

SPINCHILLER4

Air-cooled liquid chiller for outdoor installation
Capacity from 720 to 939 kW



Clivet participates in the EUROVENT "Liquid Chilling Packages and Hydronic Heat Pumps".
Check ongoing validity of certificate on www.eurovent-certification.com



Cooling only



Air cooled



Outdoor installation



R-32



Hermetic Scroll



Electronic expansion valve



ECOBREEZE



Hydropack



INTELLIPLANT



ErP compliant

- ✓ Scroll compressors, microchannel coils and two independent circuits for high reliability
- ✓ Excellence version for high full-load and seasonal efficiency, Premium version for compact dimensions and reduced initial investment
- ✓ Refrigerant R32 - GWP = 675
- ✓ Operation up to 50°C outdoor air temperature, low water temperature down to -8°C
- ✓ Plate heat exchanger or shell & tube exchanger
- ✓ Three acoustic configurations
- ✓ Modular operation management, up to 8 units in cascade
- ✓ Integrated hydronic assembly, system tank and partial heat recovery

Versions and configurations

VERSION:

EXC	Excellence (Standard)
PRM	Premium

EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

CREFB	Device for fan consumption reduction of the external section, ECOBREEZE type (Standard)
CREFP	Variable speed outdoor section fans consumption reduction device (phase cutting) (Standard in the Premium version)

ENERGY RECOVERY:

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

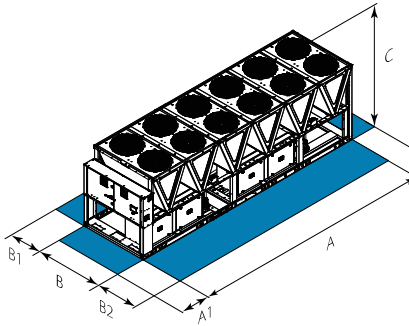
EVAPORATOR

EVPH	Plate heat exchanger (Standard)
EVFTP	Shell and tube evaporator PED test

ACOUSTIC CONFIGURATION:

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

Dimensions and connections



CAUTION!
For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the blue areas.

Size	WSAT-YSC4	265.6	290.7	310.7	350.8
SC-EXC A - Length	mm	6665	6665	6665	7919
SC-EXC B - Width	mm	2228	2228	2228	2228
SC-EXC C - Height	mm	2538	2538	2538	2538
SC-EXC A1	mm	1500	1500	1500	1500
SC-EXC A2	mm	700	700	700	700
SC-EXC B1	mm	1200	1200	1200	1200
SC-EXC B2	mm	2250	2250	2250	2250
SC-EXC Operating weight	kg	3954	4147	4192	4801

Size	WSAT-YSC4	265.6	290.7	310.7	350.8
SC-PRM A - Length	mm	6665	6665	6665	7919
SC-PRM B - Width	mm	2228	2228	2228	2228
SC-PRM C - Height	mm	2538	2538	2538	2538
SC-PRM A1	mm	1500	1500	1500	1500
SC-PRM A2	mm	700	700	700	700
SC-PRM B1	mm	1200	1200	1200	1200
SC-PRM B2	mm	2250	2250	2250	2250
SC-PRM Operating weight	kg	3954	4147	4192	4801

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.
SC-EXC Compressors soundproofing (SC)-Excellence
SC-PRM Compressors soundproofing (SC)-Premium

Technical data

Size	WSAT-YSC4	265.6	290.7	310.7	350.8
ST/SC-EXC Cooling capacity (EN 14511:2022)	(1) kW	720	780	814	939
ST/SC-EXC Total power input (EN 14511:2022)	(1) kW	232	259	279	314
ST/SC-EXC EER (EN 14511:2022)	(1) -	3,10	3,01	2,92	3,00
ST/SC-EXC SEER	(3) -	5,28	5,26	5,23	5,22
ST/SC-EXC $n_{s,c}$	(3) %	208,2	207,4	206,2	205,8
ST/SC-EXC Refrigeration circuits	Nr		2		
ST/SC-EXC No. of compressors	Nr	6	7		8
ST/SC-EXC Type of compressors	-		SCROLL		
ST/SC-EXC Refrigerant	-		R-32		
ST/SC-EXC Standard power supply	V		400/3~/50		
ST-EXC Sound power level	(2) dB(A)	97	97	98	98
SC-EXC Sound power level	(2) dB(A)	94	94	95	95
EN-EXC Sound power level	(2) dB(A)	90	90	91	91

Size	WSAT-YSC4	265.6	290.7	310.7	350.8
ST/SC-PRM Cooling capacity (EN 14511:2022)	(1) kW	720	780	814	939
ST/SC-PRM Total power input (EN 14511:2022)	(1) kW	232	259	279	314
ST/SC-PRM EER (EN 14511:2022)	(1) -	3,10	3,01	2,92	3,00
ST/SC-PRM SEER	(3) -	5,03	5,01	4,98	4,94
ST/SC-PRM $n_{s,c}$	(3) %	198,2	197,4	196,2	194,6
ST/SC-PRM Refrigeration circuits	Nr		2		
ST/SC-PRM No. of compressors	Nr	6	7		8
ST/SC-PRM Type of compressors	-		SCROLL		
ST/SC-PRM Refrigerant	-		R-32		
ST/SC-PRM Standard power supply	V		400/3~/50		
ST-PRM Sound power level	(2) dB(A)	97	97	98	98
SC-PRM Sound power level	(2) dB(A)	94	94	95	95
EN-PRM Sound power level	(2) dB(A)	90	90	91	91

(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) 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

(3) 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

2PM	Hydropack user side with 2 pumps	SFSTR	Disposal for inrush current reduction
2PMV	Hydropack user side with no.2 of inverter pumps	RE-25	Electrical panel antifreeze protection for min. outdoor temperature down to -25°C
1P1SB	Hydropack user side with 1+1 on-off pump	RE-39	Electrical panel antifreeze protection for min. outdoor temperature down to -39°C
1P1SBV	Hydropack on user side with one inverter pump and one stand-by pump with dedicated inverter	SDV	Cutoff valve on compressor supply and return
IVFDT	Inverter driven variable flow-rate user side control depending on the temperature differential	RPRI	Refrigerant leak detector in the casing
IFWX	Steel mesh filter on the water side	DML4-20	Demand limit with 4-20 mA signal
CSVX	Couple of manually operated shut-off valves	DML0-10	Demand limit with 0-10 V signal
ACC	Storage tank	PFGP	Soundproofing paneling of the pumping unit
AMMX	Spring antivibration mounts	PSWSA	Differential pressure switch water side with antifreeze protection
AMMSX	Spring anti-seismic antivibration mounts	PPBM	Microchannel coils protection panels
CONTA2	Energy meter	PGCC	Finned coil protection grilles and compressor compartment
RCMRX	Remote control via microprocessor control	CCME	Microchannel e-coated coil
PSX	Mains power supply	RDVS	Switching valve with double safety valves
CMSC10	Serial communication module for LonWorks supervisor	IOTX	IoT industrial module for cloud based interoperability & services
CMSC9	Serial communication module for Modbus supervisor		
CMSC11	Serial communication module for BACnet-IP supervisor		
SCP4	Set-point compensation with 0-10 V signal		
SPC1	Set point compensation with 4-20 mA signal		
ECS	ECOSHARE function for the automatic management of a group of units		
PFCC	Power factor correction capacitors (cosφ > 0.95)		

Accessories whose code ends with "X" are supplied separately