VENICE-H

Reversible water-cooled heat pump, gas side

Cooling capacity 6,9 ÷ 9,7 kW
Heating capacity 8,3 ÷ 11,7 kW

- **Compact dimensions**
- **Quick & easy installation**

DESCRIPTION

The water-cooled heat pumps are reversible units for the production of chilled and hot water. They are indoor units with scroll compressors, system side heat exchangers and a plate source, which fully meet the needs of the residential market: reduced size, easy installation, low noise levels.

FEATURES

— Cycle reversal on refrigerant circuit
— All versions are equipped with circulation pump, water tank, water filter and safety valve
— Complies with safety (EC) directive
— Differential pressure switch on the external circuit standard on heat pumps
— Flow-switch supplied in series only on the DHW side exchanger.
— Microprocessor control
— Control panel
— Plate heat exchanger
— Compact dimensions
— Metallic protective cabinet with rustproofing polyester paint RAL 9003
— Protection rating IP 24

ACCESSORIES

PR3: Simplified remote panel. This makes it possible to carry out the unit's basic controls with the signalling of alarms. Can be made remote with shielded cable up to 150 m.
VPH: Pressure switch valve with bypass solenoid valve, during cooling mode operation the bypass valve is closed so the water flows exclusively through the circuit with the pressure switch. During heating mode operation the water flows through both branches of the circuit.
VT: Anti-vibration supports.

ACCESSORIES COMPATIBILITY

Accessory	VENICE 20H	VENICE 30H
PR3	•	•

Pressure switch valve

Accessory	VENICE 20H	VENICE 30H
VPH10	•	
VPH11		•

Antivibration

Accessory	VENICE 20H	VENICE 30H
VT7	•	•

PERFORMANCE SPECIFICATIONS

		VENICE 20H	VENICE 30H
Cooling performance 12 °C / 7 °C (1)			
Cooling capacity	kW	6,9	9,7
Input power	kW	1,9	2,6
Cooling total input current	A	9,0	13,0
EER	W/W	3,62	3,72
Water flow rate system side	l/h	1185	1667
Useful head system side	kPa	63	59
Water flow rate source side	l/h	1495	2095
Pressure drop source side	kPa	18	12
Heating performance 40 °C / 45 °C (2)			
Heating capacity	kW	8,3	11,7
Input power	kW	2,3	3,2
Heating total input current	A	12,0	16,0
COP	W/W	3,66	3,70
Water flow rate system side	l/h	1450	2027
Useful head system side	kPa	48	41
Water flow rate source side	l/h	1791	2505
Pressure drop source side	kPa	25	17

(1) Date 14511:2022; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C
(2) Date 14511:2022; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

ENERGY INDICES (REG. 2016/2281 EU)

		VENICE 20H	VENICE 30H
SEER - 12/7 (EN14825: 2018) (1)			
SEER	W/W	3,66	4,02
Seasonal efficiency	%	143,4	157,8
UE 811/2013 performance in average ambient conditions (average) - 35 °C - Pdesignh ≤ 70 kW (2)			
Pdesignh	kW	11	16
SCOP	W/W	4,20	4,33
ηsh	%	160,00	165,00
Efficiency energy class		A++	A++

(1) Calculation performed with VARIABLE water flow rate and VARIABLE outlet temperature.
(2) Efficiencies for low temperature applications (35 °C)

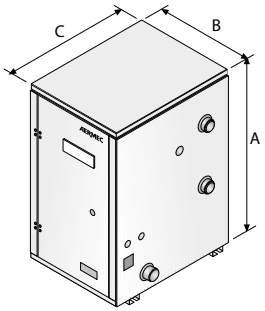
ELECTRIC DATA

		VENICE 20H	VENICE 30H
Power supply			
Power supply		230V~50Hz	230V~50Hz
Electric data			
Maximum current (FLA)	A	15,0	24,0
Peak current (LRA)	A	61,0	100,0

GENERAL TECHNICAL DATA

		VENICE 20H	VENICE 30H
Compressor			
Type	type	Scroll	Scroll
Number	no.	1	1
Circuits	no.	1	1
Refrigerant	type	R407C	R407C
System side heat exchanger			
Type	type	Brazed plate	Brazed plate
Number	no.	1	1
Connections (in/out)	Type	Gas M	Gas M
Sizes (in/out)	Ø	1"	1"
Source side heat exchanger			
Type	type	Brazed plate	Brazed plate
Number	no.	1	1
Connections (in/out)	Type	Gas M	Gas M
Sizes (in/out)	Ø	1"	1"
Sound data			
Sound power level	dB(A)	56,0	57,0
Sound pressure level	dB(A)	48,0	49,0

DIMENSIONS



		VENICE 20H	VENICE 30H
Dimensions and weights			
A	mm	625	625
B	mm	404	404
C	mm	504	504
Empty weight	kg	103	109

Aermec S.p.A.
Via Roma, 996 - 37040 Bevilacqua (VR) - Italia
Tel. 0442633111 - Telefax 044293577
www.aermec.com