

SANLUCA

Energy saving global sharing

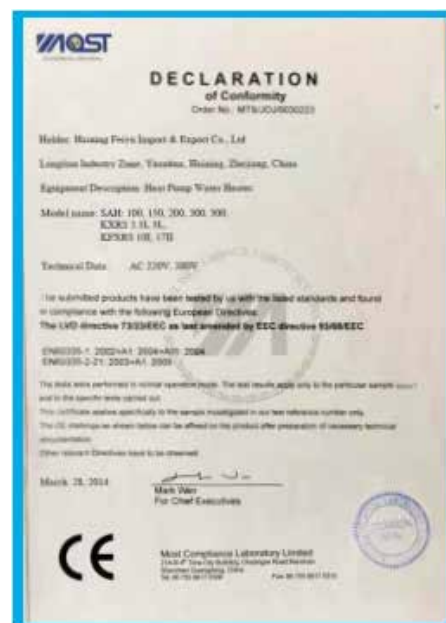


RESIDENTIAL – AIR SOURCE HEATPUMP
COMMERCIAL – AIR SOURCE HEATPUMP
HEATPUMP FOR SWIMMING POOL
INVERTER - SWIMMING POOL HEATPUMP
HEATPUMP DRYER

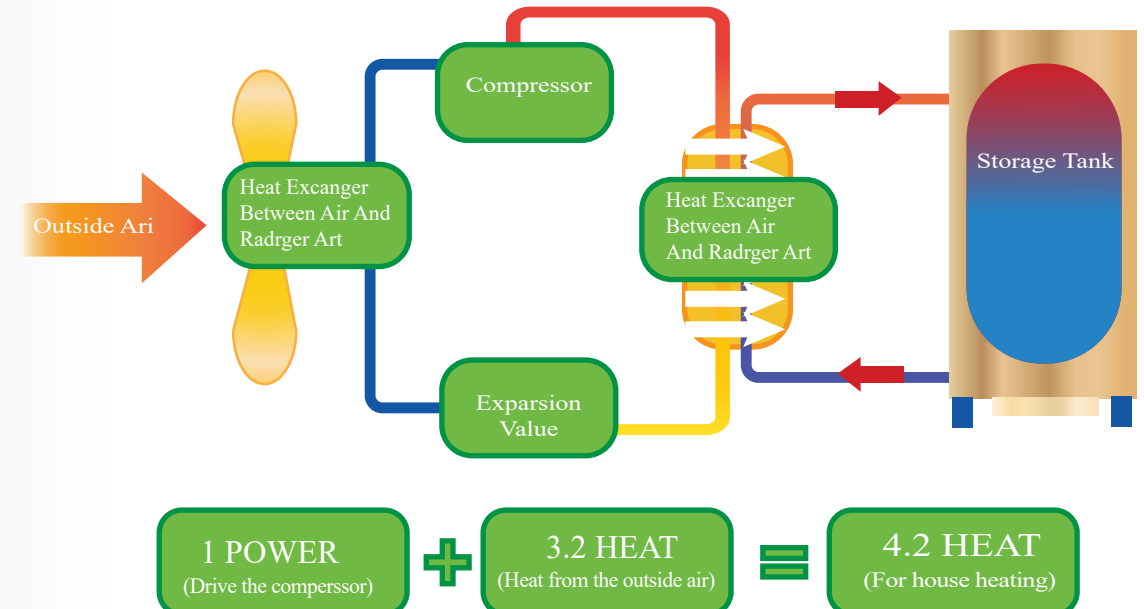




QUALIFICATION CERTIFICATES

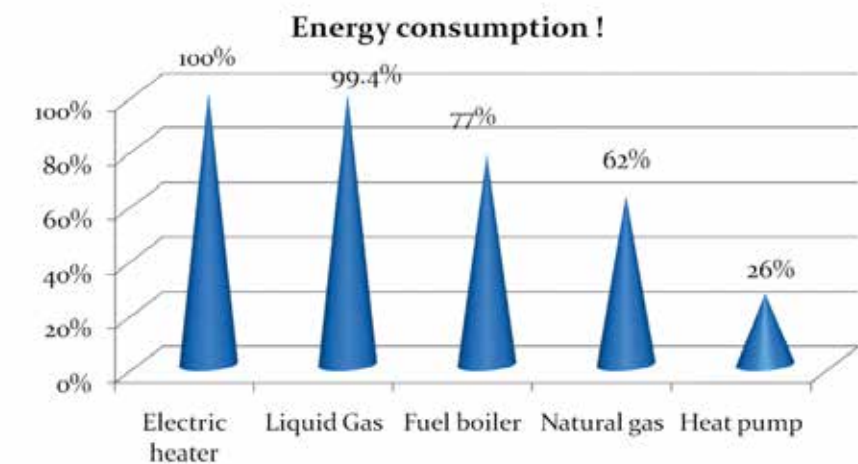


HEAT PUMP WORKING PRINCIPLE



Heat pump water Heater extracts energy from the air and uses it to heat water. It uses 1 time power to drive the compressor and brings 4.2 times Heat to the water. This is what we called Coefficient of Performance (COP). With COP up to 4.2, It saves energy as high as 75%

COMPARISION OF ENERGY SAVING



Heating type	Calorie of energy	Energy/ perfor Mance ratio	Unit pice	Requied energy (Per ton wate)	Requied cost (Per ton wate)	All year coat (10 ton water per day)	Labor cost	Converage	Openraton cost Annual
Coal boiler	4000Kcal/kg	40%	\$0.08/kg	25.10kg	\$2.32	\$7513	\$5128	20M'	\$12641
Oil boiler	8429Kcal/kg	80%	\$0.6/l	6.40l	\$3.84	\$14012	\$5128	20M'	\$19141
Liquefied gas	10800Kcal/kg	73%	\$0.85/kg	5.30kg	\$4.48	'g16371	\$2564	10M'	\$18936
Solar electric Heating	860Kcal/Kwh	85%	\$0.09/Kwh	51.6Kwh	\$1.92	\$7026	NO	150m	\$7026
Electric boiler	860Kcal/Kwh	90%	\$0.09/Kwh	51.6Kwh	\$4.63	\$13487	NO	10-15M'	\$13487
HSTRONG	860Kcal/Kwh	400%	\$0.09/Kwh	13Kwh	\$1.17	\$4256	NO	3-10M'	\$4256

PRATICAL,COST-EFFECTIVE
SOLUTIONS FOR A SUSTAINABLE
ENERGY FUTURE.



RESIDENTIAL AIR SOURCE HEATPUMP



PRODUCT SHOWCASE

★ THE LATEST GENERATION WATER HEATER

The heat pump is using the principle of Reverse Carnot Cycle. It is the laster generation water heater after Coal/oil boiler, Gas water heater, Electric water heater and Solar water heater.

★ HIGH HEATING EFFCIENCY

The operating cost if the heat pump 1/4 of electric heater, 1/3 of gas heater and 1/3 of coal/oil boiler.

★ WATER AND ELECTRICITY ISOLATION TECHNOLOGIES

Heat pump's water heating process is transferring the heat pump from the refrigerant to the water, electricity is totally separated from water, avoiding the potential hazard of electric shock.

★ ECONOMIC AND DURIABLE

Sanluca is using worldwide famous components for guaranteeing the heat pump for space heating/cooling or sanitary hot water under different conditions. Totally labor free.

★ SPACE HEATIN/COOLING/SANITARY HOT WATER

The heat pump is able to provide space heating or cooling to different construction building and meanwhile offering Sanitary hot water for daily use.

★ ECONOMIC AND DURIABLE

Heat pump are using the environment refrigerant, such as R22/R417a and etc.

MODEL	SAH-200	SAH-300	SAH-500
Rated heating capacity	4.6kW	6.6kW	8.4kW
Rated Production capacity	108L/h	150L/h	193L/h
Rated input power (KW)	1.24	1.71	2.13
Rated input current	5.6A	7.8A	11.4A
Maximum input power (KW)	1.63	2.26	3.01
Maximum input current	7.4A	10.4A	14.6A
Rated water temperature	55°C	55°C	550C
The maximum Water temperature	60°C	60°C	600C
Rated voltage /Frequency	220V~/50Hz	220V~/50Hz	220V~/50Hz
Protection against electric shock Type	I Type	I Type	I Type
Use of water pressure range	< 0.7MPa	< 0.7MPa	< 0.7MPa
Maximum pressure of the exhaust side	2.8MPa	2.8MPa	2.8MPa
Suction side of the minimum operating voltage	0.05MPa	0.05MPa	0.05MPa
Weight	51kg	65kg	68kg
Dimensions (L x W x H)mm	850 x 350 x 580	910 x 415 x 840	910 x 415 x 840
Decibel	< 53dB(A)	< 56dB(A)	< 56dB(A)
Size and out of water	3/4"	3/4"	3/4"
Working ambient temperature rage	-15 ~ 43°C	-15 ~ 43°C	-15 ~ 43°C
Tank capacity	200l	300l	500l
Diameter and height of insulation(mm)	520x1543	580x1764	700x1835

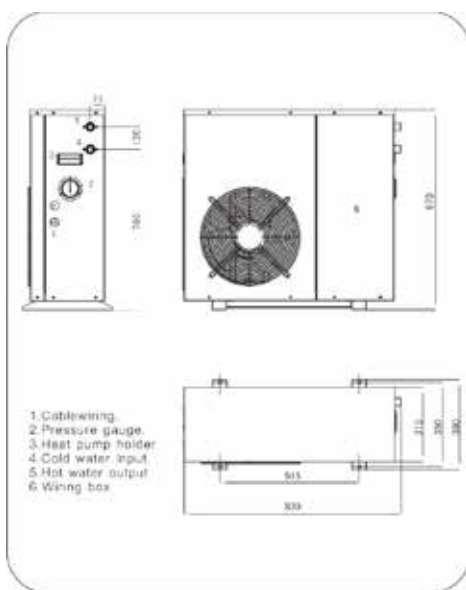
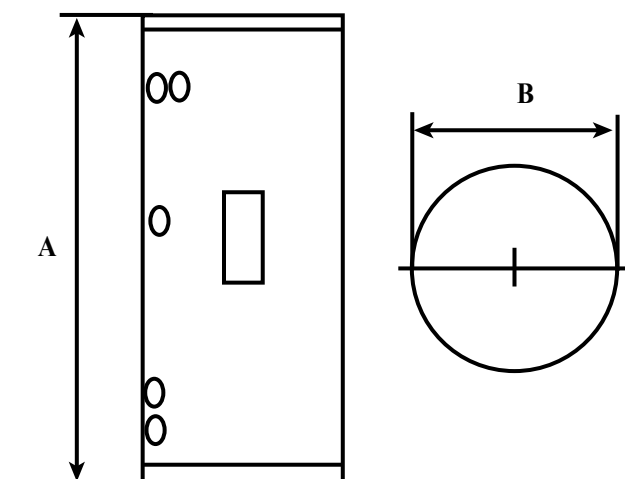
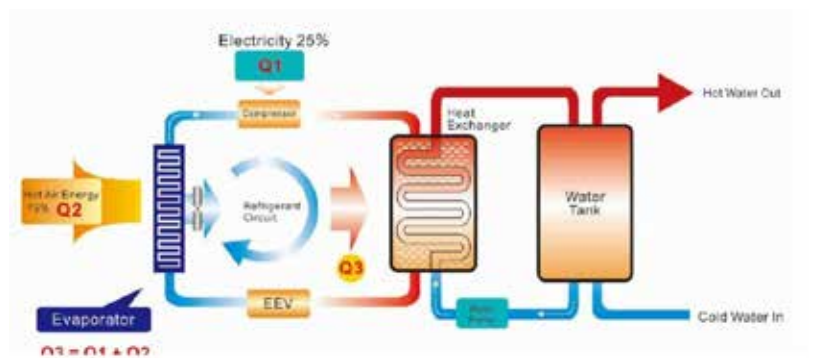
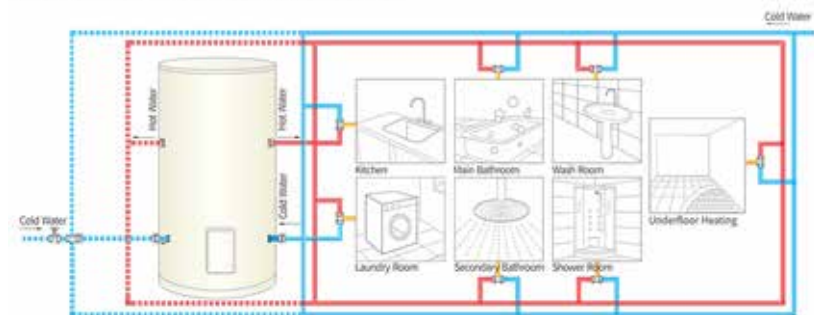


HIGH – EFFICIENCY HEAT PUMP TECHNOLOGY



- Panasonic or Copeland compressor
- Grundfos or Wilo circulation pump
- Emerson expansion valve, Saginomiya 4-way valve
- Directly connected to the water tank, easy for installing

HIGH-CAPACITY MULTIPLEX WATER SUPPLY



MODEL	SAH-10	SAH-17	SAH-28	SAH-36	SAH-45	SAH-67
Rated heating capacity	11.9kW	18.8kW	28kW	34.7kW	49.6kW	73.8kW
Rated Production capacity	253L/h	401L/h	580L/h	744L/h	1063L/h	1582L/h
Rated input power	2.85kW	4.45kW	6.9kW	8.16kW	11.95kW	17.66 kW
Rated input current	5.41A	8.45 A	13.1A	15.89A	20.91A	35.78A
Maximum input power	3.82kW	7.31kW	8.9kW	11.47kW	17.38kW	27.20kW
Maximum input current	6.41A	12.15A	16.9A	22.36A	29.53A	51.23A
Rated water temperature	55°C					
The maximum water temperature	60°C					
Condenser	Copper Pipe in steel Case heat Exchanger					
Defrosting	Included					
Intelligent Control	Use LCD display controller					
Refrigerant	R417a					
Compressor brand	Panasonic	Copeland				
Compressor QTY (Unit)	1	1	1	2	2	4
Fan QTY (Unit)	1	1	1	2	2	2
Rate voltage /Frequency	3N 380V~420V /50Hz	3N 380V~420V /50Hz	3N 380V~420V /50Hz	3N 380V~420V /50Hz	3N 380V~420V /50Hz	3N 380V~420V /50Hz
Protection against Electric shock type	I Type	I Type	I Type	I Type	I Type	I Type
Protection class	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4
Maximum pressure of the exhaust side	2.8MPa	2.8MPa	2.8MPa	2.8MPa	2.8MPa	2.8MPa
Minimum suction pressure side	0.05MPa	0.05MPa	0.05MPa	0.05MPa	0.05MPa	0.05MPa
Weight	145kg	150kg	180kg	350kg	450kg	500kg
Dimensions(mm)	Long	700mm	820mm	810mm	1502mm	1502mm
	Wide	680mm	695mm	810mm	750mm	750mm
	High	875mm	1060mm	1055mm	1060mm	1105mm
Interface Dimensions	DN20	DN25	DN25	DN32	DN32	DN50
Water pressure	≤ 50KPa	≤ 55KPa	≤ 60KPa	≤ 60KPa	≤ 70KPa	≤ 70KPa
Connect the ground	≤ 10 Ω	≤ 10Ω	≤ 10Ω	≤ 10 Ω	≤ 10 Ω	≤ 10 Ω
Ambient temperature	-15 ~ 43°C	-15 ~ 43°C	-15 ~ 43°C	-15 ~ 43°C	-15 ~ 43°C	-15 ~ 43°C
Decibel dB (A)	≤ 55	≤ 63	≤ 60	≤ 68	≤ 68	≤ 69

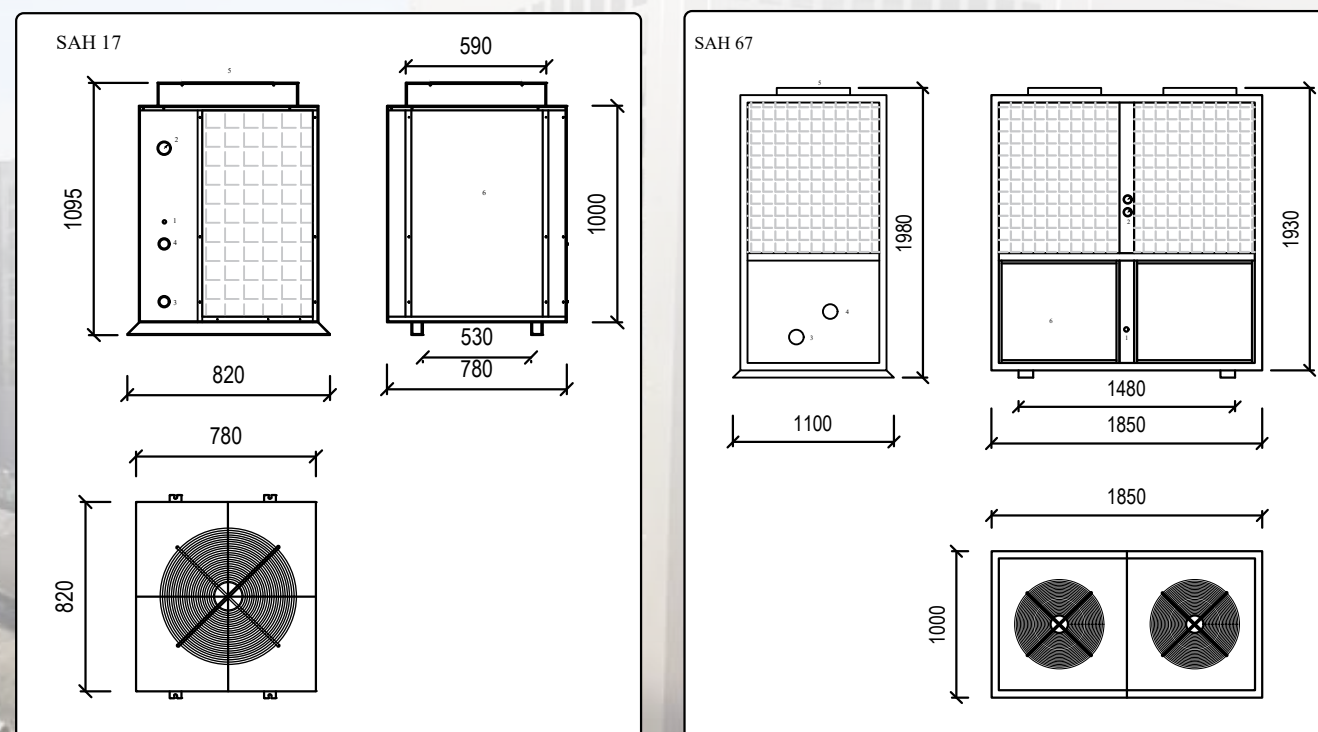
Included



HIGH – EFFICIENCY HEAT PUMP TECHNOLOGY



Panasonic or Copeland compressor
Emerson expansion valve, Saginomiya 4-way valve
Axial type fan motor with Nylon fan blades, low power consumption, low running noise, long usage life
Sanluca made tube in tube heat exchanger, low fouling and easy for maintenance
Coated steel or SUS 304# stainless steel cabinel with good workmanship



MODEL	SAW-10	SAW-17	SAW-25	SAW-36	SAW-45	SAW-67
Rated heating capacity	13.8kW	24.1kW	31.5kW	47.5kW	63.3kW	92.8kW
Rated Production capacity (m3/h)	6.02	10.32	13.76	20.64	28.38	40.85
Rated input power	2.64kW	4.52kW	6.01kW	9.06kW	12.10kW	16.96 kW
Rated input current	5.01A	8.61A	11.94A	17.51A	23.04A	32.91A
Maximum input power	5.92kW	7kW	8.2kW	15kW	17kW	28kW
Maximum input current	18A	10.13A	14.20A	20.32A	28.88A	40.10A
Rated water Temperature	28°C					
The maximum Water temperature	40°C					
Condenser	Copper Pipe in steel Case heat Exchanger					
Defrosting	Included					
Intelligent Control	Use LCD display controller					
Refrigerant	R417a					
Compressor brand	Panasonic	Copeland				
Compressor QTY (Unit)	1	1	1	2	2	4
Fan QTY (Unit)	1	1	1	2	2	2
Rate voltage /Frequency	3N 380V ~420/50Hz	3N 380V ~420/50Hz	3N 380V ~420/50Hz	3N 380V ~420/50Hz	3N 380V ~420/50Hz	380V ~420/50Hz
Protection against Electric shock type	I Type	I Type	I Type	I Type	I Type	I Type
Protection class	IPX4	IPX4	IPX4	IPX4	IPX4	IPX4
Maximum pressure of the exhaust side	2.8MPa	2.8MPa	2.8MPa	2.8MPa	2.8MPa	2.8MPa
Minimum suction pressure side	0.05MPa	0.05MPa	0.05MPa	0.05MPa	0.05MPa	0.05MPa
Weight	100kg	160kg	190kg	255kg	400kg	600kg
Dimensions (mm)	Long	700mm	820mm	820mm	1502mm	1502mm
	Wide	700mm	695mm	695mm	750mm	750mm
	High	870mm	1060mm	1060mm	1060mm	1105mm
Interface Dimensions	DN20	DN25	DN25	DN32	DN32	DN50
Water pressure	≤ 50KPa	≤ 50KPa	≤ 50KPa	≤ 70KPa	≤ 70KPa	≤ 70KPa
Connect the ground	≤ 10 Ω	≤ 10Ω	≤ 10 Ω	≤ 10 Ω	≤ 10 Ω	≤ 10 Ω
Ambient temperature	-15 ~ 43°C	-15 ~ 430°C	-15 ~ 43°C	-15 ~ 43°C	-15 ~ 43°C	-15 ~ 43°C
Decibel DB(A)	≤ 55	≤ 63	≤ 63	≤ 65	≤ 68	≤ 70



- Panasonic or Copeland compressor
- Emerson expansion valve, Saginomiya 4-way valve
- Axial type fan motor with Nylon fan blades, low power consumption, low running noise, long usage life
- Sanluca made tube in tube heat exchanger, low fouling and easy for maintenance
- Coated steel or SUS 304# stainless steel cabinet with good workmanship



INVERTER - SWIMMING POOL HEATPUMP

MODEL		SAI-17	SAI-25	SAI-36	SAI-45
Heating (Air 260°C, Water 260°C)	Capacity (kW)	2.85-11.9	3.56-15.5	4.79-20	6.61-26
	Power input(kW)	0.229-1.73	0.286-2.25	0.388-2.92	0.531-3.87
	COP	6.9-12.4	6.9-14.4	6.8-12.3	6.9-12.4
Heating (Air 150°C, Water 260°C)	Capacity (kW)	2.14-9.3	2.84-12.3	3.54-15.4	4.74-20.5
	Power input(kW)	0.294-1.88	0.384-2.52	0.485-3.17	0.641-4.21
	COP	4.9-7.3	4.9-7.4	4.9-7.3	4.9-7.4
Power supply (V/Ph/Hz)		220/1/50			
Operating air temperature (°C)		-10 - 43			
Casing type		ABS			
Heating temper ature range (°C)		15 - 40			
Compressor		GMCC/GREE			
Refrigerant		R417			
Water connection (mm)		50			
Water flow (m3/h)	(m3/h)	5.2	7.1	5.2	7.1
Unit net dimensions	WxDxH	950x335x650	950x335x650	950x335x650	1055x935x703
		675x605x955	675x605x950	785x705x975	785x705x955
Net weight (kg)	(kg)	60	68	95	107
Noise at 1m	dB(A)	40-48	41-50	42-51	43-52
Noise at 10m	dB(A)	21-29	23-31	24-32	24-33

