

**EPAS MS (VS)
Kp**

- Chillers and Heatpumps
- Air/Water Heatpump
- EMICON
- EUROVENT



Reversible heatpumps air/water on propane type EPAS MS (VS) Kp

Reversible heatpump Air/Water on propane for the production of chilled/hot water. The units are equipped with semi-hermetic reciprocating compressors. Inverter compressors on models 10010-21020. Axial 6-pole fans. Suitable for outdoor installation. Refrigerant R290 (GWP 3) (propane) These units are specially designed for cooling medium to large projects. Tandem technology offers multiple capacity stages and increases efficiency at part load. This also improves performance. Leak detector and ATEX certified fan in compartment with cooling circuit included as standard. **Mandatory commissioning by CAIROX.**

Brand

- Emicon

Application

- Outdoor air/water reversible heatpumps suitable for comfort and process cooling and heating applications

Characteristics

- Cooling capacity: 91 to 295 kW
- Heating capacity: 106 to 344 kW

Composition

- Refrigerant gas R290 with a GWP of 3,3
- Semi-hermetic reciprocating compressors
- Power supply 400/3/50
- Microprocessor controller
- Leak detector included as standard
- ATEX certified fan in compartment with cooling circuit
- Copper/Aluminium battery with Bluefin coating

Options

- RM Prepainted coating on the fins
- RR copper/copper battery
- PA Rubber Vibration Dampers
- PM Vibration dampers with springs
- BF Winter control down to -20°C

- MF Phase monitor
- PQ Remote Control
- RF Improvement of cos phi >0.9
- RA Frost protection on evaporator (Electric heating with thermostat)
- VSC Inverter control compressors Soundproofing cladding around the compressors
- PW Part-Winding (Lower Startup Current / Soft Start)
- IWG Interface => SNMP or TCP/IP or BACNET IP or MODBUS IP
- P1 Pump group with 1 pump
- P2 Pump group with 2 pumps in parallel (1 running/1 standby) partial heat recovery
- A+V Ampere and Voltmeter BT Winter control down to -10°C
- CS Compressor inrush counter
- RL Compressor overload relay
- EC EC fans ECP Anti-corrosion coating on the air batteries (Electro coating)
- HRV2 High Pressure Double Safety Valve
- VSP Inverter control pump(s)
- AXT Diffuser on the axial fans
- GP Protective grille condenser
- IH RS485 Serial Card
- IH BAC BACNET RS485 Serial Card
- I1 Insulation for around Victaulic flanges from pump to hydraulic lines
- I2 Insulation for around Victaulic Flanges from Buffer Tank to Hydraulic Lines

Versions

- EPAS. Kp
- Standard version with Blue Fin coating on coil
- EPAS. VB Kp
- Low water temperature version with Blue Fin coating on coil

Order example

EPAS 10010 (VS) Kp

Explanation

100 = Nominal cooling capacity (KW)

1 = Number of cooling circuits

VS = Inverter on compressor

Kp = Propane Refrigerant

		Specifications							
EPAS (VS) Kp		10010	12010	15020	17020	21020	25020	29020	34020
Cooling capacity	kW	90.7	104	129	148	180	208	247	295
Total power input Cooling	kW	29.4	35.4	39.9	47.3	58.6	70.7	78.1	95.9
Water flow	m³/h	15.61	17.97	22.17	25.46	30.91	35.76	42.49	50.75
Water pressure drop	kPa	20.5	26.4	13.5	17.2	24.4	21.8	29.5	23.6
Heating capacity	kW	106	123	148	173	214	247	289	344
Total power input Heating	kW	25.5	30.1	34	41.2	51.7	58.3	67.2	84.3
SCOP		3.45	3.35	3.3	3.26	3.28	3.29	3.38	3.27
Refrigerant type (GWP)		R290 (3.3)							
Precharged refrigerant charge	kg(CO2eq-kg)	17(0.0561)	17(0.0561)	19(0.0627)	26(0.0858)	33(0.1089)	33(0.1089)	41(0.1353)	51(0.1683)
Water flow	m³/h	18.33	21.23	25.5	29.91	37.04	42.69	50.18	59.42
Water pressure drop	kPa	26	33.9	16.9	22.6	33.4	28.7	38.4	30.7
Sound pressure level	dB(A)	61	61	61	60	63	63	63	63
Cooling capacity: Outdoor temperature 35°C - chilled water temperature in/out 7/12°C									
Heating capacity: Outdoor temperature 7°C - water temperature in/out 30/35°C									
Sound pressure level calculated according to ISO 3744 at 10 m distance from the unit									

		Dimensions							
EPAS (VS) Kp		10010	12010	15020	17020	21020	25020	29020	34020
L	[mm]	2660	2660	3700	2590	4740	4840	4840	5890
W	[mm]	1370	1370	1370	1370	1370	1370	1370	1370
H	[mm]	2420	2420	2420	2570	2420	2420	2570	2420
Gewicht/Poids	[kg]	1416	1466	1798	1304	1310	2366	2098	3106

Prices

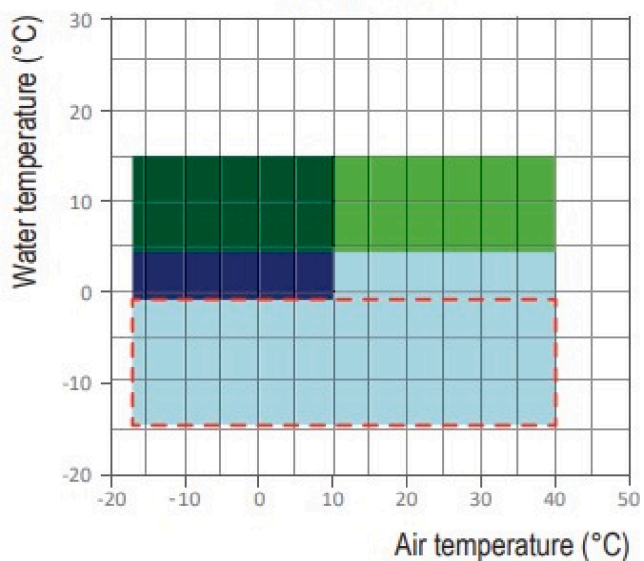
Detailed selection / quotation available on request

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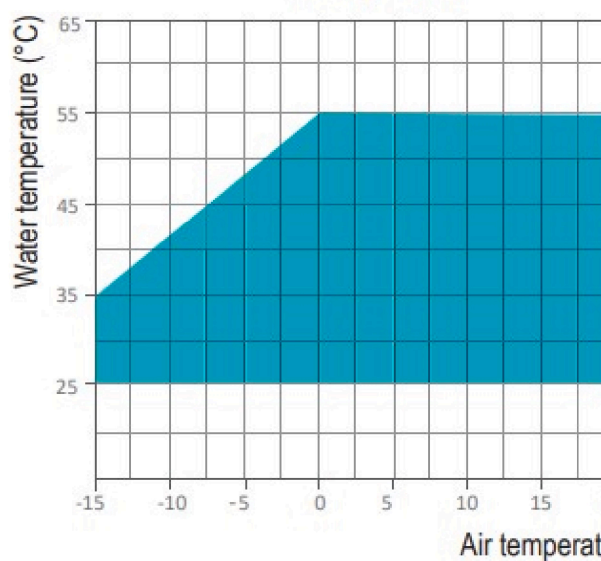
Air Handling
Units, chillers &
fancoils



Cooling mode



Heating mode



- Standard unit, cooling mode with fan speed control
- Standard unit, cooling mode
- Standard unit, cooling mode with glycol and fan speed control
- Standard unit, cooling mode with glycol
- VB version, cooling mode