

KOLANT®
柯兰特

35
Years
Professional
experience

18
Years
Export

40⁺
Countries
Regions
Worldwide

RoHS
EU
Conformity

Service

Free consultation;

Free design guidance;

Whole machine is guaranteed for two years;

Each unit tracing system with complete customer profiles;

Provide Installation and operation training;

ISO9001, ISO14001, ISO45001 , UL, CE, CB, EN14825,
EU813, EN14511 certified

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Leading Brand in Heating Technology

KOLANT®
柯兰特



in -35°C
Strong Heating



**KOLANT HEAT
TECHNOLOGIES**

EVI Full Inverter for
Super cold weather

**Cooling/Heating & Domestic Hot Water
in One Solution**



Non-equivalent heating

Electric boiler

High bill

Gas price

Increasing

Low gas

Still cold

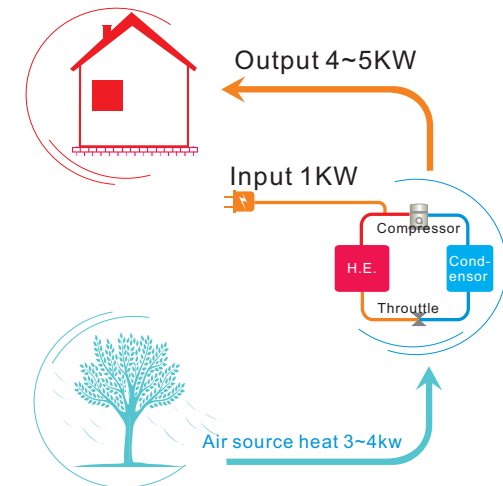
Coal Forbidden

Normal air conditioner Not warm enough

For heating in cold areas in the north, users pay attention to environmental protection, that is, the stability, comfort and energy-saving effect of machines, the high cost of electric boilers, the poor controllability of central heating comfort, etc. It is well known that heat pump air can save energy, but at present, many heat pump products have poor stability, are not easy to defrost and cannot run continuously in extreme low temperature environment. Now Kelante's "Ultra-low Temperature Heat Pump Series" is specially developed for houses, hotels, institutions, factories and other places in the northern cold region. Low-temperature heating is stable and energy-saving, and it is a comprehensive energy-saving solution for heating in winter and cooling in summer in the northern region.

Air source heat pump principle

Air-energy heat pump is an innovative generation of energy-saving and environmental-friendly hot water equipment, and it is a device that efficiently collects and transfers heat. It successfully uses the inverse Carnot principle to continuously absorb the heat energy in the natural air, thus achieving the purposes of rapid heating, energy saving and environmental protection. Air-energy heat pump water heater has high energy efficiency ratio and low operating cost. It can get four degrees of heat from the air with one degree of electricity, and the energy consumption is only one quarter of that of electric water heater.



Save two thirds more than electric boiler



safe



energy
conservation



Comfortable



environmental
protection

Kolant EVI Inverter Heat Pump

ULTRA-LOW TEMPERATURE COLD CLIMATE AREA COOLING IN SUMMER AND HEATING IN WINTER SOLUTION

a renewable alternative of those traditional gas boilers, electric boilers, furnace and air conditioners, Residential/Commercial units are both provided

 -35°C Ambient Temperature Winter Heating

 45°C Ambient Temperature Summer Heating



International Branded Compressor

International branded EVI DC inverter compressor, low noise design, Liquid shock resistance and durable;



Water and electricity separation

A liquid-to-liquid heat exchanger no electricity leaking, no refrigerant leaking corrosion, no hidden dangers of electric water heater dry-burning; No CO2 and any other toxic gases were generated; More safer;



House Cooling and Heating

Kolant EVI DC inverter heat pump provides high efficient and energy saving heating in cold season, and cooling in summer.

Working in ultra-low temperature with strong heating

Kolant EVI DC Inverter Heat Pump adopts the latest generation of high efficiency scroll compressor with enhanced vapor injection (EVI) technology. The compressor greatly enhances heating performance in winter under ultra-low temperature without electric auxiliary heating and achieves high energy-saving efficiency



EVI compressor



Electronic expansion valve



Tube-shell condenser



Low noise fan



DC fan motor

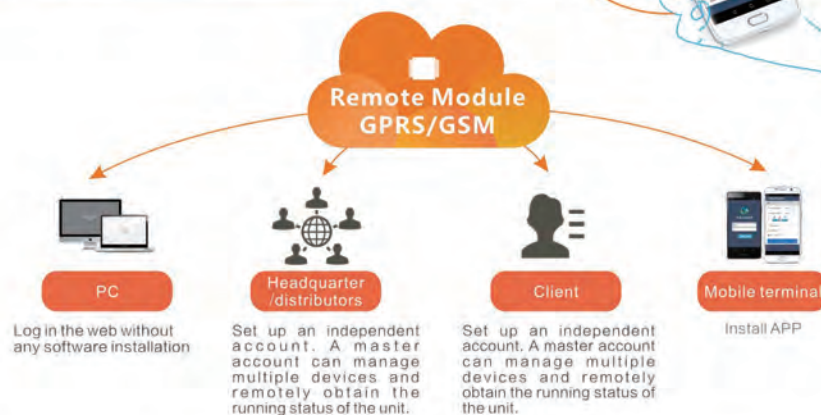
Smartphone Control, Easy Operation

You can view operation data, turn on/off the heat pump, receive and troubleshoot information remotely, which make the after-sales more easier, and more quicker.



Intelligent control system

GPRS wireless transmission module rely on mature GPRS/GSM network, and if not necessary to connect another wireless network. In the area covered by all mobile signals, data communication can be quickly established to obtain real-time operating status of the unit and deliver data remotely.

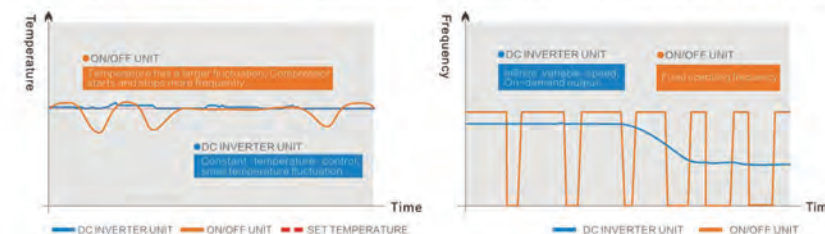


Mobile terminal: After login, you can view the real-time operation data of the corresponding unit: power status, inlet and outlet water temperature, ambient temperature, room temperature, fault information receiving, etc. After authorization, the unit can be operated like tuning on/off, setting parameters, etc.



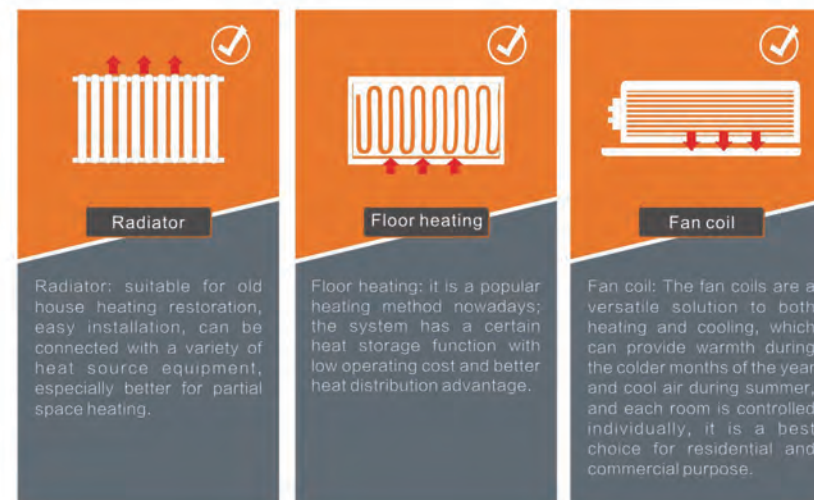
Dc Inverter Technology, the operation range is wider and higher energy efficient

- DC inverter technology makes the machine start with small current and impact to power grid very slightly.
- DC inverter air source heat pump can automatically adjust the compressor's speed according to the change of ambient temperature, and at the same time, the temperature keeps more stable, especially in ultra-low ambient temperature.
- Constant temperature control intelligently, temperature fluctuations is in slight variation, the greater the frequency varies, the more accurate temperature control.
- Variable speed control, on-demand output, the unit will be Running at low frequency, when the unit reach the set temperature, which make the relative energy saving by 30%.



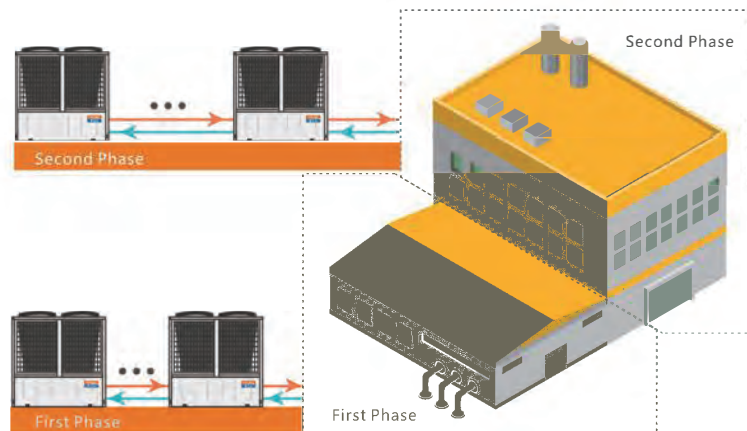
Incorporated with multiple terminals, and easier for renovating an older house

Our heat pump not only can be incorporated with the city central heating network radiator, but also be connected to the fan coil for heating and cooling, and as well as the water floor heating.



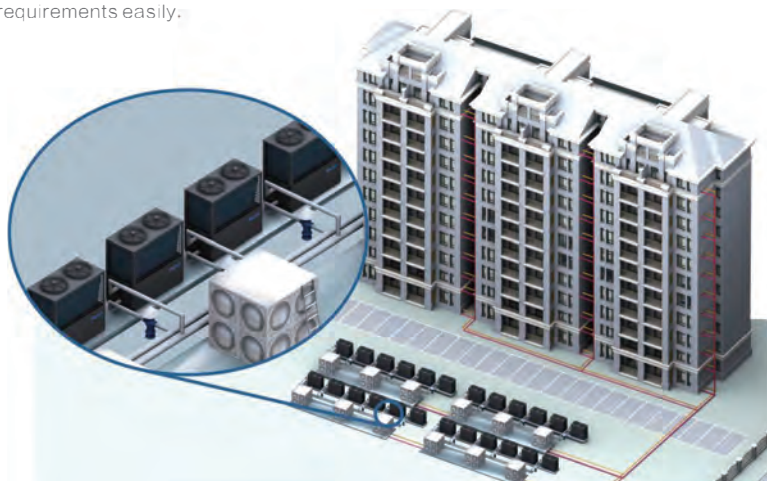
Batch installation shorten the construction period

The unit package can be connected in parallel with multiple units, Batch installation and capacity expansion freely can meet the various application needs in different sites, which is benefit for staged investment.



No piping length limits, Installation more flexible

Heat pump indoor terminals adopt water as the heat transfer medium, so unlike those traditional indoor units with refrigerant system, there is no problem of capacity attenuation caused by the length of the connecting pipe. And the water system can be shared when multiple units are connected in parallel, which can meet the installation requirements easily.



Multiple Protection

compressor high pressure protection; Compressor low pressure protection; Compressor overload protection; Anti-freezing protection; Winter automatic anti-freezing protection; Differential pressure flow switch protection; Temperature difference flow protection; Failure protection of various temperature sensing packages; High exhaust temperature protection and other automatic protection functions.

Applicable area

Model	Applicable heating area(m ²)	Power
11KW	60~80	220V/50~60Hz
17.5KW	100~120	220V/50~60Hz
21KW	130~150	220V/50~60Hz
35KW	200~240	220V/50~60Hz 380V-3N-50Hz
42KW	260~300	220V/50Hz
87.5KW	500~600	380V-3N-50Hz
105KW	700~800	380V-3N-50Hz
175KW	1000~1200	380V-3N-50Hz

Units can be combined arbitrarily, suitable for various areas of the building.

The above data is for reference only, the ambient temperature and engineering design are different, please consult our professional engineers for specific data.



Optional Indoor unit

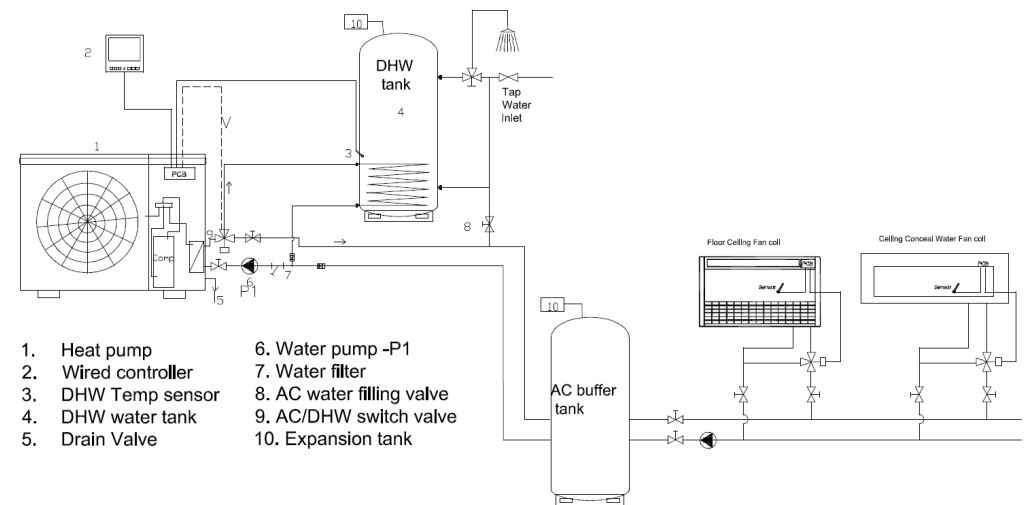
Kolant Heat Pump Winter and Summer
STRONG HEATING IN – 35°C



© Incorporate with multiple terminals

© Split Design makes more space saving and flexible installation

Kolant EVI inverter heat pump application for Heating/cooling & Domestic hot water in one solution



1. Heat pump
2. Wired controller
3. DHW Temp sensor
4. DHW water tank
5. Drain Valve
6. Water pump -P1
7. Water filter
8. AC water filling valve
9. AC/DHW switch valve
10. Expansion tank

EVI FULL DC INVERTER HEAT PUMP TYPE FOR ULTRA-LOW TEMPERATURE AREA

- Use low-temperature heating, EVI (Enhanced Vapor Injection) full DC Inverter technology;
- Provide the desired room heating and hot water, even -35°C outdoor in extremely cold area;
- The smart remote control allows you to control your heat pump wherever you are, just with one simple app you can do everything you could.



Indoor unit is optional

Data Sheet

EVI DC INVERTER HEAT PUMP TYPE FOR ULTRA-LOW TEMPERATURE AREA

Models	Air temp/outlet water temp	RJ85/N8-BPEEVI	COP	RJ-110H/N8-BPE	COP	RJ-150H/SN8-BPEEVI	COP	RJ-180H/SN8-BPEEVI	COP
Heating capacity/Power input (KW)	at A20/W35°C	10.6/1.89	5.61	14.42/2.88	5.01	21.1/3.89	5.42	22.8/4.4	5.18
	at A7/W35°C	8.59/1.87	4.59	10.6/2.55	4.16	14.7/3.31	4.44	18.8/4.4	4.27
	at A7/W45°C	7.91/2.23	3.55	9.97/3.14	3.18	13.5/4.1	3.29	17.8/5.24	3.4
	at A2/W35°C	7.65/1.81	4.23	9.54/2.49	3.83	13.08/3.21	4.07	16.92/4.31	3.93
	at A2/W45°C	7.04/2.15	3.27	8.97/3.06	2.93	12.02/3.97	3.03	16/5.12	3.13
	at A-12/W41°C	5.9/2.45	2.41	6.3/2.7	2.33	10.2/4.35	2.34	11.6/5.04	2.3
	at A-20/W41°C	5.4/2.56	2.11	5.61/2.72	2.06	8.9/4.23	2.1	10.5/4.97	2.11
Cooling Capacity/Power input(KW)	at A35/ W18°C	9.2/2.7	3.41	11/3.3	3.33	13.9/4.2	3.31	15.6/4.8	3.25
	at A35/W7°C	7.2/2.73	2.64	8.6/3.4	2.53	9.8/3.77	2.6	10.5/4.2	2.5
Max.current (A)		18		19		28		14.3	
Electric supply		230V/50-60HZ				400V/50-60HZ		400V/50-60HZ	
Max.Outlet water temperature (°C)		60							
Running temperature range (°C)		-30 ~ 43							
Refrigerant circuit	Refrigerant	R32							
	DC Inverter compressor	MITSUBISHI		MITSUBISHI		MITSUBISHI		MITSUBISHI	
	Heat exchanger	Copper and Hydrophilic Aluminum Fin							
	Air flow (m³/h)	2400				5800		6000	
Water circuit	Heat exchanger	High efficiency tube in shell heat exchanger							
	In/Out pipe	DN25(G1")		DN25(G1")		DN25(G1")		DN25(G1")	
	Water flow (m3/h)	≥1.5		≥1.8		≥2.5		≥3	
	permitted pressure	≤0.8MPa							
Unit dimensions W×H×D (mm)		960*820*380		960*820*380		960*1270*380		960*1270*380	
Package dimensions W×H×D (mm)		1040*940*502		1040*940*502		1040*1390*502		1040*1390*502	
Net weight (Kg)		68		68		108		108	
Gross weight (Kg)		85		85		125		125	
Noise level (dB(A))		56		56		59		59	
Loading quantity for 20'/40'		44/88		44/88		22/44		22/44	

Project Reference



Jilin café chantant



Jilin Hunchun Guangming Christian church



One Jilin store

Project Reference



Heilongjiang mishan sanyou driving school



Liaoning Shenjiu Tielai Hall



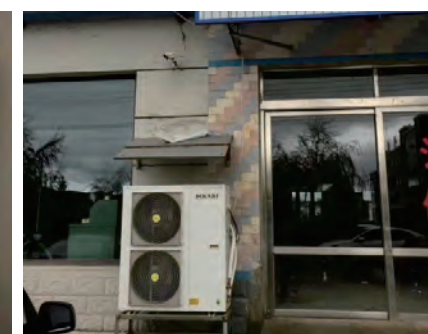
Hotel Shenyang Liaoning



Liaoning Huludao club



Taihe District, Jinzhou City, Liaoning Province



ilin Hunchun automobile branch