

NEW PRODUCT



LARGE EVO PL

Polyvalent reversible heat pump

Air cooled

Outdoor installation

Capacity from 51,7 to 238 kW

- ✓ Full inverter technology with scroll or rotary compressors
- ✓ Polyvalent technology configurable for 4-pipe
- ✓ Refrigerant R32 - GWP = 675
- ✓ Hot water up to 60°C, chilled water down to -8°C, operation at -20°C
- ✓ Double independent circuits for high reliability
- ✓ Three sound levels: standard, silent and super-silent
- ✓ Modular operation management, up to 7 units in cascade
- ✓ Integrated hot side and cold side hydronic assemblies

functions and features



Heat pump



AIR



Outdoor
installation



R-32



Hermetic
rotary



Hermetic
Scroll



Full
inverter



Electronic
expansion
valve

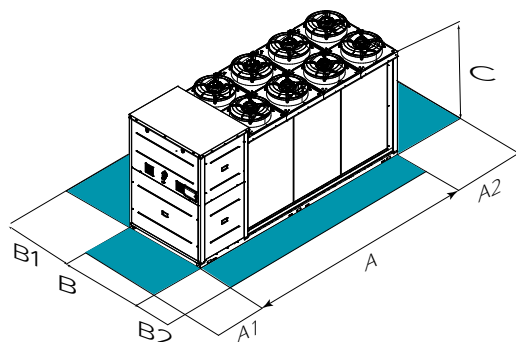


Control4 NRG
management



Intelliplant

dimensions and clearances



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 green areas.

versions and configurations

TYPE OF FANS:

VENDC DC high efficiency fan (Standard)

ENERGY RECOVERY:

R Total energy recovery (Standard)

STRUCTURAL CONFIGURATION:

4T Configuration for 4-pipe system

ACOUSTIC CONFIGURATION:

SC Acoustic configuration with compressor soundproofing (Standard)

LN Silenced acoustic configuration

EN Super-silenced acoustic configuration

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	61,6	71,1	81,5	91,4	111	124	136	149	162	181	200	219	238
Total power input (EN 14511:2022)	(1)	kW	16,9	22,3	22,7	27,7	33,4	36,6	43,0	47,8	55,1	53,3	63,4	66,0	75,9	87,8
EER (EN 14511:2022)	(1)	-	3,07	2,77	3,13	2,94	2,74	3,02	2,87	2,85	2,70	3,05	2,85	3,03	2,88	2,70
SEER	(6)	-	4,25	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
η _{SLC}	(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	36,9	42,4	48,0	55,8	58,6	66,5	69,3	78,5	90,4
COP (EN 14511:2022)	(2)	-	3,12	3,00	3,36	3,24	3,15	3,26	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	17,7	22,1	22,4	27,7	31,9	36,9	41,5	45,0	51,7	53,0	57,4	58,4	68,0	78,5
TER (EN 14511:2022)	(4)	-	6,98	6,60	7,23	6,78	6,50	6,83	6,55	6,94	6,75	7,25	7,11	7,44	7,09	6,74
Refrigeration circuits		Nr					2								4	
No. of compressors		Nr					2								4	
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
η _{SLH}	(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
η _{SLH}	(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 = 7/7°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 14825:2018 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

- CCCA Copper / aluminium condenser coil with acrylic lining
- CCCA1 Condenser coil with Aluminium Energy Guard DCC treatment
- ABU Flush hydraulic connections
- 1PMCS Hydropack on cold use side with 1 on-off pump
- 1PMCSV Hydropack on cold use side with 1 inverter pump
- 1+1PMCS Hydropack cooling side with 1 + 1 on-off pump
- 1+1PMCSV Hydropack cooling side with 1 + 1 inverter pump
- 1PMHS Hydropack on hot use side with 1 on-off pump
- 1PMHSV Hydropack on hot use side with 1 inverter pump
- 1+1PMHS Hydropack heating side with 1 + 1 on-off pump
- 1+1PMHSV Hydropack heating side with 1 + 1 inverter pump
- CMSC9 Serial communication module for Modbus supervisor
- CMSC10 Serial communication module for LonWorks supervisor
- CMSC11 Serial communication module for BACnet-IP supervisor

- PFGP Soundproofing paneling of the pumping unit
- IFWX Steel mesh strainer on the water side
- RCMRX Remote control via microprocessor control
- PSX Mains power supply
- RPR Refrigerant leak detector
- AVIBX Anti-vibration mount support
- AMMSX Anti-seismic spring antivibration mounts
- PGFC Finned coil protection grill
- PGFCX Finned coil protection grill
- 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

Accessories whose code ends with "X" are supplied separately