

LARGE EVO PL

Air-cooled multi-functional reversible heat pump for outdoor installation
Capacity from 51,7 to 238 kW



Clivet participates in the EUROVENT "Liquid Chilling Packages and Hydronic Heat Pumps".
Check ongoing validity of certificate on www.eurovent-certification.com



- ✓ Three acoustic configurations: standard, silent and super-silent
- ✓ Polyvalent technology configurable for 4-pipe
- ✓ Refrigerant R32 - GWP = 675
- ✓ Domestic hot water temperature up to 60°C and down to 5°C
- ✓ Double independent circuits for high reliability
- ✓ Three acoustic configurations: standard, silent and super-silent
- ✓ Modular operation management, up to 7 units in cascade
- ✓ Integrated hot side and cold side hydronic assemblies

Versions and configurations

EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

CREFB Device for fan consumption reduction of the external section, ECOBREEZE type (Standard)

ENERGY RECOVERY:

R Total energy recovery (Standard)

CONFIGURATION:

4T Configuration for 4-pipe system

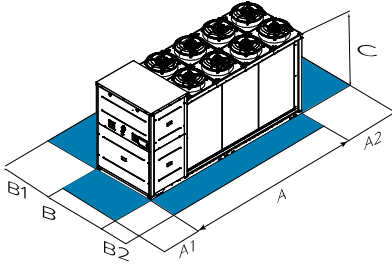
ACOUSTIC CONFIGURATION:

SC Acoustic configuration with compressor soundproofing (Standard)

LN Silenced acoustic configuration

EN Supersilenced acoustic configuration

Dimensions and connections



Size	WISAN-YEE1 PL	20.2	25.2	30.2	35.2	40.2	45.2	50.2	55.4	60.4	65.4	70.4	75.4	80.4	85.4
A - Length	mm	2510	2510	3230	3230	3230	3905	3905	4060	4060	4400	4400	5195	5195	5195
B - Width	mm	1395	1395	1395	1395	1395	1395	1395	1545	1545	1545	1545	1545	1545	1545
C - Height	mm	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920	1920
A1	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
A2	mm	800	800	800	800	800	800	800	800	800	800	800	800	800	800
B1	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
B2	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
Operating weight	kg	978	978	1300	1300	1300	1492	1492	1586	1586	2012	2012	2160	2160	2160

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 blue areas.

Technical data

Size	WISAN-YEE1 PL	20.2	25.2	30.2	35.2	40.2	45.2	50.2	55.4	60.4	65.4	70.4	75.4	80.4	85.4	
Cooling 100% - Heating 0%																
Cooling capacity (EN 14511:2022)	(1) kW	51,7	61,7	71,1	81,5	91,4	111	124	136	149	163	181	200	219	238	
Total power input (EN 14511:2022)	(1) kW	16,8	22,2	22,7	27,7	33,3	36,5	43,0	47,8	55,1	53,2	63,4	65,9	75,9	87,8	
EER (EN 14511:2022)	(1) -	3,07	2,77	3,13	2,95	2,74	3,03	2,88	2,85	2,70	3,05	2,85	3,03	2,88	2,71	
SEER	(6) -	4,26	4,23	4,48	4,45	4,44	4,62	4,60	4,38	4,35	4,65	4,64	4,62	4,61	4,59	
n _{sc}	(6) %	167,1	166,3	176,2	175,0	174,6	181,6	180,8	172,1	170,9	183,0	182,6	181,9	181,5	180,7	
Cooling 0% - Heating 100%																
Heating capacity (EN 14511:2022)	(2) kW	64,5	72,8	80,5	92,3	104	120	137	154	173	192	211	231	253	280	
Total power input (EN 14511:2022)	(2) kW	20,7	24,3	24,0	28,5	33,2	37,0	42,4	48,0	55,8	58,6	66,5	69,3	78,5	90,5	
COP (EN 14511:2022)	(2) -	3,12	3,00	3,36	3,24	3,15	3,25	3,22	3,22	3,10	3,27	3,18	3,34	3,23	3,10	
Cooling 100% - Heating 100%																
Cooling capacity (EN 14511:2022)	(3) kW	53,0	62,2	69,8	80,2	88,0	108	116	134	149	166	176	189	208	226	
Heating capacity (EN 14511:2022)	(3) kW	70,6	84,0	92,0	108	119	144	156	178	200	218	232	246	274	303	
Total power input (EN 14511:2022)	(3) kW	18,2	22,7	22,9	28,2	32,4	37,4	42,0	45,5	52,2	53,5	57,9	58,9	68,5	79,0	
TER (EN 14511:2022)	(4) -	6,78	6,45	7,07	6,66	6,40	6,74	6,47	6,86	6,68	7,18	7,05	7,38	7,04	6,70	
Refrigeration circuits	Nr	2														
No. of compressors	Nr	2														
Type of compressors	-	ROTARY INVERTER							SCROLL INVERTER							
Refrigerant	-	R32														
Standard power supply	V	400/3~/50														
SC-Sound power level	(5) dB(A)	83	83	85	85	85	87	87	88	88	89	89	91	91	91	
LN-Sound power level	(5) dB(A)	79	79	81	81	81	83	83	84	84	85	85	87	87	87	
EN-Sound power level	(5) dB(A)	75	75	77	77	77	79	79	80	80	81	81	83	83	83	
Directive ErP (Energy Related Products)																
SCOP - AVERAGE Climate - W35	(6) -	4,16	4,15	4,17	4,12	4,10	4,16	4,14	4,08	4,06	4,13	4,12	4,08	4,06	4,04	
n _{SH}	(6) %	163,0	163,0	164,0	162,0	161,0	163,0	163,0	160,0	159,0	162,0	162,0	160,0	160,0	159,0	
SCOP - AVERAGE Climate - W55	(6) -	2,95	3,06	3,04	3,08	3,17	3,07	3,18	3,07	3,12	3,17	3,19	3,01	3,11	3,27	
n _{SH}	(6) %	115,0	119,0	119,0	120,0	124,0	120,0	124,0	120,0	122,0	124,0	125,0	117,0	121,0	128,0	

(1) Data compliant to Standard EN 14511:2022 referred to the following conditions: Cold side water temperature = 12/7°C; Entering external exchanger air temperature = 35°C
 (2) Data compliant to Standard EN 14511:2022 referred to the following conditions: Hot side water temperature = 40/45°C; Entering external exchanger air temperature = 7°C D.B./6°C W.B.
 (3) Data compliant to Standard EN 14511:2022 referred to the following conditions: Cold side water temperature = *7°C; Hot side water temperature = */45°C
 (4) TER = (Cooling capacity + Heating capacity) / (Total power input)
 (5) Sound pressure levels are referred to units operating at nominal load in nominal conditions. Measurements are carried out accordingly to UNI EN ISO 9614-1 at nominal standard conditions defined in respective regulations: EU 2016/2281, UE 813/2013, UE 811/2013

(6) Data calculated according to the EN 14825:2022 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

CCCA	Copper / aluminium condenser coil with acrylic lining	ECS	ECOSHARE function for the automatic management of a group of units
CCCA1	Condenser coil with Aluminium Energy Guard DCC treatment	MISTER1	Indirect energy meter through pressure drops and unit probes temperature differential
ABU	Flush hydraulic connections	MISTER2	Direct energy meter by flow rate and temperature differential with unit probes (available only with options: FMCHX)
1PMCS	Hydronic unit on cold use side with 1 on-off pump	IVFHDT	Variable flow-rate control on hot use side by inverter based on the temperature difference
1PMCSV	Hydronic unit on cold use side with 1 inverter pump	IVFHDT5	Variable flow control heating side by inverter according to the temperature differential with pressure drop sensor
1+1PMCS	Hydronic unit on cold use side with 1+1 on-off pump	IVFHDTF	Variable flow control heating side by inverter according to the temperature differential with pressure drop sensor
1+1PMCSV	Hydronic unit on cold use side with 1+1 inverter pump	IVFCDT	Variable flow rate control heating side by inverter according to the temperature differential
1PMHS	Hydronic unit on hot use side with 1 on-off pump	IVFCDT5	Variable flow control cooling side by inverter according to the temperature differential with pressure drop sensor
1PMHSV	Hydronic unit on hot use side with 1 inverter pump	IVFCDTF	Variable flow rate control cooling side by inverter according to the temperature differential with a flow meter (available only with options: FMCHX)
1+1PMHS	Hydronic unit on hot use side with 1+1 on-off pump	CONTA3	M-bus total electricity meter
1+1PMHSV	Hydronic unit on hot use side with 1+1 inverter pump	CONTA4	Total electricity meters and m-bus pump group
CMSC9	Serial communication module for Modbus supervisor	DML0-10	Demand limit with 0-10 V signal
CMSC10	Serial communication module for LonWorks supervisor	DML4-20	Demand limit with 4-20 mA signal
CMSC11	Serial communication module for BACnet-IP supervisor		
PFGP	Soundproofing paneling of the pumping unit		
IFWX	Steel mesh filter on the water side		
RCMRX	Remote control via microprocessor control		
PSX	Mains power supply		
RPR	Refrigerant leak detector		
AVIBX	Anti-vibration mount support		
AMMSX	Spring anti-seismic antivibration mounts		
PGFC	Finned coil protection grilles		
PGFCX	Finned coil protection grilles		
PGCCH	Anti-hail protection grilles		
PGCCHX	Anti-hail protection grilles		
TCDC	Condensate collection pan with electric heater		
IOTX	IoT industrial module for cloud based interoperability & services		
FMCHX	Cooling and heating side flow meters		

Accessories whose code ends with "X" are supplied separately