

Inverter Screw Type Compressor

- Semi-hermetic screw compressor specially designed for HFC134a with higher compression efficiency under full Load as well as part load;
- Precisely manufactured twin-screw rotor with aircraft-grade bear featuring in high reliability, low noise, low vibration and stable running;
- The inverter motor drives the bear directly with fewest moving components and wearing parts that causes no energy loss and is with higher mechanical efficiency;
- Automatically adjust power output according to load by microprocessor.



Electronic Expansion Valve

EXV, with high-sensitivity and precise control, has high adaptability of partial load working condition. And it can improve the efficiency of the unit under full load as well as part load.



Inverter Fan

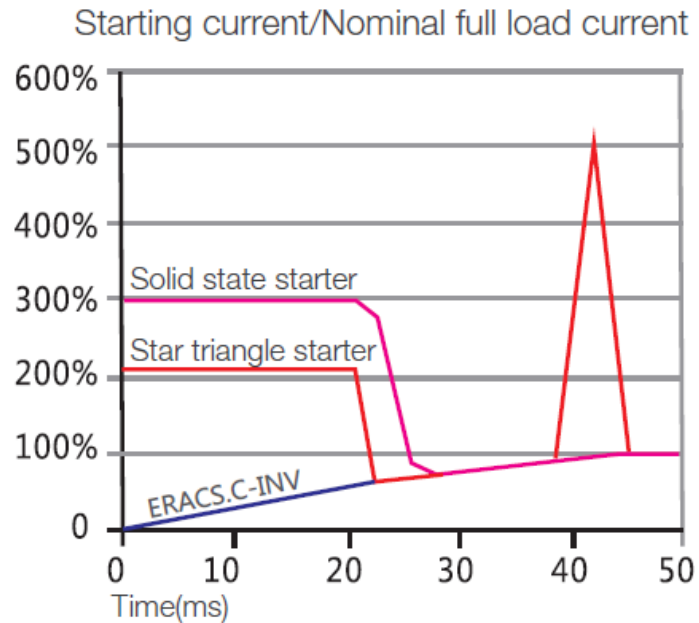
High efficiency exterior rotor inverter fan from German brand. It can reduce the energy consumption and fan noise.

Excellent Performance

The standard harmonic distortion rate THD of the unit meets the requirements of IEC61000-3-4 and GB/T17625.

In accordance with IEEE-519 and GB/T14594-93 requirements for harmonic distortion, the total harmonic distortion rate THD can be as low as 5% or less, and the compensation correction displacement power factor is 0.95 during the operation of the unit.

The inverter adopts refrigerant cooling and the optimized piping design which ensures cooling of the inverter and avoids unnecessary cooling capacity loss.



Reliable Operation

The unit is designed, manufactured, tested according to international and local standard AHRI, EN, UNI, JIS, GB/T18430.1 for reliable performance. And the electrical system is also strictly designed and produced comply with standard IEC60204-1/GB5226.1. The unit is controlled by the dedicated microprocessor control system. In order to protect the operation safety, the high/low pressure switch, over/under voltage, phase failure, overload, winding overheat, gas exhaust temperature, water flow switch and oil heater are all equipped.

Casing protection confirms with GB4208-2008.

Green Technology

- Environment friendly HFC134a
- Optimized refrigerant system for better electric saving, lower CO₂ emission and higher operation efficiency.



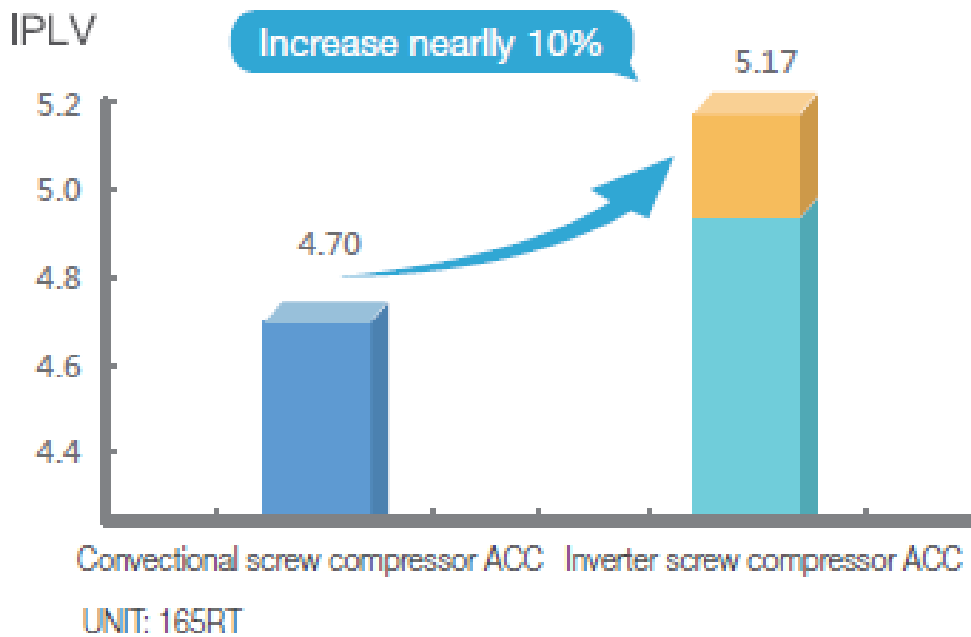
Super Low Noise

All compressors of ERACS.C-INV series are installed on the vibration isolator. The rubber pad is also fixed between compressor and frame to prevent vibration and noise. The fan is exclusive designed with aircraft grade blades and aluminum-cast exterior motor as well as the air deflector cylinder to eliminate air side noise.

Energy Saving

ERACS.C-INV adopts inverter screw type compressor integrated with latest inverter technology.

It has higher part load efficiency and more precise control accuracy. IPLV@AHRI can achieve up to 5.17, 10% higher than convectional screw units, with higher operation efficiency.



Cost Saving

Compared with conventional units, INVERTER series can have the payback in 2 years.

