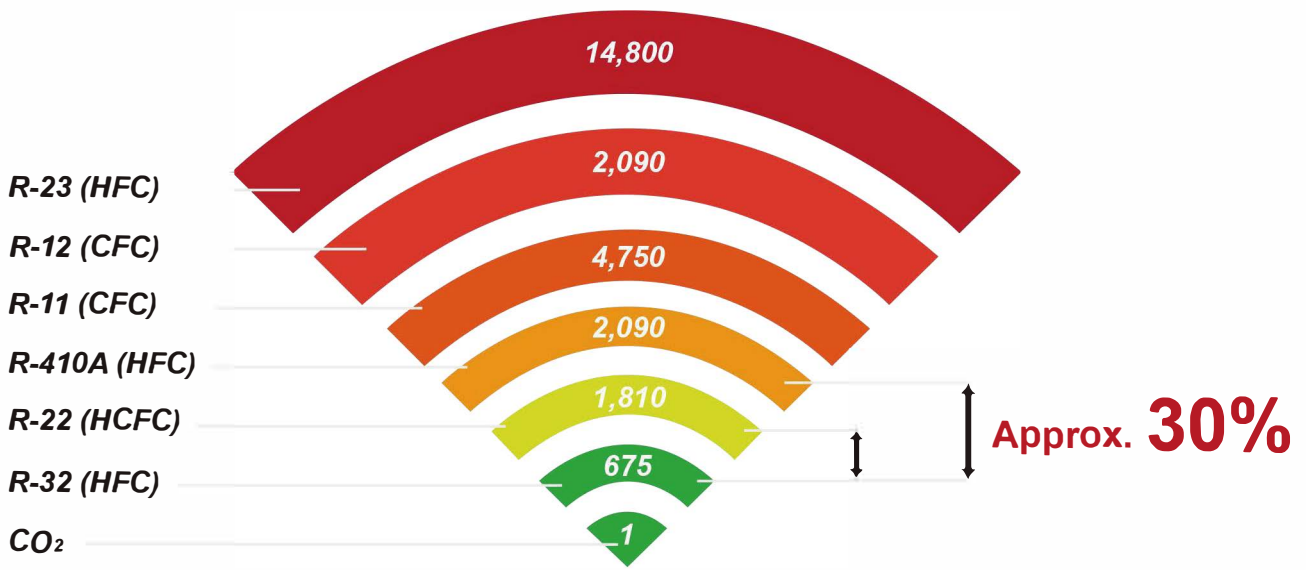


Full DC Inverter Monoblock Heat Pump



1 What's R-32?

GWP
Global Warming Potential



2 Refrigerant Trends



ODP : 0.05
GWP : 1,810



ODP : 0
GWP : 2,090



ODP : 0
GWP : 675

Compared to the refrigerants widely used today, such as R-22 and R-410A, R32 has a global warming potential that is two-third lower and it is remarkable for its low environmental impact, which speed up the its popularity in the industry.

R-32 is a next generation refrigerant that efficiently carries heat and has lower environmental impact.

ODP
Ozone Depletion Potential

3 F-gas Regulation in Europe



It is announced by the European Commission that all the equipment containing fluorinated greenhouse gases should be under the EU F-gas Regulation.

FINECO Wifi Smart Control

The Fineco DC inverter heat pump adopts Wifi Smart Control technology (optional). User can control their heat pump via cloud data center, and know all things about heat pump anytime and anywhere. User can control on phone or computer to operate or monitor heat pump working and prepare a comfortable condition for house in advance.



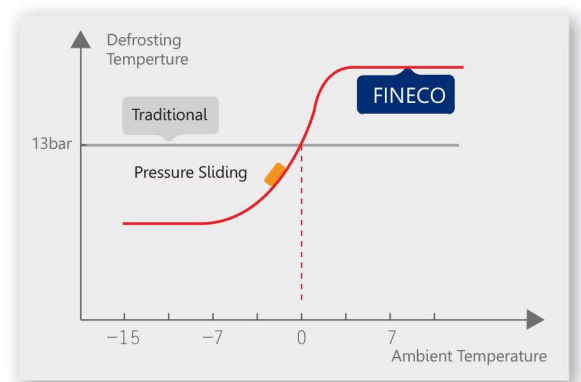
Intelligence Defrosting

Traditional Defrosting Method

Traditional defrosting method is with fixed defrosting time and start temperature. Once the ambient temperature reaches or is lower than -7°C , the unit will start defrosting. It's easy to cause energy wasting when there is no defrost and will reduce the heating performance at the same time.

Intelligent Defrosting Method

Fineco intelligent defrosting uses the pressure sliding defrosting technology to figure out the exact defrosting time and start pressure according to the real ambient temperature. It saves energy and makes the heat pump work in high efficiency.



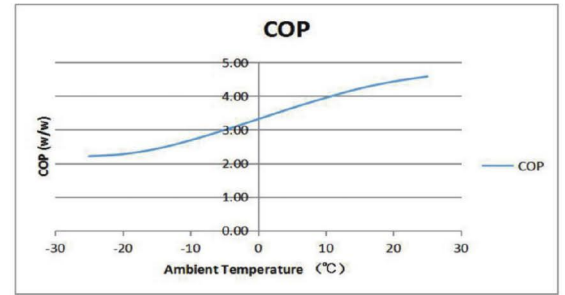
30% Energy Saving

With the use of inverter compressors, brushless DC fan motors and smart full control method, the units can regulate the running capacity. With no frequent start-ups and stop runnings, the units work in stable condition with high efficiency. The energy consumption is 30% less than that of standard heat pump units.



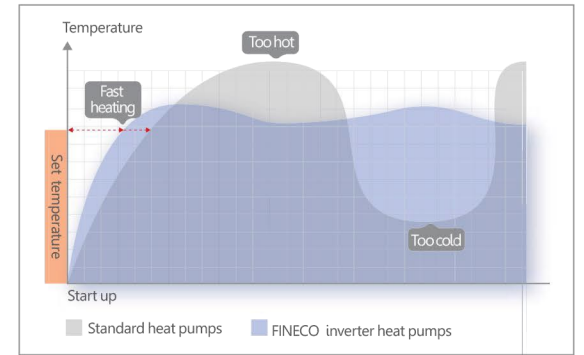
Powerful Heating at -25°C Ambient Temperature

FINECO all in one monoblock DC inverter heat pump adopts Mitsubishi high efficiency DC inverter compressor and DC inverter brushless motor, which combined with smart full DC controlling, assures the motor speed and refrigerant flow can be adjusted in real time according to the changes of environment and ensures the system can also provide powerful heating under severe cold climate.



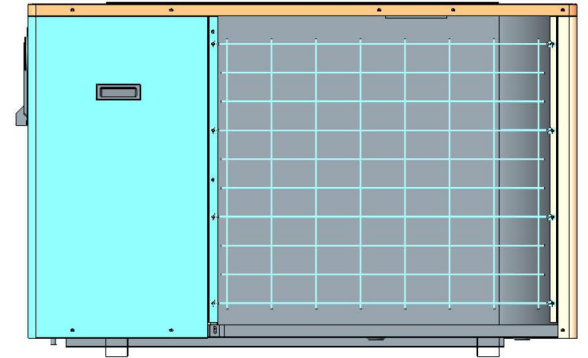
Speed Up Heating and Cooling Time

When there is a large difference between the actual temperature and the programmed temperature, the unit can run at a higher frequency to make fast heating or cooling to increase or decrease the temperature rapidly.



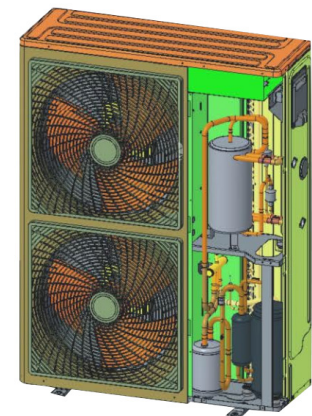
No Frosting at the Bottom

With the use of the special liquid distribution technology, in heating mode, the temperature of refrigerant in the air exchanger's bottom copper tube will not decrease in order to ensure no frosting on it and smooth drainage. Then, there is one auxiliary electric heating belt on the base which can prevent water from freezing.



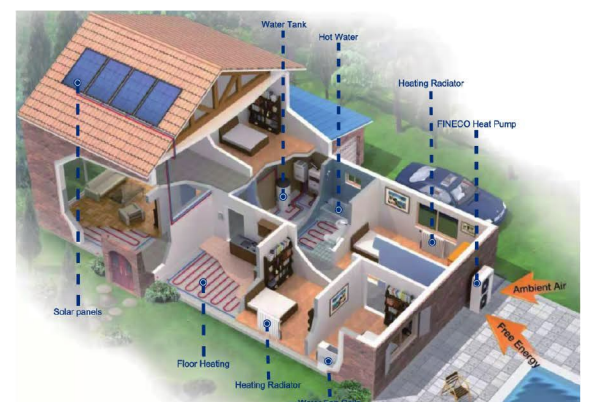
Compact Design

Fineco DC inverter heat pump adopts a compact structure design. The internal pipeline layout is reasonable. The design fully considers the principles of fluid mechanics and vibration to avoid the impact of excessive stress points on vibration, and combines aesthetic morphological elements, the pipeline design is straight in horizontal and vertical. Effectively reduce the loss of life of the machine caused by the vibration of the pipeline, and reduce the running noise of the machine



Multifunction

Through the use of intelligent control, Fineco heat pump can achieve multi-function. The combination of functions is as follows: Heating only, hot water only, cooling only, heating+hot water, cooling + hot water. This multi-functional combination design can meet the needs of use in various situations, and realize a multi-purpose machine.



FINECO Core Components



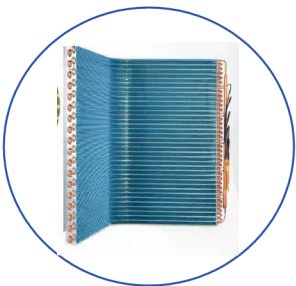
Mitsubishi DC inverte high efficiency compressor.
Inverter Dual-rotor compressor . Lower noise, longer life and more efficient .

Brushless, DC inverter motor for increasing fan performance and reliability.



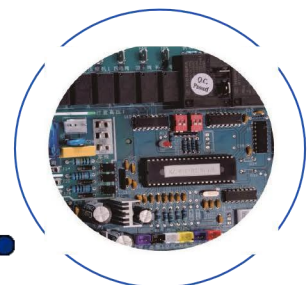
Brazed plate or tube in shell heat exchanger (Optional)
High efficiency with anti-corrosion protection

Danfoss, or Sanhua electronic expansion valve
Precise refrigerant flow control.



High efficiency hydrophilic alumiun foil fan evaporator
Blue fin or golden fin .

Inverter PC board , intelligent control
Smart wifi control (Optional) .



FINECO 16 Intelligent Protection Functions



Ground protection



Overvoltage protection



Leakage protection



Temp differential protection



High temp protection



Losing-phase protection



Low-voltage protection



Dry heat protection



Over-current protection



Water flow protection



Intelligent fault automatic detection



High/low voltage protection



Automatic monitoring



Communication line fault protection

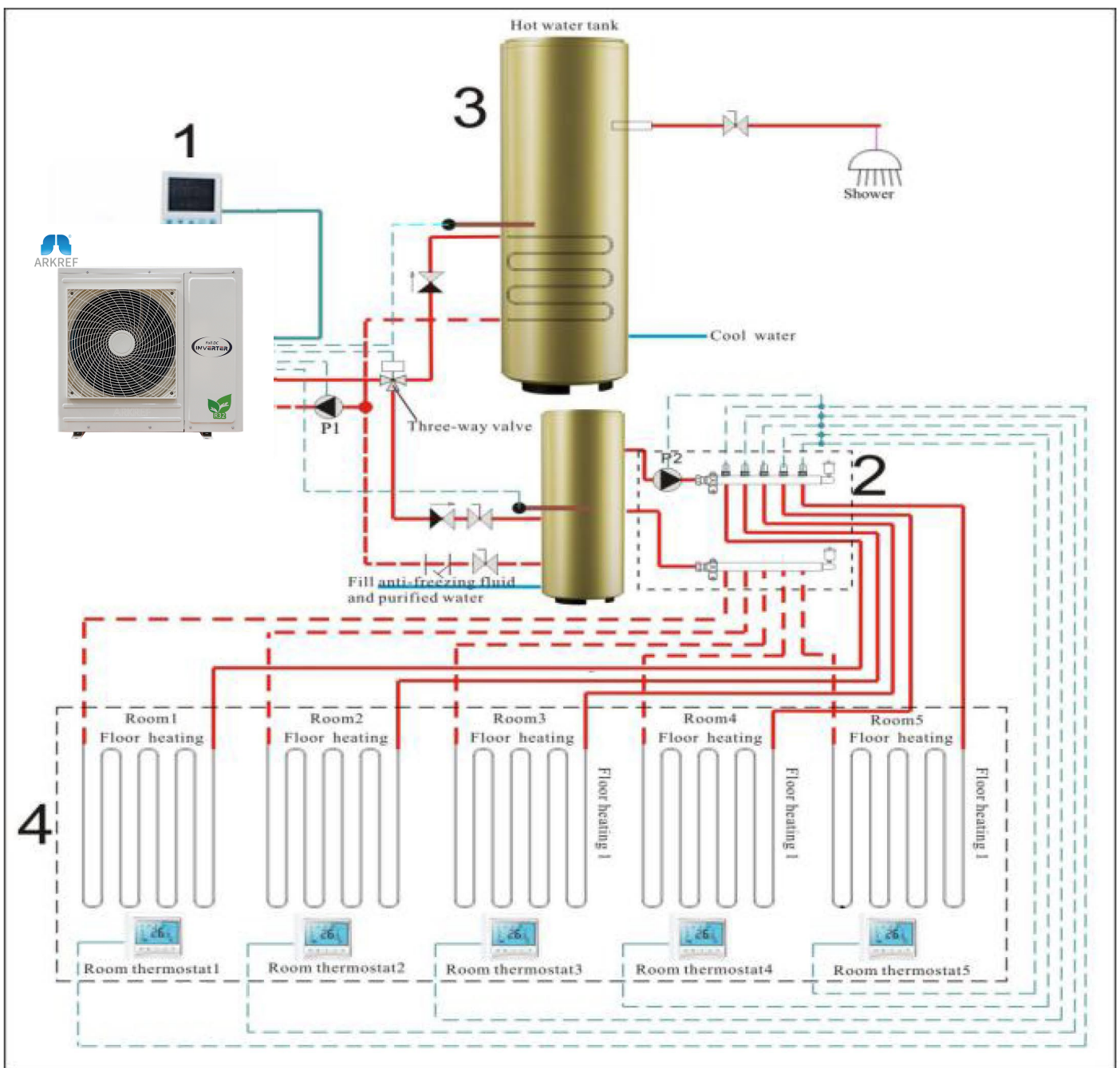


Frost protection



Temp sensor fault protection

Installation Diagram



Monoblock DC Inverter Heat Pump Parameter

R32 Full DC Inverter Multi-Function Heat Pump							
Model		XD-03BPM	XD-04BPM	XD-05BPM	XD-06BPM	XD-05BPM	XD-06BPM
		(220V)	(220V)	(220V)	(220V)	(380V)	(380V)
Power Supply		220-240V/1N~/50Hz				380-415V/3N~/50Hz	
Ambient Temperature Range		-30 - +43℃				-30 - +43℃	
Heating Capacity(kW/COP)	A7W35	8(2-9)/4.1	12(2-13)/4.2	15(3-17)/3.96	18(3-20)/4.1	15(3-17)/4.2	18(3-20)/4.15
	A7W45	7.6/3.2	10.6/3.4	13.2/3.11	14.5/3.4	13.4/3.15	15/3.4
	A2W35	6.4/3.58	9.4/3.62	12.6/3.58	14/3.44	12.5/3.56	14/3.44
	A-15W35	4.8/1.97	7.0/2.17	8.7/2.12	11/2.5	9 / 2.22	11/2.5
Domestic Hot Water(kW/COP)	A20W55	8.8/4.0	12.5/4.1	13.8/4.1	16.5/4.0	14 / 4.1	17/4.0
	A7W55	7.0 / 3.12	9.8 / 3.2	12.5/3.1	14.2/3.0	13/3.0	14.5/3.0
	A2W45	6.1/3.3	8.2/3.4	8.8/3.3	13.5/3.2	9/3.3	13.8/3.2
DHW Input Power/Current (kW/A)	A7W55	2.22/9.5	2.9/13.2	4.1/18.6	5.2/ 21	4.3/7	5.1/ 8.1
Rated Heating Input Power/Current (kW/A)	A7W35	2.1/8.5	2.7/11.5	3.85/17.4	4.7/18	3.95/6.2	4.7/7.2
Cooling Capacity(kW/EER)	A35W7	6.2/2.5-5.8	10.8/2.6-5.8	11/2.6-5.7	14/2.5-5.7	11/2.5-5.8	14/2.4-5.8
Cooling Input Power(kW/A)		2.1/9.5	2.6/11.3	3.93/18	4.5/23	3.95/6.5	5.2/8.5
Electric Shock Proof Grade	Class I				Class I		
Protection Grade	IPX4				IPX4		
Max. Working Power/Current(kW/A)	3.5/15	4.5/18	6.5/25	7.6/30	6.5/15	6.5/15	
Max./Min. Working Pressure(Mpa)	4.2/0.15						
Hot Water Tem. (℃)	25-60				25-60		
Water Yield(L/h)	1300	1500	2000	2500-3000	2000	2500-3000	
Refrigerant Type/Weight (kg)	R32/1.25	R32/1.4	R32/1.7	R32/1.9	R32/1.6	R32/1.9	
Noise (dB)	40-55	42-57	45-60	45-60	45-60	45-60	
Outlet Water Pipe Connector	DN25						
Compressor	Mitsubishi Dc Inverter compressor						
Fan Motor	Brushless DC Inverter Variable Speed Motor						
Electric Expansive Valve	Sanhua/Danfoss						
Other components Built in	High& Low Pressure switch/ Water Flow Switch						
Dimension (L/W/H)mm	880/420/790	880/420/790	930/410/1270	1018/448/1366	930/410/1270	1018/448/1366	
Packing Dimension (L/W/H)mm	980/530/950	980/530/950	1030/510/1415	1130/520/1510	1030/510/1415	1130/520/1510	
Net Weight (kg)	75	80	115	125	115	125	
Packing Gross Weight(kg)	85	90	125	135	125	135	
A7/W35: outdoor air temperature (DB/WB) 7℃/6℃, water inlet/outlet temperature 30℃/35℃							
A2/W35: outdoor air temperature(DB/WB) 2℃/1℃, water inlet/outlet temperature 30℃/35℃							
A-15/W35: outdoor air temperature(DB/WB)-15℃/-14℃, water inlet/outlet temperature 30℃/35℃							