

Copeland 50HP Large Scroll Compressor Solution

Next generation air conditioning solutions

The Copeland 50HP large scroll compressor is built on the latest-generation low-temperature large scroll platform, demonstrating exceptional energy efficiency and reliability. This innovative solution can offer enhanced performance and cost-effectiveness. Designed for both air conditioning and heating applications, this compressor solution sets a new standard in HVAC technology.



Superior performance

- COP reaches 3.40 with IPLV 4.95
- EVI technology extends the operating range, enhancing heating performance

Multiple refrigerant selection

- Available in three models to cater to various refrigerant requirements: R-410A, R-32, and R-454B.

Lower system cost

- Larger systems offer a better \$/KW compared to small systems
- No additional PED category cost for R-410A model

High reliability

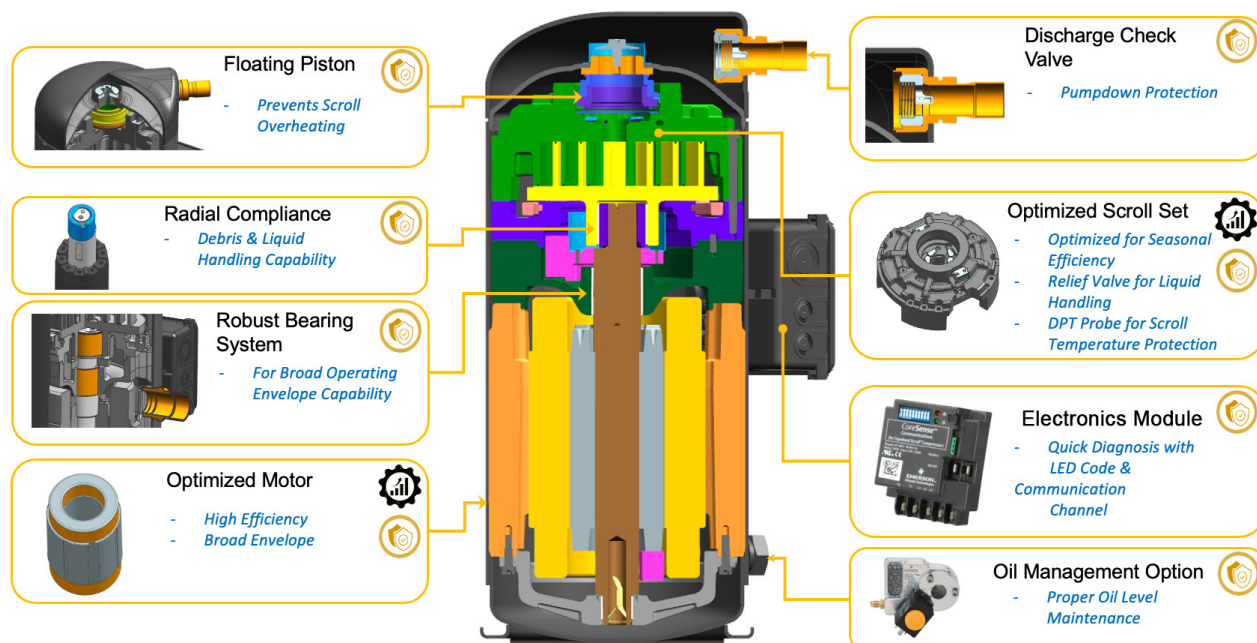
- Successfully passed a 45-pound 400-cycle flood start test without experiencing any breakage, demonstrating the durability of its scroll/Oldham design

Easy to maintain

- Requires fewer maintenance schedules compared to modular chiller systems
- Worry free oil loop maintenance compared to screw chiller systems



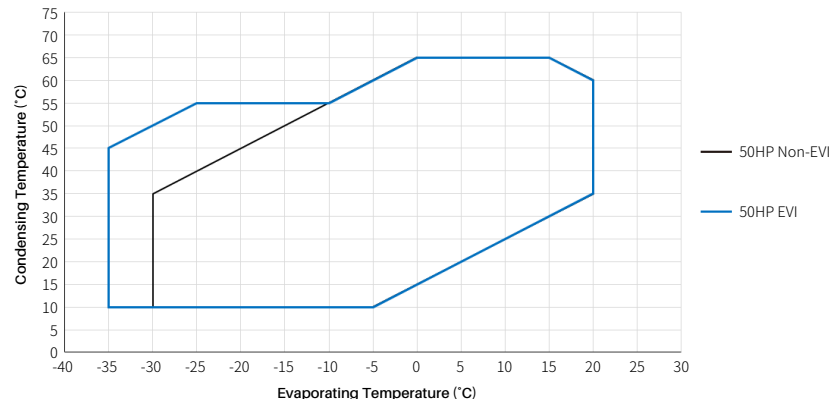
Design Feature



Technical data & operating envelope

Capacity (kW)*	140
Refrigerant	R-410A, R-32, R-454B
Efficiency Performance	COP* 3.4 IPLV 4.95
Modulation	Supports Single / Tandem / Trio Induction Motor Modulation
Motor Type	380-420V / 50Hz 460V / 60Hz 380V / 60Hz
Starting Current	Direct Start
Terminal IP	IP56
Certification and PED	Asia Version: CE, UL PED: R-410A Cat II, R-32/R-454B Cat III
Shell Diameter (mm)	331
Height (mm, w/ mounting)	789
Sound (dB)	91
Weight (kg)	230

*ET/CT/SH/SC/HZ: 4°C/50°C/11.1°C/8.3°C/



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