

# WiDHN-KSL1 PL

140.2÷360.2

## NEW PRODUCT

## SCREWLINE<sup>4</sup>-I PL

**Polyvalent reversible heat pump**

Water cooled

Indoor installation

**Capacity from 440 to 945 kW**

HYDRONIC



Screw INVERTER

- ✓ 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 up to 55°C, low water temperature down to 4°C
- ✓ Two acoustic configurations: standard and super-silenced
- ✓ Modular operation management, up to 7 units in cascade

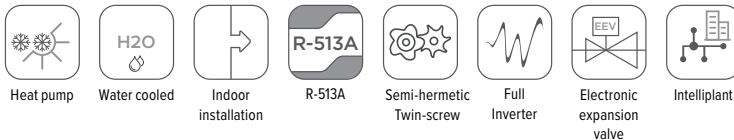


Clivet participates in the EUROVENT "Liquid Chilling Packages and Hydronic Heat Pumps". The products concerned feature on the website [www.eurovent-certification.com](http://www.eurovent-certification.com)

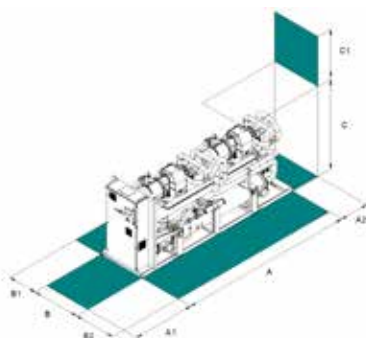


compliant  
ErP

## functions and features



## dimensions and clearances



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.

PRELIMINARY DATA

### CAUTION!

For trouble-free operation of the unit it is essential to maintain the safety distances indicated by the green areas.

## versions and configurations

### VERSION:

**EXC** Excellence (Standard)

### ACOUSTIC CONFIGURATION:

**ST** Standard acoustic configuration (Standard)

**EN** Super-silenced acoustic configuration

## technical data

Size	▶▶ WIDHN-KSL1 PL		140.2	185.2	220.2	260.2	320.2	360.2
<b>Cooling 100% - Heating 0%</b>								
Cooling capacity (EN 14511:2022)	(1)	kW	440	531	621	709	840	945
Total power input (EN 14511:2022)	(1)	kW	97,4	123	138	165	193	230
EER at full load (EN14511:2022)	(1)	-	4,51	4,33	4,51	4,30	4,36	4,10
SEER	(6)	-	7,72	7,50	7,85	7,56	7,75	7,53
$\eta_{sc}$	(6)	%	300,9	292,2	306,2	294,4	301,8	293,1
<b>Cooling 0% - Heating 100%</b>								
Heating capacity (EN 14511:2022)	(2)	kW	500	600	700	801	944	1048
Total power input (EN 14511:2022)	(2)	kW	120	149	163	190	215	246
COP at full load (EN14511:2022)	(2)	-	4,18	4,02	4,31	4,23	4,39	4,25
<b>Cooling 100% - Heating 100%</b>								
Cooling capacity (EN 14511:2022)	(3)	kW	401	481	560	640	754	860
Heating capacity (EN 14511:2022)	(3)	kW	518	629	719	826	963	1107
Total power input (EN 14511:2022)	(3)	kW	119	151	162	189	211	251
TER (EN 14511:2022)	(4)	-	7,70	7,33	7,88	7,77	8,12	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
<b>Directive ErP (Energy Related Products)</b>								
SCOP - AVERAGE Climate - W55	(6)	-	4,44	4,33	4,58	4,50	4,67	4,59
$\eta_{sh}$	(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 = 7/45°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 14825:2018 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.

PRELIMINARY DATA

## accessories

<b>RCMRX</b>	Remote control via microprocessor control
<b>PSX</b>	Mains power supply
<b>CONTA3</b>	Modbus total electric energy meters
<b>CONTA4</b>	Total electricity meters and m-bus pump group
<b>CMSC9</b>	Serial communication module for Modbus supervisor
<b>CMSC11</b>	Serial communication module for BACnet-IP supervisor
<b>SCP4</b>	Set-point compensation with 0-10 V signal
<b>SPC1</b>	Set point compensation with 4-20 mA signal
<b>SPC2</b>	Set-point compensation with outdoor air temperature probe

<b>ECS</b>	ECOSHARE function for the automatic management of a group of units
<b>IVMSX</b>	Source side 2-way modulating valve
<b>IVMS3X</b>	Source side 3-way modulating valve
<b>CSVX</b>	Couple of manually operated shut-off valves
<b>IFWX</b>	Steel mesh strainer on the water side
<b>RPR</b>	Refrigerant leak detector
<b>AMMSX</b>	Anti-seismic spring antivibration mounts
<b>AMMX</b>	Spring antivibration mounts
<b>AMRX</b>	Rubber antivibration mounts

Accessories whose code ends with \*X\* are supplied separately