AERMEC

Venice

Water-cooled water chillers and heat pumps
With capacities from 5.3 to 9.7 kW

R407C

Aermec adheres to the EUROVENT Certification Programme.
The products concerned appear in the EUROVENT Certified Products Guide.

Features

- Available in 4 sizes
- Versions:
  Venice: cooling only
  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.
- **VP**: Pressure switch valve complete with connections, piloted directly in relation to condensation pressure; the valve modulates the volume of water needed to cool the condenser, thereby maintaining the condensation temperature unchanged.
- **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	VP 14	VP 15	VPH 10	VPH 11	VT 7	VT M
15	✔	✔				✔	✔
15 H	✔			✔		✔	✔
20	✔	✔				✔	✔
20 H	✔			✔		✔	✔
25	✔		✔			✔	✔
25 H	✔				✔	✔	✔
30	✔		✔			✔	✔
30 H	✔				✔	✔	✔

Technical data

Mod. Venice		15	15 H	20	20 H	25	25 H	30	30 H
Cooling capacity	kW	5.3	5.3	6.9	6.9	8.2	8.2	9.7	9.7
Total input power*	kW	1.7	1.7	2.0	2.0	2.3	2.3	2.7	2.7
Input current	A	8.6	8.6	9.4	9.4	11.1	11.1	13.0	13.0
Evaporator water flow rate	l/h	910	910	1190	1190	1410	1410	1670	1670
Effective pressure to the installation circuit	kPa	54	54	63	63	61	61	59	59
Condenser water consumption	l/h	1190	1190	1500	1500	1780	1780	2100	2100
Condenser pressure drop	kPa	11.4	6.3	17.5	6.2	13.4	6.1	11.7	6.3
Condenser water consumption (16 °C)	l/h	320	320	400	400	470	470	560	560
Condenser water pressure drops (16 °C)	kPa	1.0	1.0	1.5	1.5	1.2	1.2	1.6	1.6
Heating capacity	kW	-	6.1	-	7.8	-	9.3	-	10.9
Total input power*	kW	-	2.2	-	2.7	-	3.2	-	3.7
Input current	A	-	10.5	-	12.6	-	14.9	-	17.5
Condenser water flow rate	l/h	-	1050	-	1340	-	1600	-	1880
Effective pressure to the installation circuit	kPa	-	53	-	61	-	59	-	57
Evaporator water consumption (10 °C)	l/h	-	690	-	900	-	1080	-	1270
Evaporator pressure drop	kPa	-	2.0	-	2.2	-	2.2	-	2.3
♪ Sound pressure	dB(A)	47.5	47.5	48	48	48.5	48.5	49	49
Water connections**	Ø	1″	1″	1″	1″	1″	1″	1″	1″
Capacity of storage tank	l	23	23	23	23	23	23	23	23
Compressor	type	Rotary	Rotary	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Max. current	A	13	13	15	15	18	18	24	24
Peak current	A	48	48	61	61	76	76	100	100

Power supply = 1~ 230V 50Hz.

Performance values refer to the following conditions:

♪ Sound pressure measured in an 85 m³ semi-reverberant test chamber with reverberation time Tr = 0.5s.

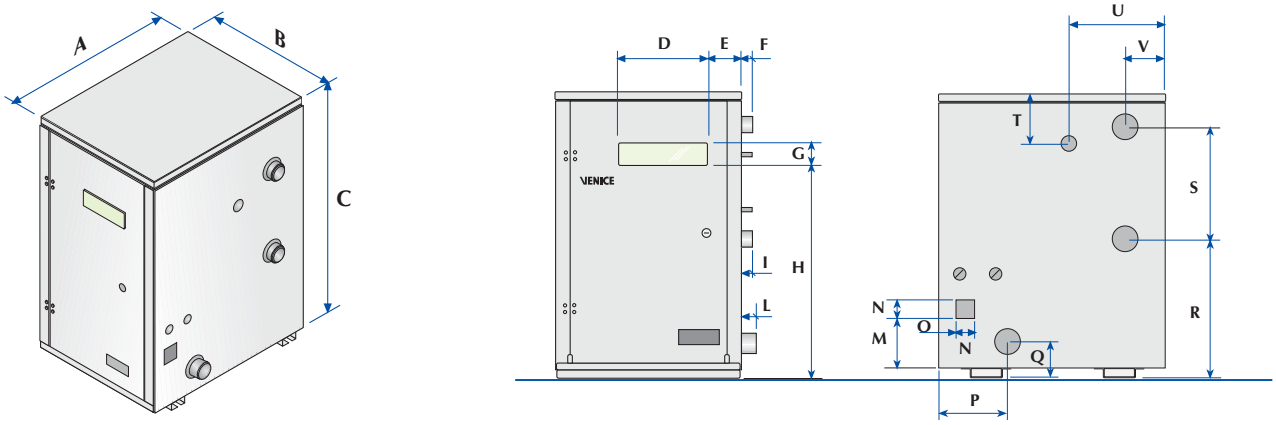
Cooling:
- processed water temperature 7 °C;
- water inlet temperature to condenser 30 °C;
- Δt = 5 °C.

Heating:
- processed water temperature 50 °C;
- water inlet temperature to evaporator 10 °C;
- Δt = 5 °C.

* including circulator pump power consumption.

** male Gas connection.

Dimensions (mm)



Mod. Venice		A	B	C	D	E	F	G	H	I	L
15 - 20	mm	504	404	625	190	83	20	48	465,5	20	25
25 - 30	mm	504	404	625	190	83	20	48	465,5	20	25

Mod. Venice		M	N	O	P	Q	R	S	T	U	V
15 - 20	mm	130	40	20	118	77	304	249	120	220	111
25 - 30	mm	130	40	20	118	77	304	249	120	220	111

Mod. Venice		15	20	25	30
Weight [Kg]	Venice	90	100	103	105
	Venice H	92	103	106	109

Cod.: SVNCUY.01 / 0402

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