SPINCHILLER4

Air-cooled reversible heat pump for outdoor installation
Capacity from 215 to 655 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

- ✓Scroll compressors, EC axial fans 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
- ✓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 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)

ENERGY RECOVERY:

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

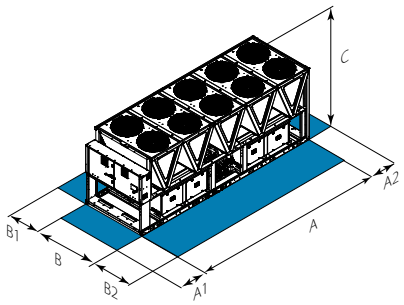
EVAPORATOR

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

ACOUSTIC CONFIGURATION:

SC Acoustic configuration with compressor soundproofing (Standard)
EN 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.

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

Size		WSAN-YSC4	80.3	90.4	100.4	110.4	120.4	130.4	145.4	160.4	185.5	210.6	225.6	240.6
SC-EXC	A - Length	mm	3118	4114	4114	4114	4114	5091	5091	5091	6066	6066	7045	7045
SC-EXC	B - Width	mm	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
SC-EXC	C - Height	mm	2520	2520	2520	2520	2520	2520	2520	2520	2520	2520	2520	2520
SC-EXC	A1	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
SC-EXC	A2	mm	700	700	700	700	700	700	700	700	700	700	700	700
SC-EXC	B1	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
SC-EXC	B2	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
SC-EXC	Operating weight	kg	2300	2631	2652	2772	2890	3295	3438	3594	4097	4199	4761	4861

Size		WSAN-YSC4	90.3	100.3	110.4	120.4	130.4	145.4	160.4	185.5	210.6	225.6	240.6
SC-PRM	A - Length	mm	3118	3118	3118	3118	4114	4114	4114	5091	5091	6066	6066
SC-PRM	B - Width	mm	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250	2250
SC-PRM	C - Height	mm	2520	2520	2520	2520	2520	2520	2520	2520	2520	2520	2520
SC-PRM	A1	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
SC-PRM	A2	mm	700	700	700	700	700	700	700	700	700	700	700
SC-PRM	B1	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
SC-PRM	B2	mm	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200	1200
SC-PRM	Operating weight	kg	2320	2445	2434	2562	2893	3018	3143	3779	3867	4310	4435

Technical data

Size			WSAN-YSC4	80.3	90.4	100.4	110.4	120.4	130.4	145.4	160.4	185.5	210.6	225.6	240.6
SC-EXC	Cooling capacity (EN 14511:2022)	(1)	kW	215	240	265	290	320	355	390	430	500	555	610	655
SC-EXC	Total power input (EN 14511:2022)	(1)	kW	72,9	76,4	84,7	94,9	106	114	128	143	163	188	198	218
SC-EXC	EER (EN 14511:2022)	(1)	-	2,95	3,14	3,13	3,05	3,02	3,11	3,04	3,00	3,06	2,96	3,08	3,01
SC-EXC	SEER	(4)	-	4,45	4,79	4,74	4,81	4,84	4,86	4,78	4,72	4,88	4,84	4,89	4,86
SC-EXC	$\eta_{s,c}$	(4)	%	175,0	188,5	186,6	189,4	190,4	191,3	188,1	186,0	192,1	190,7	192,6	191,5
SC-EXC	Heating capacity (EN 14511:2022)	(2)	kW	225	255	280	310	335	375	415	455	530	585	640	685
SC-EXC	Total power input (EN 14511:2022)	(2)	kW	69,9	78,8	85,6	95,2	103	114	125	137	160	178	199	211
SC-EXC	COP (EN 14511:2022)	(2)	-	3,22	3,24	3,27	3,26	3,26	3,29	3,32	3,31	3,32	3,28	3,22	3,24
SC-EXC	Refrigeration circuits		Nr	2											
SC-EXC	No. of compressors		Nr	3				4				5		6	
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)	87	88	89	89	89	91	91	91	92	92	93	93
EN-EXC	Sound power level	(3)	dB(A)	84	85	86	86	86	86	87	87	88	89	90	90
Directive ErP (Energy Related Products)															
SCOP - AVERAGE Climate - W35		(4)	-	3,73	3,90	3,92	4,10	4,08	4,05	4,00	4,10	-	-	-	-
$\eta_{s,H}$		(4)	%	146	153	154	161	160	159	157	161	-	-	-	-

Size			WSAN-YSC4	90.3	100.3	110.4	120.4	130.4	145.4	160.4	185.5	210.6	225.6	240.6
SC-PRM	Cooling capacity (EN 14511:2022)	(1)	kW	235	255	275	300	335	370	405	480	530	585	630
SC-PRM	Total power input (EN 14511:2022)	(1)	kW	83,7	94,1	102	116	119	136	155	172	200	207	227
SC-PRM	EER (EN 14511:2022)	(1)	-	2,80	2,71	2,70	2,59	2,81	2,72	2,61	2,80	2,65	2,83	2,77
SC-PRM	SEER	(4)	-	4,26	4,24	4,35	4,37	4,55	4,57	4,33	4,64	4,62	4,66	4,64
SC-PRM	$\eta_{s,c}$	(4)	%	167,2	166,7	171,0	171,6	178,9	179,9	170,1	182,8	181,8	183,4	182,5
SC-PRM	Heating capacity (EN 14511:2022)	(2)	kW	240	265	285	315	350	385	420	500	555	610	655
SC-PRM	Total power input (EN 14511:2022)	(2)	kW	76,4	85,5	92,3	102	112	124	134	157	175	191	206
SC-PRM	COP (EN 14511:2022)	(2)	-	3,15	3,10	3,09	3,09	3,12	3,10	3,13	3,19	3,17	3,18	3,18
SC-PRM	Refrigeration circuits		Nr	2										
SC-PRM	No. of compressors		Nr	3				4			5		6	
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)	87	88	88	88	90	90	90	91	91	92	92
EN-PRM	Sound power level	(3)	dB(A)	85	86	86	86	86	87	87	88	89	90	90
Directive ErP (Energy Related Products)														
SCOP - AVERAGE Climate - W35		(4)	-	3,47	3,64	3,83	3,87	3,80	3,64	3,82	3,91	-	-	-
$\eta_{s,H}$		(4)	%	136	143	150	152	149	143	150	153	-	-	-

(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 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 on user side with 1 pump
1PMV	Hydropack user side with nr.1 inverter pump
1PMH	Hydropack on user side with 1 high head pump
1PMVH	Hydropack user side with nr.1 high static pressure inverter pump
2PM	Hydropack user side with 2 pumps
2PMV	Hydropack user side with no.2 of inverter pumps
2PMH	Hydropack user side with nr.2 high static pressure pump
2PMVH	Hydropack user side with nr.2 high static pressure inverter pump
IVFDT	Inverter driven variable flow-rate user side control depending on the temperature differential
IFWX	Steel mesh filter on the water side
CSVX	Couple of manually operated shut-off valves
ACC	Storage tank
AMMX	Spring antivibration mounts
AMMSX	Spring anti-seismic antivibration mounts
CONTA2	Energy meter
RCMRX	Remote control via microprocessor control
PSX	Mains power supply
CMSC10	Serial communication module for LonWorks supervisor
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
PFCP	Power factor correction capacitors (cosfi > 0.9)
SFSTR	Disposal for inrush current reduction
RE-25	Electrical panel antifreeze protection for min. outdoor temperature down to -25°C
MHP	High and low pressure gauges
SDV	Cutoff valve on compressor supply and return
RPRI	Refrigerant leak detector in the casing
DML4-20	Demand limit with 4-20 mA signal
DML0-10	Demand limit with 0-10 V signal
PFGP	Soundproofing paneling of the pumping unit
PSWSA	Differential pressure switch water side with antifreeze protection
IOTX	IoT industrial module for cloud based interoperability & services
CCCA	Copper / aluminium condenser coil with acrylic lining
CCCA1	Condenser coil with Aluminium Energy Guard DCC treatment
PGCCH	Anti-hail protection grilles
PGFC	Finned coil protection grilles

Accessories whose code ends with "X" are supplied separately

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