



Hiseer Split DC Inverter Heat Pump

High efficiency More comfortable **Energy saving Environment friendly**



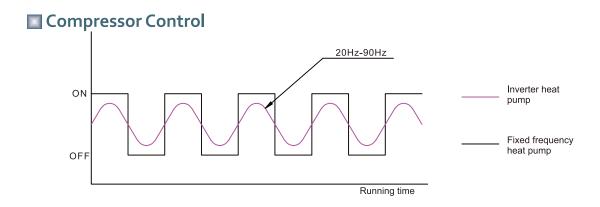


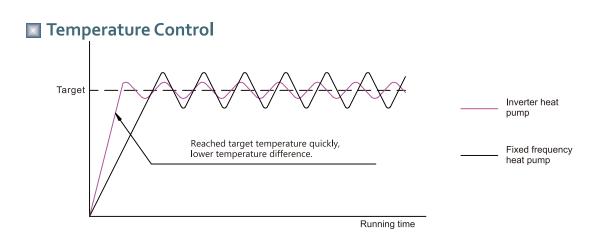




Hiseer DC inverter heat pump offers a wide heat output . It could adjust heat output automatically according to your house heating requirement . In winter , the inverter compressor and fan motor will runs on high speed to provide more heating when ambient temperature is very low; If your house need less heating , it will drop running frequency down to 20Hz in which condition the heat pump will consume less electric power .

Heat pump is not just a heating system for new buildings, it can also be integrated into existing buildings that already have heating systems easily. Irrespective of whether you have a gas, oil boiler or solar panels, the heat pump switches on the 2nd heat generator according to demand for keeping lowest heating costs.



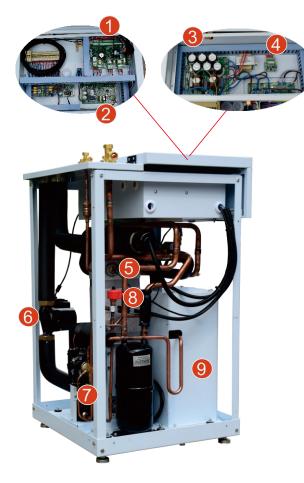


■ Hiseer DC Inverter Heat Pump Advantages:

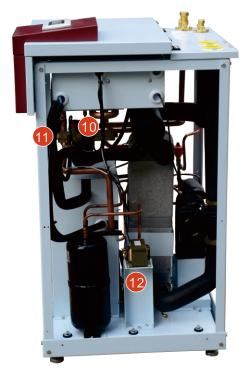
- 1. Save more than 30% energy than fixed frequency heat pump
- 2. Soft start to protect your electric network
- 3. Smooth temperature varies curve
- 4. Wide heating/cooling output range
- 5. Can be used in combination with heat generators such as gas, oil or solar that existing in buildings
- 6.Intelligent defrosting by reverse circulation
- 7. Weather compensation function: heating / cooling curve
- 8. Heating, cooling and domestic hot water
- 9. SG Ready.
- 10. Flow feedback Grundfos circulation pump, saving water flow switch.

Main Components



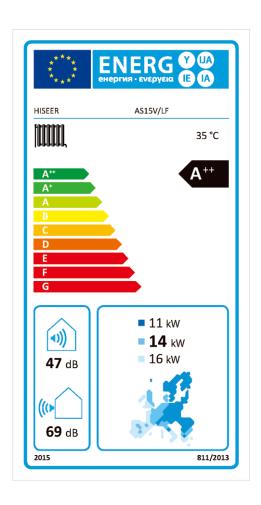


- 1 Carel Controller UP3B00200S3S
- 2 Sanhua Inverter
- 3 Sanhua EMC Filter Board
- 4 Circulation Pump Flow Feedback Board
- 6 GEA / SWEP Plate Heat Exchanger
- 6 Grundfos Circulation Pump
- 7 Emerson Expansion Valve (EVI)
- 8 Carel Electronic Expansion Valve
- Opeland EVI Compressor



- 10 Sanhua High/Low Pressure Transducer
- 11 Saginomiya 4 Way Valve
- Sanhua Harmonic Filter

Energy Labels



Product Fiche

Туре	Inverter Split Air Source Heat Pump				
Model		AS15V/LF			
Temperature application		35℃			
Seasonal space heating energy efficiency class, average climate		A^{++}			
Rated heat output, a verage climate	[KW] 14				
Seasonal space heating energy efficiency η_S , average climate		151%			
Annual energy consumption, average climate*	[KWh]	7525			
Sound power level LWA, indoor unit	[dB(A)]	47			
Sound power level LWA, outdoor unit	[dB(A)]	69			
SCOP, average climate		3.86			
Refrigerant type		R410A			
Global Warming Potential (GWP)		2088			
Heating Capacity at standard rating conditions**	[KW]	15.73			
Power input at standard rating conditions**	[KW]	3.64			
Dimension indoor unit (H X W X D)	[mm]	1040X640X600			
Dimension outdoor unit (H X W X D)	[mm]	1476X1040X500			
Weight, indoor unit	[kg]	138			
Weight, outdoor unit	[kg]	80			
Power source		230V/1ph/50Hz			

^{*} The annual energy consumption kWh per year, based on standard test results. Actual energy consumption will depend on how the appliance is used and where it is located.

^{**} The standard rating conditions: brine inlet temp. 0° C, heating flow temp. 35° C, compressor speed 70Hz.

■ Technical Data



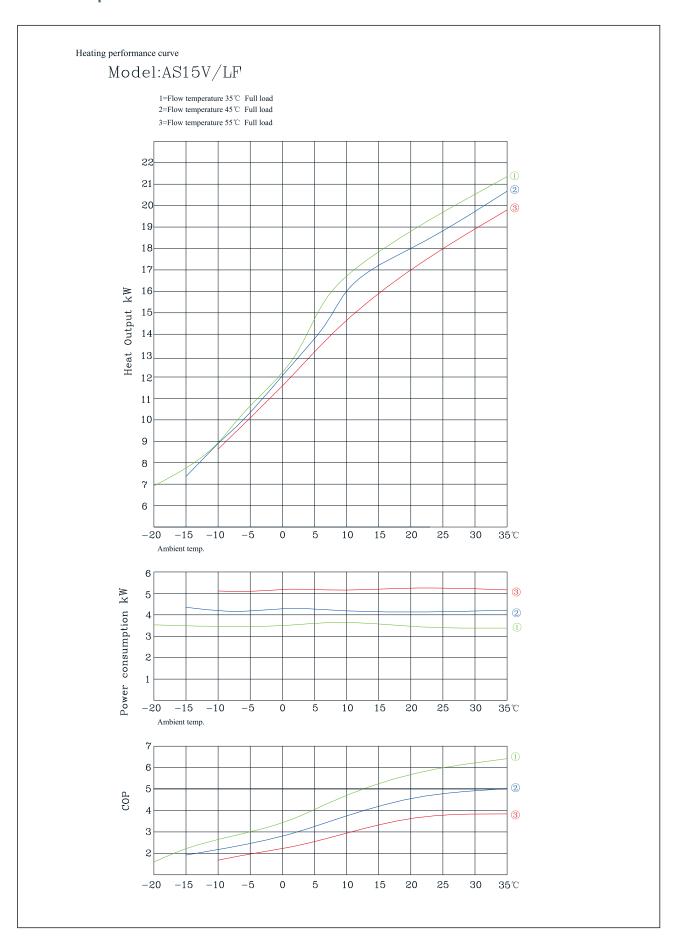
$\Delta + +$

Model Number		AS12V/LF			AS15V/LF			
Heating performance		Min.	Nominal	Max.	Min.	Nominal	Max.	
Heat output/Power consumption/COP at A7/W35°C	kW	4.53/1.02/4.44	12.6/2.73/4.61	15.65/3.64/4.30	4.63/1.04/4.45	15.73/3.64/4.32	18.1/4.62/3.90	
Heat output/Power consumption/COP at A2/W35℃	kW	3.96/1.09/3.63	10.26/2.77/3.7	12.78/3.53/3.62	3.93/1.09/3.60	12.86/3.52/3.65	16.04/4.62/3.47	
Heat output/Power consumption/COP at A-7/W35°C	kW	2.64/1.13/2.34	7.86/2.69/2.92	9.76/3.48/2.80	2.74/1.13/2.43	9.85/3.45/2.85	12.44/4.51/2.76	
Heat output/Power consumption/COP at A-10/W35°C	kW	2.64/1.17/2.25	7.22/2.73/2.64	8.81/3.51/2.51	2.68/1.19/2.24	8.93/3.53/2.53	11.05/4.68/2.36	
Heat output/Power consumption/COP at A-15/W35°C	kW	2.69/1.65/1.63	6.39/2.75/2.32	7.69/3.52/2.18	2.80/1.67/1.68	7.81/3.51/2.22	10.38/4.54/2.29	
Heat output/Power consumption/COP at A7/W45°C	kW	4.32/1.32/3.27	11.81/3.24/3.65	14.37/4.20/3.42	4.36/1.34/3.27	14.58/4.23/3.45	17.68/5.28/3.35	
Heat output/Power consumption/COP at A2/W45°C	kW	3.66/1.33/2.75	10.36/3.45/3.0	12.65/4.31/2.94	3.66/1.33/2.75	12.78/4.30/2.97	15.29/5.56/2.75	
Heat output/Power consumption/COP at A-7/W45°C	kW	4.0/1.86/2.15	7.93/3.35/2.36	9.61/4.30/2.23	4.04/1.87/2.16	9.73/4.16/2.34	12.19/5.49/2.22	
Heat output/Power consumption/COP at A-10/W45°C	kW	3.55/1.83/1.94	7.52/3.34/2.25	8.84/4.17/2.12	3.61/1.87/1.93	8.90/4.10/2.17	11.34/5.37/2.11	
Heat output/Power consumption/COP at A-15/W45°C	kW	3.76/2.37/1.59	6.79/3.55/1.91	8.29/4.38/1.89	3.84/2.37/1.62	8.36/4.35/1.92	10.43/5.73/1.82	
Heat output/Power consumption/COP at A7/W55°C	kW	4.01/1.71/2.34	11.26/4.11/2.74	13.75/5.12/2.68	4.09/1.70/2.41	13.93/5.16/2.70	17.01/6.72/2.53	
Cool output/Power consumption/EER at A35/W7°C	kW	4.53/1.52/2.98	11.62/3.55/3.27	14.07/4.61/3.05	4.58/1.53/2.99	14.13/4.54/3.11	17.36/6.01/2.89	
Nominal running current at A7/W35	A	12.1			15.7			
Max operating current	A	24.6			30.5			
Power Supply		230V/50Hz			230V/50Hz			
Compressor		Copeland EVI scroll			Copeland EVI scroll			
Condenser		Brazed plate heat exchanger			Brazed plate heat exchanger			
Nominal flow heating medium	m3/h	2.10			2.38			
Internal pressure drop at nominal flow	kPa	17			23			
Nominal air flow	m ³ /h	5000			6000			
Nominal fan output	W	210			230			
Max outlet heating medium temperature	$^{\circ}\mathbb{C}$	55			55			
Refrigerant R410A filling weight	kg	3.4			3.6			
Outdoor unit dimension (HXWXD)	mm	1476X1040X500			1476X1040X500			
Indoor unit dimension (HXWXD)	mm	1040X600X640			1040X600X640			
Pipe connector		G1-1/2"			G1-1/2"			
Net Weight (indoor/outdoor)	kg	136/80			138/80			
		Heating -25~35		Heating -25~35				
Operating ambient temp. range	$^{\circ}$ C		DHW -20~43	1W -20~43		DHW -20~43		
		Cooling 10~45			Cooling 10~45			
Sound power level L _{WA} (indoor / outdoor)	dB(A)	46/67			47/69			

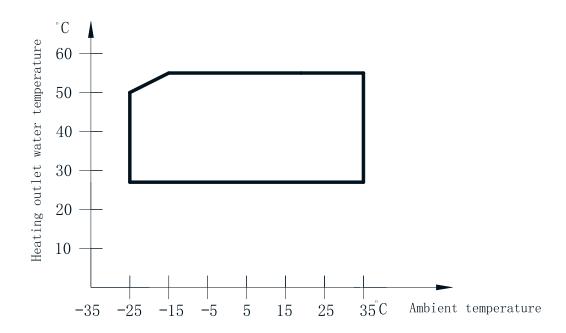
The above data is tested by EN14511. A7/W35°C means air temp. 7°C,outlet water temp. 35°C

The Sound power level is tested by EN12102

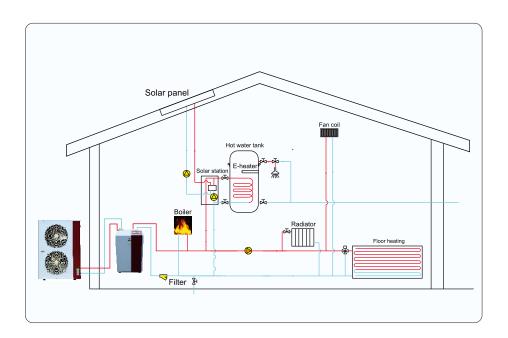
■ Rated Speed Performance Curve



Workable Envelope

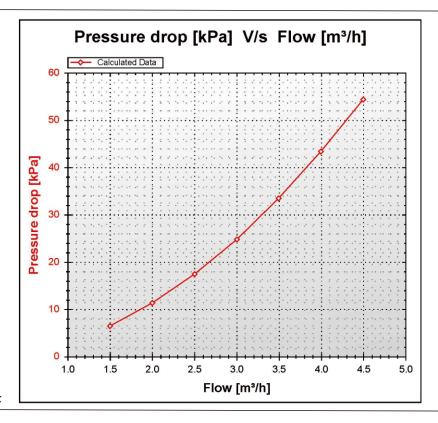


■ Typical application

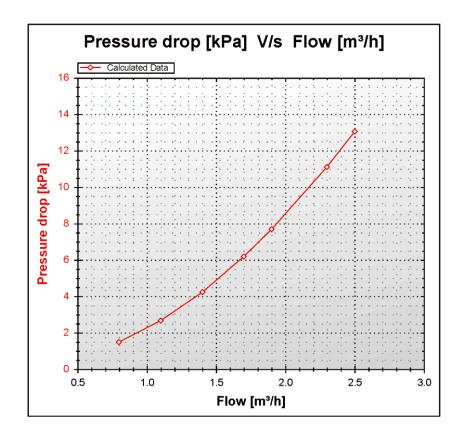


■ Plate Exchanger Pressure Drop Curve

AS12V/LF

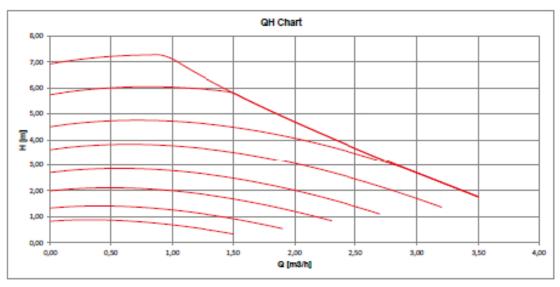


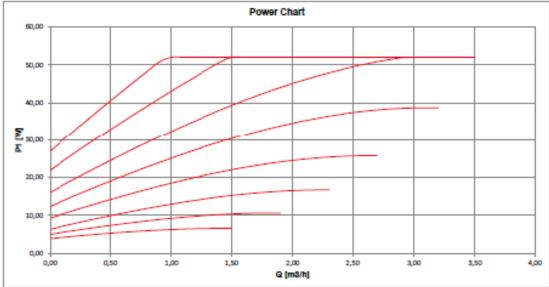
AS15V/LF

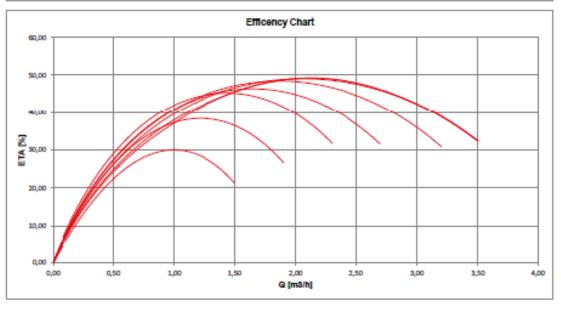


■ Internal Pump Grundfos UPM3K 25-75 Curve

Title Test data UPM3 PWM 7,0m 130.
Product no.

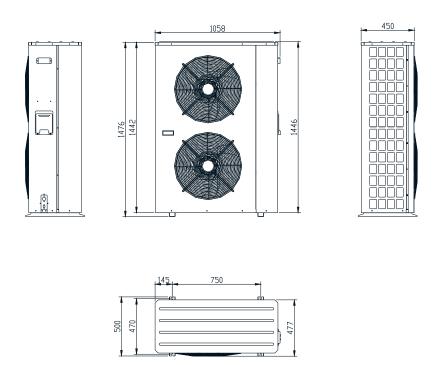




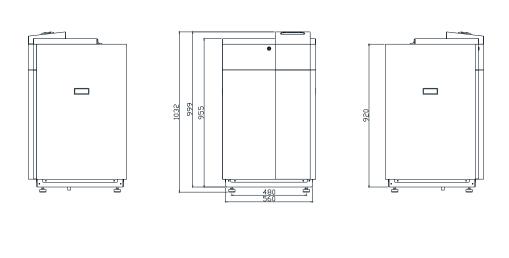


■ Hiseer Split DC Inverter Air Source Heat Pump Dimension :

AS12V/LF AS15V/LF outdoor unit



AS12V/LF AS15V/LF indoor unit



• • • •

633

 $\cdot\bigcirc\cdot\cdot\bigcirc\cdot$