

ELFOEnergy Sheen EVO

Liquid chiller

WSAT-YSi: cooling only

WSAN-YSi: reversible heat pump

Air cooled

Outdoor installation

Capacity from 22,3 to 98,0 kW



- ✓ Full inverter technology with rotary or scroll compressors
- ✓ First investment driven and refurbishment applications
- ✓ Refrigerant R32 - GWP=675
- ✓ High seasonal efficiency
- ✓ Domestic hot water up to 54°C, low water temperature down to -8°C
- ✓ Three acoustic levels: standard, silenced and super-silenced
- ✓ Modular design to connect up to 16 units in parallel
- ✓ Integrated hydronic assembly, system tank and three-way valve (only for heat pump).



Unit listed on
www.eurovent-certification.com



ErP
compliant



functions and features



Cool only
(WSAT-YSi)



Heat pump
(WSAN-YSi)



Air cooled



Outdoor
installation



R-32



Hermetic
rotary



Hermetic
Scroll



Full
InverterDC



Electronic
expansion
valve

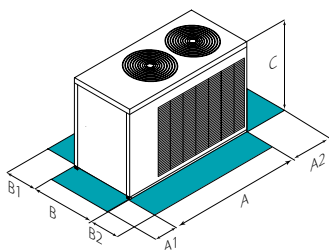


ELFOControl³
EVO



Hybrid
system

dimensions and clearances



CAUTION!

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

Size	WSAT-YSi	16.2	20.2	24.2	30.2	35.2	40.2
A - Length	mm	2280	2280	2280	3300	3300	3300
B - Width	mm	1060	1060	1060	1100	1100	1100
C - Height	mm	1320	1320	1320	1510	1510	1510
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	470	470	470	680	680	680

Size	WSAN-YSi	10.1	12.1	14.1	16.2	18.2	22.2	30.2	35.2	40.2
A - Length	mm	1920	1920	1920	2280	2280	2280	3300	3300	3300
B - Width	mm	1005	1005	1005	1060	1060	1060	1100	1100	1100
C - Height	mm	1175	1175	1175	1320	1320	1320	1510	1510	1510
A1	mm	800	800	800	800	800	800	800	800	800
A2	mm	800	800	800	800	800	800	800	800	800
B1	mm	800	800	800	800	800	800	800	800	800
B2	mm	800	800	800	800	800	800	800	800	800
Operating weight	kg	298	298	298	530	530	530	830	830	830

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.

versions and configurations

TYPE OF FANS:

VEND DC high efficiency fan (Standard)

technical data

Size	▶▶ WSAT-YSi		16.2	20.2	24.2	30.2	35.2	40.2
♦ Cooling capacity (EN14511:2018)	(1)	kW	43,0	54,0	65,0	76,0	87,0	98,0
Total power input (EN14511:2018)	(1)	kW	13,0	17,2	23,6	23,4	28,3	35,1
EER (EN14511:2018)	(1)	-	3,30	3,14	2,76	3,25	3,07	2,79
SEER	(4)	-	4,97	4,81	4,65	5,37	5,15	4,95
η _{s,c}	(4)	%	195,8	189,5	182,9	212,0	203,2	195,2
No. of compressors		Nr	1					
Refrigeration circuits		Nr	2					
Type of compressors		-	ROTARY INVERTER			SCROLL INVERTER		
Refrigerant		-	R-32					
Standard airflow		l/s	6944	6944	6944	10417	10417	10417
Standard power supply		V	400/3N~/50					
Sound pressure level	(3)	dB(A)	65	66	67	66	68	69

Size	▶▶ WSA-N-YSi		10.1	12.1	14.1	16.2	18.2	22.2	30.2	35.2	40.2
♦ Cooling capacity (EN14511:2018)	(1)	kW	22,3	25,8	29,0	42,0	48,0	55,0	68,9	79,8	88,4
Total power input (EN14511:2018)	(1)	kW	7,38	9,09	10,4	15,6	18,3	20,9	22,3	28,4	33,5
EER (EN14511:2018)	(1)	-	3,02	2,84	2,80	2,69	2,63	2,64	3,09	2,81	2,65
SEER	(4)	-	4,63	4,64	4,63	4,00	3,99	4,01	4,14	4,04	3,94
η _{s,c}	(4)	%	182,2	182,6	182,2	157,0	156,6	157,4	162,6	158,7	154,4
♦ Heating capacity (EN14511:2018)	(2)	kW	24,3	27,1	31,4	48,6	54,0	62,0	73,4	84,0	97,3
Total power input (EN14511:2018)	(2)	kW	7,35	8,27	9,80	14,6	16,6	20,0	23,0	26,3	31,5
COP (EN14511:2018)	(2)	-	3,30	3,27	3,20	3,32	3,26	3,10	3,19	3,19	3,09
No. of compressors	Nr		1						2		
Refrigeration circuits	Nr		1			2					
Type of compressors	-		ROTARY INVERTER						SCROLL INVERTER		
Refrigerant	-		R-32								
Standard airflow	l/s		3472	3472	3472	6667	6667	6667	10417	10417	10417
Standard power supply	V		400/3N~/50								
Sound pressure level	(3)	dB(A)	59	60	61	64	65	65	65	65	66
Directive ErP (Energy Related Products)											
ErP Energy Class - AVERAGE Climate - W35	-		A++	A++	A++	A++	A++	A++	A++	A++	A++
SCOP - AVERAGE Climate - W35	(4)	-	4,30	4,25	4,24	3,91	3,90	3,87	4,07	4,06	4,04
η _{s,h}	(4)	%	169,0	167,0	167,0	153,0	153,0	152,0	160,0	159,0	159,0

(1) Data compliant to Standard EN 14511:2018 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 14511:2018 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 14825:2018 Regulation

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 811/2013 (rated heat output ≤70 kW at specified reference conditions), the Commission delegated Regulation (EU) No 813/2013 (rated heat output ≤400 kW at specified reference conditions) and the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.

accessories

HYG1	Hydronic assembly with 1 ON/OFF pump
HYGU1V	User side hydronic group with 1 inverter pump
ACC	Storage tank
IFWX	Steel mesh strainer on the water side
AVIBX	Anti-vibration mount support
IFWI	Steel mesh strainer on the water side include in the packaging (available only with options: ASING)
REMAUX	Advanced remote control module for auxiliary controls of sheen/storm units
AMMSX	Spring antivibration mounts
AVIBI	Antivibration mountings included in the unit's packaging
PGFC	Finned coil protection grill
PGFCX	Finned coil protection grill

Accessories whose code ends with "X" are supplied separately

Only WSAT-YSi:

CCCME Microchannel e-coated coil

Only WSAN-YSi:

VACS DHW switching valve
SNATEX Non atex main switch for remote external installation
SNB On board main switch