

Process Air Manufacturing: New V-Series Design



Process Air Manufacturing is pleased to announce our new V-Series, 100% variable speed modular water-cooled systems. We will continue to utilize our same variable speed fans, the 2" thermal break design and still offer modules that fit into a typical elevator and through a standard width door. Our new design offers:

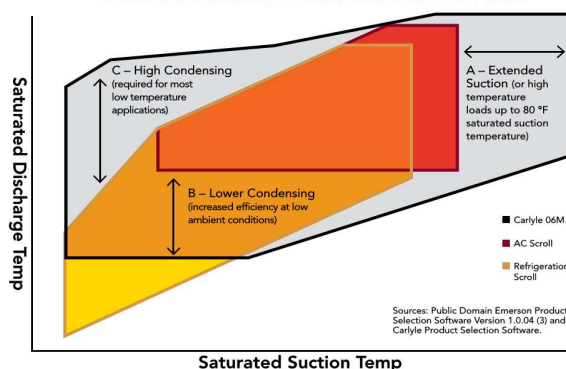
- Higher efficiencies (up to 18 EER in certain applications)
- Wider capacity ranges – Under 20% to over 100% capabilities
- Better control of supply air temperature – Compared to loading and unloading, variable speed operation allows for more steady control of the air temperature being supplied into the space, offering more comfort for your tenants
- Better dehumidification
- Easier, faster installations with newer updated **Distech Eclipse Series** controls and easier “plug and play” connections
- Faster Support via on-line remote connectivity
- More reliability utilizing **Carlyle's 06M** compressors (see information below)
- And so much more!

A little about the Carlyle® 06M Compressor...



- Variable frequency drive capable from 25 Hz to 80 Hz
- Optimized for R-410A
- Dual suction connection locations.
- Wider operating envelope
- Three-cylinder in-line with standard unloading and smart unloading
- Smaller footprint—4" narrower than the 06D compressor
- Advanced factory installed motor and low oil protection

06M OPERATING ENVELOPE—R-410A



Sustained Efficiency Across A Wider Operating Range

The valve system in Carlyle's 06M reciprocating compressors automatically adjusts to ever changing operating conditions for maximum performance around the entire operating envelope. This enables operation at extremely low to very high saturated suction temperatures – ideal for applications with low latent cooling loads or those that require pull down at high temperatures.

Advanced Capacity Control Options

With the 06M, cylinder unloading is available over the entire product range. For more precise capacity control, the 06M can be applied with variable speed drives where the speed can be varied between 25Hz and 80Hz, thus allowing for a wider range in capacities.

Superior Reliability

The 06M has been optimized for R-410A refrigerant. It also contains an integrated positive displacement oil pump to help maintain reliable operation even under marginal lubrication. This advantage is critical in ensuring durability over a wide variety of applications, especially where systems may have large refrigerant charges or experience frequent changes in load conditions and start-stop cycles.

Serviceability

The 06M reciprocating compressor is fully serviceable, unlike a scroll. In the unlikely event that the compressor sustains damage, the 06M can often be repaired on site with minimal downtime. The semi-hermetic design of the 06M can also be remanufactured, making it a more sustainable choice than the scroll.



ABOVE: A 60-ton air handler, assembled in the shop for quality assurance testing.

BELOW: an installed and operational 40-ton modular unit.



DESIGN OPTIONS

- Thermal Break Frame & Casing
- Stainless Steel IAQ Drain Pans
- Coated Coils Available
- Dehumidification / Humidification
- HEPA Filter Sections
- Variable Speed Drives or EC Motors
- Energy Recovery
- Ultraviolet Systems
- DX Air-Cooled / Water-cooled Systems
- Chilled/Hot Water Systems
- Seacoast and Marine Construction

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