

SYSTEM INFORMATION

The Vertical High Static (VHS) Systems are designed to provide refrigerated air to medium-high temperature spaces. VHS evaporators are powerful enough to be installed as far as 25 feet away from the refrigerated room. The chilled air is ducted back into the room, eliminating noise or the inconvenience of an in-room evaporator, which frees up valuable space.

VHS evaporators are available in capacities from 1,800 to 20,000 BTU per hour and are used with an R134a refrigerant.

FEATURES

- Low noise for sensitive areas
- Thermally protected motors
- Insulated rust-proof aluminum housing
- Ideal for mechanical closets
- Constant pressure expansion valve and solenoid valve standard
- High performance staggered coils with copper tubing mechanically expanded into aluminum fins
- Each unit pressure tested to eliminate leaks.
- Factory wired for easy field installation
- Fan speed controller Provides 1/4" H2O static pressure for duct runs
- Coil and drain pan coated with anticorrosion coating
- ETL listed

AVAILABLE OPTIONS

Our Application Engineers can help you design the system you need. Call us today, (562) 513-3017 and we'll help you get the right product for your project.

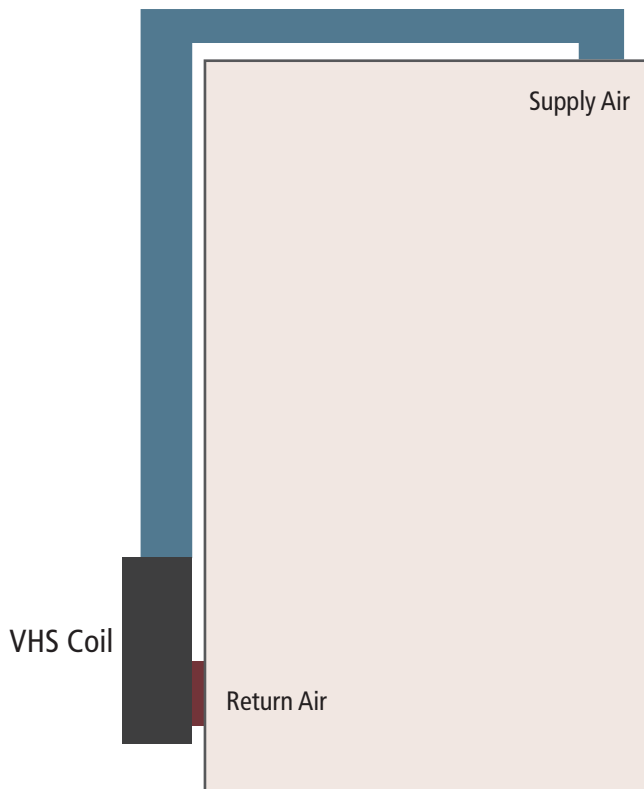
- Copper or coated coils for coastal/special applications
- Secondary drain pan for elevated/sensitive installations
- Stainless steel or painted cabinets available for corrosive environments
- Industrial applications available



VHS SERIES

VHS COOLING SYSTEM TYPICAL INSTALLATION

- Installation diagram shows the typical duct layout. Actual layout to be determined by installer
- Duct work not to exceed 50' total length
- Keep line sets as short as possible
- The system is controlled by a pump down control system. There is no control wiring between thermostat and condensing unit
- For short duct length mat install a fan speed to slow down fan speed
- Drain line must always flow downhill to drain or pump
- Standard line sets should be 50' or less. Extended runs may require larger line sizes and 3 ounces of oil must be added for every 10' over 35'
- The line connections at Fan Coil and Condensing Unit may not be the same as the required line sizes
- Excessive number of turns will cause refrigerant flow problems. This could cause early compressor failure. Suction line accumulators are recommended and required if working lower than the normal 55-65° operating range from wine cellar



WIRING DIAGRAMS

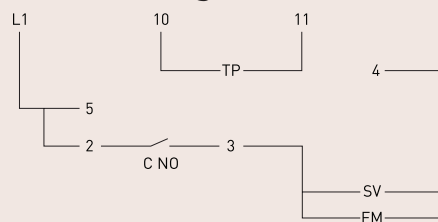
Field Wiring

- L1** 115 V Line Voltage
- N** Neutral
- SV** Solenoid Valve
- FM** Fan Motor
- TP** Temperature Probe

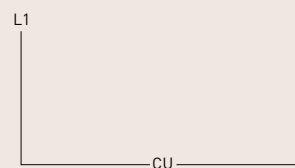
Back of Controller Connections

- 10** Temperature Probe
- 11** Temperature Probe
- 4** Neutral
- 5** 115V Line Voltage
- 2** Jumper from 5
- 3** Switch Leg to Fan Coil
- C NO** Internal normally open contact

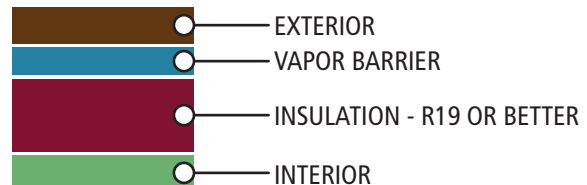
Fan Coil Wiring



Condensing Unit Wiring



CEILING CONSTRUCTION



WALL CONSTRUCTION

