

SPINCHILLER4

Air-cooled reversible heat pump for outdoor installation
Capacity from 670 to 1260 kW



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



Heat pump



Air cooled



Outdoor installation



R-32



Hermetic Scroll



Electronic expansion valve



ECOBREEZE



Hydropack



INTELLIPLANT



ErP compliant

- ✓ Four independent circuits for high reliability with scroll compressors and EC Axial fans
- ✓ Excellence version for high full-load and seasonal efficiency, Premium version for compact dimensions and reduced initial investment
- ✓ Refrigerant R32 - GWP = 675
- ✓ Hot water up to 55°C and wide operating range down to -15°C
- ✓ Plate heat exchanger or shell & tube exchanger
- ✓ Two acoustic configurations: standard and super-silenced
- ✓ Modular operation management, up to 4 units in cascade
- ✓ Integrated hydronic assembly, system tank and partial heat recovery

Versions and configurations

VERSION:

EXC	Excellence (Standard)
PRM	Premium

EVAPORATOR

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

EXTERNAL SECTION FAN CONSUMPTION REDUCTION:

CREFB	Device for fan consumption reduction of the external section, ECOBREEZE type (Standard)
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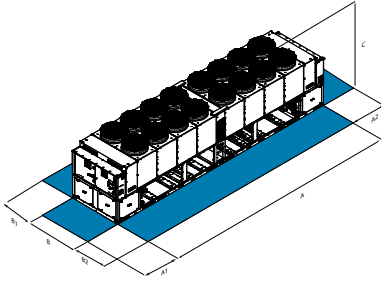
ACOUSTIC CONFIGURATION:

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

ENERGY RECOVERY:

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

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		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

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	$\eta_{s,c}$	(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	$\eta_{s,c}$	(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 14825:2022 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

CCCA	Copper / aluminium condenser coil with acrylic lining	DML0-10	Demand limit with 0-10 V signal
CCCA1	Condenser coil with Aluminium Energy Guard DCC treatment	ECS	ECOSHARE function for the automatic management of a group of units
2PM	Hydropack user side with 2 pumps	RPRI	Refrigerant leak detector in the casing
2PMV	Hydropack user side with no.2 of inverter pumps	SFSTR	Disposal for inrush current reduction
1P1SB	Hydropack user side with 1+1 on-off pump	PFCP	Power factor correction capacitors (cosfi > 0.9)
1P1SBV	Hydropack user side with 1+1 on-off pump	PFCC	Power factor correction capacitors (cosfi > 0.95)
MHP	High and low pressure gauges	SPC1	Set point compensation with 4-20 mA signal
SDV	Cutoff valve on compressor supply and return	SCP4	Set-point compensation with 0-10 V signal
PFGP	Soundproofing paneling of the pumping unit	PSX	Mains power supply
IVFDT	Inverter driven variable flow-rate user side control depending on the temperature differential	AMMX	Spring antivibration mounts
ACC	Storage tank	AMMSX	Spring anti-seismic antivibration mounts
CSVX	Couple of manually operated shut-off valves	PGFC	Finned coil protection grilles
IFWX	Steel mesh filter on the water side	PGCCH	Anti-hail protection grilles
CMSC10	Serial communication module for LonWorks supervisor	PSWSA	Differential pressure switch water side with antifreeze protection
CMSC9	Serial communication module for Modbus supervisor	RDVS	Switching valve with double safety valves
CMSC11	Serial communication module for BACnet-IP supervisor	IOTX	IoT industrial module for cloud based interoperability & services
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 signal		

Accessories whose code ends with "X" are supplied separately