

Refrigerated Compressed Air Dryers

HG/HGE SERIES



HG/HGE Series Refrigerated Air Dryers

Efficiency

Pneumatic processes and controls require clean, dry compressed air. HG/HGE series dryers improve productivity, reduce maintenance costs and ensure optimal performance of air operated components.

Durability

HG/HGE series dryers are designed for long service life. Rugged sheet metal cabinets, protected by an epoxy based powder coat finish, withstand harsh environments.

Reliability

Hermetically sealed refrigeration systems utilize environmentally friendly R134a refrigerant. All models are equipped with an eight foot, grounded power cord for "plug and play" installation.



HG/HGE Series: Improving Productivity

HG/HGE Series Features

Models HG10 through HG50

- Smooth bore, copper tube-on-tube heat exchangers require no filtration
- Centrifugal separator captures liquid condensate at varying loads
- Drains:
 - > *Pneumatically operated internal float drain (standard models 5-15 scfm)*
 - > *Timed electric drains (standard models 25-50 scfm)*
- Controller:
 - > *Lighted On/Off switch on front panel illuminates when dryer is on (standard models 5-10 scfm)*
 - > *Lighted On/Off switch and temperature indicator (standard models 25-50 scfm)*
- Optional wall mount bracket allows HG/HGE to be adapted to legacy 8005-8015 scfm installations

Models HGE75 through HGE500

- 316 stainless steel heat exchangers optimize heat transfer and service life
- Integral stainless demister/separator captures liquid condensate and solid particles
- Timed electric drain, with push to test and cycle time controls, efficiently removes condensate
- Controller features a lighted on/off switch and temperature indicator to monitor inlet load conditions
- Ambient air filter protects condenser by collecting airborne particles

Models 5-15 scfm



Models 5-15 scfm



Models 25-150 scfm



Models 75-150 scfm



HG/HGE Series Specifications

Model	Rated Flow ¹		Refrigerant	Voltages	Power	In/Out Connection ²	H		Dimensions W		D		Weight	
	scfm	nm ³ /h					in	mm	in	mm	in	mm	lbs	kg
HG5-10	10	17	R134a	115/1/60	0.20	0.375"	15	381	13	320	13	320	64	29
HG15	15	26			0.24	0.375"	15	381	13	320	13	320	69	31
HG25	25	43			0.41	0.75"	22	569	15	368	15	368	88	40
HG35	35	60			0.46	0.75"	22	569	15	368	15	368	92	42
HG50	50	85			0.57	0.75"	22	569	20	500	20	500	101	46
HGE75	75	127			0.72	0.75"	20	510	19	480	21	526	110	50
HGE100	100	170			0.74	1.0"	21	525	13	330	30	761	123	56
HGE125	125	212			0.76	1.0"	21	525	13	330	30	761	133	60
HGE150	150	255			1.11	1.0"	21	525	13	330	30	761	153	69
HGE200	200	340		460/3/60	1.42	1.5"	30	762	17	437	36	904	183	83
HGE250	250	425			1.98	1.5"	30	762	17	437	36	904	211	96
HGE300	300	510			2.05	1.5"	30	759	20	518	38	953	218	99
HGE400	400	680			2.50	2.0"	30	759	21	541	38	953	232	105
HGE500	500	850			3.06	2.0"	32	800	25	640	41	1052	262	119

¹ Rated Flow Capacity - Conditions for rating dryers are in accordance with ISO 7183 (Option A2) Methods for Testing and Rating Refrigerated Air Dryers. Conditions for rating above dryers are: compressed air at dryer inlet: 100 psig (7kgf/cm²) and 100°F (38°C) saturated; ambient temperature: 100°F (38°C); operating on 60 Hz power supply. At rated conditions, pressure drop is less than 5 psi.

² At 35°F (2°C) evaporator and 100°F (38°C) ambient

Operating Conditions

Flow Model		Min. Inlet Air Pressure		Min. Inlet Air Pressure		Max. Inlet Air Temperature		Min. Inlet Air Temperature		Max. Ambient Air Temperature		Min. Ambient Air Temperature	
scfm	nm ³ /h	psig	bar	psig	bar	°F	°C	°F	°C	°F	°C	°F	°C
5 - 50	9 - 85	250	17	30	2	120	49	40	4	110	43	45	7
75 - 500	127 - 255	232	16	10	1	120	49	40	4	110	43	45	7

Capacity Correction Factors

To adjust dryer capacity for non-standard conditions, use the Capacity Correction Factors (multipliers) from Tables 1 and 2.

Sizing Example: What is the the capacity of an HPR100 at 100°F inlet air temperature, 150 psig working pressure and 110°F ambient air temperature ?

Answer: 100 scfm (rated flow from Product Specification Table) x 1.13 (correction factor for inlet temperature and pressure from Table 1) x 0.94 (correction factor for ambient temperature from Table 2) = 106 scfm

Table 1 - Capacity Correction Factors

Inlet Pressure		Inlet Temperature			
psig	bar	90°F 32°C	100°F 38°C	110°F 43°C	120°F 49°C
80	5.6	1.19	0.95	0.77	0.63
100	6.9	1.25	1.00	0.82	0.68
125	8.6	1.30	1.05	0.86	0.72
150	10.3	1.34	1.08	0.90	0.75
175	12.1	1.37	1.11	0.92	0.78
200	13.8	1.39	1.14	0.95	0.80
250	17.2	1.43	1.17	0.98	0.83

Table 2 - Correction Factors for Ambient Temperature *

Ambient Temperature	80°F 27°C	90°F 32°C	100°F 38°C	110°F 43°C
Multiplier	1.12	1.06	1.00	0.94



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ISSUED 06/2012 HG/HGE

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