

VENICE-H

Reversible water-cooled heat pump, gas side

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



- Compact dimensions
- Quick and easy installation



VERSIONS

Venice H Heat pump

FEATURES

- Cycle reversal on refrigerant circuit
- All versions are equipped with circulation pump, water tank, water filter and safety valve
- Complies with EEC Safety Directive (CE)
- High efficiency scroll compressors
- Differential pressure switch on the external circuit standard on heat pumps
- Fluxostat standard on installation circuit
- Modular microprocessor control system
- Straightforward intuitive control panel
- High efficiency plate type heat exchangers
- Compact size
- Metallic protective cabinet with rustproof polyester paint
- Degree of protection IP 24

ACCESSORIES

PR3: Remote control panel with ON/OFF, operating mode selection (cooling / heating) and general alarm indication.

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: Rubber anti-vibration mounts.

VT M: Spring anti-vibration mounts.

ACCESSORIES COMPATIBILITY

Size	20H	25H	30H
PR 3	•	•	•
VPH 10	•		
VPH 11		•	•
VT 7	•	•	•
VT M	•	•	•

PERFORMANCE SPECIFICATIONS

Size		20H	25H	30H
Power supply	V/ph/Hz	230V~50Hz		
Cooling performance 12 °C / 7 °C (1)				
Cooling capacity	kW	6,9	8,3	9,8
Input power	kW	1,9	2,2	2,6
EER		3,71	3,80	3,81
Water flow rate system side	l/h	1185	1409	1666
Useful head system side	kPa	63	61	59
Water flow rate source side	l/h	1495	1769	2095
Pressure drop source side	kPa	18	17	12
Heating performance 40 °C / 45 °C (2)				
Heating capacity	kW	8,3	9,9	11,6
Input power	kW	2,3	2,7	3,1
COP		3,66	3,66	3,71
Water flow rate system side	l/h	1450	1729	2027
Useful head system side	kPa	48	44	41
Water flow rate source side	l/h	1791	2133	2505
Pressure drop source side	kPa	25	25	17

(1) Date 14511:2018; Water user side 12 °C / 7 °C; Water source side 30 °C / 35 °C

(2) Date 14511:2018; Water user side 40 °C / 45 °C; Water source side 10 °C / 7 °C

ENERGY INDICES (REG. 2016/2281 EU)

Size		20H	25H	30H
SEER - 12/7 (EN14825: 2018) (1)				
SEER	W/W	3,66	3,94	4,02
η_{sc}	%	143,4%	154,6%	157,8%
Performance under average climatic conditions (Average) UE n°811/2013 Pdesignh ≤ 70kW (2)				
Pdesignh	kW	11	13	16
SCOP		4,20	4,25	4,33
η_{sh}	%	160	162	165
Efficiency Energy Class		A++	A++	A++

(1) Calculation performed with FIXED water flow rate and VARIABLE outlet temperature.

(2) Efficiencies for low temperature Applications (35°C)

GENERAL TECHNICAL DATA

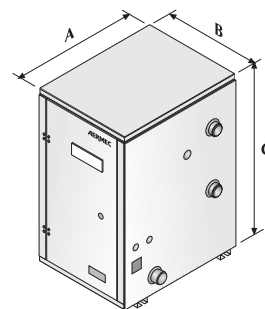
Size		20H	25H	30H
Electric data				
Cooling total input current	(1)	A	9	11
Heating total input current	(1)	A	12	14
Maximum current (FLA)	(1)	A	15	18
Peak current (LRA)	(1)	A	61	76
Compressor				
Compressor	Type/n°		Scroll/1	
Circuit	n°	1	1	1
Refrigerant	Type		R407C	
System side heat exchanger				
Exchanger	Type/n°		Plate/1	
Hydraulic connections (in/out)	Type/Ø		male Gas/1"	
Source side heat exchanger				
Exchanger	Type/n°		Plate/1	
Hydraulic connections (in/out)	Type/Ø		male Gas/1"	
Sound data				
Sound power level	(2)	dB(A)	56	57
Sound pressure level	(2)	dB(A)	48	49

(1) Including circulator pump power consumption

(2) Sound power calculated on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification. Sound pressure (cold functioning) measured in free field, 10m away from the unit external surface (in compliance with UNI EN ISO 3744).

DIMENSIONS

Size		20H	25H	30H
A	mm	504	504	504
B	mm	404	404	404
C	mm	625	625	625
Weight	kg	103	106	109



Aermec reserves the right to make any modifications deemed necessary.
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