

ELFOEnergy Extended

Water chile heat pump air cooled for outdoor installation

- Maximum heating efficiency for systems with radiant panels
- Reduced Energy consumption—Eurovent A Class (COP>4,05)
- Low noise level



WSAN-XPR 21-51

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ELFOEnergy EXTENDED WSAN-XPR water cooling units use R-410a refrigerant. Because they are so compact, they are **ideal for residential applications**. And they **keep on working** under all conditions thanks to a variable speed fan and water pump.

- Reduced energy consumption Eurovent Class A (COP>4.05)
- Operation always guaranteed even in the most critical conditions thanks to: Fan overspeed - Variable flow rate circulator - Ice Protection System
- Management of double setpoint with external mixer for two-temperature systems
- Capacity from 6 to 13kW (average EER 3.5 A35/W18 - average COP 4.1 A7/W35)
- Maximum water temperature 57°C
- Minimum outside air temperature -15°C



Refrig. R-410A

Erm. scroll

Ext. Inst.

Ice Protection

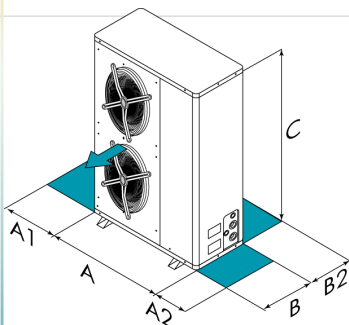
Technical data

Sizes			21	31	41	51
Application with terminal units						
▶ Cooling capacity	(1)	kW	5,36	6,65	8,61	11,7
Total input	(2)	kW	1,93	2,34	3,09	4,24
EER (12/7°C—35°C) EUROVENT		-	2,78	2,84	2,79	2,75
ESEER		-	3,29	3,43	3,34	3,26
▶ Heating capacity	(3)	kW	6,58	7,67	10,1	13,3
Total input	(2)	kW	2,04	2,37	3,09	4,12
COP (40/45°C—7°C D.B./6°C W.B.) EUROVENT		-	3,23	3,24	3,26	3,23
Pump working head	(1)	kPa	64	85	70	85
Number of refrigerant circuits		-	1			
Number and type of compressors		-	1 SCROLL			
Sound pressure level	(4)	dB(A)	55	55	56	59
Power supply		V/Ph/Hz	400/3/50+N			
Application with radiant panels						
▶ Cooling capacity	(5)	kW	7,37	8,6	11,9	15,6
Total input	(2)	kW	1,95	2,36	3,27	4,46
EER (23/18°C—35°C) EUROVENT		-	3,77	3,65	3,64	3,49
EER (EN 14511:2004; 23/18°C—35°C)		-	3,48	3,42	3,46	3,4
ESEER		-	4,48	4,34	4,35	4,05
▶ Heating capacity	(6)	kW	6,72	7,89	10,4	13,6
Total input	(2)	kW	1,6	1,88	2,48	3,22
COP (30/35°C—7°C D.B./6°C W.B.) EUROVENT		-	4,2	4,2	4,2	4,22
COP (EN 14511:2004; 30/35°C—7°C D.B./6°C W.B.)		-	4,04	4,02	4,03	4,13
Pump working head	(5)	kPa	46	70	41	69
Number of refrigerant circuits		-	1			
Number and type of compressors		-	1 SCROLL			
Sound pressure level	(4)	dB(A)	55	55	56	59
Power supply		V/Ph/Hz	400/3/50+N			

Data referred to the following conditions:

- (1) Internal exchanger water = 12/7°C; air entering the external exchanger 35°C.
- (2) Total input is obtained from the compressor input + fan input
- (3) Internal exchanger water = 40/45 °C; fresh air temperature = 7°C D.B. / 6°C W.B.

- (4) Sound levels refer to units with full load under nominal test conditions. The sound pressure is measured at 1 m from the external surface of the unit in open field conditions.
- (5) Internal exchanger water = 23/18°C; air entering the external exchanger 35°C.
- (6) Water at exchanger outlet 35°C; fresh air temperature = 7°C D.B. / 6°C W.B.



CAUTION! For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

Sizes			21	31	41	51
Lenght (A)	mm		800	800	800	800
Width (B)	mm		300	300	300	300
Height (C)	mm		930	1244	1244	1370
▶ (A1)	mm		100	100	100	100
(A2)	mm		500	500	500	500
(B2)	mm		150	150	150	150
Weight in oper.	Kg		89	106	111	135

Data referred to standard unit.

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