

# Heat Pump

## SL-HP9KL / SL-HP12/18KR



# 1

### R32

- Slenergy heat pumps use R32 to reduce their environmental impact. (GWP)

# 2

### Smart Control

- Revolutionary and Innovative Features for Complete Control. (Support for multiple languages)
  - a. Smart Colored Touch screen Display;
  - b. Intelligent Temperature Adjustment;
  - c. Remote Control;
  - d. Smart Main Controller.
- Remote monitoring, anytime, anywhere.

# 3

### DC Inverter EVI Technology

- DC Inverter EVI Technology can effectively reduce power consumption and improve the heating capacity of heat pump units to ensure stable performance even at ambient temperatures as low as -25°C.

# 4

### Twin Rotary Compressor

- A Twin Rotary DC inverter compressor results in a 30% reduction in energy consumption and reduced noise levels.

# 5

### Smart Defrost

- At Slenergy Heat Pump, the energy reduction required for defrosting provides a 10% increase in heat capacity compared to other traditional defrosting.

# 6

### Heat Pump Silent Mode

- Reaching as low as 40dB, Silent Mode creates a tranquil atmosphere.

# 7

### A+++

- The highest energy efficiency level of Slenergy Heat Pump can reach the EU Energy Efficiency A+++ Level, which ensures that users can get a better experience at a lower cost.

# 8

### BLDC Motor Fan, Effectively Reduce the Wind Noise

- The rotor is made of permanent magnets and the stator of high density pure copper coils are concentrated and wound together to keep low noise and efficient operation.
- Stepless adjustment can be carried out according to the changes of system operation.
- The system operates efficiently under different loads, with the system efficiency up to 85%.

# 9

### Perfectly Compatible with Solar Systems

- Optimizing energy coordination control for heightened efficiency and sustainable power utilization.



↑  
Single-fan cabinet: SL-HP9KL



←  
Double-fan cabinet: SL-HP12KR/18KR

MODEL		SL-HP9KL	SL-HP12KR	SL-HP18KR
Max Capacity	[kW]	12.66	17.7	23.88
ErP Level (35°C)		A+++	A+++	A+++
SCOP (35°C)		4.62	4.68	4.5
ErP Level (55°C)		A++	A++	A++
SCOP (55°C)		3.19		3.72
Max. Input Current	[A]	18	8	12
Power Supply		220-240V/1/50Hz	380-415V/3/50Hz	380-415V/3/50Hz
<b>Included Services</b>				
Free Remote On-Line Monitoring & troubleshooting Service	[Year]	1	1	1
Max. Warranty (extended)	[Year]	5	5	5
<b>Included Components</b>				
DC Water Pump		Yes	Yes	Yes
Expansion Tank		Yes	Yes	Yes
Backup Electrical Heater (Optional)	[kW]	3	3	3
<b>Technical Data</b>				
Ambient Temperature: 7°C; Water Temperature: 35°C				
Capacity Range	[kW]	4.00-12.66	8.00-15.30	8.65-23.88
Rated Capacity	[kW]	9.1	12.5	18.1
Input Power Range	[kW]	0.90-3.15	1.75-3.52	1.80-5.25
Rated COP		4.31	4.41	4.33
Ambient Temperature: 35°C; Water Temperature: 7°C				
Capacity Range	[kW]	3.20-7.74	5.38-12.15	5.70-15.57
Rated Capacity	[kW]	6.4	9.7	12.4
Input Power Range	[kW]	1.05-3.50	2.03-4.65	1.80-7.00
Rated EER		2.41	2.51	2.54
Ambient Temperature: 20°C; Water Temperature: 15-55°C				
Capacity Range	[kW]	4.20-10.13	9.20-13.27	9.58-25.64
Rated Capacity	[kW]	10.2	13.0	22.8
Input Power Range	[kW]	0.87-2.38	1.92-2.83	1.97-6.75
Rated COP		4.34	4.31	4.54
<b>Noise Level</b>				
Sound Pressure (1m)	[dB(A)]	48	50	57
<b>Hydronic</b>				
Rated Water Flow Rate	[m³/hr]	1.5	2.0	3.0
<b>Refrigerant</b>				
Type/GWP			R32/675	
Charged Volume	[kg]	2.2	2.2	2.8
<b>Operation Range</b>				
Ambient Temperature	[°C]	-25-43	-25-43	-25-43
<b>Configuration</b>				
Water Outlet Temperature Range	[°C]	30-55	30-55	30-55
Max. Outlet Water Temperature	[°C]	60	60	60
<b>Compressor</b>				
Type			EVI Twin rotary DC inverter	
Enhancement		EVI	EVI	EVI
Brand		Panasonic	Panasonic	Panasonic
<b>Fan</b>				
Motor Type			Brushless DC	
<b>Water Pump</b>				
Type			DC Inverter	
<b>Controller</b>				
Wire Controller		4.3' LCD	4.3' LCD	4.3' LCD
Multiple Language		Yes	Yes	Yes
Wireless Controll		WiFi	WiFi	WiFi
<b>Expansion tank</b>				
Volume	[L]	2	2	5
<b>Piping Connections</b>				
Piping Connections Inlet		DN25	DN25	DN25
Piping Connections Outlet		DN25	DN25	DN25
<b>Packing</b>				
Dimensions (L×W×H)	[mm]	1310×500×892	1310×500×892	1310×500×1400
Packing Dimensions (L×W×H)	[mm]	1380×570×1030	1380×570×1030	1380×570×1560
Net Wt.	[kg]	100	115	125
Gross Wt.	[kg]	148	148	185
Remarks: Test condition: according to EN14511				