



PARALLEL RACK REFRIGERATION SYSTEMS: MAXIMIZE ENERGY SAVINGS, MINIMIZE ENVIRONMENTAL IMPACT

What Is A Parallel Rack System?

A parallel system, often referred to as a “distributed” system, is a multiple compressor refrigeration unit piped in parallel to yield smooth capacity control as compared to a single compressor unit. A parallel system can be located in a back room or on a roof in close proximity to refrigeration equipment for reduced piping.

A wide range of compressors is available, including digital scrolls, to better match capacity and budget needs while providing the most energy efficient and environmentally friendly system. Parallel units, matched to an appropriate condenser, may be modular allowing you to add or change compressors as needed. The standard rack housing and frame is made of durable galvanized steel with stainless steel as an option.

Why Use A Master-Bilt Parallel Rack System?

• Energy Savings

- Parallel units can match refrigeration capacity to actual load. This amounts to a 20%+ savings over a single compressor unit.
- Optional subcooling increases refrigerant efficiency on low temp applications by approximately 17%
- Optional heat reclaim increases energy efficiency by reclaiming waste heat from the condenser
- Optional hot gas defrost increases energy efficiency by using waste heat for defrost

• Electronic Control

- Electronic controller units are available for parallel systems
- Choose from a variety of units depending on individual requirements such as monitoring of system features, diagnostics, interfacing with existing building controls and incorporating HACCP recording
- Remote communications are possible
- Optional alarm features

• Reliability

- Multiple compressors ensure that there will be sufficient capacity to handle your refrigeration load
- Less stress on the unit due to smooth running
- Reduced component wear due to less cycling
- Fewer leaks due to less vibration

• A Complete Source

- Master-Bilt can supply the parallel system, walk-ins, reach-ins and all other refrigeration equipment saving you the hassle of “shopping around”

Features Of Master-Bilt Parallel Rack Systems

- Standard galvanized steel housing
- Roof mount or pad mount
- Located indoor or outdoor
- Low profile size
- Existing evaporators can be used on retrofits
- Capacity control – no full on or full off



http://www.master-bilt.com/products/energy_saver.htm



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