

SCREWLINE4-I PL

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



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

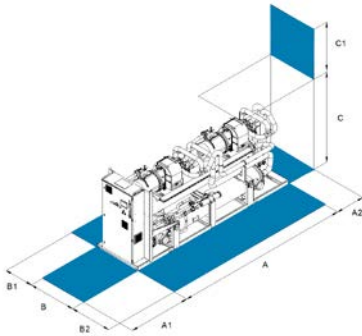
VERSION:

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 = 7/7°C; Hot side water temperature = 45/45°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	IFWX	Steel mesh filter on the water side
PSX	Mains power supply	RPR	Refrigerant leak detector
CONTA3	Modbus total electric energy meters	AMMSX	Spring anti-seismic antivibration mounts
CONTA4	Total electricity meters and m-bus pump group	AMMX	Spring antivibration mounts
CMSC9	Serial communication module for Modbus supervisor	AMRX	Rubber antivibration mounts
CMSC11	Serial communication module for BACnet-IP supervisor	SSBP	Source side exchanger low flowrate
SCP4	Set-point compensation with 0-10 V signal	SSAP	Source side exchanger high flowrate
SPC1	Set point compensation with 4-20 mA signal	SUFBP	Cold user side exchanger low flowrate
SPC2	Set-point compensation with outdoor air temperature probe	SUFAP	Cold user side exchanger high flowrate
ECS	ECOSHARE function for the automatic management of a group of units	SUC4P	4-pass hot user side exchanger
IVMSX	Source side 2-way modulating valve	IOTX	IoT industrial module for cloud based interoperability & services
IVMS3X	Source side 3-way modulating valve		
CSVX	Couple of manually operated shut-off valves		

Accessories whose code ends with "X" are supplied separately