

**Reversible heat pump**  
Air cooled  
Outdoor installation  
**Capacity from 19,7 to 55 kW**

## ELFOEnergy Sheen

HYDRONIC

DC Inverter



- ▶ **SEASONAL EFFICIENCY:** Guaranteed by DC Inverter technology applied to the compressor and fans, which can modulate its speed to the energy needs required. This solution allows a further reduction in consumption and a significant improvement of the seasonal efficiency.
- ▶ **ADVANCED TECHNOLOGY:** Clivet's continuous improving has allowed to realize ELFOEnergy Sheen with special design features: Hydrophilic battery for a guarantee of efficiency in all conditions, electronic expansion valve to optimize the operation of the cooling circuit with DC inverter compressor and fans.
- ▶ **EXTENDED OPERATING RANGE:** ELFOEnergy Sheen is able to meet the strictest requirements in terms of operating temperatures, with great efficiency. In cooling, its operation is guaranteed even with very low outside temperatures (from 52°C to -15°C), ideal for the requirements of IT applications. In heating, its operation is guaranteed down to external air temperatures of -15°C producing hot water of up to 55°C.



Unit listed on  
www.eurovent-certification.com



ErP compliant

### functions and features



Heat pump



Air cooled



Outdoor installation



R-410A



Hermetic Scroll

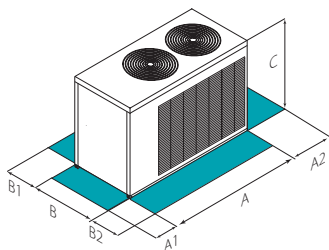


Full Inverter DC



Electronic expansion valve

### dimensions and clearances



Size – WSAN-XSi		10.1	12.1	14.1	16.2	18.2	22.2
A - Length	mm	1876	1876	1876	2218	2218	2218
B - Width	mm	1005	1005	1005	1057	1057	1057
C - Height	mm	1176	1176	1176	1339	1339	1339
A1	mm	800	800	800	800	800	800
A2	mm	800	800	800	800	800	800
B1	mm	800	800	800	800	800	800
B2	mm	800	800	800	800	800	800
Operating weight	kg	300	300	300	480	480	480

The above mentioned data are referred to standard units for the constructive configurations indicated. For all the other configurations, refer to the relative Technical Bulletin.

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

## versions and configurations

### VOLTAGE:

- ▶ **230M** Supply voltage 230/1/50 (Standard)
- ▶ **400TN** Supply voltage 400/3/50+N (sizes 61÷81 only)

## technical data

Size – WSAN-XSi			10.1	12.1	14.1	16.2	18.2	22.2
▶ Cooling capacity (EN14511:2013)	(1)	kW	19,7	23,5	27,0	41,5	47,5	55,0
Total power input (EN14511:2013)	(1)	kW	7,04	8,35	10,8	14,4	17,6	22,0
EER (EN 14511:2013)	(1)	-	2,80	2,81	2,50	2,89	2,70	2,50
SEER	(4)	-	4,08	4,10	4,11	3,90	3,92	3,93
▶ Heating capacity (EN14511:2013)	(2)	kW	23,3	27,1	31,0	45,5	52,3	61,0
Total power input (EN14511:2013)	(2)	kW	7,39	8,81	10,3	14,4	17,0	20,3
COP (EN 14511:2013)	(2)	-	3,15	3,08	3,00	3,17	3,07	3,00
Refrigeration circuits		Nr	1					
No. of compressors		Nr	1			2		
Type of compressors			ROTARY INVERTER					
Standard airflow		l/s	3472	3472	3472	6667	6667	6667
Standard power supply		V	400/3/50+N					
Sound pressure level	(3)	dB(A)	59	60	61	64	66	67
<b>Directive ErP (Energy Related Products)</b>								
ErP Energy Class - AVERAGE Climate - W35		-	A++	A++	A++	A++	A++	A++
SCOP - AVERAGE Climate - W35	(4)	-	3,97	3,99	4,01	3,82	3,83	3,85

### Notes

- (1) Data compliant to Standard EN 14511:2013 referred to the following conditions: - Internal exchanger water temperature = 12/7°C - Entering external exchanger air temperature = 35°C
- (2) Data compliant to Standard EN 14511:2013 referred to the following conditions: - Internal exchanger water temperature = 40/45°C - Entering external exchanger air temperature = 7°C D.B./6°C W.B
- (3) The sound levels refer to the unit at full load, in the rated test conditions. The sound pressure level refers to a distance of 1m from the external surface of the units operating in an open field. Measures according to UNI EN ISO 9614-2 regulations, with respect to the EUROVENT 8/1 certification. Data referred to the following conditions: Internal exchanger water = 12/7°C; Outdoor air temperature 35°C

- (4) Data calculated according to the EN 14825:2016 Regulation

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 811/2013 (rate heat output ≤70 kW at specified reference conditions) and the Commission delegated Regulation (EU) No 813/2013 (rated heat output ≤400 kW at specified reference conditions).

## accessories

- ▶ **HYG1** Hydronic assembly with 1 ON/OFF pump
- ▶ **IFWX** Steel mesh strainer on the water side
- ▶ **AVIBX** Anti-vibration mount support

### Key to symbols:

- Accessories separately supplied