06M RECIPROCATING COMPRESSORS WITH R-410A REFRIGERANT

INTRODUCING ONE OF THE LATEST IN RELIABLE, EFFICIENT COMPRESSOR TECHNOLOGY

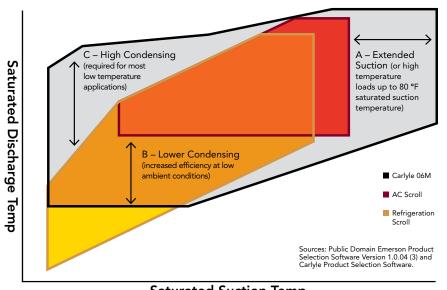




When compared to scroll compressors, the Carlyle 06M reciprocating compressor offers an impressive list of advantages. Here are a few:

• Sustained Efficiency Across A Wider Operating Range

The valve system in Carlyle's 06M reciprocating compressors automatically adjusts to everchanging 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. On the other hand, scroll technology can only be optimized for efficiency at a specific rating point, resulting in either over- or under-compression away from their design point.



06M OPERATING ENVELOPE—R-410A

Saturated Suction Temp

Superior Reliability

Unlike scroll compressors, the 06M 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 – particularly in refrigeration, where systems may have large refrigerant charges or experience frequent start-stop cycles and transients like defrost cycling.

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 two different types of infinite capacity control: either Carlyle's patented pulse width modulation technology for reducing capacity down to 20% of full load or with variable speed drives where the speed can be varied between 25Hz and 80Hz for a capacity range of 42% to 133% of full load.

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.

Regardless of your needs in air conditioning, process cooling or refrigeration, the 06M is the right choice for reliable, efficient operation. It's one of the latest innovations in compressor technology – and just one more reason to count on Carlyle.



06M at a glance:

- 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 O6D compressor
- Advanced factoryinstalled motor and low oil protection

With the evolution from hydrofluorocarbons to more environmentally sound R-410A, your choice in compression technology options has been limited.

TODAY ALL OF THAT IS CHANGING.



With our new 06M family, Carlyle brings to market reliability, efficiency and versatility that have been the hallmarks of reciprocating compressors, now with R-410A refrigerant. Whether it's used in air conditioning, process cooling or refrigeration, 06M provides countless benefits – all from one complete compressor family.



For more information or to find a distributor in your area, please visit us online at www.carlylecompressor.com.



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