SHEEN PRO

Air-cooled reversible heat pump for outdoor installation
Capacity from 25 to 55 kW

Heat pump | Air cooled | Outdoor installation | R-290 | Hermetic Scroll | Full inverter | Electronic expansion valve | INTELLIPLANT | Compliant ErP

- ✓ Ideal for replacing fossil fuel generators, with hot water production up to 77°C and stable heating capacity even in harsh climates
- ✓ Application flexibility resulting from the wide heating operating range, guaranteed down to -25°C outdoor temperature
- ✓ High seasonal efficiency in both low and medium temperature applications, enabling consumption optimisation (SCOP up to 4.71 and SEER up to 5.10; ErP energy efficiency class up to A+++)
- ✓ Simplified installation: the reduced refrigerant charge (no more than 5 kg per circuit) facilitates compliance with the installation constraints required for A3 fluids (propane).
- ✓ DHW production management using dedicated control logic and integrated accessories (3-way valve)

Versions and configurations

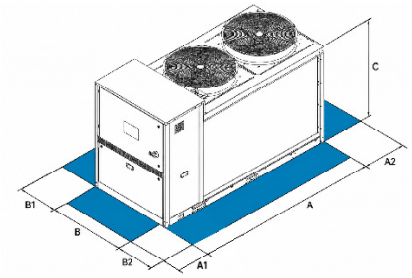
TYPE OF FANS:

VENDC DC high efficiency fan (Standard)

ACOUSTIC CONFIGURATION:

SC Acoustic configuration with compressor soundproofing (Standard)

Dimensions and connections



Size		WiSAN-PSE1	10.1	14.1	20.1	25.1
SC-EXC	A - Length	mm	2052	2052	2481	2481
SC-EXC	B - Width	mm	1082	1082	1082	1082
SC-EXC	C - Height	mm	1557	1557	1557	1557
SC-EXC	A1	mm	1050	1050	1050	1050
SC-EXC	A2	mm	800	800	800	800
SC-EXC	B1	mm	800	800	800	800
SC-EXC	B2	mm	800	800	800	800
SC-EXC	Operating weight	kg	490	490	637	637

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

Technical data

Size		WiSAN-PSE1	10.1	14.1	20.1	25.1
Cooling capacity (EN 14511:2022)	(1)	kW	25,0	30,0	45,0	55,0
Total power input (EN 14511:2022)	(1)	kW	7,48	11,0	14,8	19,4
EER (EN 14511:2022)	(1)	-	3,34	2,73	3,03	2,83
SEER	(4)	-	4,71	4,62	5,10	4,99
$\eta_{s,c}$	(4)	%	185	182	201	197
Heating capacity (EN 14511:2022)	(2)	kW	26,0	34,0	52,0	59,0
Total power input (EN 14511:2022)	(2)	kW	7,54	10,0	15,1	18,1
COP (EN 14511:2022)	(2)	-	3,45	3,40	3,46	3,27
Heating capacity (EN 14511:2022)	(3)		25,3	31,4	49,5	59,0
Total power input (EN 14511:2022)	(3)		8,47	10,9	17,5	21,6
COP (EN 14511:2022)	(3)		2,99	2,87	2,82	2,73
Refrigeration circuits		Nr	1			
No. of compressors		Nr	1			
Type of compressors		-	Scroll Inverter			
No. of fans			1		2	
Refrigerant		-	R-290			
Standard power supply		V	400/3/50+N			
Directive ErP (Energy Related Products)						
ErP Energy Class - AVERAGE Climate - W35		-	+++A	+++A	+++A	++A
ErP Energy Class - AVERAGE Climate - W35		-	++A	++A	++A	++A
SCOP - AVERAGE Climate - W35	(4)	-	4,71	4,67	4,48	4,41
$\eta_{s,H}$	(4)	%	185	184	176	173
SCOP - AVERAGE Climate - W55	(4)	-	3,5	3,46	3,52	3,49
$\eta_{s,H}$	(4)	%	137	135	138	137

(1) Data calculated in compliance with Standard EN 14511:2022 referred to the following conditions: Internal exchanger water temperature = 12/7°C; Outdoor heat exchanger inlet air temperature = 35°C
(2) Data calculated in compliance with Standard EN 14511:2022 referred to the following conditions: Internal exchanger water temperature = 40/45°C; Outdoor heat exchanger inlet air temperature 7 D.B. /6 (°C) W.B.
(3) Data calculated in compliance with Standard EN 14511:2022 referred to the following conditions: Internal exchanger water temperature = 47/55°C; Outdoor heat exchanger inlet air temperature 7 D.B. /6 (°C) W.B.

(4) 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).

Accessories

HYGU1	User side hydronic assembly with 1 on/off pump
1+1HYGU1	User side hydronic assembly with 1+1 on/off pump
HYGU1V	User side hydronic assembly with 1 integrated inverter pump
1+1HYGU1V	User side hydronic assembly with 1+1 integrated inverter pump
ACC	Storage tank
IFWX	Water-side steel mesh strainer
IFWI	Water-side steel mesh strainer (included in the packaging)
PGFC	Finned coil protective grilles
PGFCX	Finned coil protective grilles (supplied separately)
PGCCH	Hail protection grilles
PGCCHX	Hail protection grilles (supplied separately)
TCDC	Condensate drain pan with integrated electric heater
CMSC13X	Serial communication module for Modbus TCP/IP, BACnet IP, BACnet MSTP supervisor
ENEMON	Energy monitoring via HMI and Modbus
VACS	DHW switching valve
VACSX	DHW switching valve (supplied separately)
AVIBX	Anti-vibration mount support
AMMSX	Spring anti-seismic antivibration mount support
DBEX	Degasser
DMEX	Medium-efficiency degasser
DAEX	High-efficiency degasser
IOTI	IoT industrial module for cloud based interoperability & services

Data contained in this document are not binding and may be changed by the Manufacturer without notice