

# DRY STAR HOT

## REFRIGERATED AIR DRYER

Ref: 11162.01  
Date: 15 August 2003  
Cancels: 15 November 2002

Campbellsville, Kentucky

---

### STANDARD CONSTRUCTION

**Refrigeration Unit** – Hermetically sealed refrigerant compressor with an air-cooled condenser. Motor overload protection is provided on all units. The condenser coil features copper tubes and aluminum fins, axial fan, complete with internal and external protection grille and nozzle.

**Precooler/Reheater** – Provided on all models to reduce the incoming cooling load. The precooler/reheater is a heat exchanger in which the warm moist compressed air is cooled by the cold dried air coming from the evaporator.

**Evaporator** – The second stage evaporator chills the compressed air to the final pressure dew point. The heat exchanger is constructed of aluminum and combines precooler/reheater, evaporator and service-free demister moisture separator in one compact insulated unit. This construction provides excellent heat transfer with the lowest possible pressure drop.

**Filter/Separator** – A high efficiency moisture separator located downstream of the aftercooler with a 3.0 micron coalescing element is provided on all models. The coalescing element assures high efficiency is maintained at all operating flows. All models equipped with demister type moisture separators to remove condensed liquids from compressed air

**Condensate Drains (2)** – An automatic no loss drain valve is integrated in the filter/separator and the demister separator for system condensate disposal.

after evaporator. The demister combines high efficiency with low-pressure drop. The water separator is insulated in formed polystyrene.

**Refrigerant Filter/Dryer** – The filter dryer is solid desiccant type construction. Installed in the liquid refrigerant line downstream of the refrigerant condenser. Protects the refrigeration system from moisture and dirt.

**Insulation** – The evaporator, moisture separator and interconnecting piping are fully insulated to keep cooling losses to an absolute minimum.

**Dryer Enclosure** – Sheet metal finished with a high quality, durable, baked on textured paint. Access to internal components is provided through an easily removed panel.

#### Controls and Instrumentation –

- On/Off Switch
- Dryer On light
- Performance indicator
- Fan control pressure switch
- High refrigerant pressure switch (50 - 100 scfm)