

# HLA & HL HEATLESS DESICCANT AIR DRYER

HLA90 – HLA600

HL800 – HL5000

Compression Technologies and Services  
Davidson, NC 28036

Date: **01-Sep-2017**  
Cancels: **All Previous**

## STANDARD CONSTRUCTION

**DESICCANT** – High strength 1/4” activated alumina.

**PREFILTER** – A high-efficiency (H) coalescing filter is factory-mounted on the dryer package for models HLA90 – HLA600 and HL800 – HL1500. On models HL1800 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 0.008 ppm rating.

**AFTERFILTER** – A particulate (G) filter is factory-mounted on the dryer package for models HLA90 – HLA600 and HL800 – HL1500. On models HL1800 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 0.1 micron rating.

**DRAIN VALVE** – For dryers HLA90 – HLA600 and HL800 – HL1500, an automatic float drain is included as standard for constant removal of contaminants. For dryers HL1800 and larger with ship loose filters, no drain valve is included. For dryers HL1800 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 for 800 SCFM and larger dryers and factory installed for 90 – 600 SCFM HLA series products.

**FILTER DIFFERENTIAL PRESSURE INDICATORS** – These are included on pre and afterfilters to monitor the condition of filter elements. Filters on HLA90 – HLA600 and HL800 – HL1500 dryers are equipped with a dual scale differential pressure gauge. Filters for HL1800 and larger dryers are equipped with a color coded differential pressure gauge.

\* For maximum energy efficiency it is recommended to change prefilter and afterfilter elements every year or when they indicate restricted flow.

**DRYING VESSELS** – Of welded steel construction, all HL models are ASME code stamped. Removable stainless steel screens are provided in the inlet and outlet nozzles 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” dial, 0-300 psig, brass bourdon tube mounted on each vessel for ease of visibility.

**PRESSURE RELIEF VALVE** – A fire sized safety valve is located on each desiccant chamber. Pressure relief valve is set at 165 psig.

### SWITCHING VALVES -

- High-performance non lubricated diaphragm valve OR stainless steel angle seated valves (HLA 90 – 600)
- Normally open inlet valve
- Normally closed exhaust valves
- Integrated pilot air circuits.

### OUTLET CHECK VALVES -

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

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

**CONTROLS** – Microprocessor Controller with integrated keypad interface is standard. See HLA model series for additional information regarding the controller. Includes a dryer schematic with visual indications for:

- Dryer on
- Dryer off / alarm
- Left and right tower drying indication
- Left and right tower regeneration indication.

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

### MANUAL PURGE

**ADJUSTMENT** – A purge adjustment valve is included with a mounted purge pressure gauge. Refer to operator manual for purge settings.

**MUFFLERS** - One for each purge air outlet to reduce the noise level of the purge air exhaust to within OSHA standards.

### 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.