

## HLSXA & HLSXG Explosion Proof Series Heatless Dryers

### Safety and reliability in demanding environments

Van Air Systems Explosion Proof Series Heatless dryers deliver extremely dry gas or compressed air in the harshest and most challenging operating environments where safety and performance are of central importance. HLSXA and HLSXG regenerative desiccant dryers are explosion proof and have been designed to operate in areas classified as hazardous, Class 1, Division 1, Groups C & D, per the National Electric Code.

**HLSXA – For compressed air service.** In the oil & gas and petrochemical industries, operators often rely on compressed air to run essential equipment and instrumentation within confined spaces where explosive gases may be present. HLSXA dryers can be safely operated in these hazardous area locations. Each dryer consists of two desiccant columns. While one column is on-line drying compressed air, the other column is regenerated using a portion of depressurized purge air. Pressure dew points of -40°F or lower can be achieved with a properly sized HLSXA dryer.

**HLSXG – For natural gas service.** HLSXG dryers remove water vapor from saturated streams of hydrocarbon gas through the process of pressure swing absorption. HLSXG dryers deliver a -40°F water dew point and are ideal for instrument gas drying and fuel gas conditioning. All seals and solenoids are approved for gas service. Purge gas and exhaust vapors from control solenoids are routed to a single collection point and may be routed to a vapor recovery unit or flare.

### Explosion Proof Heatless Dryers are ideal for:

- Instrument gas dehydration
- Fuel gas conditioning

#### FEATURES

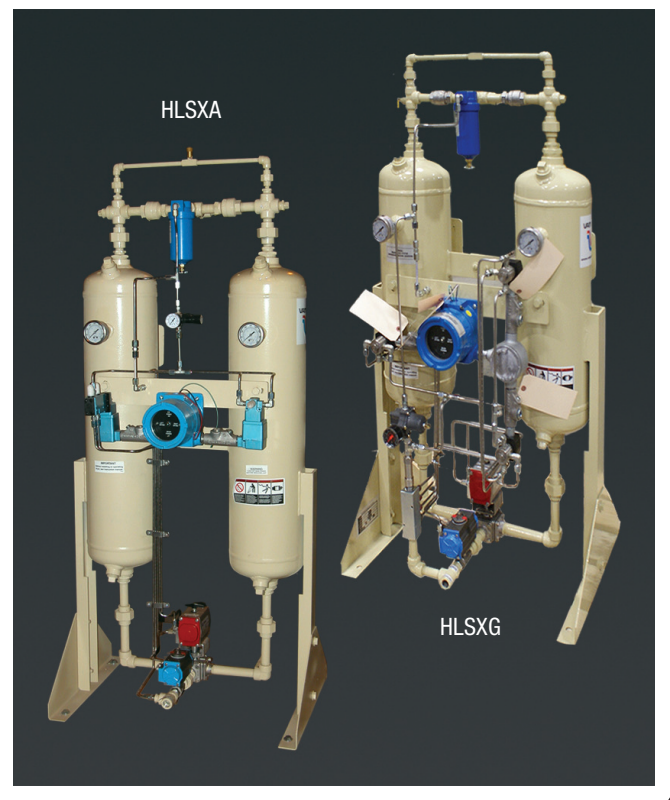
-40°F pressure dew point

Flow capacities from 55-800 SCFM at 100 PSIG

Explosion proof controls  
Class 1 division 1 groups C & D

Small footprint for  
convenient installation

250 PSIG maximum  
working pressure



### BENEFITS OF THE HLSXA & HLSXG SERIES

Safe // Reliable // Operates in hazardous environments

[vanairsystems.com](http://vanairsystems.com)

## STANDARD EQUIPMENT

- Manufactured to the ASME Code, Section VIII, Div. 1
- Vessels stamped "UM" symbol
- NEMA 4/7 electrical enclosure
- Explosion proof (Class 1, Div.1, Groups C&D)
- 12 VDC or 115V supply power
- Activated alumina desiccant, 1/8" (2-5 MM)
- Stainless steel control tubing (HLSXG)
- HLSXA – compressed air service
- HLSXG – natural gas service
- Canadian registration number (CRN)

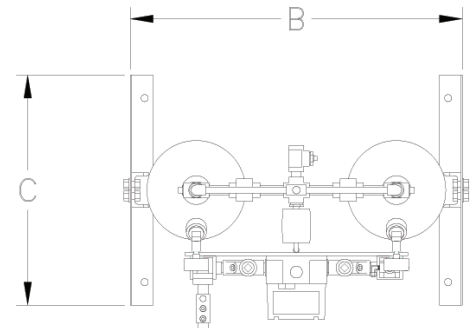
## DIMENSIONS & SPECIFICATIONS

Model No.	A		B		C		In/Out Conn.	Desiccant Weight Per Tower		Weight with Desiccant	
	in	cm	in	cm	in	cm		lbs	kg	lbs	kg
HLSXA/G-55	55	140	29	74	20	51	1/2" NPT	33 1/2	16	280	127
HLSXA/G-80	64	163	29	74	20	51	3/4" NPT	47	22	340	154
HLSXA/G-120	78	199	29	74	20	51	1" NPT	68	31	415	188
HLSXA/G-150	88	224	29	74	20	51	1" NPT	83	38	475	216

\* Consult factory for weights dimensions and flow capacities of dryers 250 through 800 SCFM.

## OPTIONAL EQUIPMENT

- Coalescing pre-filter
- Particulate after-filter
- Factory mounting of filters and by-pass valves
- Available for higher flow rates
- Safety relief valves
- 24 VDC supply power



## MAXIMUM CAPACITIES HLSXA/G SCFM/ Nm3hr for -40°F PDP

Model No.	80 PSIG 5.5 BARG		90 PSIG 6.2 BARG		100 PSIG 6.9 BARG		150 PSIG 10.3 BARG		200 PSIG 13.8 BARG		250 PSIG 17.2 BARG	
HLSXA/G-55	45	72	50	80	55	88	66	106	75	121	127	204
HLSXA/G-80	66	106	73	117	80	129	96	154	110	177	184	296
HLSXA/G-120	99	159	110	177	120	193	144	232	164	264	276	444
HLSXA/G-150	124	199	137	220	150	241	180	289	205	330	345	555

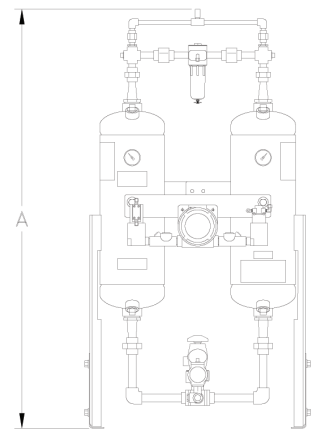
Maximum capacities based on 100°F inlet and 100% RH. HLSXA/G dryers must have clean, lubricant free feed air or gas.

### Temperature Corrections Factors

Multiply maximum capacity by .9 for 110°F or .8 for 120°F inlet temperature. For assistance selecting a dryer in a non-standard application, please consult the

### Operating Conditions

	Maximum	Minimum
Pressure	250 PSIG	80 PSIG
Inlet Air or Gas Temperature	120°F	40°F
Ambient Temperature	120°F	40°F



## RECOMMENDED FILTERS HLSXA & HLSXG

Model No.	Pre-filter	After-filter	Model No.	Pre-filter	After-filter
HLSXA-55	F200-55-1/2-C-AD	F200-55-1/2-RB-MD	HLSXG-55	GF200-55-1/2-C-MD	GF200-55-1/2-RB-MD
HLSXA-80	F200-85-3/4-C-AD	F200-85-3/4-RB-MD	HLSXG-80	GF200-85-3/4-C-MD	GF200-85-3/4-RB-MD
HLSXA-120	F200-150-1-C-AD	F200-150-1-RB-MD	HLSXG-120	GF200-150-1-C-MD	GF200-150-1-RB-MD
HLSXA-150	F200-150-1-C-AD	F200-150-1-RB-MD	HLSXG-150	GF200-150-1-C-MD	GF200-150-1-RB-MD

Inlet filtration is required to prevent desiccant bed contamination from lubricants and light end hydrocarbons. Down stream filtration is required to remove desiccant dust.

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