

ELFOEnergy Edge EVO

Reversible heat pump
 Air cooled
 Outdoor installation
Capacity from 4,85 to 29,5 kW



- ✓ Full inverter technology with rotary compressors
- ✓ High water temperature solution for residential systems
- ✓ Refrigerant R32 - GWP = 675
- ✓ High full load and seasonal efficiency with compact dimensions
- ✓ Hot water up to 60°C, low water temperature down to 5°C
- ✓ Three acoustic levels: standard, silenced and super-silenced
- ✓ Compatible with ELFOControl³ EVO, photovoltaic, solar thermal and Smart Grid
- ✓ Hybrid version available in combination with a condensing boiler for instant DHW production

HYDRONIC



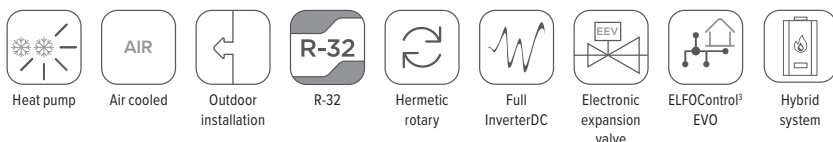
Unit listed on
www.eurovent-certification.com



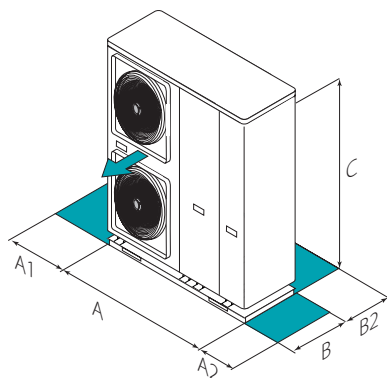
ErP
 compliant



functions and features



dimensions and clearances



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	-	-	-	-
400/3N"/50	Operating weight	kg	-	-	-	172	172	172	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.

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
400TN Supply voltage 400/3N~/50

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	0,38	0,52	0,62	0,66	
230/1~/50	Useful pump discharge head	kPa	59,9	50,5	37,9	49,7	36,4	30,7	
230/1~/50	No. of compressor	Nr				1			
230/1~/50	Refrigeration circuits	Nr				1			
230/1~/50	Type of compressor	-				ROTARY INVERTER			
230/1~/50	Refrigerant	-				R-32			
230/1~/50	Standard air flow	l/s	850	850	850	1710	1710	1710	
230/1~/50	Sound pressure level	(3) dB(A)	49	52	55	54	55	56	
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
400/3N~/50	◆ Cooling capacity (EN 14511:2018)	(1) kW	10,9	12,9	13,8	17,0	21,0	26,0	29,5
400/3N~/50	Total power input (EN 14511:2018)	(1) kW	3,72	4,62	5,19	5,57	7,12	9,63	11,6
400/3N~/50	EER (EN 14511:2018)	(1) -	2,93	2,80	2,66	3,05	2,95	2,70	2,55
400/3N~/50	SEER	(4) -	4,85	4,73	4,54	4,70	4,70	4,66	4,49
400/3N~/50	$\eta_{s,c}$	(4) %	191,0	186,2	178,6	185,0	185,0	183,4	176,6
400/3N~/50	◆ Heating capacity (EN 14511:2018)	(2) kW	12,4	14,1	16,2	18,0	22,0	26,0	30,0
400/3N~/50	Total power input (EN 14511:2018)	(2) kW	3,45	3,99	4,70	5,14	6,47	8,39	10,3
400/3N~/50	COP (EN 14511:2018)	(2) -	3,59	3,54	3,45	3,50	3,40	3,10	2,90
400/3N~/50	Water flow-rate (User Side)	l/s	0,52	0,62	0,66	0,81	1,00	1,24	1,43
400/3N~/50	Useful pump discharge head	kPa	49,7	36,4	30,7	102	94,6	78,8	59,4
400/3N~/50	No. of compressor	Nr				1			
400/3N~/50	Refrigeration circuits	Nr				1			
400/3N~/50	Type of compressor	-				ROTARY INVERTER			
400/3N~/50	Refrigerant	-				R-32			
400/3N~/50	Standard air flow	l/s	1710	1710	1710	2958	2958	3108	3108
400/3N~/50	Sound pressure level	(3) dB(A)	54	56	56	57	59	61	63
Directive ErP (Energy Related Products)									
400/3N~/50	ErP Energy Class - AVERAGE Climate - W35	-	A++	A++	A++	A+++	A+++	A+++	A++
400/3N~/50	ErP Energy Class - AVERAGE Climate - W55	-	A++	A++	A++	A++	A++	A+	A+
400/3N~/50	SCOP - AVERAGE Climate - W35	(4) -	4,30	4,35	4,30	4,61	4,54	4,50	4,20
400/3N~/50	$\eta_{s,h}$	(4) %	169,0	168,0	169,0	181,0	179,0	177,0	165,0
400/3N~/50	SCOP - AVERAGE Climate - W55	(4) -	3,23	3,26	3,27	3,21	3,23	3,16	3,14
400/3N~/50	$\eta_{s,h}$	(4) %	126,0	128,0	128,0	125,0	126,0	123,0	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
KTLFLX Hose kit for connection to the chiller/heat pump
KSAX 100-litre circuit breaker
QERAX Connection electrical panel of the DHW storage heater
ACS200X 200-litre domestic hot water storage tank
ACS300X 300-litre domestic hot water storage tank (size 21=51)
ACS500X 500-litre domestic hot water storage tank
ACS2SX 200-litre domestic hot water storage tank with solar coil
ACS3SX 300-litre domestic hot water storage tank with solar coil (size 21=51)
ACS5SX 500-litre domestic hot water storage tank with solar coil

Accessories whose code ends with "X" are supplied separately

- 3DHWX** Three-way valve for domestic hot water
TANKX Buffer tank
KTCAMX Piping kit for the connection to the buffer tank on supply water side
KTCARX Piping kit for the connection to the buffer tank on return water side
T1BX Probe for auxiliary heating source T1B