

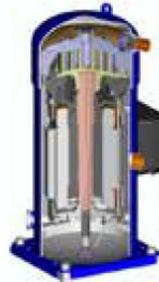
Intelligent Controller

- Intelligent UPC microprocessor with human-machine interface screen, unit managing, network and communication, protection when under alarm and alarm management functions.
- Multi-language menu, shortcut key, graphic unit status. Average compressor running time to extend unit working life.



Flexible Scroll Compressor

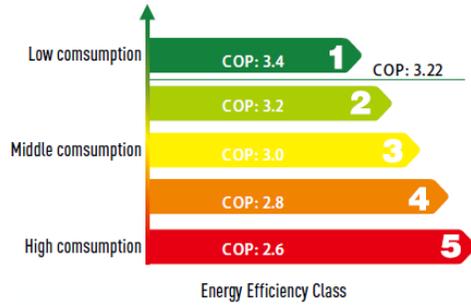
- The unit adopts the high efficiency flexible scroll compressor with high COP, low noise, liquid hammer protection, anti-wear and perfect reliability.
- Dual compressor design which can adjust the quantity of running compressors according to load change, and its start current is small.



Smart Defrost

Different from the traditional heat pump, CLIMAVENETA developed the SMART DEFROST system. It has the self-adaptive function which can modify and adjust the next defrost process based on outdoor temperature and humidity as well as last defrost result.

High Efficiency and Energy Saving



Uses highly efficient components including scroll compressor, plate heat exchanger and HFC410A.

The performance coefficient of the unit can arrive 3.22. We provide user with quality products and save the money for user at the same time.

Efficient Heat Exchanger

Adopt high quality AISI316 stainless steel plat heat exchanger. The close-cell thermal insulation material is attached on the exchanger to prevent condensation on the external surface.

The electric heater inside the exchanger also can avoid frozen in extreme environment.

Efficient Condenser

- V type (65kW) or U type (130kW) air-side heat exchanger which increase the effective heat exchange area to enhance the performance. Copper tube with internal volute thread also increase the heat exchange area and the refrigerant disturbance for better efficiency.
- The hydrophilic-coated aluminum fin of the condenser can prevent the corrosion and the condensation water will not form the waterdrop which not effect the heat exchange performance.



Up to 16 units combined in 1 circuit

- Modular design is convenient for transport and install. The system can change the module quantity based on actual load condition which is suitable for multi-staged investment.



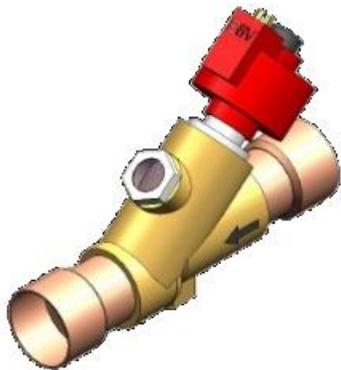
Working Under Extreme Environment

Thanks to the large area heat exchanger and SMART DEFROST, the unit can operate reliably under -10°C outdoor temperature that perfectly solved the problem between operation reliability under low outdoor temp. and high efficiency.

Multi-protection

The intelligent microprocessor has perfect protection function, such as protection when fault, alarm, record and analysis. Besides, the high- and low-pressure switch, fault phase, anti-phase, overload, over current, overheat, discharge gas temperature, water flow, anti-frozen functions are also equipped. And the fault can be recorded, and alarm can be displayed.

Electric Expansion Valve



- Precisely control the gas flow to optimize the evaporator's performance;
- Adjust the system based on the superheat degree of suction gas for reliable running;
- Improve the efficiency when the unit operates deviate the nominal condition or under low load condition; e water temperature is stable.

Environment Friendly Refrigerant HFC410A



- Environment friendly HFC410A, no damage to the ozone layer (ODP=0)
- Higher volumetric refrigeration capacities, so better heat transfer ability and efficiency.

- Less charge amount of the refrigerant which reduce the CO2 emission and greenhouse effect.

Low Noise

The compressor and refrigerating system are inside the soundproof cabinet. And the rubber pad is also fixed between the compressor and frame to stop the vibration and noise spread. The aircraft grade blade and aluminum casted exterior motor are also used to reduce the noise.