

Venice H Water-cooled reversible heat pumps units Cooling capacity 6 - 9kW Heating capacity 7 - 10kW

R407C



Aermec participates in the EUROVENT Program LCP
The products of interest can be found on the website
www.eurovent-certification.com



Features

- Versions:
Venice H: heat pump
- 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.

Compatibility of accessories

Mod. Venice	PR 3	VPH 10	VPH 11	VT 7	VT M
20 H	•	•		•	•
25 H	•		•	•	•
30 H	•		•	•	•

Technical data

VENICE			20H	25H	30H	
			230V~50Hz			
12°C / 7°C	Cooling capacity	(1) kW	6,94	8,24	9,75	
	Total input power	(1) kW	1,74	1,98	2,38	
	EER	(1)	3,99	4,16	4,10	
	ESEER	(1)	4,59	4,58	4,58	
	Cooling Energy Class Eurovent	(1)	D	D	D	
	Evaporator water flow rate	(1) l/h	1194	1417	1677	
	Useful head system side circuit	(1) kPa	63	61	69	
	Condenser water consumption	(1) l/h	1500	1770	2095	
	Pressure drops	(1) kPa	18	13	12	
	45°C / 50°C	Heating capacity	(2) kW	7,77	9,26	10,85
Total input power		(2) kW	2,59	3,08	3,57	
COP		(2)	3,00	3,01	3,04	
Cooling Energy Class Eurovent		(2)	G	G	G	
Condenser water flow rate		(2) l/h	1342	1600	1875	
Useful head system side circuit		(2) kPa	61	59	57	
Evaporator water consumption		(2) l/h	929	1106	1300	
Pressure drops		(2) kPa	2	2	2	
Performance under average climatic conditions (Average)						
Pdesignh		(3)	11	13	16	
SCOP	(3)	4,08	4,13	4,20		
ηs	(3)	160	162	165		
Efficiency Energy Class	(4)	A++	A++	A++		

Date (14511:2013)

- (1) Water system side (in/out) 12°C/7°C; Water condenser (in/out) 30°C/35°C
- (2) Water system side (in/out) 45°C/50°C; Water evaporator (in/out) 10°C/5°C
- (3) Efficiencies for low temperature Applications (35°C)
- (4) Efficiency Energy Class in according to regulation n°811/2013 Pdesignh ≤ 70kW

			20H	25H	30H
Electrical data					
230V	Total input currente (cooling)	(2) A	10,1	11,8	13,1
	Total input currente (heating)	(2) A	13,4	15,7	13,3
	Maximum current (FLA)	(2) A	15	18	24
	Starting current (LRA)	(2) A	61	76	100
Compressor					
Compressor	Type/n°	Scroll/1	Scroll/1	Scroll/1	
Circuit	n°	1	1	1	
Refrigerant	Type		R407C		
Heat exchanger system side					
Exchanger	Type/n°		Plate/1		
hydraulic connections (In/Out)	Type/Ø		male Gas/1"		
Heat exchanger source side					
Exchanger	Type/n°		Plate/1		
hydraulic connections (In/Out)	Type/Ø		male Gas/1"		
Sound data (cooling mode)					
Sound power level		dB(A)	56	56	57
Sound pressure level		dB(A)	48	48	49

(2) including circulator pump power consumption

Sound power Aermec determines sound power values on the basis of measurements made in accordance with UNI EN ISO 9614-2, as required for Eurovent certification.

Sound pressure Sound pressure in free field, at 10 m distance from the external surface of the unit (in accordance with UNI EN ISO 3744).

Note: For more information, refer to the selection program or the technical documentation available on the website www.aermec.com

Dimensions (mm)

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

