SCREWLINE4-I PL

Water-cooled multi-functional reversible heat pump for indoor installation
Capacity from 440 to 945 kW

Screw INVERTER

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

Heat pump | Water cooled | Indoor installation | R-513A | Semi-hermetic Twin-screw | Full Inverter | Electronic expansion valve | Intelliplant | ErP compliant

- ✓Screw compressors with inverter technology and shell & tube heat exchanger
- ✓Polyvalent technology configurable for 4-pipe
- ✓Double independent circuits for high reliability
- ✓Refrigerant R513A - GWP = 631
- ✓High full load and seasonal efficiency
- ✓Domestic hot water temperature up to 55°C and down to 5°C
- ✓Two acoustic configurations: standard and super-silenced
- ✓Modular operation management, up to 7 units in cascade

Versions and configurations

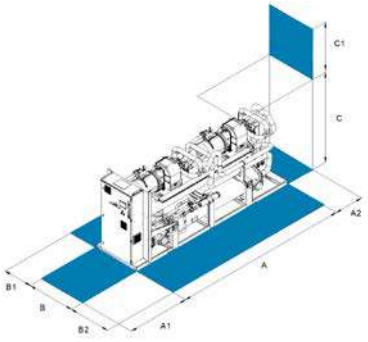
VERSION:

EXC	Excellence (Standard)

ACOUSTIC CONFIGURATION:

ST	Standard acoustic configuration (Standard)
EN	Supersilenced acoustic configuration

Dimensions and connections



Size	WiDHN-KSL1 PL		140.2	185.2	220.2	260.2	320.2	360.2
A - Length		mm	5172	5172	5172	5172	5752	5752
B - Width		mm	1543	1543	1543	1543	1543	1543
C - Height		mm	2156	2156	2156	2156	2363	2363
A1		mm	1500	1500	1500	1500	1500	1500
A2		mm	700	700	700	700	700	700
B1		mm	700	700	700	700	700	700
B2		mm	1000	1000	1000	1000	1000	1000
Operating weight		kg	5417	5417	7022	7022	9168	9168

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	WiDHN-KSL1 PL		140.2	185.2	220.2	260.2	320.2	360.2
Cooling 100% - Heating 0%								
Cooling capacity (EN 14511:2022)	(1)	kW	440	529	621	709	840	945
Total power input (EN 14511:2022)	(1)	kW	97,4	123	137	165	193	230
EER (EN 14511:2022)	(1)	-	4,51	4,31	4,51	4,31	4,36	4,10
SEER	(6)	-	7,72	7,50	7,85	7,56	7,75	7,53
$\eta_{S,C}$	(6)	%	300,9	292,2	306,2	294,4	301,8	293,1
Cooling 0% - Heating 100%								
Heating capacity (EN 14511:2022)	(2)	kW	500	600	700	801	944	1048
Total power input (EN 14511:2022)	(2)	kW	120	149	162	189	215	247
COP (EN 14511:2022)	(2)	-	4,18	4,02	4,31	4,24	4,39	4,25
Cooling 100% - Heating 100%								
Cooling capacity (EN 14511:2022)	(3)	kW	401	481	560	640	754	860
Heating capacity (EN 14511:2022)	(3)	kW	518	630	720	826	963	1107
Total power input (EN 14511:2022)	(3)	kW	119	152	162	189	212	251
TER (EN 14511:2022)	(4)	-	7,70	7,32	7,87	7,77	8,11	7,84
Refrigeration circuits		Nr	2					
No. of compressors		Nr	2					
Type of compressors		-	SCREW INVERTER					
Refrigerant		-	R-513A					
Standard power supply		V	400/3~/50					
Sound power level	(5)	dB(A)	97	97	98	98	101	101
Directive ErP (Energy Related Products)								
SCOP - AVERAGE Climate - W35	(6)	-	6,77	6,43	6,74	6,53	6,75	6,69
$\eta_{S,H}$	(6)	%	262,9	249,3	261,5	253,4	262,0	259,6
SCOP - AVERAGE Climate - W55	(6)	-	4,44	4,33	4,58	4,50	4,67	4,59
$\eta_{S,H}$	(6)	%	169,5	165,2	175,2	172,1	178,7	175,5

(1) Data calculated in compliance with Standard EN 14511:2022 referred to the following conditions: Cold side water temperature = 12/7°C; Source side water temperature = 30/35°C
(2) Data calculated in compliance with Standard EN 14511:2022 referred to the following conditions: Hot side water temperature = 40/45°C, Source side water temperature = 10/7°C
(3) Data compliant to Standard EN 14511:2022 referred to the following conditions: Cold side water temperature = */7°C; Hot side water temperature = */45°C
(4) TER = (Cooling capacity + Heating capacity) / (Total power input)
(5) 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
Sound power level are not Eurovent certified.

(6) 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

RCMRX	Remote control via microprocessor control
PSX	Mains power supply
CONTA3	Modbus total electric energy meters
CONTA4	Total electricity meters and m-bus pump group
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
SPC2	Set-point compensation with outdoor air temperature probe
ECS	ECOSHARE function for the automatic management of a group of units
IVMSX	Source side 2-way modulating valve
IVMS3X	Source side 3-way modulating valve
CSVX	Couple of manually operated shut-off valves
IFWX	Steel mesh filter on the water side
RPR	Refrigerant leak detector
AMMSX	Spring anti-seismic antivibration mounts
AMMX	Spring antivibration mounts
AMRX	Rubber antivibration mounts
SSBP	Source side exchanger low flowrate
SSAP	Source side exchanger high flowrate
SUFBP	Cold user side exchanger low flowrate
SUFAP	Cold user side exchanger high flowrate
SUC4P	4-pass hot user side exchanger
IOTX	IoT industrial module for cloud based interoperability & services

Accessories whose code ends with "X" are supplied separately

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