

WiSAT-YEE1 WiSAN-YEE1

45.4÷90.4

NEW PRODUCT



Large EVO

Liquid chiller

WiSAT-YEE1: cooling only
 WiSAN-YEE1: Reversible heat pump
 Air cooled
 Outdoor installation
Capacity from 110 to 252 kW

- ✓ Full inverter technology with scroll or rotary compressors
- ✓ High temperature solution for harsh climates
- ✓ Refrigerant R32 - GWP = 675
- ✓ High seasonal efficiency with extremely compact dimensions
- ✓ Hot water up to 60°C, chilled water down to -8°C, operation at -20°C
- ✓ Three acoustic configurations: standard, silenced and super-silenced
- ✓ Modular operation management, up to 8 units in cascade
- ✓ Integrated hydronic assembly, system tank and partial heat recovery



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



HYDRONIC

functions and features



Cooling only
(WiSAT-YEE1)



Heat pump
(WiSAN-YEE1)



Air cooled



Outdoor
installation



R-32



Hermetic
rotary



Hermetic
Scroll



Full
inverter



Electronic
expansion
valve

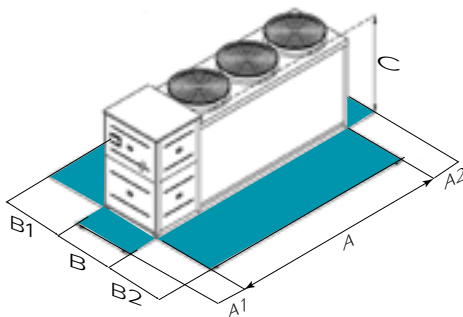


Control4 NRG
management



Intelliplant

dimensions and clearances



Size	▶▶ WiSAT-YEE1	45.4	50.4	55.4	60.4	65.4	70.4	75.4	80.4	85.4	90.4
SC-EXC A - Length	mm	3310	3310	3310	3310	4300	4300	4300	4300	4300	4300
SC-EXC B - Width	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
SC-EXC C - Height	mm	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
SC-EXC A1	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
SC-EXC A2	mm	800	800	800	800	800	800	800	800	800	800
SC-EXC B1	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
SC-EXC B2	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
SC-EXC Operating weight	kg	894	894	904	904	1154	1154	1154	1180	1180	1180

Size	▶▶ WiSAT-YEE1	45.4	50.4	55.4	60.4	65.4	70.4	75.4	80.4	85.4	90.4
SC-PRM A - Length	mm	3310	3310	3310	3310	4300	4300	4300	4300	4300	4300
SC-PRM B - Width	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
SC-PRM C - Height	mm	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
SC-PRM A1	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
SC-PRM A2	mm	800	800	800	800	800	800	800	800	800	800
SC-PRM B1	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
SC-PRM B2	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
SC-PRM Operating weight	kg	894	894	894	904	1154	1154	1180	1180	1180	1180

Size	▶▶ WiSAN-YEE1	45.4	50.4	55.4	60.4	65.4	70.4	75.4	80.4	85.4
A - Length	mm	3310	3310	3310	3310	4300	4300	4300	4300	4300
B - Width	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200
C - Height	mm	1900	1900	1900	1900	1900	1900	1900	1900	1900
A1	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000
A2	mm	800	800	800	800	800	800	800	800	800
B1	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350
B2	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350
Operating weight	kg	966	966	1009	1009	1250	1250	1352	1352	1352

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)

ENERGY RECOVERY:

- Energy recovery: not required (Standard)
- D** Partial energy recovery

ACOUSTIC CONFIGURATION:

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

technical data

Size		▶▶ WISAT-YEE1	45.4	50.4	55.4	60.4	65.4	70.4	75.4	80.4	85.4	90.4
SC-EXC	♦ Cooling capacity (EN 14511:2022)	(1) kW	110	118	133	142	156	169	183	196	209	226
SC-EXC	Total power input (EN 14511:2022)	(1) kW	34,2	38,5	46,1	50,3	50,0	54,6	64,0	59,4	65,5	74,2
SC-EXC	EER (EN 14511:2022)	(1) -	3,22	3,08	2,89	2,82	3,12	3,09	2,86	3,31	3,19	3,04
SC-EXC	SEER	(4) -	5,07	5,05	4,94	4,93	5,25	5,24	5,19	5,34	5,31	5,28
SC-EXC	η_{sc}	(4) %	200,0	199,0	194,0	194,0	207,0	207,0	205,0	211,0	210,0	208,0
SC-EXC	Refrigeration circuits	Nr	2									
SC-EXC	No. of compressors	Nr	4									
SC-EXC	Type of compressors	-	ROTARY INVERTER				*	SCROLL INVERTER				
SC-EXC	Refrigerant	-	R-32									
SC-EXC	Standard power supply	V	400/3N~/50									
SC-EXC	Sound power level	(3) dB(A)	84	84	84	84	85	85	85	88	89	89
LN-EXC	Sound power level	(3) dB(A)	81	81	81	81	82	82	82	84	85	85
EN-EXC	Sound power level	(3) dB(A)	78	78	78	78	79	79	79	80	81	81

Size		▶▶ WISAT-YEE1	45.4	50.4	55.4	60.4	65.4	70.4	75.4	80.4	85.4	90.4
SC-PRM	♦ Cooling capacity (EN 14511:2022)	(1) kW	125	135	143	155	174	192	211	226	241	252
SC-PRM	Total power input (EN 14511:2022)	(1) kW	44,2	49,2	53,5	58,8	62,4	73,2	71,6	78,1	80,3	86,0
SC-PRM	EER (EN 14511:2022)	(1) -	2,83	2,74	2,67	2,64	2,79	2,63	2,94	2,90	3,00	2,93
SC-PRM	SEER	(4) -	4,76	4,71	4,70	4,77	4,91	4,90	5,06	5,03	5,06	5,05
SC-PRM	η_{sc}	(4) %	188,0	185,0	185,0	188,0	193,0	193,0	199,0	198,0	199,0	199,0
SC-PRM	Refrigeration circuits	Nr	2									
SC-PRM	No. of compressors	Nr	4									
SC-PRM	Type of compressors	-	ROTARY INVERTER				*	SCROLL INVERTER				
SC-PRM	Refrigerant	-	R-32									
SC-PRM	Standard power supply	V	400/3N~/50									
SC-PRM	Sound power level	(3) dB(A)	86	86	86	87	87	90	91	91	91	91
LN-PRM	Sound power level	(3) dB(A)	83	83	83	84	84	87	88	88	88	88
EN-PRM	Sound power level	(3) dB(A)	80	80	80	81	81	84	85	85	85	85

Size		▶▶ WISAN-YEE1	45.4	50.4	55.4	60.4	65.4	70.4	75.4	80.4	85.4
♦ Cooling capacity (EN 14511:2022)	(1) kW	115	127	139	152	164	176	196	215	233	
Total power input (EN 14511:2022)	(1) kW	44,0	51,0	56,3	66,5	66,8	75,2	73,6	85,8	99,0	
EER (EN 14511:2022)	(1) -	2,61	2,49	2,47	2,29	2,46	2,34	2,66	2,51	2,35	
SEER	(4) -	4,51	4,51	4,36	4,28	4,48	4,45	4,48	4,45	4,42	
η_{sc}	(4) %	177,4	177,4	171,4	168,2	176,2	175,0	176,2	175,0	173,8	
♦ Heating capacity (EN 14511:2022)	(2) kW	118	130	150	170	190	210	230	250	268	
Total power input (EN 14511:2022)	(2) kW	37,7	43,2	47,3	55,1	60,0	67,7	70,5	79,7	88,7	
COP (EN 14511:2022)	(2) -	3,13	3,01	3,17	3,09	3,17	3,10	3,26	3,14	3,02	
Refrigeration circuits	Nr	2									
No. of compressors	Nr	4									
Type of compressors	-	ROTARY INVERTER				*	SCROLL INVERTER				
Refrigerant	-	R-32									
Standard power supply	V	400/3N~/50									
SC-Sound power level	(3) dB(A)	85	85	86	86	88	88	89	89	89	
LN-Sound power level	(3) dB(A)	81	81	82	82	84	84	85	85	85	
EN-Sound power level	(3) dB(A)	77	77	78	78	80	80	81	81	81	
Directive ErP (Energy Related Products)											
SCOP - AVERAGE Climate - W35	(4) -	4,16	4,12	4,15	4,08	4,19	4,15	4,23	4,16	4,11	
η_{SH}	(4) %	163,0	162,0	163,0	160,0	165,0	163,0	166,0	163,0	161,0	

(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

* ROTARY/SCROLL INVERTER

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

- 1PM** Hydropack with 1 pump
- 1PMV** Hydropack user side with nr.1 inverter pump
- 1PMH** Hydropack with nr.1 high static pressure pump
- 1PMVH** Hydropack user side with nr.1 high static pressure inverter pump
- 1P1SB** Hydropack user side with 1+1 on-off pump
- 1PAP+S** 1 high head pump + 1 stand-by pump
- 1P1SBV** Hydropack on user side with one inverter pump and one stand-by pump with dedicated inverter
- 1PAPSV** Hydropack on user side with one high head inverter pump and one stand-by pump with dedicated inverter
- ACC** Storage tank
- IFWX** Steel mesh strainer on the water side
- VACS** DHW switching valve: required
- ABU** Flush hydraulic connections
- CMSC13** Serial communication module for Modbus TCP/IP, BACnet IP, BACnet MSTP superviso
- REMAU** Additional board for advanced function management

- 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

Only WISAT-YEE1:

- CCME** Microchannel coil

Only WISAN-YEE1:

- CCCA** Copper / aluminium condenser coil with acrylic lining
 - CCCA1** Condenser coil with Aluminium Energy Guard DCC treatment
- 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