

HLS Series Heatless Regenerative Dryers

Get extremely dry compressed air for your lower flow applications.

Models HLS-55 through HLS-150 deliver a low -40°F dew point to protect sensitive instruments, pneumatic equipment, and processes from the harmful and costly effects of compressed air moisture.

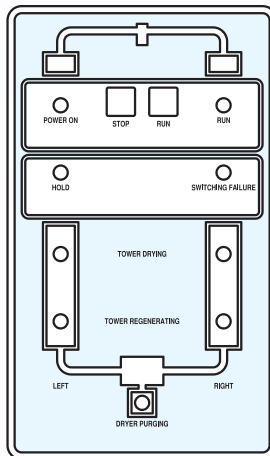
For even greater protection, these models are able to deliver a -100°F dew point if required.

On systems with dry air receiver tanks the Hold Feature preserves system pressure. The Hold Feature reduced purge air and saves energy by automatically closing the purge exhaust valve when the compressor unloads or is on standby. It resumes the cycle when compressor flow returns.

The **cycle monitor** with LED and remote contact allows immediate notification of any disruption of the operation cycle. The controller also features a **membrane panel** and a **NEMA 4X enclosure** which clearly displays dryer operation with LED indicators for each step in the cycle sequence.

Models HLS-55 through HLS-150 are ideal for:

- Sensitive Instruments
- Pulse air
- Critical point-of-use applications
- Laboratory use
- Paint spraying



Touchpad controller with automatic safety features and status display ▶



FEATURES

55 through 150 SCFM

-40°F or -100°F pressure dew point

No purge air loss when compressor unloads

Built in cycle LEDs

BENEFITS OF THE HLS SERIES

Dependable // Low maintenance // Easy to monitor

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STANDARD EQUIPMENT

- Status indicator LEDs
- Activated alumina desiccant
- Control air filter
- Enamel exterior finish with primer on towers, and supports
- NEMA 4X control enclosure
- 115V/1PH/50-60HZ supply power
- Failure to switch LED and contact
- Touchpad controller
- Dryer "Hold" feature
- -40°F dew point, available for -100°F dew point
- Permanently lubricated inlet transfer valve
- Purge exhaust muffler
- Removable stainless steel desiccant diffusers
- Tower pressure gauges
- Welded steel vessels (models 120 & 150 are to ASME code)

OPTIONAL EQUIPMENT

- 230V/1PH/50-60HZ supply power
- Mounted filters
- Mounted filters with three-valve bypass
- Digital dew point meter with alarm contact and recorder output (shipped separately)

Contact factory for other requirements.

DIMENSIONS & SPECIFICATIONS

Model No.	A		B		C		D		E		F		In/Out Conn.	Desiccant Weight Per Tower	Weight		
	in	cm	in	cm	in	cm	in	cm	in	cm	in	cm			lbs	kg	
HLS-55	65	165	19	48	20	51	6	15	63	160	4	10	1/2" NPT	31	14	230	104
HLS-80	86	218	19	48	20	51	6	15	84	213	7	18	1" NPT	44	20	280	127
HLS-120	76	193	25	64	20	51	6	15	75	191	8	20	1" NPT	68	31	385	175
HLS-150	86	218	25	64	20	51	6	15	85	216	8	20	1" NPT	83	38	445	202

Due to our policy of continuous improvement, dimensions and specifications may change without notice. Request certified drawing for pre-piping.

MAXIMUM CAPACITIES SCFM / Nm3hr for -40°F PDP

Model No.	60 PSIG 4.1 BARG	75 PSIG 5.2 BARG	90 PSIG 6.2 BARG	100 PSIG 6.9 BARG	125 PSIG 8.6 BARG	150 PSIG 10.3 BARG
HLS-55	36 58	43 69	50 80	55 88	61 98	66 106
HLS-80	52 84	63 101	73 117	80 129	88 142	96 154
HLS-120	78 125	94 151	110 177	120 193	132 212	144 232
HLS-150	98 158	117 188	137 220	150 241	166 267	180 289

Maximum capacities based on 100 PSIG, 100°F INLET AND 100% RH.

Correction Factors

Multiply maximum capacity by .9 for 110°F, .8 for 120°F, .8 for -100°F dew point (4 minute NEMA cycle)

Operating Conditions

Operating Conditions	Maximum	Minimum
Pressure	150 PSIG	60 PSIG
Inlet Air Temperature	120°F	40°F
Ambient Temperature	120°F	40°F

RECOMMENDED FILTERS

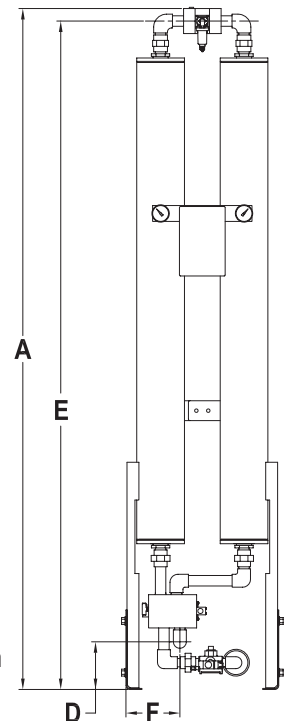
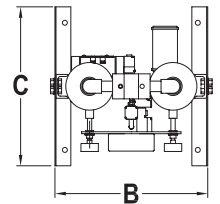
Model No.	Pre-filter	After-filter
HLS-55	F200-55-1/2-C-AD	F200-55-1/2-RB-MD
HLS-80	F200-85-3/4-C-AD	F200-85-3/4-RB-MD
HLS-120	F200-150-1-C-AD	F200-150-1-RB-MD
HLS-150	F200-150-1-C-AD	F200-150-1-RB-MD

For larger flows, see Technical Specifications brochure for HL Series models from 200-5000 SCFM

REGENERATIVE DRYERS MUST HAVE CLEAN, OIL-FREE INLET AIR

Lubricated compressors: Dryer must be equipped with the proper prefilters as shown in the chart. An afterfilter should be installed downstream of the dryer to prevent desiccant particle migration.

Non-lubricated compressors: A coalescing prefilter is required to prevent condensates, pipe scale and dust from fouling the dryer. An afterfilter should be installed downstream of the dryer to prevent desiccant particle migration.



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