



HEAT PUMPS HERO







Sendo in Japanese means freshness, and that was our basic inspiration to start working on our dream. The challenge was one from the beginning: how to bring this freshness into your home and workplace. Today Sendo changes the quality of the air that we live in and breathe. Using innovative technology, Sendo's products offers you unique value solutions providing superior air quality to your everyday life.



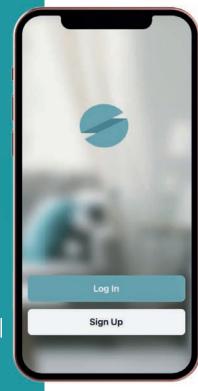
Sendo gives you quality in your life.

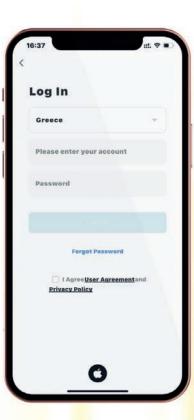
SPECIAL FEATURES

SENDO SMART APP

Google assistant & Alexa AC control

New Warranty
Activation Procedure:
Scan – insert serial
number – activate





With the new, updated Sendo Smart App, the home control of air conditioning is possible from anywhere. The application gives the advantage to control multiple devices, set a timer to start or stop your AC units and perform all actions a remote control can do. Easy to use and connect to all Sendo devices, this app is turning every space into a smart home. Download Sendo Smart App free from Google Play or App Store.



VOICE CONTROL



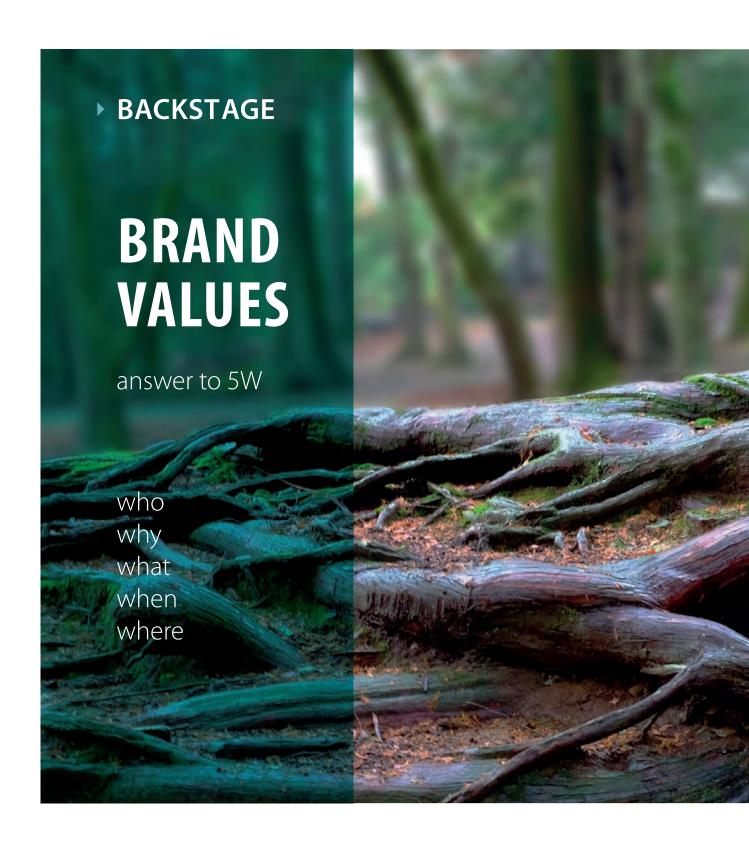












Sendo's "5W" have long been answered (1.who - 2.why - 3. what - 4.when - 5.where). These 5 brand values are the values that preceded. They are the roots we have created to offer respect to you, the environment and the well-being you deserve! The tree is growing!









WELLNESS & HEALTHY LIVING



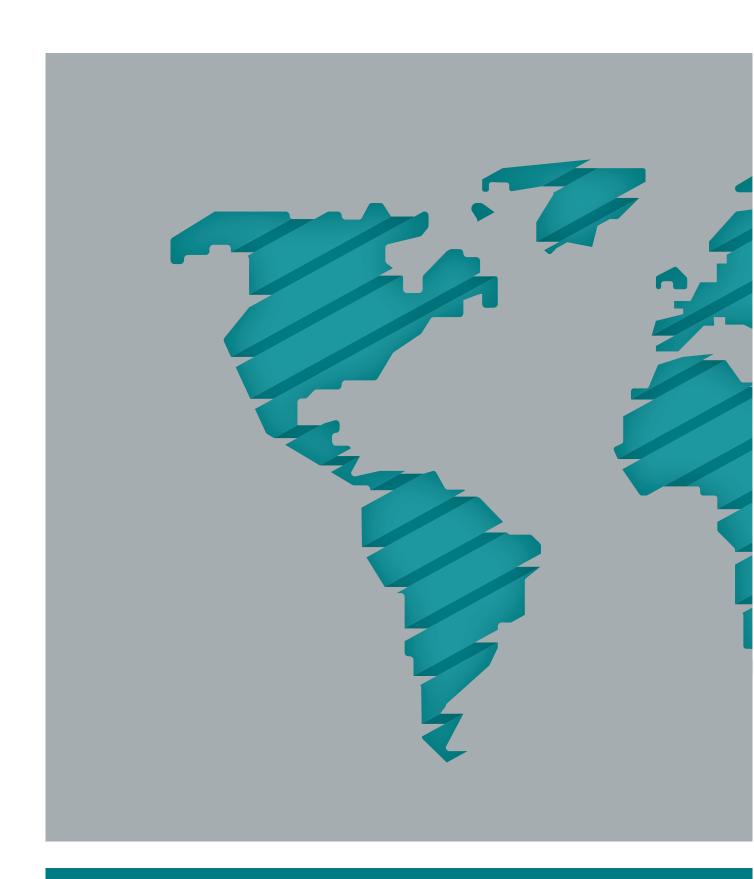
UNIQUE CUSTOMER INSPIRED EXPERIENCE



BY NATURE



PRODUCT EFFICIENCY



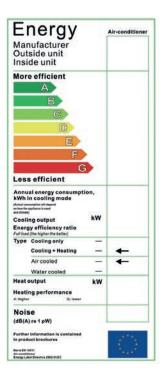
A world of solutions!



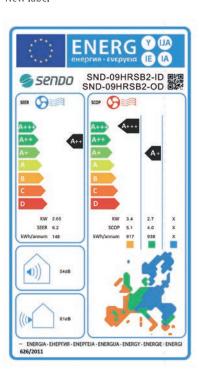
ENERGY LABEL

ENERGY SAVING

Old label



New label



New Requirement for Energy Marking (EU) 626/2011

Three climatic zones for heating (The middle zone is necessary, while the hot and cold zones are optional).

Seasonal performance (performance based on multiple partial load calculations). Sound power level.

The nominal performance concerns only one nominal condition.

Seasonal performance concerns a whole heating and cooling period and indicates more accurately the actual operation.

ENERGY CLASSES					
Energy Efficiency Class	SEER	SCOP			
A+++	SEER ≥ 8,50	SCOP ≥ 5,10			
A++	6,10 ≤ SEER < 8,50	4,60 ≤ SCOP < 5,10			
A+	5,60 ≤ SEER < 6,10	4,00 ≤ SCOP < 4,60			
A	5,10 ≤ SEER < 5,60	3,40 ≤ SCOP < 4,00			
В	4,60 ≤ SEER < 5,10	$3,10 \le SCOP < 3,40$			
C	4,10 ≤ SEER < 4,60	2,80 ≤ SCOP < 3,10			
D	3,60 ≤ SEER < 4,10	2,50 ≤ SCOP < 2,80			
E	3,10 ≤ SEER < 3,60	2,20 ≤ SCOP < 2,50			
F	2,60 ≤ SEER < 3,10	1,90 ≤ SCOP < 2,20			
G	SEER < 2,60	SCOP < 1,90			

	R22	R410A	R32
ODP	0,05	0	0
GWP	1700	2088	675
Toxicity	Non-toxic	Non-toxic	Non-toxic
Flammability	A1	A1	A2
Availability	High	High	High
С	1,0	0,8	0,56

More eco-friendly

The global warming coefficient of the refrigerant R32 is equal to 1/3 of the R410A. Compared to the traditional R410A, the R32 is more environmentally friendly. It is a one-component refrigerant and is thus easier to manage and recycle.

Higher efficiency

Under the same conditions and operating frequency of the compressor, R32's cooling efficiency and energy efficiency is about 5% higher than R410A's. Therefore, R32 products are more energy efficient.

Smaller filling volume

Compared to R410A and R22, refrigerant R32 requires a smaller filling volume.

The F-Gas European regulation (517/2014) has been in force since 1st January 2015 and will progressively cease the use of hydrofluorocarbons (HFCs) in future cooling and heating systems. Sendo already offers a new cooling and heating system that operates with R32 refrigerant, which will be the alternative to the R410A in the coming years.





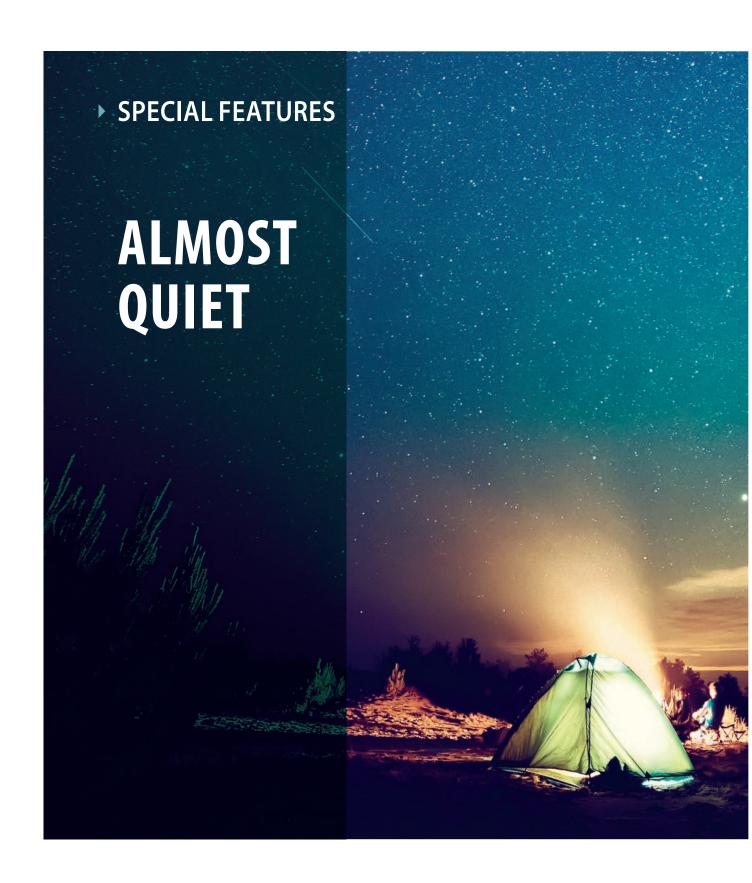




Function mark icon The golden hydrophilic fin can improve heating efficiency as it accelerates the process of defrosting. The unique anti-corrosion gold coating on the condenser can withstand rain, sea air and other corrosive environments.

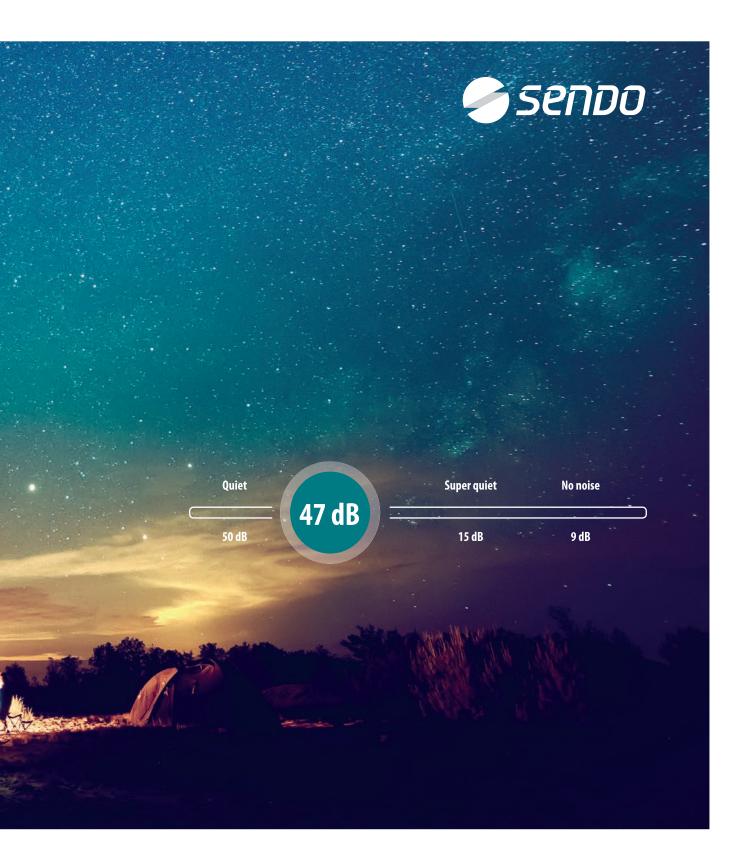






noise reduction technology

SENDO created super quiet running environment for its products





DC Inverter

circulation

water pump



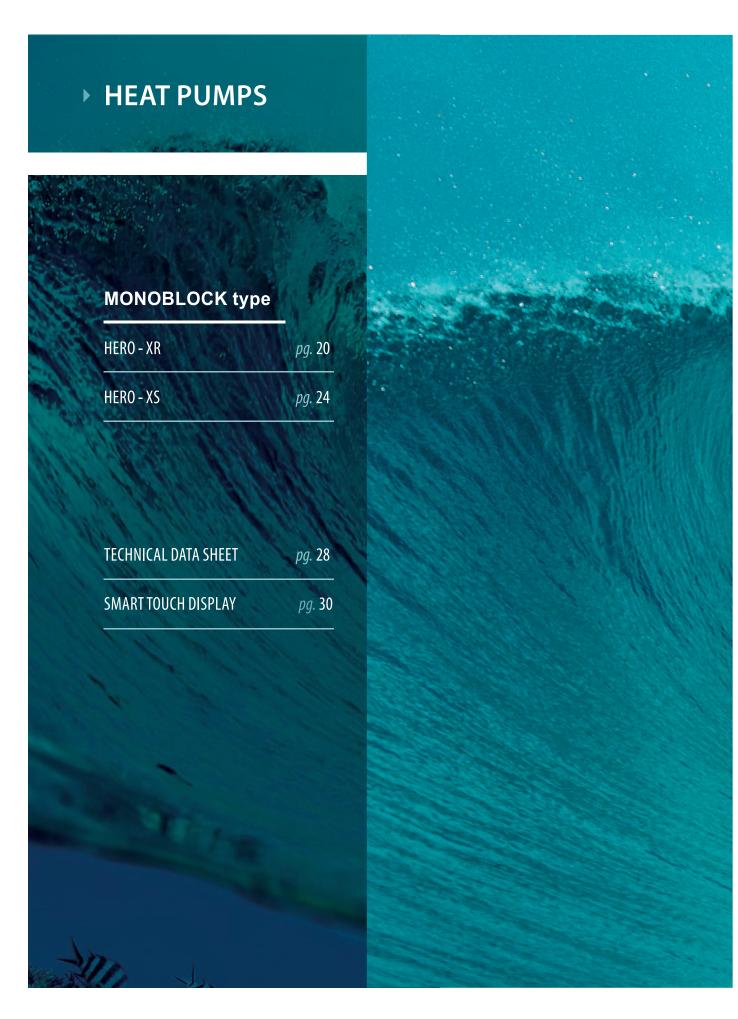




High quality sound absorbing material



High efficiency hot refrigerant gas silencer







HEAT PUMPS







Heating - Cooling & DHW



Integrated circulator



gauge



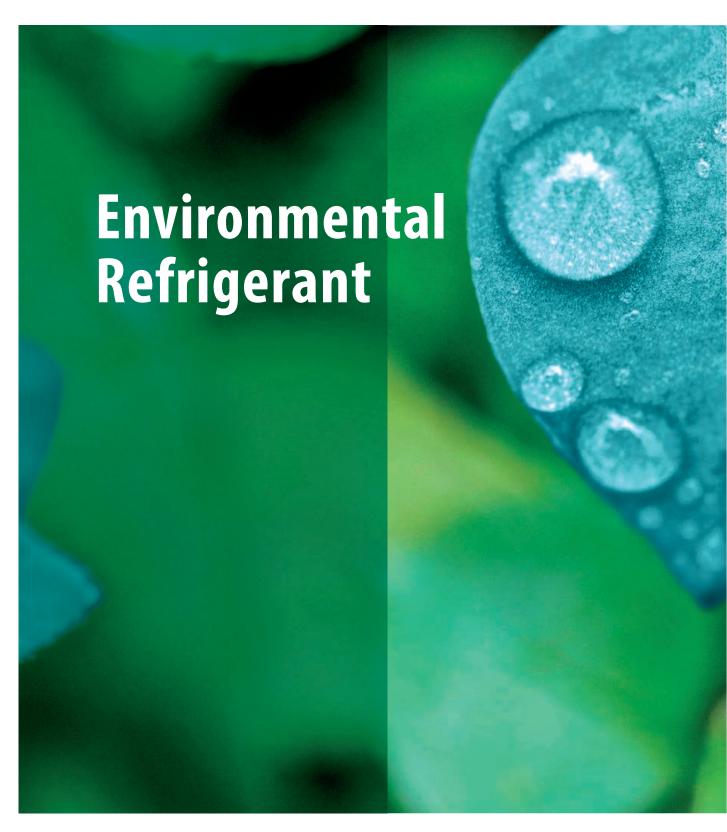
Smart Touch Display





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HEATPUMPS





R290 refrigerant recognized as a refrigerant with the most development potential in the industry



HERO XS Air to water heat pump is developed with the most cutting edge technology and design to meet the most high efficiency requirements performance and quietness HERO XS use R290 green gas and full inverter technology capable to meet the A+++ energy efficiency rating offering low energy consumption to the users

HEAT PUMPS









8KW - 22KW

Heating - Cooling & DHW



Integrated circulator



gauge



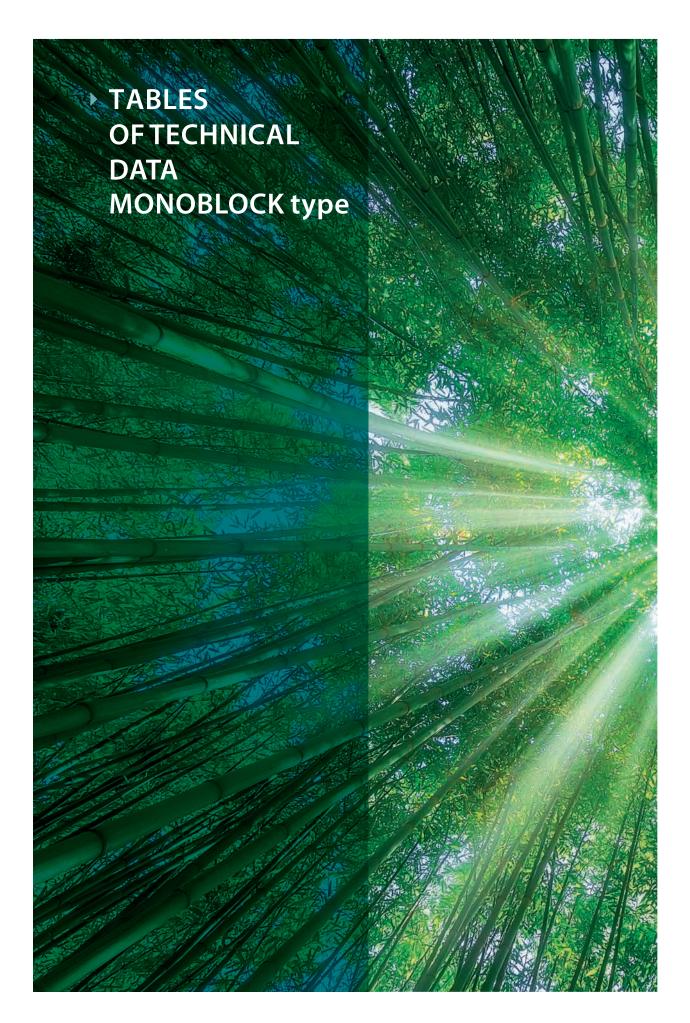
Smart Touch Display

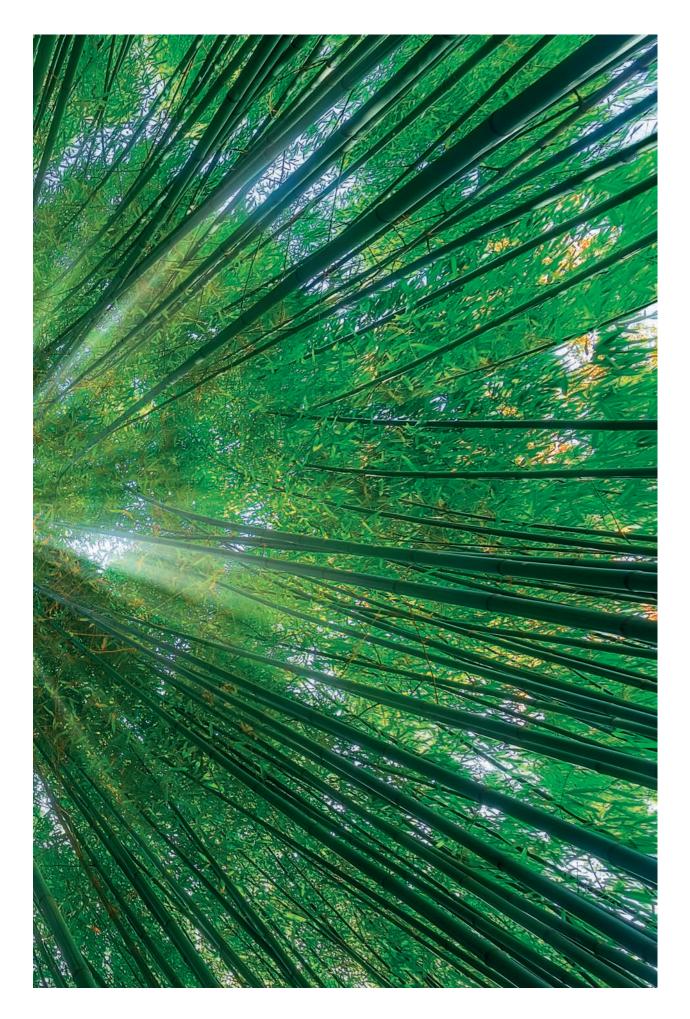




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HEATPUMPS









DC Inverter Heat Pump for cooling heating and DHW (R32)

Heating Condition - Ambient Temp. DB/WB) : 7/6°C, Water Temp. (In/Out) : 30/35°C	De inverter rieutr ump for cooming meaning and Brive (No2)							
Heating Capacity Range (Rwy)	Model	SHP-08HXRP1	SHP-013HXRP1	SHP-018HXRP1	SHP-013HXRP3	SHP-018HXRP3	SHP-023HXRP3	
Maxing Power Input Range 0.37~1.97 0.95~3.12 1.28~4.26 0.95~3.12 1.28~4.26 1.61~5.38	Heating Condition - Ambient Temp. DB/WB): 7/6°C,Water Temp. (In/Out):30/35°C							
COP Range		1.57~8.40	4.40~13.00	5.9~18.2	4.40~13.00	5.9~18.2	7.5~23.0	
DHW Condition-Ambient Temp. (DB/WB): 7/6°C, Water Temp. (In/Out): 15/55°C Heating Capacity Range (IA)		0.37~1.97	0.95~3.12	1.28~4.26	0.95~3.12	1.28~4.26	1.61~5.38	
Heating Capacity Range (IkW)	COP Range	4.26~4.24	4.17~4.63	4.27~4.61	4.17~4.63	4.27~4.61	4.28~4.66	
	DHW Condition-Ambie	ent Temp. (DB	/WB): 7/6°C,	Water Temp. (In	n/Out) : 15/55°C			
COP Range		1.28~6.81	3.52~10.50	4.80~14.72	3.52~10.50	4.80~14.72	6.1~18.5	
Cooling Condition - Ambient Temp. (DB/WB) :35/24°C. Water Temp. (In/Out) : 12/7°C Cooling Capacity Range (W) 0.99-6.22 2.80~8.20 3.81~11.53 2.80~8.20 3.81~11.53 4.73~14.6 Cooling Power Input Range(kW) 0.34~2.28 0.90~3.41 1.19~4.20 0.90~3.41 1.19~4.20 1.47~5.29 EER Range 2.73~2.91 2.40~3.11 2.75~3.20 2.40~3.11 2.75~3.20 2.76~3.22 ErP Level (35°C) A+++ A+++ A+++ A+++ A++		0.36~2.23	0.93~3.49	1.25~4.75	0.93~3.49	1.25~4.75	1.61~6.12	
Cooling Capacity Range (kW) 0.99~6.22 2.80~8.20 3.81~11.53 2.80~8.20 3.81~11.53 4.73~14.6 Cooling Power Input Range(kW) 0.34~2.28 0.90~3.41 1.19~4.20 0.90~3.41 1.19~4.20 1.47~5.29 EER Range 2.73~2.91 2.40~3.11 2.75~3.20 2.40~3.11 2.75~3.20 2.76~3.22 ErP Level (35°C) A+++	COP Range	3.05~3.56	3.01~3.78	3.10~3.84	3.01~3.78	3.10~3.84	3.02~3.79	
Cooling Power Input Range(kW) 0.34~2.28 0.90~3.41 1.19~4.20 0.90~3.41 1.19~4.20 1.47~5.29 EER Range 2.73~2.91 2.40~3.11 2.75~3.20 2.40~3.11 2.75~3.20 2.76~3.22 EFP Level (35°C) A+++ A+++ A+++ A+++ A++	Cooling Condition - An	nbient Temp.(DB/WB) :35/2	24°C, Water Ten	np. (In/Out) : 12	//7°C		
Range(kW) 0.34-2.26 0.90-3.41 1.19-4.20 0.90-3.41 1.19-4.20 1.47-3.29 1.47-3.29 EER Range 2.73-2.91 2.40-3.11 2.75-3.20 2.40-3.11 2.75-3.20 2.76-3.22 ErP Level (35°C) A++		0.99~6.22	2.80~8.20	3.81~11.53	2.80~8.20	3.81~11.53	4.73~14.6	
ErP Level (35°C) A+++ A+++ <th>Cooling Power Input Range(kW)</th> <td>0.34~2.28</td> <td>0.90~3.41</td> <td>1.19~4.20</td> <td>0.90~3.41</td> <td>1.19~4.20</td> <td>1.47~5.29</td>	Cooling Power Input Range(kW)	0.34~2.28	0.90~3.41	1.19~4.20	0.90~3.41	1.19~4.20	1.47~5.29	
ErP Level (55°C) A++	EER Range	2.73~2.91	2.40~3.11	2.75~3.20	2.40~3.11	2.75~3.20	2.76~3.22	
Power supply 230V/1Ph/50Hz/60Hz 380V/3Ph/50-60Hz Diameter of pipe (mm) DN25 DN25 DN25 DN25 DN25 Water Flow(m3/h) 1,5 2,2 3,2 2,2 3,2 3,9 Water Pressure Drop (max) kPa 30 35 40 35 40 45 Water pump (m) 9 9 12 9 12 12 Noise dB(A) ≤53 ≤55 ≤57 ≤55 ≤57 ≤58 Net Weight (kg) 105 115 160 115 160 165 Net Dimension (L/W/H) mm 970×475×820 1100×475×970 1050×480×1380 1100×475×970 1050×480×1380 1050×480×1380 Operating water Temp. (°C) 20~55°C (DHW)	ErP Level (35°C)	A+++	A+++	A+++	A+++	A+++	A+++	
Diameter of pipe (mm) DN25 DN25 DN25 DN25 DN25 Water Flow(m3/h) 1,5 2,2 3,2 2,2 3,2 3,9 Water Pressure Drop (max) kPa 30 35 40 35 40 45 Water pump (m) 9 9 12 9 12 12 Noise dB(A) ≤53 ≤55 ≤57 ≤55 ≤57 ≤58 Net Weight (kg) 105 115 160 115 160 165 Net Dimension (L/W/H) mm 970×475×820 1100×475×970 1050×480×1380 1100×475×970 1050×480×1380 1050×480×1380 1050×480×1380 Operation Ambient Temp (°C) 20~55°C (DHW) 20~50°C (Heating)	ErP Level (55°C)	A++	A++	A++	A++	A++	A++	
Water Flow(m3/h) 1,5 2,2 3,2 2,2 3,2 3,9 Water Pressure Drop (max) kPa 30 35 40 35 40 45 Water pump (m) 9 9 12 9 12 12 Noise dB(A) ≤53 ≤55 ≤57 ≤55 ≤57 ≤58 Net Weight (kg) 105 115 160 115 160 165 Net Dimension (L/W/H) mm 970×475×820 1100×475×970 1050×480×1380 1100×475×970 1050×480×1380 1050×480×1380 Operating water Temp. (°C) 20~55°C (DHW) 20~55°C (DHW)	Power supply	230V/1Ph/50Hz/60Hz			380V/3Ph/50-60Hz			
Water Pressure Drop (max) kPa 30 35 40 35 40 45 Water pump (m) 9 9 12 9 12 12 Noise dB(A) ≤53 ≤55 ≤57 ≤55 ≤57 ≤58 Net Weight (kg) 105 115 160 115 160 165 Net Dimension (L/W/H) mm 970×475×820 1100×475×970 1050×480×1380 1100×475×970 1050×480×1380 1050×480×1380 Operation Ambient Temp (°C) -30~43°C Operating water Temp. (°C) 20~55°C (DHW)	Diameter of pipe (mm)	DN25	DN25	DN25	DN25	DN25	DN25	
(max) kPa 30 33 40 43 Water pump (m) 9 9 12 9 12 12 Noise dB(A) ≤53 ≤55 ≤57 ≤55 ≤57 ≤58 Net Weight (kg) 105 115 160 115 160 165 Net Dimension (L/W/H) mm 970×475×820 1100×475×970 1050×480×1380 1100×475×970 1050×480×1380 1050×480×1380 Operation Ambient Temp (°C) 20~55°C (DHW) Operating water Temp. (°C) 20~50°C (Heating)	Water Flow(m3/h)	1,5	2,2	3,2	2,2	3,2	3,9	
Noise dB(A) ≤53 ≤55 ≤57 ≤55 ≤57 ≤58 Net Weight (kg) 105 115 160 115 160 165 Net Dimension (L/W/H) mm 970×475×820 1100×475×970 1050×480×1380 1100×475×970 1050×480×1380 1050×480×1380 Operation Ambient Temp (°C) 20~55°C (DHW) 20~55°C (DHW) Operating water Temp. (°C) 20~50°C (Heating) (Heating)	•	30	35	40	35	40	45	
Net Weight (kg) 105 115 160 115 160 165 Net Dimension (L/W/H) mm 970×475×820 1100×475×970 1050×480×1380 1100×475×970 1050×480×1380 1050×480×1380 Operation Ambient Temp (°C) -30~43°C Operating water Temp. (°C) 20~55°C (DHW) Operating water Temp. (°C)	Water pump (m)	9	9	12	9	12	12	
Net Dimension (L/W/H) mm 970×475×820 1100×475×970 1050×480×1380 1100×475×970 1050×480×1380 1050×480×1380 Operation Ambient Temp (°C) -30~43°C Operating water Temp. (°C) 20~55°C (DHW) Operating water Temp. (°C) 20~50°C (Heating)	Noise dB(A)	≤53	≤55	≤57	≤55	≤57	≤58	
Operation Ambient Temp (°C) Operating water Temp. (°C)	Net Weight (kg)	105	115	160	115	160	165	
Operation Ambient Temp (°C) Operating water Temp. (°C)	,	970×475×820	1100×475×970	1050×480×1380	1100×475×970	1050×480×1380	1050×480×1380	
Operating water Temp. (°C) Operating water Temp. (°C) 20~55°C (DHW) 20~50°C (Heating)	Operation Ambient Temp	-30~43°C						
Operating water Temp. (°C) 20~50°C (Heating)	Operating water Temp.	20~55°C (DHW)						
O	Operating water Temp.	20~50°C (Heating)						
(°C) 7~35°C (Cooling)	Operating water Temp.	7~35°C (Cooling)						

Specifications are subject to change without prior notification













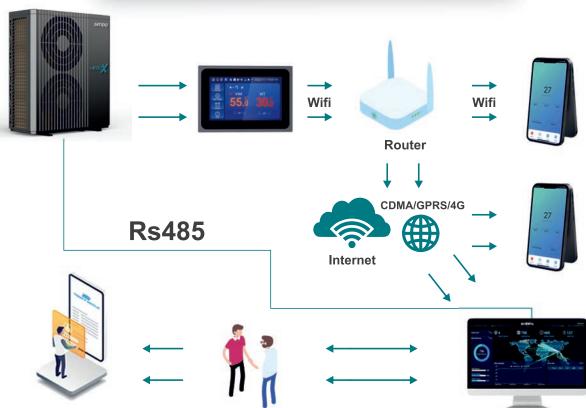
DC Inverter Heat Pump for cooling heating and DHW (R290)

Model	SHP-08HXSP1	SHP-011HXSP1	SHP-014HXSP1	SHP-014HXSP3	SHP-022HXSP3		
Heating Condition - Ambient Temp. DB/WB): 7/6°C, Water Temp. (In/Out): 30°C/35°C Heating Capacity Range 3.2.9.2 45.11.4 5.0.14.9 5.0.14.9 5.0.14.9 8.2.22.0							
(kW)	3.3~8.3	4.5~11.4	5.9~14.8	5.9~14.8	8.8~22.0		
Heating Power Input Range (kW)	0.64~2.18	0.85~2.95	1.13~3.83	1.13~3.83	1.68~5.77		
COP Range	3.81~5.17	3.86~5.29 3.86~5.22		3.86~5.22	3.81~5.24		
DHW Condition-Ambient T	emp. (DB/WB) :	7/6°C, Water To	emp. (In/Out) : 15°	°C/55°C			
Heating Capacity Range (kW)	2.4~5.8	3.3~8.2	4.3~10.8	4.3~10.8	6.2~15.3		
Heating Power Input Range. (kW)	0.79~2.19	1.08~3.07	1.39~3.99	1.39~3.99	1.99~5.60		
COP Range	2.65~3.04	2.67~3.06	2.71~3.10	2.71~3.10	2.73~3.12		
Cooling Condition - Ambient Temp. (DB/WB) :12/7°C, Water Temp. (In/Out) : 35°C/24°C							
Cooling Capacity Range (kW)	2.4~5.8	3.3~8.2	4.3~10.8	4.3~10.8	6.2~15.3		
Cooling Power Input Range(kW)	0.79~2.19	1.08~3.07	1.39~3.99	1.39~3.99	1.99~5.60		
EER Range	2.65~3.04	2.67~3.06	2.71~3.10	2.71~3.10	2.73~3.12		
ErP Level (35°C)	A+++	A+++	A+++	A+++	A+++		
Refrigerant	R290	R290	R290	R290	R290		
Power supply	2	1/50-60Hz					
Diameter of pipe (mm)	DN25	DN25	DN25	DN25	DN25		
Water Flow(m3/h)	1,5	2,2	3,2	2,2	3,2		
Water Pressure Drop (max) kPa	30	35	40	35	40		
Water pump (m)	9	9	12	9	12		
Noise dB(A)	≤47	≤50	≤52	≤50	≤52		
Net Weight (kg)	106	115	160	115	160		
Net Dimension (L/W/H) mm	1080×460×820	1080×460×960	1080×480×1060	1080×480×1060	1080×480×1372		
Operation Ambient Temp (°C)	-25~43°C						
Operating water Temp (°C)	20~65°C (DHW)						
Operating water Temp. (°C)	20~70°C (Heating)						
Operating water Temp. (°C)	7~35°C (Cooling)						

Specifications are subject to change without prior notification

SMART TOUCH DISPLAY&SENDO Smart App Control









01. ON/OFF

Air conditioner activation & deactivation.



02. MODEOperating mode

selection.



03.TIMER

Start / end timer.



07. HEAT

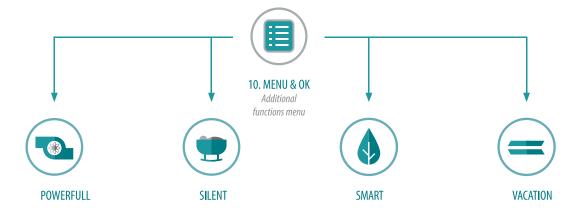
Heating mode selection.



08. COOL *Cooling mode selection.*



09. DHW *Temperature adjustment.*





The products characteristics described in the list may change without prior notice in our effort for continuous improvement.

The company has no responsibility for any typographical errors.



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