

EH HEATED DESICCANT AIR DRYER EH150 –EH8000

Compression Technologies and Services
Davidson, NC 28036

Date: 15-Mar-2016
Cancels: All Previous

STANDARD CONSTRUCTION

DESICCANT - Activated Alumina.

PREFILTER - A high efficiency (H) coalescing filter is factory-mounted on the dryer package for models EH150 – EH1500. On models EH1800 and larger, the filter is supplied and shipped loose for field installation. The compressed air is pre filtered prior to entering the dryer's drying vessel to collect any contaminants such as dirt, water or oil droplets from the upstream compressor. The filter has a 0.01 micron rating and 0.01 ppm rating.

AFTERFILTER – A high temperature (G) particulate filter is factory-mounted on the dryer package for models EH150 – EH1500. On models EH1800 and larger, the filter is supplied and shipped loose for field installation. The compressed air is filtered downstream from the drying vessel to collect any dusting that may have occurred as a result of the drying process. The filter has a 1.0 micron rating and a maximum temperature rating of 450F.

AUTOMATIC DRAIN VALVE – For dryers up to EH1500, a mechanical float operated drain valve is included as standard for constant removal of contaminates. For dryers EH1800 and larger with ship loose filters, no drain valve is included. For dryers EH1800 and larger with filters mounted on a separate skid, a manual ball valve is included as standard for the pre-filter. A no-loss drain or electronic drain can be provided as a shipped-loose option. This drain would be ordered and shipped separately.

FILTER DIFFERENTIAL PRESSURE GAUGE – These are included on pre and afterfilters to monitor condition of the filter elements.

* For maximum energy efficiency it is recommended to change prefilter and

afterfilter elements every year or as indicated on the differential pressure gauge.

DRYING VESSELS – Of welded steel construction, all EH models are ASME code stamped. Removable stainless steel screens are provided at the top and bottom of each desiccant tower to prevent carry-over of desiccant. Accessible fill and drain ports.

TOWER PRESSURE GAUGES - 2-1/2" or 3-1/2", 0-300 Psig, brass bourdon tube, panel mounted on all models.

TOWER TEMPERATURE GAUGES – 3", 50-500 F range, mounted on each desiccant chamber in a thermowell.

SWITCHING VALVES -
EH150 to EH500

- High Performance Actuated Ball Valve
- Carbon Steel Body
- Stainless steel disc/ball/stem
- Purge valves are actuated ball valves

EH600 to EH8000

- High Performance Actuated Butterfly Valves.
- Carbon Steel Body
- Stainless steel disc/ball/stem.
- Purge valves are actuated ball valves.

CHECK VALVES -

All models use high performance, carbon steel bodied check valves with aluminum internals and silicon seat.

ELECTRICAL ENCLOSURE - NEMA 4 standard. Constructed in accordance with UL/ULC 508A

CONTROLS - Microprocessor Controller with integrated keypad interface and two line display is standard. Controller is specifically programmed to execute all

valve switching functions as well as monitor dryer operation. Provides displays for the following functions and alarms:

- Heater High Temperature Alarm
- Failure to Shift Alarm
- Heater Failure
- Heater Operation and Temperature
- Regeneration Sequence Status
- Failure Code Storage

Also includes a dryer schematic with visual indications for:

- Dryer on
- Dryer off / alarm
- Left/Right Tower Drying
- Left/Right Tower Regeneration
- Heater Operation

ASSEMBLY - Fully assembled on self-supporting fabricated steel frame.

MANUAL PURGE

ADJUSTMENT - A purge adjustment valve included with a mounted purge pressure gauge.

PRESSURE RELIEF VALVE - ASME Fire coded relief valve is located on each desiccant chamber.

PIPING AND FITTINGS -

1" to 6" Schedule 40, SA53 Gr. B ERW carbon steel pipe.

1" to 3" uses threaded 150# black malleable iron fittings.

4" to 6" flanged and welded fittings. ANSI B16.5 flanged inlet and outlet air connections.