



Clivet participates in the EUROVENT "Liquid Chilling Packages and Hydronic Heat Pumps". The products concerned feature on the website www.eurovent-certification.com



compliant
ErP

THUNDER

Reversible heat pump

Air cooled

Outdoor installation

Capacity from 34,9 to 72,7 kW

- ✓ Full inverter technology with scroll compressors
- ✓ High-temperature solution with modular approach
- ✓ Natural and environmentally friendly refrigerant R290 - GWP = 3
- ✓ High full load and seasonal efficiency with compact dimensions
- ✓ Hot water up to 75°C and wide operating range from -20°C to +42°C
- ✓ Three acoustic levels: standard, silenced and super-silenced
- ✓ Modular design for up to 16 units in parallel (reduced installation space, enhanced system efficiency)

functions and features



Heat pump



Air cooled



Outdoor
installation



R-290



Hermetic
Scroll



Full
inverter



Electronic
expansion
valve

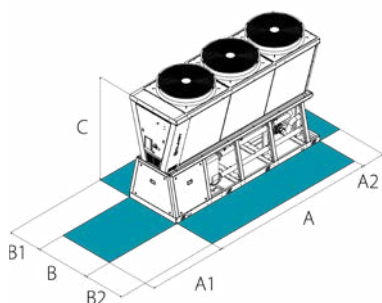


Control4 NRG
management



Intelliplant

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		▶▶ WiSAN-P	14.1	16.1	18.1	19.1	20.1	25.2	30.2
A - Length	mm		2384	2384	2384	2384	2384	3402	3402
B - Width	mm		1094	1094	1094	1094	1094	1094	1094
C - Height	mm		2240	2240	2240	2240	2240	2240	2240
A1	mm		1200	1200	1200	1200	1200	1200	1200
A2	mm		500	500	500	500	500	500	500
B1	mm		500	500	500	500	500	500	500
B2	mm		500	500	500	500	500	500	500
Operating weight	kg		709	709	757	757	757	1021	1021

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:

VENDC DC high efficiency fan (Standard)

ACOUSTIC CONFIGURATION:

- SC Acoustic configuration with compressor soundproofing (Standard)
- LN Silenced acoustic configuration
- EN Super-silenced acoustic configuration

technical data

Size	▶▶ WiSAN-P		14.1	16.1	18.1	19.1	20.1	25.2	30.2
♦ Cooling capacity (EN 14511:2022)	(1)	kW	34,9	38,5	49,9	54,0	58,2	67,8	72,7
Total power input (EN 14511:2022)	(1)	kW	12,3	13,7	19,4	22,0	24,8	23,7	27,5
EER (EN 14511:2022)	(1)	-	2,84	2,81	2,58	2,46	2,35	2,86	2,64
SEER	-	-	5,36	5,20	4,73	4,58	4,36	5,47	5,30
η _{s,c}	-	%	211,0	205,0	186,0	180,0	171,0	216,0	209,0
♦ Heating capacity (EN 14511:2022)	(2)	kW	39,9	45,2	55,1	61,5	68,5	78,6	85,9
Total power input (EN 14511:2022)	(2)	kW	12,8	14,7	17,2	19,7	23,4	25,0	28,5
COP (EN 14511:2022)	(2)	-	3,11	3,08	3,19	3,13	2,92	3,14	3,01
Refrigeration circuits	-	Nr	1						
No. of compressors	-	Nr	2						
Type of compressors	-	-	SCROLL INVERTER						
Refrigerant	-	-	R-290						
Standard airflow	-	l/s	10556	10556	10556	10556	10556	14722	14722
Standard power supply	-	V	400/3/50						
Sound pressure level (SC)	(3)	dB(A)	75	75	77	77	78	78	79
Sound power level (LN)	(3)	dB(A)	73	73	74	74	74	74	75
Sound pressure level (EN)	(3)	dB(A)	69	69	69	69	69	69	69
Directive ErP (Energy Related Products)									
ErP Energy Class - AVERAGE Climate - W35	-	-	A+++	A+++	A++	A++	A++	A+++	A+++
ErP Energy Class - AVERAGE Climate - W55	-	-	A++	A++	A++	A++	A++	A++	A++
SCOP - AVERAGE Climate - W35	(4)	-	4,51	4,45	4,29	4,23	4,15	4,70	4,54
η _{s,h}	(4)	%	177	175	169	166	163	185	179
SCOP - AVERAGE Climate - W55	(4)	-	3,54	3,51	3,39	3,38	3,36	3,63	3,60
η _{s,h}	(4)	%	139	137	133	132	131	142	141

(1) Data calculated in compliance with Standard EN 14511:2022 referred to the following conditions: Internal exchanger water temperature = 12/7°C; Outdoor heat exchanger inlet air temperature = 35°C
(2) Data calculated in compliance with Standard EN 14511:2022 referred to the following conditions: Internal exchanger water temperature = 40/45°C; Outdoor heat exchanger inlet air temperature 7 D.B./6 (°C) W.B.
(3) 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.

(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).

accessories

- HYGU1VI User side hydronic assembly with 1 inverter pump
- 1+1HYGU1VI Hydropack user side with 1+1 inverter pump
- ACIMP Steel inertial storage tank
- IFWX Steel mesh strainer on the water side
- AMODX Water fittings for modular unit
- CCKMUX Pipe plug kit for modular units
- PGFC Finned coil protection grill
- PGFCX Finned coil protection grill
- CCCA Copper / aluminium condenser coil with acrylic lining

- CCCA1 Condenser coil with Aluminium Energy Guard DCC treatment
- 3DHW Three-way valve for domestic hot water
- 3DHWX Three-way valve for domestic hot water
- VSAX automatic vent valve
- TRAMBX Remote user keypad to control the main functions of the unit
- AVIBX Anti-vibration mount support
- AMMSX Anti-seismic spring antivibration mounts
- IOTX IoT industrial module for cloud based interoperability & services

Accessories whose code ends with "X" are supplied separately