



MINI KRONO² INVERTER

EKWXB*i*

Heat pump



inverter



AIR-WATER CHILLERS | AXIAL
SCROLL INVERTER

Maximum versatility in ultra-compact equipment

Reversible monobloc heat pumps with air condensation and axial fans.
DC rotary hermetic compressor series Inverter and refrigerant gas R410A.

MAIN CHARACTERISTICS

- Cooling capacities: 18.1 to 26.4 kW
- Heating capacities: 21.2 to 31.2 kW
- High efficiency DC INVERTER rotary compressor
- Electronic expansion valve
- Water Side Exchanger: Stainless Steel Plates with thermal insulation
- Air-side heat exchanger: aluminium finned coil with copper tubes
- Fan: axial impeller with brushless EC motor and internal thermal protection; protection grilles; proportional electronic device for continuous regulation of the fan rotation speed (condensation control + evaporation control)
- Water circulation pump integrated into the unit
- Control: electronic microprocessor
- Outside temperature probe for criterion value compensation
- Magneto-thermic switches in compressors and fans
- Structure: made of galvanised and painted sheet steel with tray for condensation collection (optional)
- Differential pressure switch fitted as standard
- Lining on standard compressor

ADVANTAGES

- Water as a heat-carrying fluid
- High energy efficiency thanks to the inverter compressor and the variable-speed fan
- Maximum comfort, thanks to the possibility of working with more moderate temperatures, automatically adjustable according to the outside temperature
- Operation at outside temperatures down to -10°C
- Temperature of produced water may be up to 54°C

VERSIONS

- Heat pump
- Cooling only (optional)
- No circulation pump (optional)

REGULATION

Integrated control:
MINI PGD



Remote control accessory:
PGD



See regulation and control on page 106

SERIES MINI KRONO² INVERTER - EKWXBAi

MODEL		18 i	22 i	27 i
COLD MODE (1)				
Cooling capacity min./nom./max.	kW	4.4 / 11.6 / 18.1	5.4 / 14.0 / 21.8	6.5 / 16.9 / 26.4
Total Absorbed Power	kW	8.6	10.2	13.1
EER		2.10	2.13	2.01
SEER		4.25	4.30	4.08
η_s cooling	%	167.0	169.0	160.2
Water flow	m ³ /h	3.2	3.9	4.6
Available Static Pressure	KPa	186	176	168
HEAT MODE (2)				
Heat output	kW	21.2	26.4	31.2
Total Absorbed Power	kW	10.5	11.9	13.9
COP		2.03	2.22	2.24
Water flow	m ³ /h	3.7	4.7	5.4
Available Static Pressure	KPa	180	168	149
HEAT MODE (3)				
Heat output	kW	22.0	26.9	32.0
Total Absorbed Power	kW	8.6	9.8	11.4
COP		2.55	2.74	2.79
SCOP		3.30	3.25	3.20
η_s heating	%	129	127	125
Water flow	m ³ /h	3.9	4.8	5.6
Available Static Pressure	KPa	174	163	150
REFRIGERANT				
Number of circuits			1	
Gas Type			R-410A	
PCA			2088	
Total Refrigerant Charge (without options)	kg	7.0	8.0	9.0
COMPRESSORS				
Type			DC Scroll Inverter	
Number of compressors			1	
Number of power stages			20-120 RPS	
FANS				
Type			Axial	
Number			1	
Maximum air flow rate	m ³ /h	19,500	18,500	18,500
Available Static Pressure	Pa		0	
Diameter			800	
Nominal Power	kW		2.1	
Nominal Amps	A	19	25	27
EXTERNAL EXCHANGER				
Quantity			1	
Front surface heat exchanger	m ²		1.5	
INTERNAL EXCHANGER				
Type			PLATE EXCHANGER	
Quantity			1	
Antifreeze resistance	W		100	

- (1) Application AC = Water Temperature 12/7°C - Air Temperature 35°C
 (2) Application IT = Water T° 40/45°C - Air T° 7°C BS/6°C BH
 (3) Application LT = Water Temperature 30/35°C - Air Temperature 7°C BS/6°C BH

According to EU regulation 2281/2016
 According to EU regulation 813/2013
 According to EU regulation 813/2013

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MODEL		18 i	22 i	27 i
WATER PUMP				
Nominal Power	kW		1.35	
Nominal Amps	A		2.45	
ELECTRICAL CONNECTIONS				
Supply Voltage	v / Phases / Hz	400/3/50 with neutral		
Nominal Amps	A	19	25	27
Main Switch	A	63	63	63
WATER CONNECTIONS				
Type		Grooving		
Outer diameter	"	1 1/2"	1 1/2"	1 1/2"
DIMENSIONS AND WEIGHTS				
Length	mm	1,150		
Width	mm	1,050		
Height	mm	1,450		
Weight (with no options or refrigerant load)	kg	365	381	386
SOUND LEVEL				
Sound Power	dB(A)	77	78	78
Sound Pressure (5m)	dB(A)	56	57	57

AVAILABLE OPTIONS

ACCESSORIES SUPPLIED SEPARATELY

- Flow switch
- Flowmeter
- Water filter
- Modbus Card
- Pretreated battery (LCE Coating)
- Pretreated battery (GALVAL)
- Pretreated battery (BLYGOLD)
- Connections water thread gas
- Powered fan
- Expansion vessel
- Battery protection grid

DIMENSIONS

