

Air cooled liquid chillers units with "Free-Cooling" section



#### VERSIONS

HWA-A/FC

HWA-A/FC/SP

cooling only

cooling only with tank and pump

#### TECHNICAL FEATURES

- Frame. With supporting frame, in galvanized sheet further protected with polyester powder painting. Stainless-steel screws.
- Compressor. Scroll ermetic 3-phase compressor, complete with overload protection (Klixon) embedded in the motor and crankcase, if needed, installed on rubber vibrations absorbing.
- Fans. Axial fan type low ventilation and special wing profile, they are directly coupled to external rotor motors with protection grade IP54, condensation control and a safety fan guard fitted on discharge air flow.
- Condenser. Copper tube and aluminium finned coil.
- Evaporator. In AISI 316 stainless steel brazewelded plates type. The evaporator is insulated with flexible closed cells material.
- Electrical board. Includes: main switch with door safety interlock, fuses, overload protection for compressors and pump.
- Microprocessor to control following functions: regulation of the water temperature, antifreeze protection, compressor timing, alarm reset, potential free contact for remote general alarm; visual system with digital display: compressor delay relay/on, inlet water temperature, set point and differential setting, alarm decodification. A differential thermostat controls the Free-Cooling system.

HWA-A/FC

0127

0131

0137

0142

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(1) Pot. frigorifera / Cooling capacity / Puis. frigorifique	kW	27,9	31,4	37,3	42,8	Kühlleistung / Pot. frigorífica / Cap. de racine (1)
(1) Pot. assorbita / Power input / Puiss. absorbée	kW	9,5	11,0	13,9	15,6	Leistungsaufnahme / Pot. absorbida / Put. absorbida (1)
(2) Temperatura aria / Air temperature / Température air	°C	-1,7	-2,7	0,5	-1,2	Lufttemperatur / Temperatura del aire / Temperatura ar (2)
(2) Pot. assorbita / Power input / Puiss. absorbée	kW	1,0	1,0	2,0	2,0	Leistungsaufnahme / Pot. absorbida / Put. absorbida (2)
Compressori / Compressors / Compresseurs	n.	1	1	1	1	Kompressoren / Compresores / Compresoare
Tipo compressore / Compressor type / Compresseur type		Scroll				Verdichter Typ / Compresor tipo / Compressor tipo
Pot. assorbita / Power input / Puiss. absorbée	kW	8,52	10,02	11,94	13,64	Leistungsaufnahme / Pot. absorbida / Put. absorbida
Portata acqua / Water flow / Débit d'eau	l/s	1,55	1,74	2,07	2,37	Wasserdurchflussmenge / Caud. de agua / Debit apa
Portata aria / Air flow / Débit d'air	m <sup>3</sup> /s	3,33	3,33	4,44	4,03	Luftdurchflussmenge / Caudal de aire / Cap. a
R410A	kg	6,1	8,9	9,1	9,2	R410A
Alimentazione / Power supply / Alimentation	V~, Ph, Hz	400, 3, 50				Versorgung / Alimentación / Alimentare
Corr. max funz. / Max Running current / Cour. refr.	A	25	29	36	42	Strom Kühlfunktion / Corr. max función / Intens. max. in lucro
Corr. max spunto / Max inrush current / Cour. cha.	A	144	144	162	171	Strom Heizfunktion / Corr.máx. arranque / Intens. max. la pornire
Pressione sonora / Sound pressure / Pres. sonore						Schalldruckpegel / Presión acústica / Nivel de zgomot
DIN (3)	dB(A)	60	61	61	61	DIN (3)
ISO (4)	dB(A)	51	52	52	52	ISO (4)
Potenza pompa / Pump power / Puissance pompe	kW	0,75	0,75	1,1	1,1	Nominalleistung der Pumpe / Pot. bomba / Put. pompa
Prev. utile / Pump head / Hauteur d'élév. utile	kPa	109	152	150	129	Nutzbare Förderhöhe / Altura útil / Presiune disponibila
Vaso d'espansione / Expansion vessel / Vase d'expansion	l	8	8	8	8	Expansionsgefäß / Vaso de expansión / Vas de expansiune
Peso di trasporto / Transport weight / Poids de transport	kg	495	510	550	565	Transportgewicht / Peso de transporte / Greutate transport (5)

(1) Acqua refrigerata (con glicole etilenico al 30%) da 15 a 10°C, temperatura aria esterna 35°C.  
 (2) Temperatura aria esterna alla quale si raggiunge una resa frigorifera corrispondente a quella indicata al punto (1).  
 (3) Livello di pressione sonora rilevato in campo libero ad 1m dall'unità e 1.5 m dal suolo. Secondo DIN 45635.  
 (4) Livello medio di pressione sonora in campo libero a 1m dall'unità, come definito dalla ISO 3744.

(1) Cooled water (with glycol 30%) from 15 to 10°C, ambient air temperature 35°C.  
 (2) Ambient air temperature to reach the cooling capacity indicated in the first point (1).  
 (3) Sound pressure level measured in free field conditions at 1m from the unit and at 1.5m from the ground. According to DIN 45635.  
 (4) Average sound pressure level measured in free field conditions at 1m, as defined by ISO 3744.

FITTED ACCESSORIES

- PS Circulating pump
- CC Condensing control to -20°C
- BT Low temperature kit

LOOSE ACCESSORIES:

- CR Remote control panel
- IS RS 485 serial interface
- RP Coil protection guards
- AG Rubber vibration dampers

CUSTOMIZATIONS

- GL Packing in wooden crate for special transport

