



Refrigerant
R290 | GWP=3



Screw
compressor



Axial fan



Brazen plate
heat exchanger



Solution

B - Base

Version

ST - Standard

LN - Low noise

Equipment

AS - Standard equipment

Cooling Capacity 251,9 - 969,2 kW

Housing	Base and panels made of painted galvanised steel; panels mounted on aluminium profiles to ensure total weathering resistance. Panels are internally lined to reduce the noise level (LN Accessories only).
Compressor	SCREW SEMI-HERMETIC type, complete with motor thermal protection, Part-Winding or Star Delta start, crankcase electrical heater and discharge intercepting valve. The compressor is mechanically optimized for use with Hydrocarbons. Some components are ATEX certified.
Fan	Low speed, axial-flow fans fitted with accident-prevention protective grille; directly coupled motor with built-in thermal cutout and IP 54 protection degree; aerodynamic housing and wing profile blades increase efficiency and decrease noise level.
Air heat exchanger	Finned coil made with copper pipes and aluminium fins offering a high exchange surface area.
Water heat exchanger	Plate-type made of AISI 316 steel complete with water differential pressure switch. Shell covered with closed-cell neoprene anti-condensate material.
Electrical board	Switchboard to standards IEC 204-1/EN60204-1, complete with contactor and protection for compressor and fans. Main isolator and door interlock safety device. The cabinet is externally hung on one side of the unit.
Control	The microprocessor controls the unit capacity by timing the compressors and checks the operating alarms with the possibility to connect to BMS.
Refrigerant circuit	Filter drier, sight glass and liquid moisture, solenoid valve, shut-off valve on the liquid line, electronic expansion valve, safety pressure high / low switch. Some components are ATEX certified.
Additional safety device	To ensure high-safety-level the unit is equipped with a special gas detector for flammable gases, including two alarm levels and microprocessor control with LED status indicator.

ACCESSORIES

- Spring vibration isolation
- Rubber vibration isolation
- Modulating fan speed condensing control
- Wall mounted remote control panel
- Max and min voltage relay
- Refrigerant gauges (standard)
- Electromechanical flow switch

RKO.E	1402 V	1602 V	1802 V	2002 V	2202 V	2402 V	2502 V	2802 V	3903 V	4203 V
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ST VERSION											
Cooling capacity (1)	kW	251,9	323,6	351,8	418,2	455,3	504,3	542,1	646,3	778,3	969,2
Saved CO2 equivalent Ton (*)	Ton	85800	100100	114400	143000	157300	171600	185900	200200	271700	300300
Total compressors power input (1)	kW	98,4	107,0	126,1	138,1	149,2	153,8	171,4	202,1	250,3	303,2
Water flow (1)	m3/h	43,3	55,7	60,5	71,9	78,3	86,7	93,2	111,2	133,9	166,7
Evaporator pressure drop (1)	kPa	31,0	37,0	35,6	27,1	26,5	27,7	27,2	35,3	30,0	35,3
Total air flow	m3/h	80000	120000	120000	160000	160000	200000	200000	240000	280000	360000
Sound pressure (2)	dB(A)	83	83	85	85	85	87	88	90	90	92

LN VERSION											
Cooling capacity (1)	kW	243,1	312,2	339,5	403,5	439,4	486,6	523,1	623,7	751,1	935,3
Saved CO2 equivalent Ton (*)	Ton	85800	100100	114400	143000	157300	171600	185900	200200	271700	300300
Total compressors power input (1)	kW	100,3	109,1	128,6	140,9	152,2	156,9	174,8	206,2	255,3	309,3
Water flow (1)	m3/h	41,8	53,7	58,4	69,4	75,6	83,7	90,0	107,3	129,2	160,9
Evaporator pressure drop (1)	kPa	29,7	35,7	34,3	25,8	25,2	26,4	25,9	34	28,7	34
Total air flow	m3/h	68800	103200	103200	137600	137600	172000	172000	206400	240800	309600
Sound pressure (2)	dB(A)	80	80	82	82	82	84	85	87	87	89

Compressors type	-	Semihhermetic screw									
Compressors quantity	n°	2	2	2	2	2	2	2	2	3	3
Independent gas circuit	n°	2	2	2	2	2	2	2	2	3	3

Fans type	-	Axial									
Fans quantity	n°	4	6	6	8	8	10	10	12	14	18
Fans power input	kW	8	12	12	16	16	20,0	20,0	24,0	28,0	36,0

Power supply	V/ph/Hz + T	400/3/50 + 230/1/50 (for gas detector)									
Maximum absorbed current (with pump)	A	278,4	322,3	352,3	392,5	542,5	590,5	640,5	722,6	907,7	1083,7
Starting current (with pump)	A	448,4	550,3	615,3	618,5	749,5	812,5	907,5	971,6	1156,7	1332,7

DIMENSIONS AND WEIGHT - Base Solution											
Lenght (L)	mm	2615	3490	3490	4810	4810	6060	6060	7200	8500	11000
Depth (P)	mm	2400	2438	2438	2400	2400	2438	2438	2400	2400	2400
Height (H)	mm	2600	2590	2590	2600	2600	2590	2590	2600	2600	2600
Shipping weight	Kg	2900	3350	4200	4620	4950	5700	6100	6450	7200	7960

Note:

(1) Condenser air 35°C - Evaporator water IN/OUT 12/7°C

(2) Sound pressure measured at 1 m in open field conditions

(3) Water IN/OUT 40/45°C - Evaporator water IN/OUT 12/7°C

(*) CO2 equivalent tonnes saved to the Environment compared to the choice of an EUROKLIMAT unit with similar cooling capacity and HFC refrigerant