

Vertical and Horizontal Receiver Compressor Racks



HRP Horizontal Receiver Single-stack configuration



Tyler's V and H series rack systems provide centralized refrigeration from 20 to 360 HP. Customized to fit your need, both of these units are available single stacked with front or rear access, or double stacked with rear access. Design options vary from straightforward configurations, to complex state of the art systems that meet your particular requirements.

Standard Features

- ♦ Structural steel base platform.
- ♦ High efficiency semi-hermetic reciprocating compressors.
- ♦ Face mounted microprocessor control panel.
- ♦ Integral electric defrost control.
- ♦ Mechanical oil, defrost, and liquid level controls.
- ♦ Horizontal and vertical receiver with liquid level indicator and pressure relief valve.
- ♦ Isolation valves at suction and liquid stub connections.
- ♦ Insulated suction lines.
- ♦ Leak-tight construction with preformed tubing, minimal brazed joints, minimal flare fittings, and flexible lines in lieu of capillary tubing where possible.
- ♦ Units are helium leak and electrically tested.
- ♦ UL and CUL listed.



Centralized VRP Design installed in custom distribution room



This 8-compressor VRP incorporates a double-stacked design and end-mounted control panels that provide high-horsepower output in a smaller footprint.

Factory Options

Physical Arrangement

- ◆ Front or rear piping access.
- ◆ 200-230 volts, 380, 460, or 575 volt 3-phase main electrical.
- ◆ Single-point connection for power and control.
- ◆ Separate voltage-specific connections.
- ◆ Direct expansion refrigeration.
- ◆ Type of refrigerant.
- ◆ Secondary loop / glycol design chiller design.
- ◆ Remote or integrated defrost panel.
- ◆ Utility outlet at control panel for 5A Max.
- ◆ UL and cUL listed Unitary Component.

Compressors

- ◆ Reciprocating semi-hermetic and open drive compressors.
- ◆ Intelligent store semi-hermetic compressors.
- ◆ Compound two-stage reciprocating compressors.
- ◆ Scroll and economized scroll hermetic compressors.
- ◆ Digital unloading scroll hermetic compressors.
- ◆ Semi hermetic screw compressors.
- ◆ Economized screw and scroll compressors.
- ◆ Compound two-stage screw compressors.
- ◆ Four-year extended compressor warranties.

Piping

- ◆ Multiple discharge and suction groups.
- ◆ Split suction group with a common discharge.
- ◆ Type-L ACR refrigeration copper.
- ◆ Manifold mounted on the rack.
- ◆ Remote manifolds.
- ◆ Suction and Liquid stub isolation valves at the manifold.
- ◆ Pressure taps at each suction and liquid stub, and at the discharge header.
- ◆ Loose or mounted liquid line solenoids.
- ◆ Solenoids with manual lift stems.
- ◆ Insulated suction and liquid lines.
- ◆ Suction filters per suction group or per compressor.
- ◆ Replaceable core liquid filter drier.
- ◆ NC-1, NC-2 condenser controls.
- ◆ Mechanical subcooling.
- ◆ Enviroguard I & III.
- ◆ Split condenser "Winter" control.
- ◆ Heat reclaim for water or space heating.
- ◆ Insulated and heated receiver.
- ◆ Receiver sight glass.
- ◆ Mechanical float liquid level indicators.
- ◆ Electronic liquid level indicators.
- ◆ Receiver single and dual pressure relief valves.

Controls

- ◆ Mechanical or electronic EPR controls.
- ◆ Encapsulated Hi / Low pressure safety controls.
- ◆ Adjustable mechanical safety controls.
- ◆ Mechanical or electronic oil fail control.
- ◆ Computer controlled defrost.
- ◆ Time-off electric, hot gas, or latent gas defrost operation.
- ◆ Phase loss protection.
- ◆ Remote monitoring capabilities.
- ◆ In-store alarm or touch-screen communications.
- ◆ Computer leak detection.
- ◆ Computer lighting control.
- ◆ Computer A/C control.
- ◆ Case controller interface boards.
- ◆ Solid-state computer logic at compressors.
- ◆ Computer relay board condenser control.
- ◆ Variable speed drive condenser control.

Mechanical Options

- ◆ Crankcase heaters.
- ◆ Vibration isolation pads.
- ◆ Multiple refrigerant options.
- ◆ Centrifugal oil separator.
- ◆ Coalescing oil separator.
- ◆ Inline or dual inline oil filters.
- ◆ Air or evaporative cooled remote condenser.
- ◆ Water (shell & tube) condenser on rack.
- ◆ Cylinder unloading for capacity control.
- ◆ Load shifting between split suction.
- ◆ Rupture disk with indicator gauge.
- ◆ Rack spring mounts.
- ◆ Low speed or "quiet" air cooled condenser.



Manifold piping on HRP rack.