

SPINCHILLER⁴

Reversible heat pump

Air cooled

Outdoor installation

Capacity from 670 to 1260 kW



- ✓ Four independent circuits for high reliability with scroll compressors and EC Axial fans
- ✓ High full load and seasonal efficiency (Excellence version), high seasonal efficiency and compact dimensions (Premium version)
- ✓ Refrigerant R32 - GWP = 675
- ✓ Domestic hot water up to 55°C
- ✓ Plate heat exchanger or shell & tube exchanger
- ✓ Two acoustic configurations
- ✓ Modular operation management, up to 4 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

functions and features



Heat pump



Air cooled



Outdoor
installation



R-32



Hermetic
Scroll



Electronic
expansion
valve



ECOBREEZE

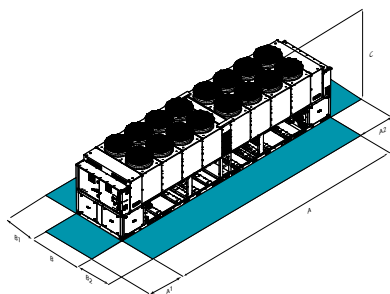


HydroPack



Intelligent

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		WSAN-YSC4	260.8	290.8	320.8	345.9	370.10	420.12	450.12
SC-EXC	A - Length	mm	10150	10150	10150	11122	12094	12094	13070
SC-EXC	B - Width	mm	2250	2250	2250	2250	2250	2250	2250
SC-EXC	C - Height	mm	2520	2520	2520	2520	2520	2520	2520
SC-EXC	A1	mm	1500	1500	1500	1500	1500	1500	1500
SC-EXC	A2	mm	1500	1500	1500	1500	1500	1500	1500
SC-EXC	B1	mm	1200	1200	1200	1200	1200	1200	1200
SC-EXC	B2	mm	1200	1200	1200	1200	1200	1200	1200
SC-EXC	Operating weight	kg	6786	7072	7384	7809	8636	8838	9280

Size		WSAN-YSC4	260.8	290.8	315.9	345.9	370.10	420.12	450.12	480.12
SC-PRM	A - Length	mm	8200	8200	9172	9172	10150	10150	12094	12094
SC-PRM	B - Width	mm	2250	2250	2250	2250	2250	2250	2250	2250
SC-PRM	C - Height	mm	2520	2520	2520	2520	2520	2520	2520	2520
SC-PRM	A1	mm	1500	1500	1500	1500	1500	1500	1500	1500
SC-PRM	A2	mm	1500	1500	1500	1500	1500	1500	1500	1500
SC-PRM	B1	mm	1200	1200	1200	1200	1200	1200	1200	1200
SC-PRM	B2	mm	1200	1200	1200	1200	1200	1200	1200	1200
SC-EXC	Operating weight	kg	5856	6232	7111	7156	7752	7940	8842	9092

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

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)
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ENERGY RECOVERY:

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

EVAPORATOR

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

ACOUSTIC CONFIGURATION:

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

technical data

Size	▶▶ WSAN-YSC4			260.8	290.8	320.8	345.9	370.10	420.12	450.12
SC-EXC	♦ Cooling capacity (EN 14511:2022)	(1)	kW	710	780	860	930	1000	1111	1211
SC-EXC	Total power input (EN 14511:2022)	(1)	kW	228	256	286	306	326	376	405
SC-EXC	EER (EN 14511:2022)	(1)	-	3,12	3,05	3,01	3,03	3,06	2,96	2,99
SC-EXC	SEER	(4)	-	4,82	4,75	4,70	4,81	4,86	4,83	4,84
SC-EXC	η _{s,c}	(4)	%	189,8	187,0	185,0	189,4	191,4	190,2	190,6
SC-EXC	♦ Heating capacity (EN 14511:2022)	(2)	kW	750	830	910	985	1060	1169	1269
SC-EXC	Total power input (EN 14511:2022)	(2)	kW	228	250	274	297	319	356	389
SC-EXC	COP (EN 14511:2022)	(2)	-	3,29	3,32	3,32	3,32	3,33	3,28	3,26
SC-EXC	Refrigeration circuits		Nr				4			
SC-EXC	No. of compressors		Nr	8	8	8	9	10	12	12
SC-EXC	Type of compressors		-				SCROLL			
SC-EXC	Refrigerant		-				R-32			
SC-EXC	Standard power supply		V				400/3~/50			
SC-EXC	Sound power level	(3)	dB(A)	94	94	94	95	95	95	96
EN-EXC	Sound power level	(3)	dB(A)	89	90	90	91	91	92	92

Size	▶▶ WSAN-YSC4			260.8	290.8	315.9	345.9	370.10	420.12	450.12	480.12
SC-PRM	♦ Cooling capacity (EN 14511:2022)	(1)	kW	670	740	815	885	960	1060	1171	1260
SC-PRM	Total power input (EN 14511:2022)	(1)	kW	238	272	290	327	343	400	414	454
SC-PRM	EER (EN 14511:2022)	(1)	-	2,82	2,72	2,81	2,71	2,80	2,65	2,83	2,77
SC-PRM	SEER	(4)	-	4,56	4,56	4,59	4,56	4,62	4,60	4,64	4,63
SC-PRM	η _{s,c}	(4)	%	179,4	179,3	180,4	179,3	181,9	181,2	182,8	182,0
SC-PRM	♦ Heating capacity (EN 14511:2022)	(2)	kW	700	770	850	920	1000	1109	1219	1309
SC-PRM	Total power input (EN 14511:2022)	(2)	kW	224	248	269	291	314	350	382	411
SC-PRM	COP (EN 14511:2022)	(2)	-	3,12	3,10	3,16	3,16	3,19	3,17	3,19	3,18
SC-PRM	Refrigeration circuits		Nr				4				
SC-PRM	No. of compressors		Nr	8	8	9	9	10	12	12	12
SC-PRM	Type of compressors		-				SCROLL				
SC-PRM	Refrigerant		-				R-32				
SC-PRM	Standard power supply		V				400/3~/50				
SC-PRM	Sound power level	(3)	dB(A)	93	93	93	94	94	94	95	95
EN-PRM	Sound power level	(3)	dB(A)	89	90	91	91	91	92	93	93

(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 2016/2281, also known as Ecodesign Lot21.

accessories

CCCA	Copper / aluminium condenser coil with acrylic lining
CCCA1	Condenser coil with Aluminium Energy Guard DCC treatment
MHP	High and low pressure gauges
SDV	Cutoff valve on compressor supply and return
PFGP	Soundproofing paneling of the pumping unit
IVFDT	Inverter driven variable flow-rate user side control depending on the temperature differential
ACC	Storage tank
CSVX	Couple of manually operated shut-off valves
IFWX	Steel mesh strainer on the water side
CMSC10	Serial communication module for LonWorks supervisor
CMSC9	Serial communication module for Modbus supervisor
CMSC11	Serial communication module for BACnet-IP supervisor
RCMRX	Remote control via microprocessor control
CONTA2	Energy meter
RE-25	Electrical panel antifreeze protection for min. outdoor temperature down to -25°C
DML4-20	Demand limit with 4-20 mA
DML0-10	Demand limit with 0-10 V

ECS	ECOSHARE function for the automatic management of a group of units
RPRI	Refrigerant leak detector in the casing
SFSTR	Disposal for inrush current reduction
PFCP	Power factor correction capacitors (cosfi > 0.9)
PFCC	Power factor correction capacitors (cosfi > 0.95)
SPC1	Set-point compensation with 4-20 mA
SCP4	Set-point compensation with 0-10 V
PSX	Mains power supply
AMMX	Spring antivibration mounts
AMMSX	Anti-seismic spring antivibration mounts
PGFC	Finned coil protection grill
PGCCH	Anti-hail protection grilles
2PM	Hydropack user side with 2 pumps
2PMV	Hydropack user side with no.2 of inverter pumps
1P1SB	Hydropack user side with 1+1 on-off pump
1P1SBV	Hydropack user side with 1+1 inverter pump
PSWSA	Differential pressure switch water side with antifreeze protection
RDVS	Switching valve with dual safety valves
IOTX	IoT industrial module for cloud based interoperability & services

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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