

# Chiller





## Mini Chiller(Heat Pump)

Gree Mini Chiller includes split type, integral type, modular integral type and inverter type. It can be connected to several fan coil units to achieve air conditioning through supplying hot water or cold water to the fan coil units. It doesn't need cooling tower and specialized room. You can select indoor terminals flexibly according to indoor decoration. It is well suited to hotels, restaurant, villas, offices, etc.



Item	Water side (water temperature)				Air side (outdoor temperature)		
	Nominal operating condition		Operating range		Nominal operating condition		Operating range
	Inlet( )	Outlet( )	Outlet( )	I/O difference( )	DB( )	WB( )	DB( )
Cooling	12	7	7~12	2.5~6	35	—	16~43
Heating	40	45	45~50	2.5~6	7	6	-15~28

# Inverter Modular Air-cooled Chiller(Heat Pump)



## A Series



35kW



60/65/70kW

A Series Inverter Modular Air-cooled Chiller adopts All DC inverter and has wide operational range, compact design and can be modularized.

## Features



- High-efficiency and energy-saving, with all DC inverter compressor and fan;
- Quiet and wide operational range;
- Easy installation, modularized combination, intelligent control;
- With water pump switch function for prolonging service life of water pump;
- Long-distance one-key ON/OFF control.



Item	Water side (water temperature)				Air side (outdoor temperature)	
	Nominal operating condition		Operating range		Nominal operating condition	Operating range
	Inlet( )	Outlet( )	Outlet( )	I/O difference( )	DB( )	DB( )
Cooling	12	7	5~20	2.5~6	35	-15~52
Heating	40	45	35~50	2.5~6	7	-20~40

# Features

Dual anti-freezing control is adopted. Anti-freezing control of waterflow switch and temperature point is adopted in water system. Meanwhile, anti-freezing control board is added to control the refrigerant side, so as to ensure safe and reliable operation of unit under low temperature or low load condition.



For the models above 10kW, optimized design of dual systems is adopted. The unit will automatically select single system operation or dual systems operation according to the load changes, so as to achieve balance between “supply and demand” and ensure reliable and high-efficiency operation of unit.



- The terminal is low-pressure water system pipeline with simple installation and without expensive refrigerant charging cost;
- Installation is convenient as the unit is equipped with water pump, expansion tank, automatic water makeup valve and safety valve; (Available for Split type and integral type)
- Specialized room and special foundation are not needed, convenient for installation and maintenance.



## 8 control functions:

- Memory control;
- Subroom control;
- Fault diagnosing and alarming;
- Compressor balance operation control (dual systems);
- Multi-modular control;
- Capacity regulation control of multiple compressors;
- Control of auxiliary electric heating;
- Auto defrosting control

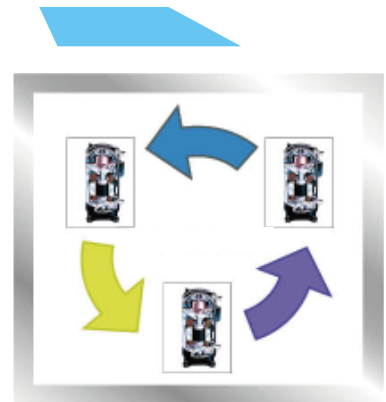
## Multiple protection functions:

- Compressor high/low pressure protection;
- Air switch protection;
- Phase sequence protection;
- Over-current protection;
- Anti-freezing protection;
- Overheating protection;
- Waterflow switch protection;
- Electromagnetic interference prevention and lightning stroke prevention;
- Compressor high discharge temperature protection;
- Temperature sensor protection;
- Auto anti-freezing protection in winter

The dual flow design of the U-shaped tube can enhance the heat exchange efficiency and effective superheating degree, thus increase the performance of the unit.



The unique compressor operation balance technology makes sure that each compressor operates in turn, which greatly prolongs the lifespan of compressor.



Any single unit can operate as the master once connected with the wired controller. It overcomes the problem which would occur to the product of other manufacturer that the whole system would fail to work properly when the fixed master unit malfunctions.



# High-efficiency Modular Air-cooled Screw Chiller

It is a kind of High-efficiency air-cooled screw chillers that can be connected to all sorts of fan coil units to realize cooling/heating for civil or industrial buildings.



Golden fin condenser



Inner groove copper



Comprehensive protection



Self-diagnosis



Memory function



24 hour timer



Long-distance monitoring



High efficiency



Intelligent defrosting



Modular structure

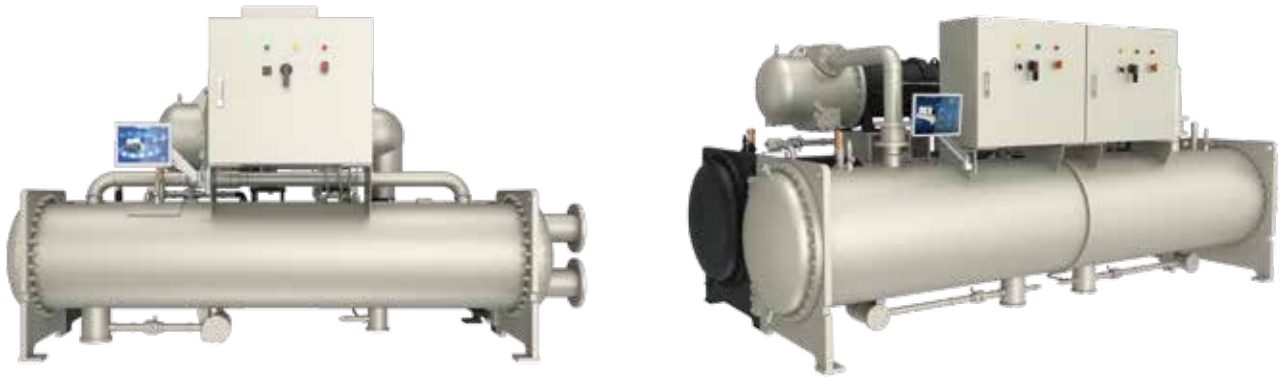
- Thanks to V type fin structure, unit features small refrigerant pressure loss and high efficiency.
- With flooded type shell-and-tube design, evaporating temperature is increased, hence improving the heat exchanging efficiency and energy efficiency.
- Unit adopts low noise fan blades and specialized compressor noise reduction device, therefore sound level falls to 5dB(A) lower than the 2nd generation.
- Due to the totally-enclosed design, its appearance is harmonious and nice-looking.



Item	Water side (water temperature)				Air side (outdoor temperature)		
	Nominal operating condition		Operating range		Nominal operating condition		Operating range
	Inlet( )	Outlet( )	Outlet( )	I/O difference( )	DB( )	WB( )	DB( )
Cooling	12	7	5~15	2.5~8	35	—	18~52

# Permanent Magnetic Synchronous Inverter Screw Chiller

## LHVE Series



Gree LHVE Series Permanent Magnetic Synchronous Inverter Screw Chiller (R134a) is specially designed to improve efficiency and reduce operation cost. Adopting the advanced semi-closed permanent magnetic synchronous inverter screw compressor, the latest efficient falling film heat exchanger and the eco-friendly refrigerant R134a, the product is energy-saving with high reliability, ensuring long-term stable operation, which is energy-efficient. Cooling capacity range under nominal condition is 120 ~ 600RT. It is widely applied to all kinds of office buildings, hospitals, schools and malls, besides, it can be adopted in cooling occasions of technological process.



Operating range	Chilled water		Cooling water	
	Water outlet temperature (°C)	Temperature difference of water inlet and outlet (°C)	Water inlet temperature (°C)	Temperature difference of water inlet and outlet (°C)
Cooling	4~15	2.5~8	18~33	3.5~8

## Features

- Adjust the load with rotate speed to realize consecutive adjustment of 20%-100% of one single compressor load;
- The consecutive adjustment structure of discharge volume can adjust the discharge volume according to actual operation condition, realizing consistent internal and external pressure ratio, heat insulation of compressor has enhanced about 8.4%;
- Under some load conditions, lower the operation power of compressor, which can be up to 60%.

