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A Complete Line Of  
Remote Rack Refrigeration Systems

## Choosing The Right Rack Refrigeration System



### DRS Series Dual Compressor Systems

For combination cooler/freezer walk-ins, DRS systems provide a hermetic compressor for the cooler (1/2 to 2 HP) along with a Scroll compressor for the freezer compartment (2 HP to 5 HP). Generously-sized condenser coils coupled with the optional Master Controller Reverse Cycle Defrost (MCRCD) system make this one of the most energy efficient refrigeration systems in the industry. Available in 208-230/60/3 V.



### MRS Series Multi-Compressor Systems

Perfect for those end users looking to take advantage of energy savings as well as installation savings. Available in roof mount or ground-based frames, these systems also come in either vertical or horizontal air discharge configuration. As with all Master-Bilt® refrigeration systems, the MRS condensers (water and air cooled) are generously-sized for maximum energy efficiency. MRS systems also accommodate the optional MCRCD system when used with walk-in coolers or freezers. Available in 208-230-460/60/3 V.



### PS Series Parallel Rack Systems

For those who want to maximize energy savings and have full control of an entire refrigeration network within a facility, PS systems are the right choice. A variety of electronic controllers allow you to access functions remotely and integrate into existing networks. PS systems are available in many configurations such as horizontal or vertically discharged air, water or air cooled, indoor with remote condenser, or with condensers and compressors on a common frame. Systems may also be located on the ground or roof. Available in 208-230-460/60/3 V. Digital capacity control also available.



### GPS Series Glycol Parallel Rack Systems

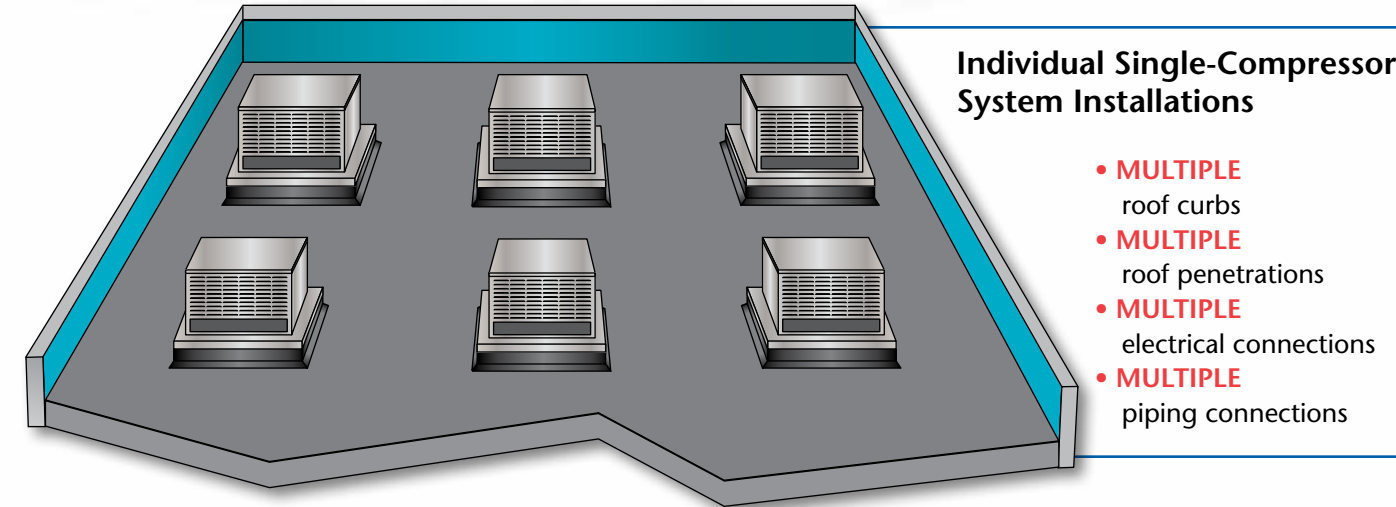
Looking to lower global warming potential for your refrigeration system? The GPS system greatly reduces the refrigerant charge via the secondary, non-toxic glycol medium. Coupled with electronic controls, energy consumption is reduced by 15-20% by comparison to mechanically controlled systems. Just like PS systems, GPS models offer a diverse array of configurations. Available in 208-230-460/60/3 V. Digital capacity control also available.



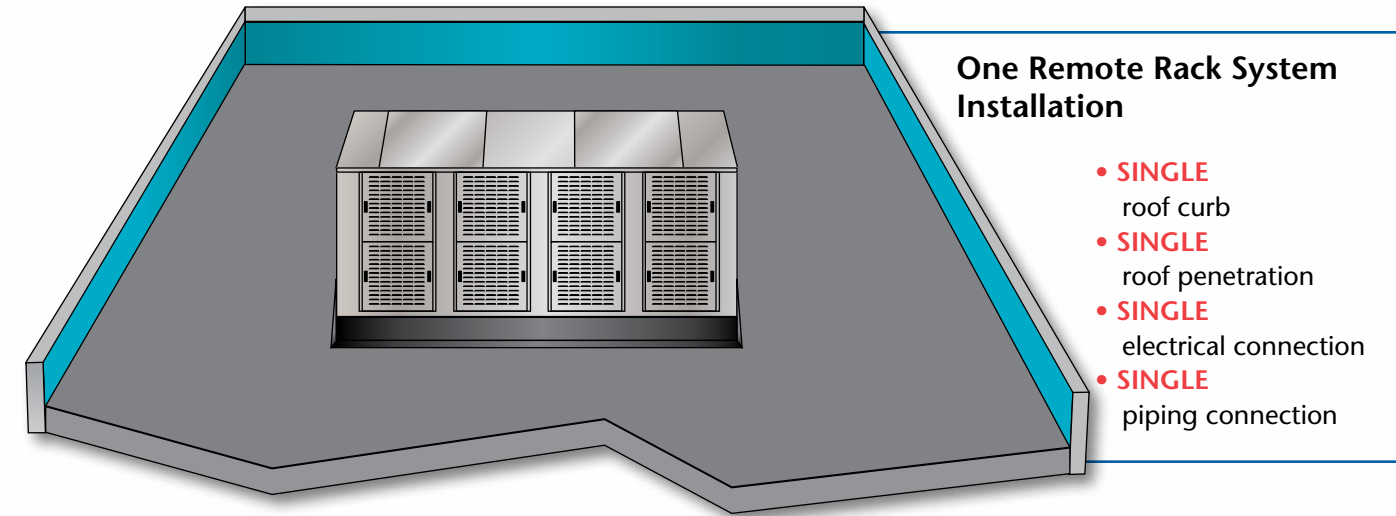
See the glycol rack system video.

## Installation & Energy Savings Compared to Single-Compressor Systems

Remoting all refrigerated equipment in an establishment, including reach-ins, walk-ins and ice machines, to a single multi-compressor or parallel system, removes the heat produced by multiple refrigeration units inside a kitchen or store and reduces air conditioning load and energy bills. A remote system also reduces noise level and service calls and extends the life of equipment.



VS.



## Cost & Energy Savings

	DRS SERIES	MRS SERIES	PS SERIES	GPS SERIES
Cost Savings - One Rack Install vs. Multiple Installs*	\$400-\$500	\$400-\$500 per system	\$400-\$500 per system	\$400-\$500 per system
Cost Savings - Single Roof Penetration vs. Multiple**	\$250-\$350	\$250-\$350 per system	\$250-\$350 per system	\$250-\$350 per system
Further Energy Savings Via Digital Capacity Control	N/A	N/A	15-20%	20-25%***

\* Based on single compressor systems requiring individual disconnects vs. single point power connection.

\*\* Based on single compressor systems requiring multiple roof penetrations vs. single pitch pocket requirement for rack application.

\*\*\* Energy savings gained by using electronic controls which take advantage of floating head pressure on air-cooled systems. Comparison based on typical secondary glycol systems using a mechanical thermostatic expansion valve.

## System Comparison

FEATURE	DRS SERIES	MRS SERIES	PS SERIES	GPS SERIES
Heavy gauge galvanized steel housing with stainless steel option	✓	✓	✓	✓
Removable side panels for easy service access	✓	✓	✓	✓
Pre-wired electrical panel	✓	✓	✓	✓
Single point electrical connection	✓	✓	✓	✓
Roof mount or pad mount	✓	✓	✓	✓
Single roof penetration point	✓	✓	✓	✓
Condensers sized for 110°F ambient application	✓	✓	✓*	✓*
Located indoor or outdoor	✓	✓	✓	✓
Standard head pressure controls and crankcase heaters for low ambient application	✓	✓	✓	
Energy-saving floating head pressure technology	✓	✓		✓
Quick connect ability	✓			
Inside pitch pocket to decrease roof leaks		✓		
Modular condensers		✓		
Modular system design allows adding or changing compressors		✓	✓	✓
Water cooled systems available		✓	✓	✓
Compressors piped in parallel			✓	✓
Remote condenser coil			✓	✓
Capacity control - compressors are not "full on" or "full off"			✓	✓
Digital compressors			✓	✓
Refrigerant leak detection			✓	✓
Optional subcooling on low temp applications			✓	✓
Optional heat reclaim			✓	✓
Optional hot gas defrost			✓	
Optional Master Controller Reverse Cycle Defrost System	✓	✓		

\*PS and GPS series condensers may be sized for more than 110°F depending on location and application.

DRS and MRS multi-compressor rack systems are available with the optional Master Controller Reverse Cycle Defrost (MCRCD) system. The MCRCD is an electronic controller used for Master-Bilt® walk-in cooler and freezers to completely remove frost build-up in coils. Working much faster than electric defrost heaters, **its patented design also saves up to 27% more energy than an all-mechanical system.**

