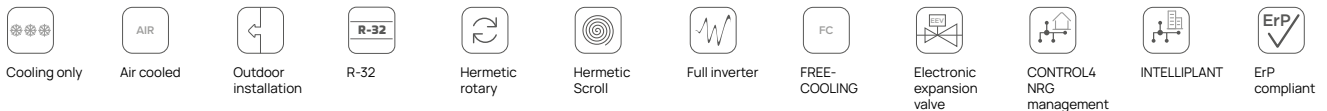


# LARGE EVO FC

Air-cooled liquid chiller with FREE-COOLING for outdoor installation  
Capacity from 104 to 232 kW

DC INVERTER



- ✓ Full inverter technology with scroll or rotary compressors
- ✓ Solution for cold climates, versatile applications with modular concept
- ✓ Refrigerant R32 - GWP = 675
- ✓ Operation up to 48°C outdoor air temperature, chilled water down to -8°C
- ✓ Direct Free cooling active at air temperatures above 0°C
- ✓ Two acoustic configurations: standard and super-silenced
- ✓ Modular operation management, up to 8 units in cascade
- ✓ Integrated hydronic assembly and system tank

## Versions and configurations

### VERSION:

EXC Excellence (standard)  
PRM Premium

### TYPE OF FANS:

VENDC DC high efficiency fan (Standard)

### FREE-COOLING:

FDC Direct free cooling

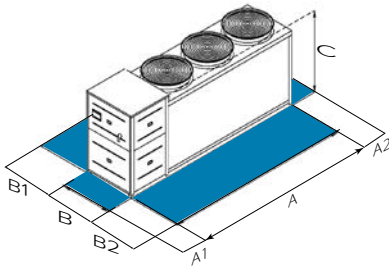
### ENERGY RECOVERY:

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

### ACOUSTIC CONFIGURATION:

SC Acoustic configuration with compressor soundproofing (Standard)  
EN Supersilenced acoustic configuration

## Dimensions and connections



Size	WiSAT-YEE1 FC	45.4	50.4	55.4	60.4	65.4	70.4	75.4	80.4	85.4	90.4
A - Length	mm	3310	3310	3310	4300	4300	4300	4300	4300	4300	4300
B - Width	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
C - Height	mm	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
A1	mm	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
A2	mm	800	800	800	800	800	800	800	800	800	800
B1	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
B2	mm	1350	1350	1350	1350	1350	1350	1350	1350	1350	1350
Operating weight	kg	1337	1337	1337	1826	1826	1826	1886	1886	1886	1886

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	WiSAT-YEE1 FC	45.4	50.4	55.4	60.4	65.4	70.4	75.4	80.4	85.4	90.4
<b>Free-Cooling Off</b>											
Cooling capacity	(1) kW	112	124	139	151	165	183	198	210	227	244
Total power input	(1) kW	30,5	34,4	39,8	38,4	43,0	51,4	51,4	56,4	63,5	72,2
EER at full load	(1) -	3,67	3,59	3,49	3,93	3,84	3,56	3,85	3,73	3,58	3,38
SEER	(4) -	4,72	4,71	4,71	4,94	4,93	4,88	4,93	4,91	4,83	4,81
n <sub>sc</sub>	(4) %	186	185	185	195	194	192	194	193	190	189
<b>Direct Free-cooling on</b>											
Cooling capacity - EXC / PRM	(2) kW	112	124	139	151	165	183	198	210	227	244
ZET - EXC	°C	1,2	0,4	-0,6	2,1	1,4	0,5	-0,2	-0,8	-1,7	-2,5
ZET - PRM	°C	0,6	-0,2	-1,4	1,1	0,2	-0,9	-1,8	-2,6	-3,5	-4,7
Refrigeration circuits	Nr	2									
No. of compressors	Nr	4									
Type of compressors	-	ROTARY INVERTER					SCROLL INVERTER				
Refrigerant	-	R-32									
Standard airflow	l/s	14500	14500	14500	21750	21750	21750	21750	21750	21750	21750
Standard power supply	V	400/3~/50									
Sound power level (SC)	(3) dB(A)	84	84	84	87	87	88	89	89	89	89
Sound power level (EN)	(3) dB(A)	78	78	78	81	81	82	84	84	84	84

(1) Data referred to the following conditions: internal exchanger water = 16/10°C; glycol 30%; entering external exchanger air temperature 30°C

(2) Free-Cooling only data (compressors OFF) referred to the following conditions: internal exchanger water temperature = 16/10°C; entering external exchanger air temperature = ZET; glycol 30%

(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 14825:2022 Regulation

The Product is compliant with the Erp (Energy Related Products) European Directive. It includes the Commission delegated Regulation (EU) No 2016/2281, also known as Ecodesign Lot21.

## Accessories

1PM	Hydronic unit on user side with 1 on-off pump	CMSC13	Serial communication module for Modbus TCP/IP,
1PMV	Hydronic unit on user side with 1 high head on-off pump	REMAU	BACnet IP, BACnet MSTP superviso
1PMH	Hydronic unit on user side with 1 inverter pump	RPR	Additional board for advanced function management
1PMVH	Hydronic unit on user side with 1 high head inverter pump	AVIBX	Refrigerant leak detector
1P1SB	Hydronic unit on user side with 1+1 on-off pump	AMMSX	Spring anti-seismic antivibration mounts
1PAP+S	Hydronic unit on user side with 1+1 on-off high head pump	PGFC	Finned coil protection grilles
1P1SBV	Hydronic unit on user side with 1+1 inverter pump	PGFCX	Finned coil protection grilles
1PAPS	Hydronic unit on user side with 1+1 high head inverter pump	PGCCH	Anti-hail protection grilles
ACC	Storage tank	PGCCHX	Anti-hail protection grilles
IFWX	Steel mesh filter on the water side	IOTX	IoT industrial module for cloud based interoperability & services
		CCME	Microchannel coil

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

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