

ELFOEnergy Edge EVO

Reversible heat pump

Air cooled

Outdoor installation

Capacity from 4,85 to 29,5 kW



Unit listed on
www.eurovent-certification.com



ErP
compliant



- **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:** 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. The unit can be equipped with a standard DC Inverter circulator, providing further energy savings through the modulation of water flow depending on the building thermal load and pressure drop.
- **EXTENDED OPERATING RANGE:** ELFOEnergy Edge Evo 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 46°C to -5°C), ideal for the requirements of IT applications. In heating, its operation is guaranteed down to external air temperatures of -25°C producing hot water of up to 60°C.
- **DOMESTIC HOT WATER ALL YEAR ROUND:** ELFOEnergy Edge Evo is able to produce domestic hot water at 60°C both in winter with outdoor temperatures down to -20°C and in summer with outdoor temperatures up to 43°C

functions and features



Heat pump



Air cooled



Outdoor
installation



R-32



Hermetic rotary



Full InverterDC

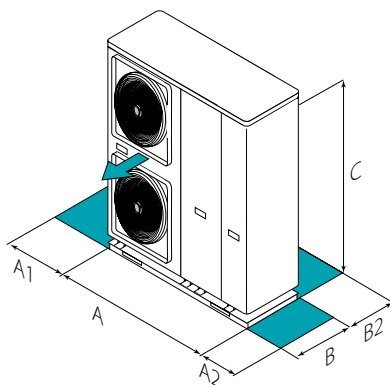


Electronic
expansion
valve



ELFOControl³
EVO

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	WSAN-YMi	21	31	41	61	71	81	91	101	121	141
A - Length	mm	1210	1210	1210	1404	1404	1404	1129	1129	1129	1129
B - Width	mm	402	402	402	405	405	405	440	440	440	440
C - Height	mm	945	945	945	1414	1414	1414	1558	1558	1558	1558
A1	mm	400	400	400	400	400	400	300	300	300	300
A2	mm	400	400	400	400	400	400	600	600	600	600
B2	mm	300	300	300	300	300	300	300	300	300	300
230/1/50 Operating weight	kg	99	99	99	158	158	158	-	-	-	-
400/3/50+N Operating weight	kg	-	-	-	172	172	172	177	177	177	177

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

VOLTAGE:

230M Supply voltage 230/1/50 (Standard)

400TN Supply voltage 400/3/50+N (sizes 61÷141only)

IBH Back-up electric heater (sizes 61÷81 only)
(only available with Direct Shipping)

technical data

Size	WSAN-YMi	21	31	41	61	71	81	
230/1/50	▶ Cooling capacity (EN 14511:2018)	(1) kW	4,85	6,30	7,95	10,9	12,9	13,8
230/1/50	Total power input (EN 14511:2018)	(1) kW	1,63	2,27	3,15	3,74	4,64	5,21
230/1/50	EER (EN 14511:2018)	(1) -	2,98	2,77	2,53	2,92	2,78	2,65
230/1/50	SEER	(4) -	4,71	4,99	4,92	4,85	4,73	4,54
230/1/50	$\eta_{s,c}$	(4) %	185,4	196,6	193,8	191,0	186,2	178,6
230/1/50	▶ Heating capacity (EN 14511:2018)	(2) kW	4,80	6,70	8,60	12,4	14,1	16,2
230/1/50	Total power input (EN 14511:2018)	(2) kW	1,33	1,88	2,50	3,52	4,06	4,72
230/1/50	COP (EN 14511:2018)	(2) -	3,60	3,57	3,44	3,53	3,47	3,43
230/1/50	Water flow-rate (User Side)	l/s	0,23	0,30	0,35	0,52	0,62	0,66
230/1/50	Useful pump discharge head	kPa	59,9	50,5	37,9	79,7	66,6	61,1
230/1/50	Sound pressure level	(3) dB(A)	49	52	55	54	55	56
230/1/50	Refrigeration circuits				1			
230/1/50	No. of compressor				1			
230/1/50	Type of compressor				ROTARY INVERTER			
230/1/50	Standard air flow	l/s	3050	3050	3050	6150	6150	6150
Directive ErP (Energy Related Products)								
230/1/50	ErP Energy Class - AVERAGE Climate - W35		A+++	A+++	A+++	A++	A++	A++
230/1/50	ErP Energy Class - AVERAGE Climate - W55		A++	A++	A++	A++	A++	A++
230/1/50	SCOP - AVERAGE Climate - W35	(4)	4,48	4,49	4,51	4,30	4,35	4,30
230/1/50	$\eta_{s,H}$	(4) %	176,0	176,0	177,0	169,0	168,0	169,0
230/1/50	SCOP - AVERAGE Climate - W55	(4)	3,23	3,24	3,22	3,23	3,26	3,27
230/1/50	$\eta_{s,H}$	(4) %	127,0	127,0	126,0	126,0	128,0	128,0

Size	WSAN-YMi	61	71	81	91	101	121	141
400/3/50+N	▶ Cooling capacity (EN 14511:2018)	(1) kW	10,9	12,9	13,8	17,0	21,0	29,5
400/3/50+N	Total power input (EN 14511:2018)	(1) kW	3,72	4,62	5,19	5,57	7,12	11,6
400/3/50+N	EER (EN 14511:2018)	(1) -	2,93	2,80	2,66	3,05	2,95	2,55
400/3/50+N	SEER	(4) -	4,85	4,73	4,54	4,70	4,70	4,49
400/3/50+N	$\eta_{s,c}$	(4) %	191,0	186,2	178,6	185,0	185,0	176,6
400/3/50+N	▶ Heating capacity (EN 14511:2018)	(2) kW	12,4	14,1	16,2	18,0	22,0	30,0
400/3/50+N	Total power input (EN 14511:2018)	(2) kW	3,45	3,99	4,70	5,14	6,47	10,3
400/3/50+N	COP (EN 14511:2018)	(2) -	3,59	3,54	3,45	3,50	3,40	2,90
400/3/50+N	Water flow-rate (User Side)	l/s	0,52	0,62	0,66	0,81	1,00	1,05
400/3/50+N	Useful pump discharge head	kPa	79,7	66,6	61,1	102	94,6	78,8
400/3/50+N	Sound pressure level	(3) dB(A)	54	56	56	55	58	60
400/3/50+N	Refrigeration circuits				1			
400/3/50+N	No. of compressor				1			
400/3/50+N	Type of compressor				ROTARY INVERTER			
400/3/50+N	Standard air flow	l/s	6150	6150	6150	10650	10650	11200
Directive ErP (Energy Related Products)								
400/3/50+N	ErP Energy Class - AVERAGE Climate - W35		A++	A++	A++	A+++	A+++	A++
400/3/50+N	ErP Energy Class - AVERAGE Climate - W55		A++	A++	A++	A++	A+	A+
400/3/50+N	SCOP - AVERAGE Climate - W35	(4)	4,30	4,35	4,30	4,60	4,53	4,19
400/3/50+N	$\eta_{s,H}$	(4) %	169	168	169	181	178	165
400/3/50+N	SCOP - AVERAGE Climate - W55	(4)	3,23	3,26	3,27	3,21	3,22	3,14
400/3/50+N	$\eta_{s,H}$	(4) %	126,0	128,0	128,0	125,0	126,0	123,0

- (1) Data calculated in compliance with 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 calculated in compliance with Standard EN 14511:2018 referred to the following conditions: Internal exchanger water temperature = 40/45°C; External exchanger air temperature 7 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 (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

IBHX	Backup electric heater	ACS3SX	300-litre domestic hot water storage tank with solar coil (size 21÷51)
KTFLX	Hose kit for connection to the chiller/heat pump	ACS5SX	500-litre domestic hot water storage tank with solar coil
KSAX	100-litre circuit breaker	3DHWX	Three-way valve for domestic hot water
QERAX	Connection electrical panel of the DHW storage heater	TANKX	Buffer tank
ACS200X	200-litre domestic hot water storage tank	KTCAMX	Piping kit for the connection to the buffer tank on supply water side
ACS300X	300-litre domestic hot water storage tank (size 21÷51)	KTCARX	Piping kit for the connection to the buffer tank on return water side
ACS500X	500-litre domestic hot water storage tank	T1BX	Probe for auxiliary heating source T1B
ACS2SX	200-litre domestic hot water storage tank with solar coil		

Accessories whose code ends with "X" are supplied separately

Data contained in this document are not binding and may be changed by the Manufacturer without notice