

EXPLOSION PROOF AIR COOLED CONDENSING UNIT (ACCU)

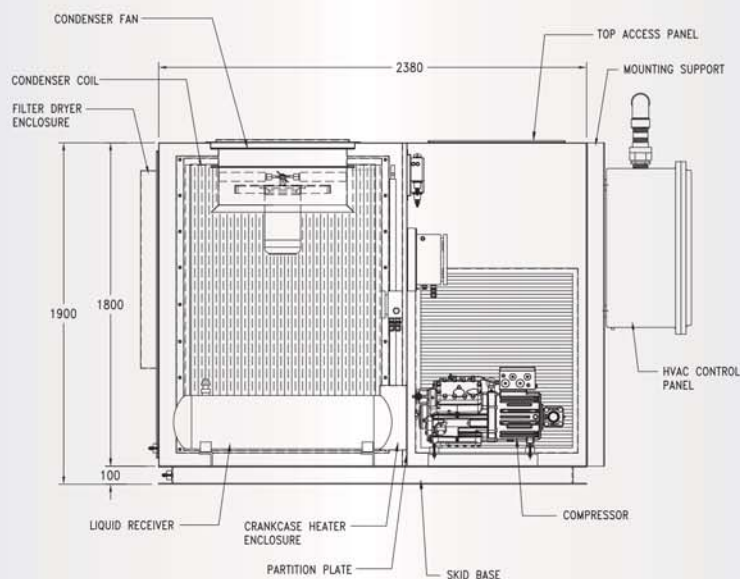
The direct expansion system is the simplest system but to obtain reliable operation certain constraints should be observed.

1. Each compressor should serve only one evaporator coil for good control.
2. Pipe runs between compressor and evaporator coil should be kept as short as possible (not more than 50 feet) to reduce friction.
3. The evaporator coil should be at the same elevation or within 10 feet of the elevation of the compressor and condenser which serve it.
4. Refrigerant gas lines must be designed to ensure oil return to the compressor.
5. Systems must be designed with pump down or other provisions to ensure that compressors are not damaged on start up by refrigerant dilution of the lubricating oil or liquid entering the compressor.



SPECIAL FEATURES

- Major components include compressors, condenser coils and condenser fans.
 - System may also incorporate oil separators, receivers, accumulators, filter dryers and other pipeline components.
 - Compressors are semi-hermetic or open drive type.
 - Cooling coils have copper tubes and copper fins, and are electro tinned after fabrication or treated with an equivalent anti corrosion finish.
 - Condenser fans are either axial, mixed flow or centrifugal type with motors appropriate to the service
 - Skids are individually designed for each application.
 - Control panels can be incorporated into air handling unit to include motor starters, fuses, isolators, control transformer and control logic.
 - Air cooled condensing units are supplied fully wired ready for client connection, single point connections for controls and electrical power are provided at junction boxes at the skid perimeter.
 - Equipment can be provided for most three phase electrical supplies and for operation in Zone 1 Gas Group IIA/IIB/IIC hazardous area or Class 1 Division 1 Group BCD hazardous area.
- Air cooled condensing units are designed on a project-by-project basis
 - To confirm roughing-in dimensions contact OSV



EXPLOSION PROOF AIR COOLED AIR HANDLING UNIT (AHU)

Air handling unit combines the air treatment components of air-conditioning systems into one unit so reducing site time required for matching and installation of components. The minimum components of a typical air handling unit are an inlet filter, evaporator coil and fan. Units may incorporate attenuators to reduce noise levels, humidifiers, reheaters and other special components for particular applications.

SPECIAL FEATURES

- Frames are formed to a pentapost configuration.
- Panels are removable to give access to internal components.
- Skids are individually designed for each application.
- Access panels are provided adjacent to belt drives to permit inspection and maintenance.
- Centrifugal fans and fan drive motors are installed on a subframe. Subframes are vibration isolated from the air handling unit.
- Cooling coils have copper tubes and copper fins, and are electro tinned after fabrication
- Control panels can be incorporated into air handling unit to include motor starters, fuses, isolators, control transformer and control logic.
- Air handling units are supplied fully wired ready for client connection.
- Equipment can be provided for most three phase electrical supplies and for operation in Zone 1 Gas Group IIA/IIB/IIC hazardous area or Class 1 Division 1 Group BCD hazardous area.
- Air handling units are designed on a project-by-project basis.
- To confirm roughing-in dimensions contact OSV.

