WiSAT-YEE1 WiSAN-YEE1

45.4÷90.4

HYDRONIC

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

DC INVERTER

- ✓ 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

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

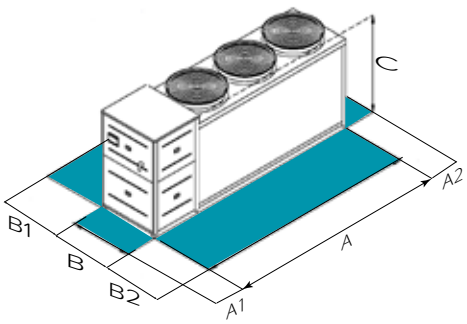
Clivet participates in the EUROVENT "Liquid Chilling Packages and Hydronic Heat Pumps". The products concerned feature on the website www.eurovent-certification.com

ErP compliant ErP

functions and features

Cooling only (WiSAT-YEE1) | Heat pump (WiSAN-YEE1) | AIR Air cooled | Outdoor installation | R-32 | Hermetic rotary | Hermetic Scroll | Full inverter | EEV 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.

CLIVET

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	$\eta_{s,c}$	(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	$\eta_{s,c}$	(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
$\eta_{s,c}$	(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
$\eta_{s,H}$	(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

REF - DG24L504GB-00