

2 New technology of DVM PLUS III, DVM PLUS III HR

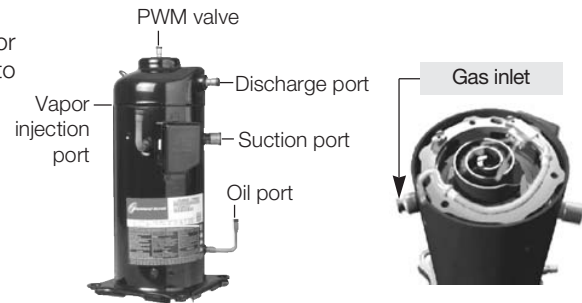
2-1. Digital hybrid system

DHS (Digital Hybrid System) is a brand new concept system composed of DVI (Digital Vapor Injection) compressor, vapor injection technology and turbo intercooler. These 3 factors together provide highly efficient performance.



1) DVI compressor

Efficient and reliable DVI (Digital Vapor Injection) compressor coupled with vapor injection technology has been applied to improve cooling and heating performance and energy efficiency.

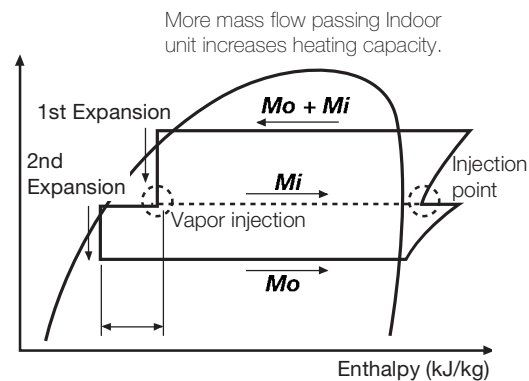
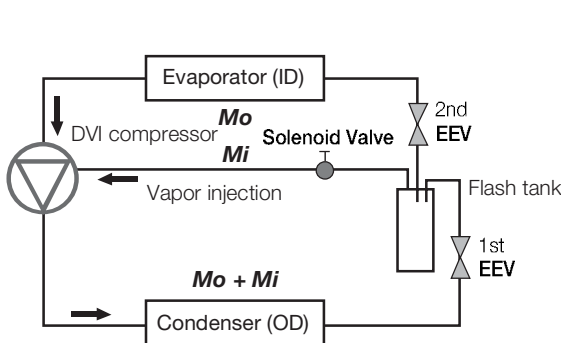


2) Vapor injection technology

Improved cooling and heating performance and COP by a new technology of two stage compression. As injecting optimized mid-range pressure refrigerant, this technology achieved the high heating performance and COP under the lowest temperature, which leads the industry.



- Increase refrigerant flow rates with a new vapor injection technology.
- Improved sub-cooling necessary for long piping installation while increasing cooling and heating performance and COP.



Vapor injection reduces the liquid enthalpy in flash tank, facilitating heat exchanger to absorb heat more.

3) Turbo intercooler

Turbo intercooler (Shell & tube type) improves cooling and heating COP and secures reliable operation of installation with long piping (200m).

