caudal de aire / Debit aer
Portata acqua / Water flow / Débit d'eau (4)								(4) Wasserdurchflussmenge / Caud. de agua / Debit apa
Raffreddamento / Cooling / Refroidissement	l/h	1.222	2.013	2.460	2.838	3.716	l/h	Kühlung / Enfriamiento / Racire
Riscaldamento / Heating / Chauffage	l/h	1.437	2.426	2.924	3.389	4.412	l/h	Heizung / Calefacción / Incalzire
Perdite di carico acqua / Pressure drop water / Pertes de pression eau (5)								(5) Leitungsverluste / Pérdidas de carga agua / Cadere de presiune
Raffreddamento / Cooling / Refroidissement	kPa	26,2	27,3	28,5	25,9	26,6	kPa	Kühlung / Enfriamiento / Racire
Riscaldamento / Heating / Chauffage	kPa	28,3	30,9	31,4	28,8	29,2	kPa	Heizung / Calefacción / Incalzire
Press. sonora / Sound pressure / Pression sonore (6)								(6) Geräusentwicklung / Nivel de ruido / Nivel de zgomot
Min-Med-Max	dB(A)	35-42-44	43-46-49	41-45-47	37-42-46	49-52-54	dB(A)	Min-Med-Max
Motori/Ventilatori - Motors/Fans - Moteurs/Ventilateurs	n°/n°	1/1	1/1	1/1	1/1	1/1	n°/n°	Motor/Ventilator-Motor/Ventilador-Motor/Ventilator
Corr. assorbita / Absorbed current / Cou. absorbé	A	1x1,2	1x2,6	1x2,5	1x2,7	1x6,6	A	Stromaufnahme / Corr. absorbida / Curent absorbit
Alimentazione / Power supply / Alimentation		230Vac - 1 Ph - 50Hz						Versorgung / Alimentación / Alimentare
Poli / Poles / Pôles		6						Pole / Pólos / Pólos
Batteria/Ranghi - Coil/Rows - Batterie/Rangées	n°	3R					n°	Batterie/Zellen-Bateria/Bancos de tubos-Schimbador/baterii
Attacchi idraulici / Water connections / Con. hydrauliques	Ø	3/4"	1"	1"	1"	1"-1/4"	Ø	Hyd. Anschlüsse / Acoplam. para agua / Racorduri hidraulice
Scarico condensa / Drain pipe / évac. condensant	Ø (mm)	30					Ø (mm)	Kondenswasser. / Desagüe cond. / Teava de condens

Batteria calda - Heating coil

HCNA

71 117 143 165 216⁽⁷⁾

HCNA

Pot. calorifica / Heating cap. / Puiss. calorifique (2)	W	12.200	21.300	26.400	30.800	39.400	W	(2) Heizleistung / Pot. calorifica / Cap. de incalzire
Portata d'aria / Air flow / Débit d'air (3)	m ³ /h	1.320	2.420	2.840	3.350	4.800	m ³ /h	(3) Luftdurchflussmenge / Caudal de aire / Debit aer
Portata acqua / Water flow / Débit d'eau (4)								(4) Wasserdurchflussmenge / Caud. de agua / Debit apa
Riscaldamento / Heating / Chauffage	l/h	1.053	1.832	2.270	2.649	3.389	l/h	Heizung / Calefacción / Incalzire
Perdite di carico acqua / Pressure drop water / Pertes de pression eau (5)								(5) Leitungsverluste / Pérdidas de carga agua / Cadere de presiune
Riscaldamento / Heating / Chauffage	kPa	29,7	35,0	35,3	36,4	38,4	kPa	Heizung / Calefacción / Incalzire
Batteria/Ranghi - Coil/Rows - Batterie/Rangées	n°	2R	2R	2R	2R	2R	n°	Batterie/Zellen-Bateria/Bancos de tubos-Schimbador/baterii
Attacchi idraulici / Water connections / Con. hydrauliques	Ø	3/4"	1"	1"	1"	1"-1/4"	Ø	Hyd. Anschlüsse / Acoplam. para agua / Racorduri hidraulice

(1) Temperatura aria in ingresso: 27°C b.s./19°C b.u.
Temperatura acqua in ingresso/uscita: 7°C / 12°C
Massima velocità
(2) Temperatura aria in ingresso: 20°C b.s.
Temperatura acqua in ingresso/uscita: 70°C / 60°C
Massima velocità
(3) Valori nominali rilevati con cassone rif. norme AMCA210-74 e condotto + diaframma rif. norme CNR-UNI10023
(6) In campo libero, distanza 3 m. Valori calcolati da potenza sonora rilevata in camera riverberante rif. norme ISO3740 - ISO3742
(7) Con accessori CRB-CRBM-CBP-CRA. Per unità dotate di motore con assorbimento elettrico maggiore di 3A, oppure con 2 motori, aggiungere 1 scheda interfaccia SDI.2x10A.
(1)(2)(3)(4)(5) Dati tecnici nominali rif. portata aria (3) alla velocità max ed unità a bocca libera
(*) DN=Diametro nominale; F=Attacchi gas femmina

(1) Temperatur air en entrée: 27°C b.s./19°C b.u.
Temperatur eau en entrée/sortie: 7°C / 12°C
Maximale vitesse
(2) Temperatur air en entrée: 20°C b.s.
Temperatur eau en entrée/sortie: 70°C / 60°C
Vitesse maximale
(3) Valeurs nominales mesurées avec caisson selon normes réf. AMCA210-74 Standard et conduit + diaphragme réf. normes CNR-UNI10023
(6) En champ libre, distance de 3 m. Valeurs calculées de puissance acoustique mesurée en chambre reverbérante réf. normes ISO3740 - ISO3742
(7) With CRB-CRBM-CBP-CRA accessories. For units with absorbed current power input higher than 3A, or with 2 motors, provide 1 SDI.2x10A power board
(1) (2) (3) (4) (5) Données techniques nominales réf. débit d'air (3) à vitesse maximale et unité à soufflage libre
(*) DN=Diamètre nominal; F= Raccords gaz femelle

(1) Entering air temperature: 27°C d.b./19°C w.b.
In/Out water temperature: 7°C / 12°C
Max speed
(2) Entering air temperature: 20°C d.b.
In/Out water temperature: 70°C / 60°C
Max speed
(3) Nominal data measured with casing ref. AMCA210-74 standards and plenum + diaphragm ref. CNR-UNI10023 standards.
(6) Free field sound pressure, 3 m distance. Data calculated based on sound power measured in riverberation room ref. ISO 3741 - ISO 3742 standards.
(1)(2)(3)(4)(5) Nominal technical data, refer air flow (3) to the max speed and unit with free air flow
(*) DN: Nominal diameter; F= Female gas water coil connections

(1) Temperatura intrare aer
Temperatura apa intrare/iesire
Viteza max
(2) Temperatura intrare aer
Temperatura apa intrare/iesire
Viteza max
(3) Date nominale calculate cu cascasa standard ref. AMCA210-74 si plenum+diafragma standard CNR-UNI10023
(6) Nivel de zgomot in camp deschis, distanta 3 m. Datele au la baza puterea sonora masurata in camera standard de reverberatie ref. ISO3741-ISO3742
(1)(2)(3)(4)(5) Date tehnice nominale, debit de referinta max (3) si unitate in camp deschis
(*) DN: Diametru nominal, F= conexiune baterie gaz apa filet interior

290⁽⁷⁾ 240⁽⁷⁾⁽⁸⁾ 293⁽⁷⁾⁽⁸⁾ 330⁽⁷⁾⁽⁸⁾ 565⁽⁷⁾⁽⁸⁾ 685⁽⁷⁾⁽⁸⁾

Pot. frigorifera / Cooling cap. / Puiss. frigorifique (1)	W	29.100	24.000	29.300	33.000	56.500	68.500	W	(1) Kühlleistung / Pot. frigorifica / Cap. de racire
Resa sensibile / Sensible capacity / Rend. sensible (1)	W	23.700	20.200	23.900	27.200	43.100	54.000	W	(1) Sensible Leistung / Cap. Sensible / Cap. de rac. sensibil
Pot. calorifica / Heating cap. / Puiss. calorifique (2)	W	68.200	58.600	69.200	78.300	121.900	153.300	W	(2) Heizleistung / Pot. calorifica / Cap. de incalzire
Pot. calorifica / Heating cap. / Puiss. calorifique (3)		34.100	29.300	34.600	39.150	60.950	76.650		(3) Heizleistung / Pot. calorifica / Cap. de incalzire
Portata d'aria / Air flow / Débit d'air (3)	m ³ /h	5.800	4.970	5.770	6.700	9.600	11.600	m ³ /h	(3) Luftdurchflussmenge / Caudal de aire / Debit aer
Portata acqua / Water flow / Débit d'eau (4)									(4) Wasserdurchflussmenge / Caud. de agua / Debit apa
Prevalenza statica utile / External static pressure / Pression statique	Pa	106	106	85	85	135	135	Pa	Statischer Druck / Presión estática / Presiune statică
Raffreddamento / Cooling / Refroidissement	l/h	5.006	4.128	5.040	5.676	9.718	11.782	l/h	Kühlung / Enfriamiento / Racire
Riscaldamento / Heating / Chauffage	l/h	5.866	5.040	5.952	6.734	10.4840	13.184	l/h	Heizung / Calefacción / Incalzire
Perdite di carico acqua / Pressure drop water / Pertes de pression eau (5)									(5) Leitungsverluste / Pérdidas de carga agua / Cadere de presiune
Raffreddamento / Cooling / Refroidissement	kPa	31,3	25,7	26,0	27,3	30,6	33,4	kPa	Kühlung / Enfriamiento / Racire
Riscaldamento / Heating / Chauffage	kPa	33,5	29,9	28,3	30,0	27,8	32,6	kPa	Heizung / Calefacción / Incalzire
Press. sonora / Sound pressure / Pression sonore (6)									(6) Geräusentwicklung / Nivel de ruido / Nivel de zgomot
Min-Med-Max	dB(A)	45-48-50	46-49-52	44-48-50	40-45-49	52-55-57	48-51-53	dB(A)	Min-Med-Max
Motori/Ventilatori - Motors/Fans - Moteurs/Ventilateurs	n°/n°	1/1	2/2	2/2	2/2	2/2	2/2	n°/n°	Motor/Ventilator-Motor/Ventilador-Motor/Ventilator
Corr. assorbita / Absorbed current / Cou.absorbé	A	1x6,8	2x2,6	2x2,5	2x2,7	2x6,6	2x6,8	A	Stromaufnahme / Corr. absorbida / Curent absorbit
Alimentazione / Power supply / Alimentation		230Vac - 1 Ph - 50Hz							Versorgung / Alimentación / Alimentare
Poli / Poles / Póles		6							Pole / Pólos / Pólos
Batteria/Ranghi - Coil/Rows - Batterie/Rangées	n°	3R	3R	3R	3R	4R	4R	n°	Batterie/Zellen-Batería/Bancos de tubos-Schimbador/baterii
Attacchi idraulici / Water connections / Con. hydrauliques	Ø	1"-1/2"M	1"-1/4"M	1"-1/2"M	1"-1/2"M	1"-1/2"M	1"-1/2"M	Ø	Hyd. Anschlüsse / Acoplam. para agua / Racorduri hidraulice
Scarico condensa / Drain pipe / évac. condensant	Ø (mm)	30	30	30	30	30	30	Ø (mm)	Kondenswasser. / Desagüe cond. / Teava de condens

Batteria calda - Heating coil

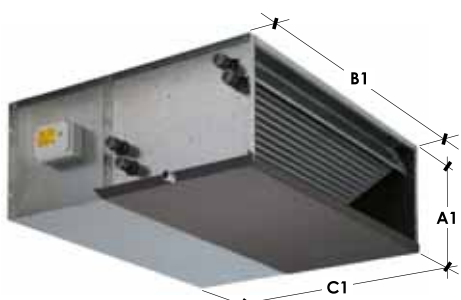
290⁽⁷⁾ 240⁽⁷⁾⁽⁸⁾ 293⁽⁷⁾⁽⁸⁾ 330⁽⁷⁾⁽⁸⁾ 565⁽⁷⁾⁽⁸⁾ 685⁽⁷⁾⁽⁸⁾

Pot. calorifica / Heating cap. / Puiss. calorifique (2)	W	53.300	43.800	53.400	60.700	83.000	100.900	W	(2) Heizleistung / Pot. calorifica / Cap. de incalzire
Portata d'aria / Air flow / Débit d'air (3)	m ³ /h	5.800	4.830	5.680	6.700	9.600	11.600	m ³ /h	(3) Luftdurchflussmenge / Caudal de aire / Debit aer
Prevalenza statica utile / External static pressure / Pression statique	Pa	74	74	52	52	112	112	Pa	Statischer Druck / Presión estática / Presiune statică
Portata acqua / Water flow / Débit d'eau (4)									(4) Wasserdurchflussmenge / Caud. de agua / Debit apa
Riscaldamento / Heating / Chauffage	l/h	4.584	3.768	4.595	5.221	7.138	8.678	l/h	Heizung / Calefacción / Incalzire
Perdite di carico acqua / Pressure drop water / Pertes de pression eau (5)									(5) Leitungsverluste / Pérdidas de carga agua / Cadere de presiune
Riscaldamento / Heating / Chauffage	kPa	35,7	36,0	32,3	35,1	35,1	38,5	kPa	Heizung / Calefacción / Incalzire
Batteria/Ranghi - Coil/Rows - Batterie/Rangées	n°	3R	3R	3R	3R	4R	4R	n°	Batterie/Zellen-Batería/Bancos de tubos-Schimbador/baterii
Attacchi idraulici / Water connections / Con. hydrauliques	Ø	1"-1/4"M	1"-1/4"M	1"-1/4"M	1"-1/4"M	1"-1/4"M	1"-1/4"M	Ø	Hyd. Anschlüsse / Acoplam. para agua / Racorduri hidraulice

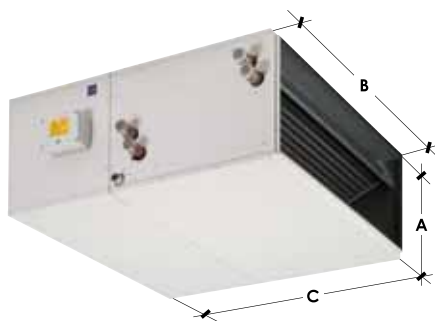
- (1) Temperatura aria in ingresso: 27°C b.s./19°C b.u. Temperatura acqua in ingresso/uscita: 7°C / 12°C
- (2) Temperatura aria in ingresso: 20°C b.s. Temperatura acqua in ingresso/uscita: 70°C / 60°C
- (3) Valori nominali rilevati con cassone rif. norme AMCA210-74 e condotto + diaframma rif. norme CNR-UNI10023
- (4) In campo libero, distanza 3 m. Valori calcolati da potenza sonora rilevata in camera riverberante rif. norme ISO3740 - ISO3742
- (5) Con accessori CRB-CRBM-CBP-CRA. Per unità dotate di motore con assorbimento elettrico maggiore di 3A, oppure con 2 motori, aggiungere 1 scheda interfaccia SDI.2x10A.
- (6) Con accessorio TEL. Per unità dotate di motore con assorbimento elettrico maggiore di 7A, oppure con 2 motori, aggiungere 1 scheda interfaccia SDI.2x10A.
- (7) (2)(3)(4)(5) Dati tecnici nominali rif. portata aria (3) alla velocità max ed unità a bocca libera
- (*) DN=Diametro nominale; F=Attacchi gas femmina; M= Maschio

- (1) Temperatură aer în intrare: 27°C b.s./19°C b.u. Temperatură apă în intrare/iesire: 7°C / 12°C
- (2) Temperatură aer în intrare: 20°C b.s. Temperatură apă în intrare/iesire: 70°C / 60°C
- (3) Valori nominale măsurate cu cașson referință conform normelor AMCA210-74 Standard și conductivitate + diafragmă referință conform normelor CNR-UNI10023
- (4) În câmp liber, distanță de 3 m. Valori calculate pe baza puterii sonore măsurate în cameră reverberantă referință conform normelor ISO3740 - ISO3742
- (5) Cu accesorii CRB-CRBM-CBP-CRA. Pentru unități dotate cu putere de absorbție electrică mai mare de 3A, sau cu 2 motoare, adăugați o placă de interfață SDI.2x10A.
- (6) Cu accesoriu TEL. Pentru unități dotate cu putere de absorbție electrică mai mare de 7A, sau cu 2 motoare, adăugați o placă de interfață SDI.2x10A.
- (7) (2)(3)(4)(5) Date tehnice nominale, debit de referință max (3) și unitate în câmp deschis
- (*) DN= Diametru nominal; F= Raccorduri gaz femeie; M= Mâle

- (1) Entering air temperature: 27°C d.b./19°C w.b. In/Out water temperature: 7°C / 12°C
- (2) Entering air temperature: 20°C d.b. In/Out water temperature: 70°C / 60°C
- (3) Nominal data measured with casing ref. AMCA210-74 standards and plenum + diaphragm ref. CNR-UNI10023 standards.
- (4) Free field sound pressure, 3 m distance. Data calculated based on sound power measured in reverberation room ref. ISO 3741 - ISO 3742 standards.
- (1)(2)(3)(4)(5) Nominal technical data, refer air flow (3) to the max speed and unit with free air flow
- (*) DN: Nominal diameter; F= Female gas water coil connections; M= Male connection
- (1) Temperatura intrare aer Temperatura apă intrare/iesire
- (2) Temperatură intrare aer Temperatură apă intrare/iesire
- (3) Date nominale calculate cu cascasa standard ref. AMCA210-74 și plenum+diafragmă standard CNR-UNI10023
- (4) Nivel de zgomot în câmp deschis, distanță 3 m. Datele au la baza puterea sonoră măsurată în cameră reverberantă referință conform normelor ISO3741-ISO3742
- (1)(2)(3)(4)(5) Date tehnice nominale, debit de referință max (3) și unitate în câmp deschis
- (*) DN= Diametru nominal, F= conexiune baterie gaz apă filet interior; M= Mascul



S
Versione da incasso - Singolo pannello
Concealed version - Single panel



D
Versione a vista - Doppio pannello
With cabinet version - Double panel

VERSIONE / VERSION "S"

HCNA		71	117	143	165	216	290	240	293	330	565	685
A1	mm	360	425	425	480	550	550	425	425	480	580	580
B1	mm	560	660	760	760	1.160	1.360	1.160	1.360	1.360	1.660	1.660
C1	mm	840	995	1.105	1.160	1.140	1.240	995	1.105	1.160	1.450	1.450
Peso/Weight	kg	35,8	46,6	55,7	60,6	93,7	107,8	78,5	94,8	103,5	179,1	181,1

VERSIONE / VERSION "D"

HCNA		71	117	143	165	216	290	240	293	330	565	685
A	mm	380	440	440	480	570	570	440	440	480	600	600
B	mm	520	620	720	720	1.120	1.320	1.120	1.320	1.320	1.620	1.620
C	mm	870	1.020	1.120	1.160	1.150	1.250	1.020	1.120	1.160	1.470	1.470
Peso/Weight	kg	45,1	59,5	71,3	77,3	118,9	138,7	99,7	121,4	131,4	224,4	226,4

VERSIONE / VERSION "S" - CON BATTERIA CALDA / HOT WATER EXCHANGER

HCNA		71	117	143	165	216	290	240	293	330	565	685
A1	mm	360	425	425	480	550	550	425	425	480	580	580
B1	mm	560	660	760	760	1.160	1.360	1.160	1.360	1.360	1.660	1.660
C1	mm	840	995	1.105	1.160	1.140	1.240	995	1.105	1.160	1.450	1.450
Peso/Weight	kg	40,2	52,1	62,3	67,2	104,7	123,8	89,5	110,8	119,5	203,1	205,1

VERSIONE / VERSION "D" - CON BATTERIA CALDA / HOT WATER EXCHANGER

HCNA		71	117	143	165	216	290	240	293	330	565	685
A	mm	380	440	440	480	570	570	440	440	480	600	600
B	mm	520	620	720	720	1.120	1.320	1.120	1.320	1.320	1.620	1.620
C	mm	870	1.020	1.120	1.160	1.150	1.250	1.020	1.120	1.160	1.470	1.470
Peso/Weight	kg	49,5	65,0	77,9	83,9	129,9	154,7	110,7	137,4	197,4	248,4	250,4

HYDRONIC TERMINALS



<p>BC</p>	<p>Auxiliary heating coil, 2 rows</p>
<p>MOR-TMB⁽¹⁾</p>	<p>Mammoth type terminal board + water low temperature thermostat</p>
<p>CRA^{*(2)}</p>	<p>Off/On selector + 2 pipes plant management with or without 230V on-off valves</p>
<p>CRB^{*(2)}</p>	<p>230V/24V wall digital thermostat. 3 ways and auto selector + 2 or 4 pipes plant management with or without on-off valves, PWM, 3 points, electrical heaters</p>
<p>CBP^{*(2)}</p>	<p>Digital wall thermostat 230V/24V. On-off or brushless fan, 2 or 4 pipes plant management with or without on-off valve or 0..10V with 230V or 24V alimentation.</p>
<p>CRI</p>	<p>Programable 230V ducted electronic thermostat - Relay contacts 3A/230V. Start-Stop + 3-speeds fan selector + heat/cool selector. 2 pipes plant management with or without on-off valve with 230V alimentation. Cover requested B-Ticino LIVING or AVE System 45 or Vimar Idea.</p>
<p>TEL*</p>	<p>Motherboard + Air sensor + Water sensor - I.R. reciever + I.R. Remote control (control 2-4 pipe units, with/without valves). Fan 7A-230Vac. Valves: 2A-230Vac.</p>
<p>SDI.4X3A</p>	<p>Card with 4 by 3A output (suitable to control up to max No. 4 3-Speed 3A motors ; ex. No. 4 small fan-coils) Contatti-Contacts: 4x 3(0,3)A 230Vac</p>
<p>SDI.2X10A*</p>	<p>Card with 2 by 10A output (suitable to control up to max No. 2 3-Speed motors of 10A ; ex. No. 1 large unit with 2 motors) Contatti-Contacts: 2x 10A-230Vac</p>

*ATTENZIONE: verificare che gli assorbimenti elettrici dei motori delle unità siano compatibili con la portata contatti dei comandi remoti. Qualora l'assorbimento elettrico sia maggiore, o l'unità sia dotata di due motori, si raccomanda di utilizzare la Scheda di interfaccia SDI.

*WARNING: verify if the electrical absorption of the units motors are compatible with the remote control contact rating. If the electrical absorption is higher, or the unit is provided with 2 motors, it's recommended to use SDI chart.

(1) Tutte le unità HCNA sono fornite complete di morsetteria standard tipo "Mammut", senza termostato. / All HCNA units are supplied with standard Mammoth type terminal board, without thermostat.
(2) Ogni pannello comandi può controllare una sola unità (vedi accessorio "SDI"). / Each control panel can control only one unit (see accessory "SDI").



<p>PFA-S PFA-D</p>	<p>Ductable air filter section + flat air filter, EU3 filtering level (S=single skin panel made of galvanized steel, D=double skin panel pre-painted)</p>
<p>PFO-S PFO-D</p>	<p>Ductable air filter section + HIGH EFFICIENCY undulated air filter H=100mm, EU5 filtering level (S=single skin panel made of galvanized steel, D=double skin panel pre-painted)</p>
<p>PFT-S PFT-D</p>	<p>Ductable air filter section+VERY HIGH EFFICIENCY POCKET BAGS air filter h=400mm with EU7 filtering level (S=single skin panel made of galvanized steel, D=double skin panel pre-painted)</p>
<p>PMA-S PMA-D</p>	<p>External/internal mixing section "external air 0-33% - internal air 100-67%" (S=single skin panel made of galvanized steel, D=double skin panel pre-painted)</p>
<p>P2S-S P2S-D</p>	<p>Closed section +2 regulation/adjustment louvers (1 louver below + 1 louver on the rear side). Louvers without controls, can be either manual or motorized control. (S=single skin panel made of galvanized steel, D=double skin panel pre-painted)</p>
<p>MS</p>	<p>Servomotore "230 Vac on/off" per serranda aria Motor "230Vac on-off" suitable for air damper</p>
<p>P90-S P90-D</p>	<p>) 90° section (S=single skin panel made of galvanized steel, D=double skin panel pre-painted)</p>
<p>PCR-S PCR-D</p>	<p>Steel section with spigots "Ø"; internal insulation. (S=single skin panel made of galvanized steel, D=double skin panel pre-painted)</p>
<p>PSL-S PSL-D</p>	<p>Labyrinth noise level attenuator section, suitable for both air intake/supply outlets (S=single skin panel made of galvanized steel, D=double skin panel pre-painted)</p>
<p>PMP</p>	<p>Pompa condensa con serbatoio integrato da 0,5 l, provvista di contatto allarme 4A (250V) Condensate pump including 0,5 litres condensate tank, provided with 4A (250V)</p>

CARATTERISTICHE DELLE BATTERIE - COIL CHARACTERISTICS

HCNA		71	117	143	165	216	290	240	293	330	565	685
Batteria caldo/freddo Heat/cool coil	Caratteristica Kvs Kvs characteristic	2,33	3,78	4,58	5,65	6,65	9,00	8,22	9,91	11,04	16,36	19,73
	Attacchi lato utente DN User side connection DN	3/4" M	1" M	1" M	1" M	1"-1/4 M	1"-1/2 M	1"-1/4 M	1"-1/2 M	1"-1/2 M	1"-1/2 M (4R)	1"-1/2 M (4R)
Batteria calda Heat coil	Caratteristica Kvs Kvs characteristics	1,66	2,56	3,23	3,94	4,64	6,46	5,73	7,14	7,98	9,67	11,53
	Attacchi lato utente DN User side connection DN	3/4" M	1" M	1" M	1" M	1"-1/4 M	1"-1/4 M	1"-1/4 M	1"-1/4 M	1"-1/4 M	1"-1/4 M	1"-1/4 M

CARATTERISTICHE DELLE VALVOLE - VALVE CHARACTERISTICS

Valvola 3 vie
3-way valve

(1) Ogni singolo kit comprende una sola valvola di regolazione
(1) Every single kit includes 1 intercept valve only

3V / 3VM DN 3/4" Kvs 2,8 DN 1" Kvs 5,2 DN 1 1/4" Kvs 13,0 DN 1 1/2" Kvs 16,0

Valvola 2 vie
2-way valve

(1) Ogni singolo kit comprende una sola valvola di regolazione
(1) Every single kit includes 1 intercept valve only

2V / 2VM DN 3/4" Kvs 2,8 DN 1" Kvs 5,2 DN 1 1/4" Kvs 13,0 DN 1 1/2" Kvs 16,0

(1) Ogni singolo kit valvole è compatibile con qualsiasi taglia di unità HCNA. In ogni caso:
- per valvole on-off è consigliato usare valvole con alto Kvs
- per valvole modulanti è consigliato usare valvole con Kvs confrontabile con il Kvs della batteria

(1) Each valve kit is suitable for any HCNA unit size. Anyway:
-with on-off valve it is recommended to use valves with high Kvs
-with modulating valves it is recommended to use valves with Kvs comparable with the one of the coil



3V-2,8
3V-5,2
3V-13
3V-16

N°1 valvola a 3 vie con servocomando 230V
3-way valve with actuator 230V

3VM-2,8
3VM-5,2
3VM-13
3VM-16

N°1 valvola a 3 vie con servocomando 24Vac, segnale modulazione 0-10V
3-way valve with actuator 24Vac, modulating signal 0-10V



2V-2,8
2V-5,2
2V-13
2V-16

N°1 valvola a 2 vie con servocomando 230V
2-way valve with actuator 230V

2VM-2,8
2VM-5,2
2VM-13
2VM-16

N°1 valvola a 2 vie con servocomando 24Vac, segnale modulazione 0-10V
2-way valve with actuator 24Vac, modulating signal 0-10V

La batteria calda delle unità HCNA (sistema a 4 tubi) monta la stessa tipologia di valvole. Quindi in un sistema a 4 tubi vanno previste n° 2 valvole (n° 2 codici)
The heat coil of HCNA units (4-pipes system) require the same type valves. So the 4-pipes system need n°2 valves (n° 2 codes)

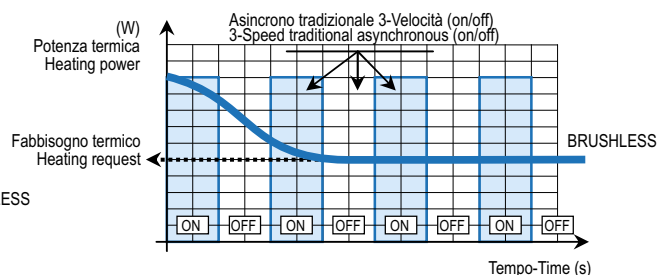
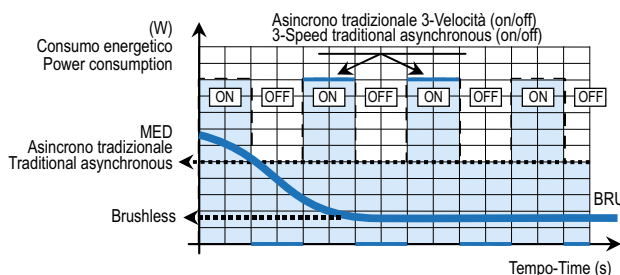


MB*

Brushless con variazione continua 0-100% della portata aria (segnale 0..10 Vdc)
-50% consumo annuo energia elettrica
-50% emissioni CO₂
-50% livello di rumorosità

Brushless motor with continuous variation 0-100% of the air flow (signal 0..10 Vdc)
-50% yearly energy consumption
-50% CO₂ emissions
-50% noise level

Accessorio indispensabile per il funzionamento di una unità con motore Brushless è il regolatore con segnale di controllo modulante 0..10 Vdc, accessorio CBP.
An essential accessory for the operation of a unit with Brushless motor is the controller with modulating control signal 0..10 Vdc, accessory CBP.



*MB non va abbinato ad accessorio TEL
*MB should not be combined with accessory TEL