



HPSA - HEATLESS PRESSURE SWING ADSORPTION

This proven technology is designed and built in our Burton upon Trent factory by a highly skilled team of engineers working to EU engineering standards. Although we have a standard range of product available off the shelf for next day delivery, we can build bespoke dryers to suit specification applications and private label them for OEM customers.

HPSA dryers are sold as "Plug and Play" and come skid mounted with their own filtration package with pre and after filtration as standard.

These dryers use positively driven valves and full flow non-return valves and have no "shuttle valves" as fitted within inferior quality dryers.

Designed for a long trouble free service life, each HPSA uses Dri-Zorb 27 desiccant media which delivers constant low dewpoints whilst using the lowest possible amount of regeneration air.

The digital control panel which has LED display as standard, can be upgraded to include digital dewpoint display and dewpoint control. It can communicate with most BMS systems and compressors for automatic stop /start or timed duty.

All Hi-line products are supported by a Nationwide network of Hi-line Service Engineers, for the service and maintenance of air dryers of all brands of manufacture, both Adsorption and Refrigeration.

Medium:

Compressed air / nitrogen

Medium temperature:

max. +50 °C

Ambient temperature:

min. +4 °C, max. +50 °C

Medium:

min. 4 bar (g), max. 11 bar (g)

Power supply:

230 V / 115 V AC / 50 - 60 Hz, 24 V DC or pneumatic

Electrical power consumption:

approx. 40 W

Dewpoint (PDP):

-20C, -40 °C or -70 °C

| Technical Specifications- HPSA Desiccant Dryers | | | | | | | | |
|---|----------|-------|-------|--------|-----------|------------|------|------|
| Dryer Type | Capacity | | | Conn | Wgt Kg | Dimensions | | |
| | Scfm | Nm³/m | Nm³/h | | | W | D | H |
| HPSA-70 | 75 | 2.12 | 128 | 1" | 90 | 580 | 620 | 1340 |
| HPSA-100 | 100 | 2.83 | 169 | 1" | 130 | 630 | 620 | 1540 |
| HPSA-135 | 135 | 3.82 | 230 | 1 ½" | 260 | 750 | 700 | 2020 |
| HPSA-165 | 165 | 4.67 | 280 | 1 ½" | 310 | 750 | 700 | 2230 |
| HPSA-225 | 225 | 6.37 | 383 | 1 ½" | 370 | 1450 | 910 | 2200 |
| HPSA-280 | 280 | 7.92 | 476 | 1 ½" | 450 | 1450 | 910 | 2500 |
| HPSA-350 | 350 | 9.91 | 595 | 2" | 480 | 1280 | 910 | 1970 |
| HPSA-450 | 450 | 12.74 | 765 | 2" | 510 | 1280 | 910 | 2350 |
| HPSA-565 | 565 | 15.99 | 960 | 2 ½" | 700 | 1520 | 1100 | 2200 |
| HPSA-735 | 735 | 20.81 | 1250 | 3"PN16 | 900 | 2350 | 830 | 2360 |
| HPSA-850 | 850 | 24.06 | 1445 | 3"PN16 | 950 | 2350 | 830 | 2610 |
| HPSA-1130 | 1130 | 31.14 | 1920 | 4"PN16 | 1200 | 2350 | 850 | 2870 |

Larger heatless dryers are available, however please consider zero loss option HBP dryers above 1000m³/hr. Compressed Air CAPACITY @ 7 Barg 35°C.

General Information

- One Year Warranty (parts & labour)
- Electrical Panel to 17th Edition IEE Regs
- Stainless Steel Pipework
- Independent Switching Valves
- EU Standard Coded Vessels
- Fully Automatic Self Contained
- HDC1 Digital Dewpoint Controller
- Painted RAL 5015
- Vessel Pressure Gauges
- IP 65 Protection
- Exhaust Silencers
- Made in the U.K.
- Skid Mounted
- Pre & After Filters Included

Optional Equipment

- AEMS - Automatic Energy Management System
- Includes: Digital Dewpoint Readout
High Humidity Alarm
Set & Demand Regeneration
- Dewpoint to -70 degrees C
- Control Air Filter with AEMS
- Auto Start/Stop Control



HDC 1 Dewpoint Controller



Filtration package as standard



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