



Building the Future

Hertz is committed to developing the technology of compressors with a continued focus on performance and energy efficiency with our motto “Building the future”.

It’s an endless journey, and whatever the conditions, Hertz will accompany you throughout this journey. We build the future together with an approach that encourages collaboration and creative problem-solving.

As Hertz, we understand all your needs for high-quality compressed air and offer products and services that will provide maximum added value to you and your processes with our quality standards and advanced engineering approach with our productive and dynamic teammates.

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KOMPRESSOREN



ABOUT US

Hertz Kompressoren is the premium export brand of Dalgakiran, one of the leading air compressor producers in the world which has developed a truly international compressed air sales & service network worldwide.

Hertz Kompressoren was founded in Germany in 2005. Today, we use our more than 55 years of design and manufacturing experience to provide you the ideal air solutions for your business.



Building the Future

With our visionary orientation, we continuously develop our products and services under the guidelines of efficiency and sustainability. We are continuously working on more efficient and robust compressors that provide the specific requirements of each industry in order to contribute to sustainability by reducing the energy consumption of the facilities.

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COMPRESSED AIR DRYERS

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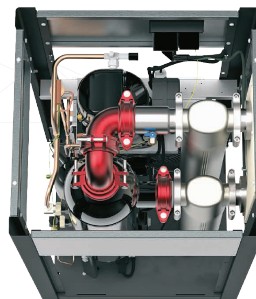
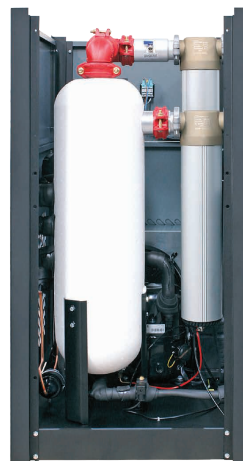
What are refrigerated air dryers?

They cool the compressed air passing through them and keep that air dry down to the dew point of +37°F. Inlet and outlet filters integrated into the dryer (up to the HRD US 1200 model) reduce the particle level by 0.01 microns and the oil particle level by 0.01 mg/m³.



Key Features

- Very low pressure losses
- Design suitable for tropical climates
- R-134a Refrigerant
- Operates at 140°F inlet temperature and 122°F ambient temperature
- Compact design
- Minimum footprint
- Digital controller for energy savings
- High efficiency
- Ease of access
- Separate electrical and cooling sections



Model	Capacity**		Connection Size	Voltage	Max. Working Pressure	Max. Ambient Temp.	Max. Inlet Temp.	Refrigerant	Integrated Filter and Type	Dimensions (in.)			Weight (lbs)
	m³/min	cfm			psi	°F	°F			Length	Width	Height	
HRD US 10	0.28	10	1/2" NPT	115V / 1 Ph / 60 Hz	232	122	140	R-134a	HGKON 65MX+MY	14	16	22	71
HRD US 15	0.42	15	1/2" NPT	115V / 1 Ph / 60 Hz	232	122	140	R-134a	HGKON 65MX+MY	14	16	22	71
HRD US 25	0.71	25	1/2" NPT	115V / 1 Ph / 60 Hz	232	122	140	R-134a	HGKON 65MX+MY	14	16	22	71
HRD US 30	0.85	30	1/2" NPT	115V / 1 Ph / 60 Hz	232	122	140	R-134a	HGKON 65MX+MY	14	16	22	77
HRD US 40	1.13	40	3/4" NPT	115V / 1 Ph / 60 Hz	232	122	140	R-134a	HGKON 155MX+MY	18	19	33	112
HRD US 60	1.70	60	3/4" NPT	115V / 1 Ph / 60 Hz	232	122	140	R-134a	HGKON 155MX+MY	18	19	33	117
HRD US 80	2.27	80	3/4" NPT	115V / 1 Ph / 60 Hz	232	122	140	R-134a	HGKON 155MX+MY	18	19	33	121
HRD US 100	2.83	100	1 1/2" NPT	115V / 1 Ph / 60 Hz	232	122	140	R-134a	HGKON 405MX+MY	20	22	34	172
HRD US 125	3.54	125	1 1/2" NPT	115V / 1 Ph / 60 Hz	232	122	140	R-134a	HGKON 405MX+MY	20	22	34	183
HRD US 150	4.25	150	1 1/2" NPT	230V / 1 Ph / 60 Hz	232	122	140	R-134a	HGKON 405MX+MY	20	22	34	189
				230V / 3 Ph / 60 Hz									
HRD US 200	5.66	200	2" NPT	230V / 1 Ph / 60 Hz	232	122	140	R-134a	HGKON 805MX+MY	29	37	46	352
				230V & 460 V / 3 Ph / 60 Hz									
HRD US 250	7.08	250	2" NPT	230V / 1 Ph / 60 Hz	232	122	140	R-134a	HGKON 805MX+MY	29	37	46	363
				230V & 460 V / 3 Ph / 60 Hz									
HRD US 350	9.91	350	2" NPT	230V / 1 Ph / 60 Hz	232	122	140	R-134a	HGKON 1205MX+MY	29	37	54	484
				230V & 460 V / 3 Ph / 60 Hz									
HRD US 500	14.2	500	2" NPT	230V & 460 V / 3 Ph / 60 Hz	232	122	140	R-134a	HGKON 1205MX+MY	29	37	54	506
HRD US 600	17.0	600	3" NPT	460V / 3 Ph / 60 Hz	232	122	140	R-134a	HGKON 1805MX+MY	31	37	57	594
HRD US 750	21.2	750	3" NPT	460V / 3 Ph / 60 Hz	232	122	140	R-134a	HGKON 1805MX+MY	31	37	57	627
HRD US 1000	28.3	1000	3" NPT	460V / 3 Ph / 60 Hz	232	122	140	R-134a	HGKON 2775MX+MY	31	46	68	862
HRD US 1200	34.0	1200	3" NPT	460V / 3 Ph / 60 Hz	232	122	140	R-134a	HGKON 2775MX+MY	31	46	68	902
HRD US 1500	42.5	1500	4" ANSI B16.5	460V / 3 Ph / 60 Hz	232	122	140	R-134a	HGKO 2700MX+MY	33	55	70	1082
HRD US 1750	49.6	1750	4" ANSI B16.5	460V / 3 Ph / 60 Hz	232	122	140	R-134a	HGKO 2700MX+MY	33	55	70	1144
HRD US 2250	63.7	2250	4" ANSI B16.5	460V / 3 Ph / 60 Hz	232	122	140	R-134a	HGKO 2700MX+MY	42	58	76	1531
HRD US 2600	73.6	2600	4" ANSI B16.5	460V / 3 Ph / 60 Hz	232	122	140	R-134a	HGKO 2700MX+MY	42	58	76	1580
HRD US 3000	85.0	3000	6" ANSI B16.5	460V / 3 Ph / 60 Hz	232	122	140	R-134a	Not Included	42	86	76	1980
HRD US 3500	99.1	3500	6" ANSI B16.5	460V / 3 Ph / 60 Hz	232	122	140	R-134a	Not Included	42	86	76	2035
HRD US 4000	113.3	4000	6" ANSI B16.5	460V / 3 Ph / 60 Hz	232	122	140	R-134a	Not Included	47	88	80	2145
HRD US 4500	127.4	4500	8" ANSI B16.5	460V / 3 Ph / 60 Hz	232	122	140	R-134a	Not Included	47	88	80	2420
HRD US 5500	155.7	5500	8" ANSI B16.5	460V / 3 Ph / 60 Hz	232	122	140	R-134a	Not Included	61	100	83	3080

* HERTZ KOMPRESSOREN reserves its rights to change the specifications without any prior notice.

** Dryer ratings at the following inlet conditions to the dryer (as per ISO 7183, Table 2, Option A2 and CAGI): Inlet Compressed Air Temperature: 100° F, Inlet Compressed Air Pressure: 100 psig, Max. Ambient Air Temperature: 100 °F, Inlet Compressed Air Relative Humidity 100% (Saturated)

PRE FILTER (X)

Efficiency rating:
1 Micron particle
removal & 0.5mg/m³
oil removal

FINE FILTER (Y)

Efficiency rating:
0.01 Micron particle
removal & 0.01mg/m³
oil removal

PARTICLE FILTER (P)

Efficiency rating:
5 Micron particle
removal
(removes desiccant
particles after the dryer)

ACTIVATED CARBON FILTER (A)

Efficiency rating:
0.01 Micron particle
removal & 0.003 mg/m³
oil removal

Correction Sample

If a compressor delivers 200 cfm at 123 psi, the dryer inlet temperature is 120 °F and the ambient temperature is 109 °F please choose your dryer as follows;

Dryer Capacity=200/1.10/0.60/0.9 =337 cfm
The correct dryer model for this application is HRD US 350.

CORRECTION FACTORS FOR HRD AIR DRYERS

Pressure (psi)	51	59	73	100	115	123	145	174
F1	0.75	0.77	0.85	1.00	1.06	1.10	1.16	1.25
Inlet Temperature °F	84	90	95	100	109	120	129	140
F2	1.20	1.14	1.08	1.00	0.75	0.60	0.50	0.45
Ambient Temperature °F	61	79	90	100	104	109	115	120
F3	1.12	1.08	1.06	1.00	0.96	0.90	0.80	0.65



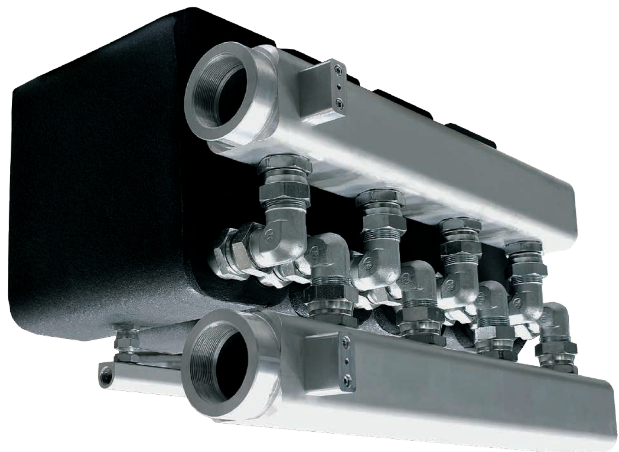
What are high-pressure compressed air dryers?

They ensure 100% contact between the air and refrigerant circuits. They offer excellent cooling by combining high efficiency with advanced performance.



Key Features

- Latest technology 3-in-1 design
- Low pressure difference
- Compact design with 3-in-1 heat exchanger
- Meets every capacity and power requirement
- Stainless steel, brazed, plated heat exchanger
- Size reduction and excellent heat transfer
- Corrosion prevention
- Safety test against leakages



Size Reduced
by 50%



Dewpoint 3°C



Stainless Steel,
Anti-corrosion

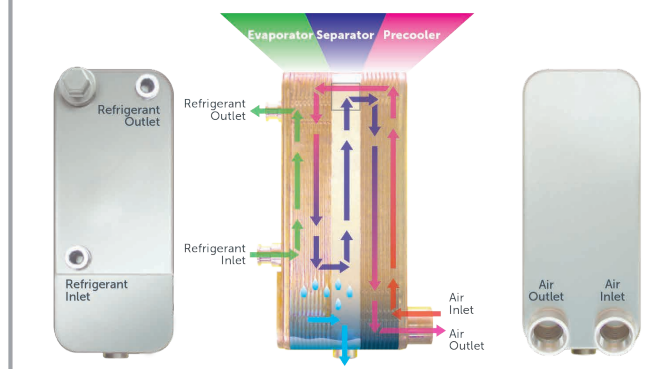


Working Pressure
Up to 45 bar



Inlet/Outlet
Temp. Difference
<10°C

HEAT EXCHANGER WORKING PRINCIPLE



Model	Capacity**		Connection Size	Voltage	Max. Working Pressure	Max. Ambient Temp.	Max. Inlet Temp.	Refrigerant	Recommended Filter and Type	Dimensions (in.)			Weight (lbs)
	m³/min	cfm			psi	°F	°F			Length	Width	Height	
HRD US HPN 25	0,72	25	3/4" NPT	115V / 1Ph / 60 Hz	650	113	122	R134a	HG US 42 M X / Y	17,8	14,2	21,8	79
HRD US HPN 40	1,13	40	3/4" NPT	115V / 1Ph / 60 Hz	650	113	122	R134a	HG US 42 M X / Y	17,8	14,2	21,8	82
HRD US HPN 70	1,98	70	3/4" NPT	115V / 1Ph / 60 Hz	650	113	122	R134a	HG US 125 M X / Y	17,8	15,8	24,5	88
HRD US HPN 100	2,83	100	3/4" NPT	115V / 1Ph / 60 Hz	650	113	122	R134a	HG US 125 M X / Y	17,8	15,8	24,5	90
HRD US HPN 140	3,97	140	1 1/4" NPT	115V / 1Ph / 60 Hz	650	113	122	R134a	HG US 250 M X / Y	19,9	17,8	30	95
HRD US HPN 190	5,38	190	1 1/4" NPT	115V / 1Ph / 60 Hz	650	113	122	R134a	HG US 250 M X / Y	19,9	17,8	30	99
HRD US HPN 235	6,67	235	1 1/4" NPT	115V / 1Ph / 60 Hz	650	113	122	R134a	HG US 250 M X / Y	19,9	17,8	31,9	143
HRD US HPN 270	7,65	270	1 1/4" NPT	230V / 1 Ph / 60 Hz	650	113	122	R134a	HG US 350 M X / Y	19,9	17,8	31,9	146
HRD US HPN 350	9,92	350	1 1/4" NPT	230V / 1 Ph / 60 Hz	650	113	122	R134a	HG US 350 M X / Y	26,6	19,7	38,7	148
HRD US HPN 425	12,05	425	1 1/4" NPT	230V / 1 Ph / 60 Hz	650	113	122	R134a	HG US 500 M X / Y	26,6	19,7	41,1	150
HRD US HPN 470	13,32	470	2" NPT	230V / 1 Ph / 60 Hz	650	113	122	R134a	HG US 500 M X / Y	37,3	28,6	46	496
HRD US HPN 550	15,58	550	2" NPT	230V / 1 Ph / 60 Hz	650	113	122	R134a	HG US 940 M X / Y	37,3	28,6	46	507
HRD US HPN 700	19,83	700	2" NPT	230V / 1 Ph / 60 Hz	650	113	122	R134a	HG US 940 M X / Y	37,3	28,6	46	518
HRD US HPN 750	21,25	750	2" NPT	460V / 3 Ph / 60 Hz	650	113	122	R134a	HG US 940 M X / Y	37,3	31,4	57,4	948
HRD US HPN 850	24,08	850	2" NPT	460V / 3 Ph / 60 Hz	650	113	122	R134a	HG US 940 M X / Y	37,3	31,4	57,4	981
HRD US HPN 1000	28,33	1000	2 1/2" NPT	460V / 3 Ph / 60 Hz	650	113	122	R134a	HG US 1470 M X / Y	45,7	31,4	58,9	1025
HRD US HPN 1200	34,00	1200	2 1/2" NPT	460V / 3 Ph / 60 Hz	650	113	122	R134a	HG US 1470 M X / Y	45,7	31,4	58,9	1047
HRD US HPN 1300	36,83	1300	2 1/2" NPT	460V / 3 Ph / 60 Hz	650	113	122	R134a	HG US 1470 M X / Y	45,7	31,4	58,9	1080
HRD US HPN 1400	39,67	1400	2 1/2" NPT	460V / 3 Ph / 60 Hz	650	113	122	R134a	HG US 1765 M X / Y	45,7	31,4	58,9	1135
HRD US HPN 1500	42,50	1500	2 1/2" NPT	460V / 3 Ph / 60 Hz	650	113	122	R134a	HG US 1765 M X / Y	45,7	31,4	58,9	1190
HRD US HPN 1700	48,17	1700	2 1/2" NPT	460V / 3 Ph / 60 Hz	650	113	122	R134a	HG US 1765 M X / Y	45,7	31,4	58,9	1224

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** Dryer ratings at the following inlet conditions to the dryer (as per ISO 7183, Table 2, Option A2 and CAGI).

PRE FILTER (X)

Efficiency rating:
1 Micron particle
removal & 0.5mg/m³
oil removal

FINE FILTER (Y)

Efficiency rating:
0.01 Micron particle
removal & 0.01mg/m³
oil removal

Correction Sample

If a compressor delivers 500 cfm at 580 psi pressure and, 95 °F ambient temperature and the inlet temperature 113 °F please choose your dryer as follow:

PARTICLE FILTER (P)

Efficiency rating:
5 Micron particle
removal
(removes desiccant
particles after the dryer)

ACTIVATED CARBON FILTER (A)

Efficiency rating:
0.01 Micron particle
removal & 0.003 mg/m³
oil removal

$500 \text{ cfm} / 0.96 / 0.87 / 0.72 = 831 \text{ cfm}$ the correct dryer for this is HRD HP US 880.

CORRECTION FACTORS FOR HRD HPN SERIES

PRESSURE (psi)	290	362	435	508	580	653	725	-	-	-	-
F1	0.84	0.91	0.93	0.96	0.98	1	1.02	-	-	-	-
AMBIENT TEMPERATURE °F	-	-	-	-	68	77	86	95	104	108	-
F2 (R134a)	-	-	-	-	1.08	1	0.93	0.87	0.82	0.79	-
(R404a)	-	-	-	-	-	1	0.9	0.81	0.77	0.74	-
INLET TEMPERATURE °F	-	-	-	-	86	95	104	113	122	131	140
F3	-	-	-	-	1.2	1	0.85	0.72	0.63	0.55	0.49



High temperature air dryers are fitted with an aftercooler to lower the inlet temperature of the compressed air. This ensures effective dew-point management.



Key Features

- High operating inlet temperature
- Integrated condenser
- Independent air-cooled aftercooler
- Moisture separator
- Automatic drain
- Environmentally friendly R134a refrigerant
- Increased compressor life span
- Operate in high ambient temperatures
- Excellent insulation
- Easy to assemble and maintain

Model	Capacity**		Connection Size	Voltage	Max. Working Pressure	Max. Ambient Temp.	Max. Inlet Temp.	Refrigerant	Recommended Filter and Type	Dimensions (in.)			Weight (lbs)
	m³/min	cfm			psi	°F	°F			Length	Width	Height	
HRD H US 15	0,42	15	1/2" NPT	115V / 1 Ph / 60 Hz	230	120	240	R134a	C / F	17,5	17,5	37,6	137
HRD H US 25	0,71	25	1/2" NPT	115V / 1 Ph / 60 Hz	230	120	240	R134a	C / F	17,5	17,5	37,6	137
HRD H US 35	0,99	35	1/2" NPT	115V / 1 Ph / 60 Hz	230	120	240	R134a	C / F	17,5	17,5	37,6	139
HRD H US 50	1,42	50	3/4" NPT	115V / 1 Ph / 60 Hz	230	120	240	R134a	C / F	17,5	17,5	37,6	141
HRD H US 75	2,12	75	3/4" NPT	115V / 1 Ph / 60 Hz	230	120	240	R134a	C / F	24,6	20	35,8	194
HRD H US 100	2,83	100	3/4" NPT	115V / 1 Ph / 60 Hz	230	120	240	R134a	C / F	24,6	20	35,8	214

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** Dryer ratings at the following inlet conditions to the dryer (as per ISO 7183, Table 2, Option A2 and CAGI): Inlet Compressed Air Temperature: 180°F, Inlet Compressed Air Pressure: 175 psig, Max. Ambient Air Temperature: 100 °F, Inlet Compressed Air Relative Humidity 100% (Saturated)

Correction Sample

If a compressor delivers 40 cfm at 145 psi, the dryer inlet temperature is 208 °F and ambient temperature is 115 °F. Please choose your dryer model as follow:

$40 \text{ cfm} / 0.93 / 0.78 / 0.82 = 67 \text{ cfm}$ Dryer model for this application is HRD H US 75.

CORRECTION FACTORS FOR HRD H SERIES													
Inlet Temperature °F	39	50	61	70	79	90	100	149	180	199	208	219	240
F1	1.4	1.4	1.4	1.4	1.35	1.3	1.27	1.06	1	0.85	0.78	0.75	0.7
Ambient Temperature °F	39	50	61	75	84	95	100	104	115	120	-	-	-
F2	1.1	1.1	1.1	1.1	1.07	1.03	1	0.96	0.82	0.55	-	-	-
Pressure (psi)	60	73	87	102	115	123	145	160	175	189	203	230	-
F3	0.7	0.75	0.8	0.83	0.86	0.9	0.93	0.96	1	1.1	1.12	1.15	-



These types of dryers consume energy dependent on air flow. The dryer's cooling system cools the water-glycol mixture down to 33.8°F and holds this mixture in a stainless steel container. A small pump circulates the water-glycol mixture to cool the compressed air. The cooling system's compressor turns off when the mixture reaches the required temperature resulting in considerable energy savings.



Advantages

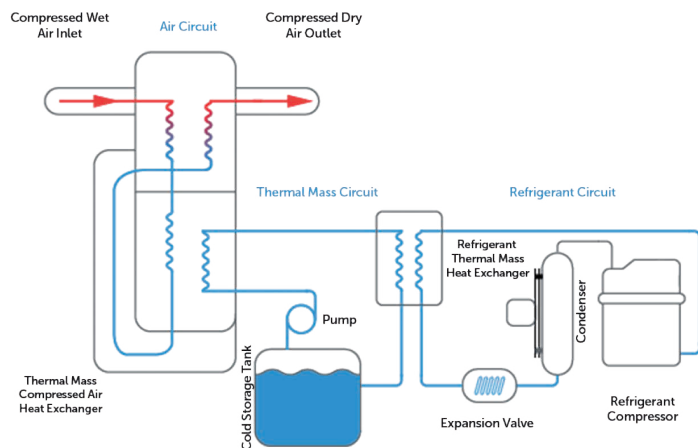
- Energy savings with capacity control
- 37°F dew point
- Very low pressure drop
- Suitable for tropical conditions
- Environmentally friendly R134a refrigerant
- Large condenser
- Operates at 140°F inlet temperature and in 122°F ambient temperature
- Stainless steel components
- High efficiency



Model	Capacity**		Connection Size	Voltage	Max. Working Pressure	Max. Ambient Temp.	Max. Inlet Temp.	Refrigerant Gas	Recommended Filter and Type	Dimensions (in.)			Weight lbs
	m³/min	cfm			psi	°F	°F			Length	Width	Height	
HRC US 175	4,96	175	2" NPT	230V/1Ph/60Hz	230	113	120	R513a	GKON-805 – X / Y	33,7	28,5	59,3	392
HRC US 200	5,66	200	2" NPT	230V/1Ph/60Hz	230	113	120	R513a	GKON-805 – X / Y	33,7	28,5	59,3	406
HRC US 250	7,08	250	2" NPT	230V/1Ph/60Hz	230	113	120	R513a	GKON-805 – X / Y	32,7	28,7	69,5	428
HRC US 350	9,91	350	2" NPT	460V/3Ph/60Hz	230	113	120	R513a	GKON-1205 – X / Y	32,7	28,7	69,5	534
HRC US 425	12,03	425	2" NPT	460V/3Ph/60Hz	230	113	120	R513a	GKON-1205 – X / Y	32,7	28,7	69,5	558
HRC US 550	15,57	550	3" NPT	460V/3Ph/60Hz	230	113	120	R513a	GKON-HC-1805 – X / Y	45,3	31,5	68,5	650
HRC US 700	19,82	700	3" NPT	460V/3Ph/60Hz	230	113	120	R513a	GKON-HC-1805 – X / Y	45,3	31,5	68,5	683
HRC US 900	25,49	900	3" NPT	460V/3Ph/60Hz	230	113	120	R513a	GKON-HC-2775 – X / Y	51,8	34,6	70,5	906
HRC US 1100	31,15	1100	3" NPT	460V/3Ph/60Hz	230	113	120	R513a	GKON-HC-2775 – X / Y	51,8	34,6	70,5	976
HRC US 1350	38,23	1350	ANSI 4" Flange	460V/3Ph/60Hz	230	113	120	R513a	GKO 5850 – X / Y	62	39,2	77,8	1581
HRC US 1500	42,48	1500	ANSI 4" Flange	460V/3Ph/60Hz	230	113	120	R513a	GKO 5850 – X / Y	62	39,2	77,8	1636
HRC US 2000	56,63	2000	ANSI 4" Flange	460V/3Ph/60Hz	230	113	120	R513a	GKO 5850 – X / Y	70,7	42,5	81,7	1916
HRC US 2350	66,54	2350	ANSI 4" Flange	460V/3Ph/60Hz	230	113	120	R513a	GKO 5850 – X / Y	70,7	42,5	81,7	1973
HRC US 2750	77,87	2750	ANSI 6" Flange	460V/3Ph/60Hz	230	113	120	R513a	F-US 3800 X / Y	86,2	41,9	79,7	2075
HRC US 3000	84,95	3000	ANSI 6" Flange	460V/3Ph/60Hz	230	113	120	R513a	F-US 3800 X / Y	86,2	41,9	79,7	2123
HRC US 3600	101,94	3600	ANSI 6" Flange	460V/3Ph/60Hz	230	113	120	R513a	F-US 3800 X / Y	95,1	61	83,3	2260
HRC US 4000	113,27	4000	ANSI 8" Flange	460V/3Ph/60Hz	230	113	120	R513a	F-US 6500 X / Y	95,1	61	83,3	2562
HRC US 5000	141,58	5000	ANSI 8" Flange	460V/3Ph/60Hz	230	113	120	R513a	F-US 6500 X / Y	104,1	61	85,4	3263

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** Dryer ratings at the following inlet conditions to the dryer (as per ISO 7183, Table 2, Option A2 and CAGI): Inlet Compressed Air Temperature: 100°F, Inlet Compressed Air Pressure: 100 psig, Max. Ambient Air Temperature: 100 °F, Inlet Compressed Air Relative Humidity 100% (Saturated)



Correction Sample

If a compressor delivers 700 cfm at 115 psi, the dryer inlet temperature is 130 °F and ambient temperature is 110 °F. Please choose your dryer model as follow:

$700 \text{ cfm} / 1.06 / 0.5 / 0.90 = 1468 \text{ cfm}$ Dryer model for this application is HRC US 1500.

CORRECTION FACTORS FOR HRC SERIES

Inlet Temperature °F	85	90	95	100	110	120	130	140	150
F1	1.20	1.14	1.08	1.00	0.75	0.60	0.50	0.45	0.35
Ambient Temperature °F	60	80	90	100	105	110	115	120	-
F2	1.12	1.08	1.06	1.00	0.96	0.90	0.80	0.65	-
Pressure (psi)	60	60	75	100	115	125	150	175	200
F3	0.75	0.77	0.85	1.00	1.06	1.10	1.16	1.25	1.30



HMD model chemical dryers use a modular design for a lightweight, compact body. Having half the size and weight of traditional twin-tower chemical dryers, they provide users with the advantage of flexible installation. This is one of the chemical air dryer models with the lowest pressure drop in the world with its highly engineered inlet valve and discharge manifold design.



Advantages

- Low footprint, lightweight, compact design
- Corrosion-resistant aluminium structure
- Problem-free and reliable electronic control
- Can be mounted on the floor, bench, or wall
- Suitable layout for any workplace
- Easy to install and maintain
- High efficiency and flexibility
- Energy efficient
- Dew point from -40°F to -94°F (optional)



Model	Capacity**		Connection Size	Voltage	Max. Working Pressure psi	Included Filter and Type	Dimensions (in.)			Weight (lbs)	Active Alumina (lbs)
	m³/min	cfm					Length	Width	Height		
HMD US 3	0,08	3	1/2" NPT	115-240V/ 1 Ph / 60 Hz	232	HGO US 15 MX+MY+MP	13,2	12,6	22	37	3.96
HMD US 5	0,14	5	1/2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 35 MX-MY-MP	12,6	12,6	25	41	5.07
HMD US 10	0,28	10	1/2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 35 MX-MY-MP	12,6	12,6	35,5	59	9.03
HMD US 15	0,42	15	1/2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 35 MX-MY-MP	13,8	14,5	31,8	68	15.4
HMD US 20	0,57	20	1/2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 55 MX-MY-MP	13,8	14,5	43,6	92	22
HMD US 25	0,71	25	1/2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 55 MX-MY-MP	13,8	14,5	49,5	105	26.2
HMD US 30	0,85	30	1/2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 55 MX-MY-MP	13,8	14,5	59,4	118	33
HMD US 40	1,13	40	1 1/2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 100 MX-MY-MP	19,5	16,1	49,2	143	40
HMD US 50	1,42	50	1 1/2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 100 MX-MY-MP	19,5	16,1	55,1	156	44
HMD US 60	1,7	60	1 1/2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 100 MX-MY-MP	19,5	16,1	68,8	171	60
HMD US 75	2,12	75	1 1/2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 150 MX-MY-MP	24,5	17	51,1	202	84
HMD US 100	2,83	100	1 1/2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 225 MX-MY-MP	24,5	22	58	264	95
HMD US 120	3,4	120	1 1/2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 225 MX-MY-MP	24,5	25	68,8	292	117
HMD US 180	5,1	180	1 1/2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 400 MX-MY-MP	28,9	16,1	59	409	148
HMD US 240	6,8	240	1 1/2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 500 MX-MY-MP	35	16,1	59	517	196
HMD US 340	9,6	340	2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 600 MX-MY-MP	39	16	65	1102	-
HMD US 400	11,3	400	2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 800 MX-MY-MP	53	16	61	-	-
HMD US 500	14,2	500	2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 1000 MX-MY-MP	59	16	65	-	-
HMD US 590	16,7	590	2" NPT	115-240V/ 1 Ph / 60 Hz	232	GON 1000 MX-MY-MP	66	16	69	-	-
HMD US 735	20,8	735	3" NPT	115-240V/ 1 Ph / 60 Hz	232	GON HC 1550 MX-MY-MP	66	16	81	-	-
HMD US 890	25,2	890	3" NPT	115-240V/ 1 Ph / 60 Hz	232	GON HC 1550 MX-MY-MP	73	16	81	-	-
HMD US 1060	30	1060	3" NPT	115-240V/ 1 Ph / 60 Hz	232	GON HC 2000 MX-MY-MP	79	16	81	-	-

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** Dryer ratings at the following inlet conditions to the dryer (as per ISO 7183, Table 2, Option A2 and CAGI): Inlet Compressed Air Temperature: 100°F, Inlet Compressed Air Pressure: 100 psig, Max. Ambient Air Temperature: 100 °F, Inlet Compressed Air Relative Humidity 100% (Saturated)

PRE FILTER (X)

Efficiency rating:
1 Micron particle
removal & 0.5mg/m³
oil removal

PARTICLE FILTER (P)

Efficiency rating:
5 Micron particle
removal
(removes desiccant
particles after the dryer)

FINE FILTER (Y)

Efficiency rating:
0.01 Micron particle
removal & 0.01mg/m³
oil removal

ACTIVATED CARBON FILTER (A)

Efficiency rating:
0.01 Micron particle
removal & 0.003 mg/m³
oil removal

Correction Sample

If a compressor delivers 90 cfm at 120 psi with 115°F inlet temperature please choose your Dryer model as follow:

$90 \text{ cfm} / 1.08 / 0.80 = 104 \text{ cfm}$ your model is
HMD US 120

CORRECTION FACTORS FOR HMD SERIES

Pressure (psi)	50	60	70	80	90	100	110	120	130	140	150	175	200	225	250
Factor Pressure F1	0.56	0.65	0.74	0.83	0.91	1	1.06	1.08	1.12	1.16	1.2	1.29	1.37	1.45	1.52
Inlet Temperature (°F)	70	80	90	100	105	110	115	120	-	-	-	-	-	-	-
Factor Inlet F2	1.12	1.09	1.06	1	0.93	0.86	0.8	0.75	-	-	-	-	-	-	-

Correction Formula: Dryer Capacity = Air Delivery Capacity of the Compressors / F1 / F2



Designed to supply clean and very dry air for critical applications. They have a constant dew point of -40°F (-94°C optional).

They come with inlet and outlet line filters to keep the air flow clean and to protect the chemical mixture inside the tanks.



Advantages

- Uninterrupted and perfect operation
- -40°F (-94°F optional) pressurized dew point
- Optional dew point monitoring and control
- 232 and 580 psi working pressure options
- Constant dew point
- Easy-to-use control panel
- Touchscreen interface
- User friendly
- Different language options



Model	Capacity**		Connection Size	Voltage	Max. Working Pressure	Max. Ambient Temp.	Max. Inlet Temp.	Included Filter and Type	Dimensions (in.)			Weight (lbs)
	m³/min	cfm			psi	°F	°F		Length	Width	Height	
HDA US 300	8,5	300	1 1/2" NPT	115V/ 1 Ph / 60 Hz	200	120	120	GON 600 MX-MY-MP	40	24	87	1200
HDA US 400	11,3	400	1 1/2" NPT	115V/ 1 Ph / 60 Hz	200	120	120	GON 800 MX-MY-MP	46	26	88	1350
HDA US 500	14,2	500	2" NPT	115V/ 1 Ph / 60 Hz	200	120	120	GON 1000 MX-MY-MP	46	26	88	1460
HDA US 600	17	600	2" NPT	115V/ 1 Ph / 60 Hz	200	120	120	GON 1200 MX-MY-MP	46	26	88	1790
HDA US 800	22,7	800	3" ANSI B16.5	115V/ 1 Ph / 60 Hz	200	120	120	GON HC 1550 MX-MY-MP	55	48	105	2150
HDA US 1000	28,3	1000	3" ANSI B16.5	115V/ 1 Ph / 60 Hz	200	120	120	GON HC 2000 MX-MY-MP	55	48	105	2960
HDA US 1250	35,4	1250	3" ANSI B16.5	115V/ 1 Ph / 60 Hz	200	120	120	GON HC 2700 MX-MY-MP	60	50	109	3470
HDA US 1500	42,5	1500	3" ANSI B16.5	115V/ 1 Ph / 60 Hz	200	120	120	GON HC 2700 MX-MY-MP	60	50	109	4180
HDA US 2000	56,6	2000	4" ANSI B16.5	115V/ 1 Ph / 60 Hz	200	120	120	GO HC 3400 MX-MY-MP	70	62	115	4980
HDA US 2500	70,8	2500	4" ANSI B16.5	115V/ 1 Ph / 60 Hz	200	120	120	GO HC 4500 MX-MY-MP	70	62	115	5800
HDA US 3000	85	3000	6" ANSI B16.5	115V/ 1 Ph / 60 Hz	200	120	120	GO HC 5400 MX-MY-MP	80	70	120	6400
HDA US 4000	113,3	4000	6" ANSI B16.5	115V/ 1 Ph / 60 Hz	200	120	120	C/F	90	80	122	9100
HDA US 5000	141,6	5000	6" ANSI B16.5	115V/ 1 Ph / 60 Hz	200	120	120	C/F	98	86	120	11800
HDA US 6000	169,9	6000	8" ANSI B16.5	115V/ 1 Ph / 60 Hz	200	120	120	C/F	C/F	C/F	C/F	C/F

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** Dryer ratings at the following inlet conditions to the dryer (as per ISO 7183, Table 2, Option A2 and CAGI): Inlet Compressed Air Temperature: 100°F, Inlet Compressed Air Pressure: 100 psig, Max. Ambient Air Temperature: 100 °F, Inlet Compressed Air Relative Humidity 100% (Saturated)

PRE FILTER (X)

Efficiency rating:
1 Micron particle
removal & 0.5mg/m³
oil removal

PARTICLE FILTER (P)

Efficiency rating:
5 Micron particle
removal
(removes desiccant
particles after the dryer)

FINE FILTER (Y)

Efficiency rating:
0.01 Micron particle
removal & 0.01mg/m³
oil removal

ACTIVATED CARBON FILTER (A)

Efficiency rating:
0.01 Micron particle
removal & 0.003 mg/m³
oil removal

Correction Sample

If a compressor delivers 600 cfm at 90 psi pressure and 115 °F inlet temperature please choose your dryer as follow:

$600 \text{ cfm} / 0.91 / 0.80 = 824 \text{ cfm}$ the correct dryer for this is HDA US 1000.

CORRECTION FACTORS FOR HDA SERIES

Pressure (psi)	50	60	70	80	90	100	110	120	130	140	150	175	200
Factor Pressure F1	0.56	0.65	0.74	0.83	0.91	1	1.06	1.08	1.12	1.16	1.2	1.29	1.37
Inlet Temperature °F	70	80	90	100	105	110	115	120	-	-	-	-	-
Factor Inlet F2	1.12	1.09	1.06	1	0.93	0.86	0.8	0.75	-	-	-	-	-



They use a blower to draw in the ambient air and pass it through a heater. The heated air is sent in the opposite direction to the drying flow. This removes the moisture from the chemical substance pores. The advanced control system continuously monitors dew point and adjusts the temperature. This results in energy savings. The heater is insulated for high energy efficiency.



Advantages

- Dew point monitoring and control
- Computer control
- Status, alarm, and pressure display
- Remote start and stop
- Low-pressure alarm
- High-pressure switches and alarms
- Externally heated or heat-free operation
- Reliable electronic control units
- User friendly and different language options



Model	Capacity**		Connection Size	Voltage	Max. Working Pressure	Max. Working Temp.	Max. Inlet Temp.	Included Filter and Type	Dimensions (in.)			Weight (lbs)
	m³/min	cfm			psi	°F	°F		Length	Width	Height	
HBP US 500	14,2	500	2" NPT	460V / 3 Ph / 60 Hz	200	120	120	GON 1000 MX+MY+MP	C/F	C/F	C/F	C/F
HBP US 600	17	600	2" NPT	460V / 3 Ph / 60 Hz	200	120	120	GON 1000 MX+MY+MP	C/F	C/F	C/F	C/F
HBP US 800	22,7	800	3" ANSI B16.5	460V / 3 Ph / 60 Hz	200	120	120	GON HC 1550 MX+MY+MP	C/F	C/F	C/F	C/F
HBP US 1000	28,3	1000	3" ANSI B16.5	460V / 3 Ph / 60 Hz	200	120	120	GON HC 2000 MX+MY+MP	C/F	C/F	C/F	C/F
HBP US 1250	35,4	1250	3" ANSI B16.5	460V / 3 Ph / 60 Hz	200	120	120	GON HC 2700 MX+MY+MP	C/F	C/F	C/F	C/F
HBPUS 1500	42,5	1500	3" ANSI B16.5	460V / 3 Ph / 60 Hz	200	120	120	GON HC 2700 MX+MY+MP	C/F	C/F	C/F	C/F
HBP US 2000	56,6	2000	4" ANSI B16.5	460V / 3 Ph / 60 Hz	200	120	120	GO HC 3400 MX+MY+MP	C/F	C/F	C/F	C/F
HBP US 2500	70,8	2500	4" ANSI B16.5	460V / 3 Ph / 60 Hz	200	120	120	GO HC 4500 MX+MY+MP	C/F	C/F	C/F	C/F
HBP US 3000	85	3000	6" ANSI B16.5	460V / 3 Ph / 60 Hz	200	120	120	GO HC 4500 MX+MY+MP	C/F	C/F	C/F	C/F
HBP US 4000	113,3	4000	6" ANSI B16.5	460V / 3 Ph / 60 Hz	200	120	120	F6500MX-MY-MP(H)	C/F	C/F	C/F	C/F
HBP US 5000	141,6	5000	6" ANSI B16.5	460V / 3 Ph / 60 Hz	200	120	120	F6500MX-MY-MP(H)	C/F	C/F	C/F	C/F
HBP US 6000	169,9	6000	8" ANSI B16.5	460V / 3 Ph / 60 Hz	200	120	120	F8500MX-MY-MP(H)	C/F	C/F	C/F	C/F
HBP US 7000	198,2	7000	8" ANSI B16.5	460V / 3 Ph / 60 Hz	200	120	120	F8500MX-MY-MP(H)	C/F	C/F	C/F	C/F
HBP US 8000	226,5	8000	8" ANSI B16.5	460V / 3 Ph / 60 Hz	200	120	120	F11000MX-MY-MP(H)	C/F	C/F	C/F	C/F
HBP US 9000	254,9	9000	10" ANSI B16.5	460V / 3 Ph / 60 Hz	200	120	120	F11000MX-MY-MP(H)	C/F	C/F	C/F	C/F
HBP US 10000	283,2	10000	10" ANSI B16.5	460V / 3 Ph / 60 Hz	200	120	120	F14000MX-MY-MP(H)	C/F	C/F	C/F	C/F

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** Dryer ratings at the following inlet conditions to the dryer (as per ISO 7183, Table 2, Option A2 and CAGI): Inlet Compressed Air Temperature: 100°F, Inlet Compressed Air Pressure: 100 psig, Max. Ambient Air Temperature: 100 °F, Inlet Compressed Air Relative Humidity 100% (Saturated)

PRE FILTER (X)

Efficiency rating:
1 Micron particle
removal & 0.5mg/m³
oil removal

PARTICLE FILTER (P)

Efficiency rating:
5 Micron particle
removal
(removes desiccant
particles after the dryer)

FINE FILTER (Y)

Efficiency rating:
0.01 Micron particle
removal & 0.01mg/m³
oil removal

ACTIVATED CARBON FILTER (A)

Efficiency rating:
0.01 Micron particle
removal & 0.003 mg/m³
oil removal

Correction Sample

If a compressor delivers 1500 cfm at 120 psi pressure and 120 °F inlet temperature please choose your dryer as follow:

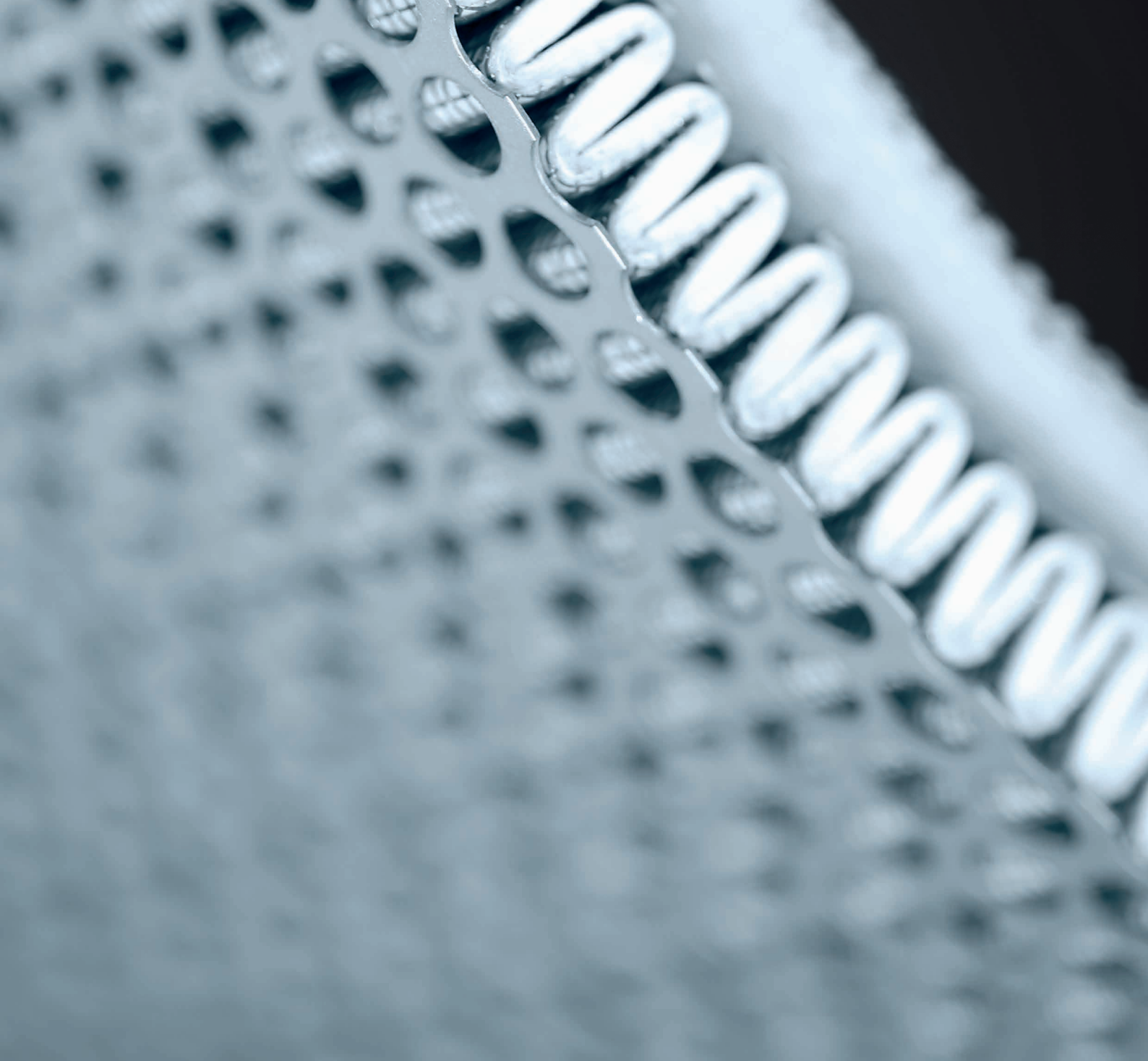
$1500 \text{ cfm} / 1.08 / 0.75 = 1851 \text{ cfm}$ the correct dryer for this is HBP US 2000.

CORRECTION FACTORS FOR HBP SERIES

Pressure (psi)	50	60	70	80	90	100	110	120	130	140	150	175	200
Factor Pressure F1	0.56	0.65	0.74	0.83	0.91	1	1.06	1.08	1.12	1.16	1.2	1.29	1.37
Inlet Temperature (°F)	70	80	90	100	105	110	115	120	-	-	-	-	-
Factor Inlet F2	1.12	1.09	1.06	1	0.93	0.86	0.8	0.75	-	-	-	-	-

FILTRATION, SEPARATION AND AIR RECEIVER

HGO - Compressed Airline Filters.....	22
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AIR RECEIVER	32





They prevent unwanted substances such as dust particles and oil particles in the compressed air coming from the compressor from damaging equipment, pipes, and the quality of the end product.



Advantages

- More convenient for the end user
- Robust and durable
- High efficiency
- Low pressure drop
- Easy to maintain
- High-protected filter
- Electronic, external, loss-free, and manual drain options
- Durable element structure
- High-efficiency drainage layer



TO REMOVE THE ELEMENT
TWIST CLOCKWISE



Model	Capacity		Connection Size	Max. Working Pressure	Element Model	Housing Dimensions (in.)			
	m³/min	cfm		psi		A	B	C	D
HGO US 15	0,42	15	1/4" NPT	290	HO US 15	4	8,4	7,6	1,7
HGO US 30	0,85	30	3/8" NPT	290	HO US 30	4	8,4	7,6	1,7
HGO US 60	1,7	60	1/2" NPT	290	HO US 60	4	10	9	1,7
HGO US 90	2,55	90	3/4" NPT	290	HO US 90	4,8	11,7	10,6	1,7
HGO US 120	3,4	120	3/4" NPT	290	HO US 120	4,8	14,2	13	1,7
HGO US 150	4,25	150	1" NPT	290	HO US 150	4,8	15,8	14,7	1,7
HGO US 175	4,96	175	1 1/4" NPT	290	HO US 175	4,8	18	16,6	1,7
HGO US 300	8,5	300	1 1/4" NPT	290	HO US 300	4,8	19,2	17,8	1,7
HGO US 350	9,91	350	1 1/2" NPT	290	HO US 350	4,8	21	19,6	1,7
HGO US 500	14,2	500	2" NPT	290	HO US 500	6,3	24,5	22,9	1,7
HGO US 700	19,8	700	2" NPT	290	HO US 700	6,3	27,2	25,6	1,7
HGO US 900	25,5	900	2 1/2" NPT	290	HO US 900	7,6	28,5	26,3	1,7
HGO US 1100	31,1	1100	3" NPT	290	HO US 1100	7,6	34	31,8	1,7
HGO US 1300	36,8	1300	3" NPT	290	HO US 1300	7,6	36,2	34	1,7
HGO US 1600	45,3	1600	3" NPT	290	HO US 1600	7,6	41,9	40	1,7

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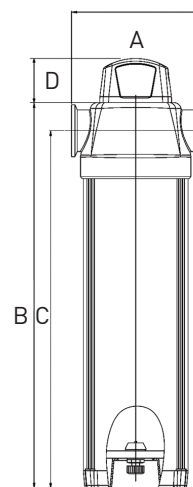
Operating Pressure (psi)	15	44	73	100	124	145	174	218	232	261	290
Correction Factor	0.5	0.71	0.87	1	1.1	1.18	1.28	1.45	1.49	1.56	1.64

NOTES

- 1) Grade A must not operate in oil saturated conditions.
- 2) Grade A elements should be replaced periodically to suit the applications but must be changed at least every six months.
- 3) Grade A will not remove certain gases including carbon monoxide and carbon dioxide. Please refer to works if in doubt.
- 4) Flow rates are based on a 100 psi operating pressure, for flows at other pressures use correction factor given above.
- 5) All filters are suitable for use with mineral and synthetic oils.
- 6) Gauge type pressure indicators are fitted to models HGO US 15 to HGO US1600 as standard.
- 7) All filters are in conformity with the Pressure Equipment Directive (97/23/EC)

ORDERING

The complete filter model number contains the size and grade, example - 1" general purpose filter model HGO US 150 MX with replacement filter element model MO US 150 X. Represent 150 cfm capacity and x represents the general purpose element.

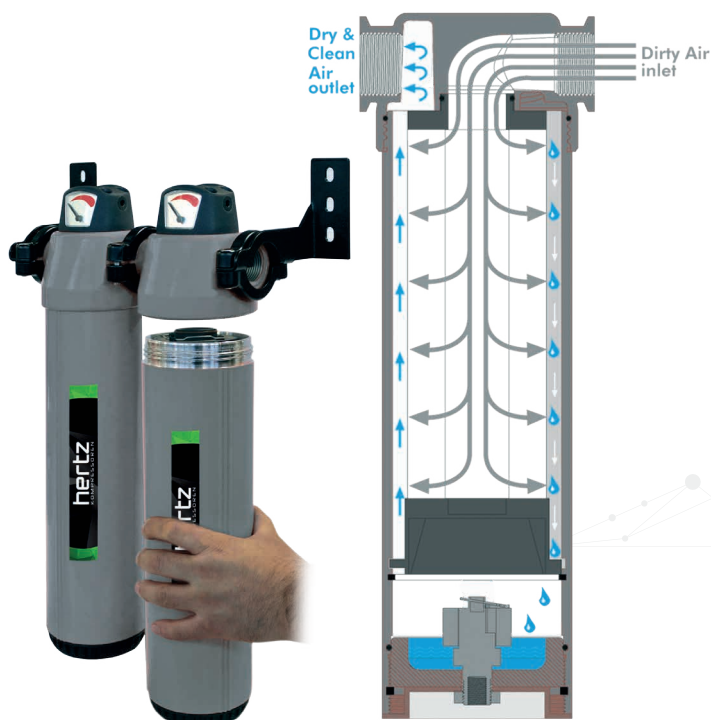


Correction Sample

If a compressor delivers 350 cfm at 145 psi please choose your Filter model as follow:

$350 \text{ cfm} / 1.18 = 297 \text{ cfm}$ your model is HGO US 300.

PRE FILTER (X) Efficiency rating: 1 Micron particle removal & 0.5mg/m³ oil removal	PARTICLE FILTER (P) Efficiency rating: 5 Micron particle removal (removes desiccant particles after the dryer)
FINE FILTER (Y) Efficiency rating: 0.01 Micron particle removal & 0.01mg/m³ oil removal	ACTIVATED CARBON FILTER (A) Efficiency rating: 0.01 Micron particle removal & 0.003 mg/m³ oil removal



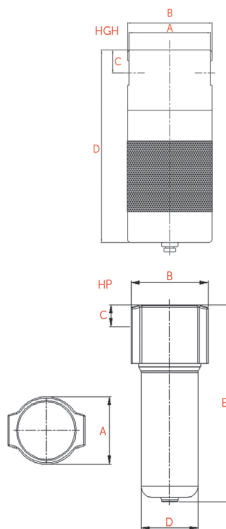


This model filters are produced in a weldless structure to withstand high pressures. High-pressure test guarantee safe and efficient operation.



Advantages

- Durable and compact
- Safe and efficient operation
- High performance
- Strong and reliable design
- Excellent high-pressure applications
- Product performance warranty
- Carbon steel filters designed for 5076 psi (optional)
- Sufficient wall thickness
- High-pressure tested
- Anodised interior and exterior surfaces



PRE FILTER (X)

Efficiency rating:
1 Micron particle
removal & 0.5mg/m³
oil removal

PARTICLE FILTER (P)

Efficiency rating:
5 Micron particle
removal
(removes desiccant
particles after the dryer)

FINE FILTER (Y)

Efficiency rating:
0.01 Micron particle
removal & 0.01mg/m³
oil removal

ACTIVATED CARBON FILTER (A)

Efficiency rating:
0.01 Micron particle
removal & 0.003 mg/m³
oil removal

Model	Capacity		Connection Size	Max. Working Pressure	Element Model	Housing Dimensions (in.)			
	m ³ /min	cfm		psi		A	B	C	D
HHGO US 60	1,7	60	1/4" NPT	725	HH25	4,17	4,68	1,18	3,46
HHGO US 175	4,96	175	1/2" NPT	725	HH50	4,17	4,68	1,18	3,46
HHGO US 350	9,91	350	3/4" NPT	725	HH100	4,17	4,68	1,18	3,46
HHGO US 500	14,2	500	1" NPT	725	HH150	4,84	5,51	1,55	4
HHGO US 700	19,8	700	1" NPT	725	HH200	4,84	5,51	1,55	4
HHGO US 950	26,9	950	1 1/2" NPT	725	HH250	4,84	5,51	1,55	4
HHGO US 1500	42,5	1500	2" NPT	725	HH2500	6,25	7	2,20	5,23
HHGO US 1750	49,6	1750	2 1/2" NPT	725	HH3000	6,25	7	2,20	5,23

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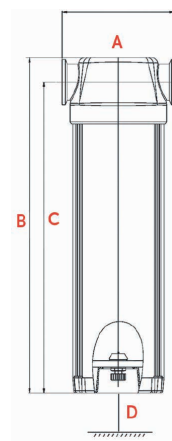


Hertz water separators are designed to remove liquid water and some particulates in compressed air at the compressor outlet. Their unique centrifugal effect separates heavier-than-air matter and the low pressure drop makes them energy-efficient.



Advantages

Hertz's HG WS water separators have 1/4" - 3" pipes for flow rates of 1295 cfm. Line filters should be used to remove unwanted substances left in the compressed air after the extremely efficient water separators.



Model	Capacity		Connection Size	Max. Working Pressure	Max. Working Temp.	Housing Dimensions (in.)			
	m ³ /min	cfm		psi	°F	A	B	C	D
HG WS US 15	0,42	15	1/4" NPT	232	176	4	10,1	9,3	6,3
HG WS US 60	1,7	60	1/2" NPT	232	176	4	10,1	9,3	8,2
HG WS US 120	3,4	120	3/4" NPT	232	176	4,8	12	10,9	11,2
HG WS US 175	4,96	175	1" NPT	232	176	4,8	12	10,9	15
HG WS US 350	9,91	350	1 1/2" NPT	232	176	4,8	12,6	11,2	18,5
HG WS US 700	19,8	700	2" NPT	232	176	6,3	19	17,4	22
HG WS US 1300	36,8	1300	3" NPT	232	176	7,6	21,5	19,3	24

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They filter unwanted substances in the compressed air before they go to the system.



Advantages

- Simple design to replacement to internal element
- Two external float drains for excellent drainage
- CE and ASME tank options
- Low pressure drop
- Durable epoxy powder coating and rust-preventing anodised interior surface coating
- Strong welds
- Long service life



Model	Capacity		Connection Size	Drain Port Size	Max. Working Pressure	Number of Elements	Element Model	Housing Dimensions (in.)				
	m³/min.	cfm			psi			A	B	C	D	E
HF US 1500	42,5	1500	3" ANSI B16.5	1/2" NPT	200	2	H1200	17,7	51	11	29,5	25,5
HF US 1900	53,8	1900	4" ANSI B16.5	1/2" NPT	200	3	H1200	17,7	52,2	11	30,3	25,5
HF US 2500	70,8	2500	4" ANSI B16.5	1/2" NPT	200	4	H1200	20,9	53,2	11	30,4	25,5
HF US 3800	107,6	3800	6" ANSI B16.5	1/2" NPT	200	6	H1200	22,8	56,4	13,1	31,4	25,5
HF US 5000	141,6	5000	6" ANSI B16.5	1/2" NPT	200	8	H1200	25,6	57,1	13,25	31,56	25,5
HF US 6500	184,1	6500	8" ANSI B16.5	1/2" NPT	200	10	H1200	29,5	59,6	14,5	32,6	25,5
HF US 8300	235	8300	8" ANSI B16.5	1/2" NPT	200	14	H1200	31,5	60,7	15	32,7	25,5
HF US 10000	283,2	10000	10" ANSI B16.5	1/2" NPT	200	16	H1200	31,5	64	16,3	33,84	25,5
HF US 12400	351,1	12400	12" ANSI B16.5	1/2" NPT	200	17	H1200	31,5	66	17,5	34,8	25,5
HF US 15000	424,8	15000	14" ANSI B16.5	1/2" NPT	200	23	H1200	39,4	69,7	18,9	35,8	25,5
HF US 17700	501,2	17700	14" ANSI B16.5	1/2" NPT	200	28	H1200	39,4	69,7	18,9	35,8	25,5

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NOTES

- 1) Grade A must not operate in oil saturated conditions.
- 2) Grade A elements should be replaced periodically to suit the applications but must be changed at least every six months.
- 3) Grade A will not remove certain gases including carbon monoxide and carbon dioxide. Please refer to works if in doubt.
- 4) Flow rates are based on a 100 psi operating pressure, for flows at other. Pressures use correction factor given above.
- 5) All filters are suitable for use with mineral and synthetic oils.
- 6) Other standards for flanged connections are available.
- 7) Direction of air flow, inside to out, through filter element

Operating Pressure (psi)	15	44	73	100	124	145	174	200
Correction Factor	0.5	0.71	0.87	1	1.1	1.18	1.28	1.39

Correction Sample

If a compressor delivers 4000 cfm at 124 psi please choose your Filter model as follow:

$4000 \text{ cfm} / 1.1 = 3636 \text{ cfm}$ your model is HF US 3800.

PRE FILTER (X)

Efficiency rating:
1 Micron particle removal & 0.5mg/m³ oil removal

PARTICLE FILTER (P)

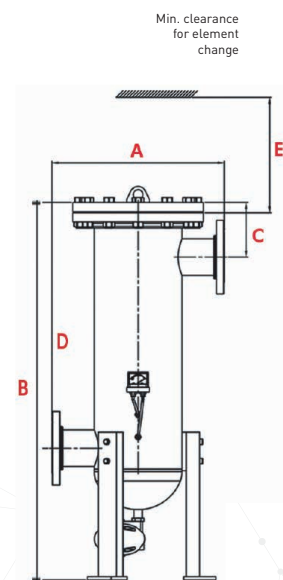
Efficiency rating:
5 Micron particle removal
(removes desiccant particles after the dryer)

FINE FILTER (Y)

Efficiency rating:
0.01 Micron particle removal & 0.01mg/m³ oil removal

ACTIVATED CARBON FILTER (A)

Efficiency rating:
0.01 Micron particle removal & 0.003 mg/m³ oil removal





Advantages **HOWS 70**

- High performance filtration materials applied
- Simple, fast and clean installation and maintenance procedure
- Successful separation of mineral oil, synthetic lubricants and stabile emulsions
- Relevant fixings and installation bracket for wall mounting included
- Brass hose connections for quick and easy installation



As condensate flows in to the HOWS 70, the oil is filtered out through various filtration elements. The oil adsorbing elements combine various types of adsorption technologies to achieve less than 10 ppm oil residue values at the output stage.

The HOWS 70 is a cost effective high performance solution for small compressed air applications. The HOWS 70 drops in to its holding bracket (included standard). Servicing involves disconnecting the inlet and outlet, removing the separator and placing the new unit in the holding bracket. There are no separate replacement elements and as such servicing is a quick and above all a clean process. Brass hose connections offer a quick coupling installation feature.

SEPERATION OF

- Mineral lubricants
- Synthetic lubricants
- Stabile emulsions
- Polyglycol, Roto-Inject, Sigma Mol*

*Consult us for special elements and/or 24/7 applications. Roto-Inject and Sigma Mol are registered trade names of produces of compressor lubricants.



Advantages **HOWS 130**

- High performance filtration materials applied
- Simple, fast and clean installation and maintenance procedure
- Successful separation of mineral oil, synthetic lubricants and stabile emulsions
- Test valve and sample bottle to test oil ppm residue, included as standard
- Mounting bracket for wall mounting and multi inlet adapter optionally available
- Brass hose connections for quick and easy installation

The HOWS range of oil/water separators separates oil from condensate, generated by compressed air systems. The HOWS achieves efficient separation of oil from condensate by means of directing the condensate through various filtration stages. As condensate flows in to the HOWS, the oil is filtered out through various filtration elements.

The oil adsorbing elements combine various types of adsorption technologies to achieve less than 10 ppm oil residue values at the output stage. The HOWS 130 is designed to be versatile and compact.

The elements are lightweight and servicing is a quick and above all clean process.



Advantages **HOWS 175-2500**

- A visual element life indication feature
- Light and easy replacement of elements
- Sectional service draining options during servicing
- Multiple condensate inlets with brass inserts for hard piping installations
- Large 1" output capacity
- Simple installation and maintenance procedures
- Sample bottle and test drain for output testing/measuring the ppm value (indication). Brass hose connections for quick and easy installation



DIMENSIONS							
	HOWS 70 (inch)	HOWS 130 (inch)	HOWS 175 (inch)	HOWS 350 (inch)	HOWS 750 (inch)	HOWS 1250 (inch)	HOWS 2500 (inch)
A	8,3	15,2	24,0	29,5	35,4	35,4	40,9
B	10,0	15,6	22,8	25,6	30,7	38,2	45,5
C			7,5	9,4	12,0	15,0	18,9



SPECIFICATIONS							
	HOWS 70	HOWS 130	HOWS 175	HOWS 350	HOWS 750	HOWS 1250	HOWS 2500
Target output value	<10 ppm	<10 ppm	<10 ppm	<10 ppm	<10 ppm	<10 ppm	<10 ppm
Max. compressor capacity (CFM)	70	130	175	350	750	1250	2500
Maximum oil adsorption (gallons)	0,5	1	1,3	2,6	4,0	6,6	13,2
Indicator white element	-	-	1	1	1	1	1
Static white element	1	1	1	1	1	1	1
Carbon black element	1	1	1	1	1	1	2
Inlet connections	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"
Outlet connection	1/2"	1/2"	1"	1"	1"	1"	1"
Service drains	No	No	No	Yes	Yes	Yes	Yes
Overflow indicator	No	No	Yes	Yes	Yes	Yes	Yes

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Oil in aerosol form and oil mist lower the quality of the compressed air and can damage pneumatic equipment. The patented Carbolescer can eliminate both the aerosol and mist forms of oil. It consists of a pleated separator layer, a carbon layer, and a particulate layer. The pleated separator layer removes the aerosol form of oil. When oily compressed air enters the unit, the oil droplets coalesce and run down the filter medium. The collected liquid oil is automatically drained off. The pleated separator filters out oil contaminants as small as 0.01 microns. In addition to the pleated separator, the activated carbon layer adsorbs oil mist. The oil mist is physically retained by the activated carbon granules and as a result, the oil content can be reduced to 0.003 ppm. The final particulate filter layer actively removes carbon dust and maintains the quality of the compressed air.



Key Features

- Very low pressure drops
- Remaining oil aerosol content no more than 0.003 ppm
- Equal air distribution
- Long service life
- User-friendly replacement procedure
- Oil indicator

MAX. OPERATING PRESSURE (232 psi)

OPERATING PRESSURE (bar)	14	43	75	101	130	159	188	2023
CORRECTION FACTOR	0,5	0,71	0,87	1	1,12	1,22	1,32	1,38

MAX. OPERATING PRESSURE (580 psi)

OPERATING PRESSURE (bar)	65	72	87	101	116	130	145	159	174	188	203	217	232	580
CORRECTION FACTOR	0,69	0,75	0,88	1	1,12	1,25	1,37	1,5	1,62	1,74	1,87	1,99	2,11	4

Model	Max. Remaining Oil Aerosol Content @ 69.8°F	Capacity		Max. Operating Pressure	Connection Size Inlet-Outlet	Length	Height
	ppm	Nm³/h	cfm	psi		in.	in.
HELM-US-C G100-16	0,003	35	21	232	1/2" NPT	4	15
HELM-US-C G150-16	0,003	45	26	232	1/2" NPT	5	17
HELM-US-C G200-16	0,003	50	29	232	1/2" NPT	5	20
HELM-US-C G250-16	0,003	70	41	232	1" NPT	5	21
HELM-US-C G300-16	0,003	85	50	232	1" NPT	5	23
HELM-US-C G500-16	0,003	100	59	232	1" NPT	5	25
HELM-US-C G600-16	0,003	130	76	232	1 1/2" NPT	5	26
HELM-US-C G851-16	0,003	170	100	232	1 1/2" NPT	6	30
HELM-US-C G1210-16	0,003	200	118	232	2" NPT	6	32
HELM-US-C F150-14	0,003	255	150	203	ANSI 2" Flange	20	42
HELM-US-C F300-14	0,003	510	300	203	ANSI 2" Flange	20	46
HELM-US-C F600-14	0,003	1020	600	203	ANSI 2" Flange	20	60
HELM-US-C F800-14	0,003	1360	800	203	ANSI 3" Flange	20	64
HELM-US-C F1200-14	0,003	2040	1200	203	ANSI 3" Flange	24	63
HELM-US-C F1600-14	0,003	2720	1600	203	ANSI 3" Flange	24	65
HELM-US-C F2100-14	0,003	3570	2100	203	ANSI 4" Flange	28	65
HELM-US-C F2750-14	0,003	4675	2750	203	ANSI 4" Flange	28	70
HELM-US-C F4200-14	0,003	7140	4200	203	ANSI 6" Flange	31	69
HELM-US-C F6000-14	0,003	10200	6000	203	ANSI 6" Flange	31	79
HELM-US-C F8000-14	0,003	13600	8000	203	ANSI 8" Flange	33	82

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Air tanks are used for storage in compressed air systems. They prevent pressure fluctuations in the system and eliminate inefficiencies especially in fix speed compressor applications.



Advantages

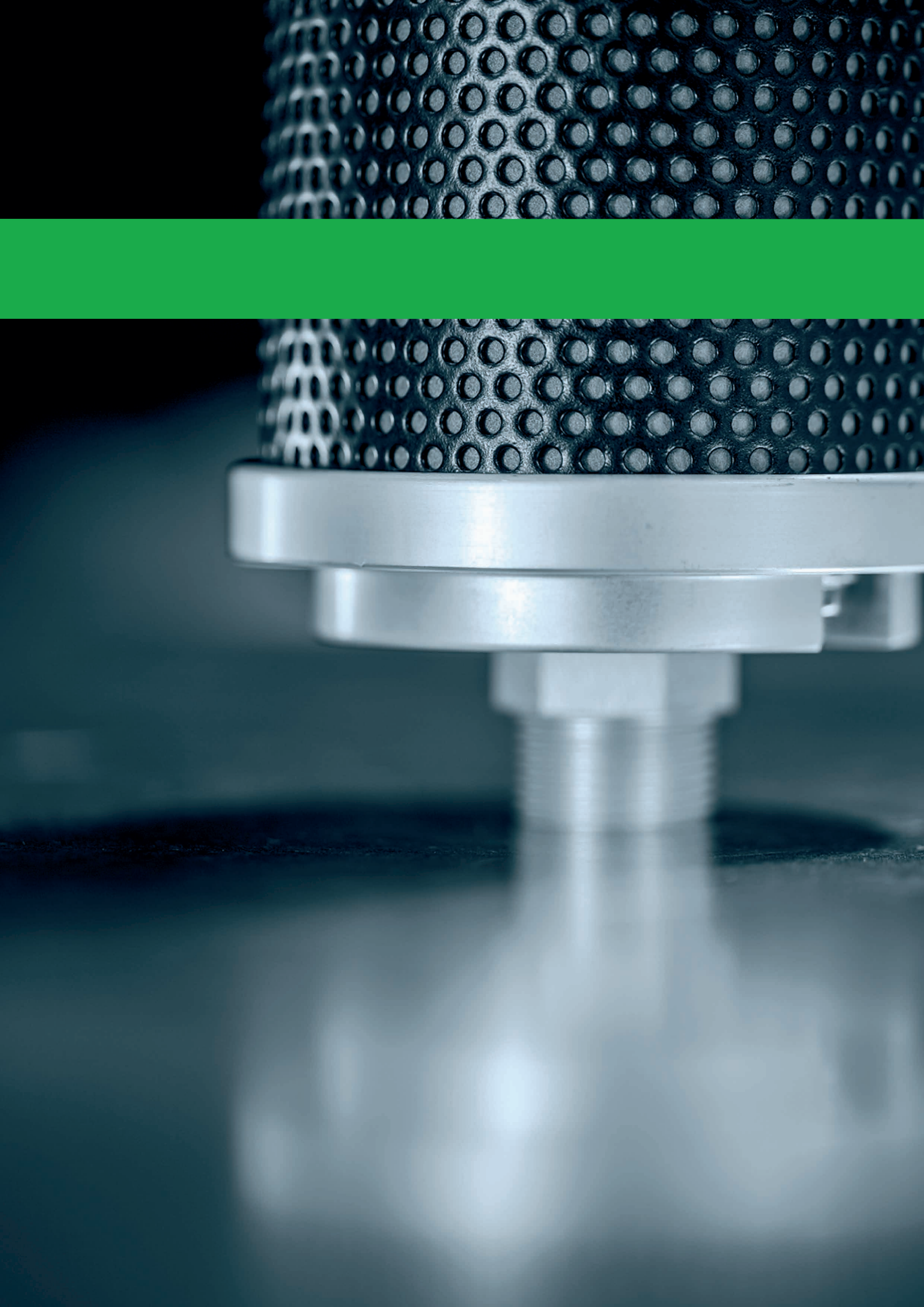
- They allow the system to respond quickly to high and sudden consumption
- A key component of compressed air systems
- Storage function
- Reduces system pressure fluctuations
- Increases efficiency
- Galvanized and stainless steel options
- Energy saving
- Highly durable with a long service life

Model	Volume	Pressure	Configuration	Dimensions (in.)		Weight (lbs)
	Gal	Psi		Diameter	Length	
AIR RECEIVER 120	120	200	VERTICAL	24	67	275
AIR RECEIVER 200	200	200	VERTICAL	30	72	505
AIR RECEIVER 240	240	200	VERTICAL	30	84	542
AIR RECEIVER 400	400	165	VERTICAL	36	93	717
AIR RECEIVER 500	500	165	VERTICAL	36	117	867
AIR RECEIVER 660	660	150	VERTICAL	42	120	1391
AIR RECEIVER 1060	1060	155	VERTICAL	48	144	1921
AIR RECEIVER 1550	1550	165	VERTICAL	54	166	3037
AIR RECEIVER 2000	2000	150	VERTICAL	60	174	3503
AIR RECEIVER 2560	2560	150	VERTICAL	60	220	4314
AIR RECEIVER 3000	3000	150	VERTICAL	66	214	4868
AIR RECEIVER 3800	3800	150	VERTICAL	72	228	6520
AIR RECEIVER 5000	5000	150	VERTICAL	72	313	8576

NITROGEN GENERATORS



HNG MOD - Modular Nitrogen Generators	36
HNG - Nitrogen Generators	38





Nitrogen is separated from oxygen and enriched with the Carbon Molecular Sieve (CMS) adsorbent used in Hertz Pressure Swing Adsorption (PSA) type Nitrogen generators. Carbon Molecular Sieve (CMS) allows nitrogen to pass through the line by adsorbing oxygen and water vapor molecules under a certain pressure.

Hertz Nitrogen Generator has a compact structure through multiple modules filled with Carbon Molecular Sieve.

Clean and dry air is directed to the modules in a sequential manner for the adsorption process. The Carbon Molecular Sieve (CMS) in the modules adsorbs oxygen and water vapor molecules and keeps them in its pores, allowing nitrogen molecules to pass through. Thus, nitrogen gas is produced (Purity levels can be between 95-99.999% depending on the areas of use and customer expectations).



Advantages

- Compact design, full automated operation
- Replaces manifold usage
- New design silencer that operates at lower noise levels during pressurization and purge
- High performance
- The purity and capacity of nitrogen gas is designed to meet customer requirements (Nitrogen Purity 95%~99.999% is available)
- Durable piston valves for long-life operation
- Minimum maintenance cost
- Lower air-to-nitrogen (A/N) ratios and energy consumption
- High-sensitive sensor technologies
- Effective integrated filtration



Standard

- Nitrogen Modules
- Silencer
- Mini PLC
- Manometers
- Pressure Transmitter
- ECO Mod
- T Filter
- Piston Valves
- Valve Control Regulator



Optional

- Dew Point Sensor Kit
- Flowmeter Kit
- Oxygen Analyzer Kit
- 3-Way By-Pass Valve Kit
- HMI Color Touch Screen PLC
- Buffer Tank
- Oil Indicator

Model	Free Nitrogen Delivery @ following purity level (cfm)									
	95%	97%	98%	99%	99,5%	99,90%	99,95%	99,99%	99,995%	99,999%
HNG MOD 20	2,5	2,3	1,9	1,5	1	0,9	0,9	0,4	0,4	0,2
HNG MOD 40	4,1	3,7	3,2	2,4	2	1,5	1,4	0,7	0,6	0,4
HNG MOD 70	7,6	6,8	5,8	4,4	3,5	2,6	2,6	1,3	1,1	0,8
HNG MOD 123	12,6	11,3	9,7	7,3	5,9	4,5	4,3	2,2	1,8	1,3
HNG MOD 210	21,7	19,4	16,8	12,6	10,4	7,7	7,4	3,7	3	2,2
HNG MOD 285	29	26	22,4	16,8	13,8	10,2	9,9	4,9	4,1	2,9
HNG MOD 340	35,5	31,8	27,4	20,5	16,9	12,5	12,1	6,1	4,9	3,6
HNG MOD 555	56,5	50,6	43,6	32,7	26,8	20	19,2	9,7	7,9	5,8
HNG MOD 735	74,8	66,9	57,7	43,3	35,6	26,4	25,4	12,8	10,4	7,6
HNG MOD 990	101,1	90,4	77,9	58,4	48	35,7	34,4	17,3	14,1	10,3
HNG MOD 1130	115,8	103,6	89,3	67	55	40,8	39,4	19,8	16,1	11,8
HNG MOD 1260	128,6	115	99,1	74,4	61,1	45,4	43,7	22	17,9	13,1
HNG MOD 1650	168,3	150,6	129,7	97,4	80	59,4	57,3	28,8	23,4	17,1

Ambient Temperature (°C)	Correction Factor (Kt)
5	0,85
10	1
15	1
20	1
25	1
30	0,91
35	0,82
40	0,74
45	0,60

Inlet Pressure (Barg)	Correction Factor (Kp)
5	0,68
5,5	0,73
6	0,79
6,5	0,88
7	0,90
7,5	1
8	1,04
8,5	1,08
9	1,15
9,5	1,18
10	1,2

Purity (%)	Air / Nitrogen Ratio
95	1,6
97	1,6
98	1,7
99	2,1
99,5	2,4
99,9	2,8
99,95	2,9
99,99	4,8
99,995	5,8
99,999	7,4

Correction Formula: Nitrogen Delivery = Air Delivery Capacity of the Compressors / Air-Nitrogen Ratio / Kt / Kp



Nitrogen is separated from oxygen and enriched with the Carbon Molecular Sieve (CMS) adsorbent used in Hertz Pressure Swing Adsorption (PSA) type Nitrogen generators. Carbon Molecular Sieve (CMS) allows nitrogen to pass through the line by adsorbing oxygen and water vapor molecules under a certain pressure.

Nitrogen Generator produces nitrogen gas through two adsorption tanks filled with Carbon Molecular Sieve (CMS).

Clean and dry air is directed to one of the tanks in a sequential manner for the adsorption process. The Carbon Molecular Sieve (CMS) in the tank adsorbs oxygen and water vapor molecules and keeps them in its pores, allowing nitrogen molecules to pass through. Thus, nitrogen gas is produced (Purity levels can be between 95-99.999% depending on the areas of use and customer expectations).



Advantages

- Compact design, full automated operations
- Replaces manifold usage
- Touch Screen PLC for controlling the complete system
- New design silencer that operates at lower noise levels during pressurization and purge
- Durable piston valves for long-life operation
- The purity and capacity of nitrogen gas is designed to meet customer requirements (Nitrogen Purity 95%~99.999% is available)
- Minimum maintenance cost
- Lower air-to-nitrogen (A/N) ratios and energy consumption



Standard

- Nitrogen Tanks
- Silencer
- Mini PLC
- Tank Manometers
- Pressure Transmitter
- T Filter
- Piston Valves
- Valve Control Regulator



Optional

- Dew Point Sensor Kit
- Flowmeter Kit
- Oxygen Analyzer Kit
- 3-Way By-Pass Valve Kit
- HMI Color Touch Screen PLC
- Buffer Tank
- Oil Indicator

Model	Free Nitrogen Delivery @ following purity level (cfm)									
	95%	97%	98%	99%	99,5%	99,90%	99,95%	99,99%	99,995%	99,999%
HNG 140	16,2	13,8	13,5	9	7,1	5,8	4,9	2,8	2,2	1,7
HNG 185	21,6	18,4	18,1	12	9,5	7,7	6,5	3,6	2,9	2,3
HNG 225	26,5	22,5	22,2	14,7	11,6	9,5	8	4,5	3,5	2,8
HNG 360	42,1	35,8	35,3	23,4	18,4	15,1	12,7	7,1	5,6	4,5
HNG 475	55,7	47,4	46,7	30,9	24,4	19,9	16,9	9,4	7,4	5,9
HNG 640	75,3	64,1	63,1	41,8	32,9	26,9	22,8	12,8	10	7,9
HNG 700	86,2	73,4	72,3	47,9	37,7	30,8	26,1	14,6	11,5	9,1
HNG 810	95,8	81,5	80,3	53,2	41,9	34,3	29	16,2	12,7	10,1
HNG 1065	125,4	106,7	105,1	69,6	54,8	44,9	38	21,2	16,7	13,2
HNG 1300	153,4	130,6	128,5	85,1	67	54,9	46,4	26	20,4	16,2
HNG 1580	186,5	158,7	156,2	103,4	81,5	66,7	56,4	31,6	24,8	19,7
HNG 1750	205,7	175	172,3	114,1	89,9	73,5	62,3	34,8	27,4	21,8
HNG 1940	227,9	193,9	191	126,4	99,6	81,5	69	38,6	30,3	24,1
HNG 2610	308,2	262,3	258,2	170,9	134,7	110,2	93,3	52,2	41	32,6
HNG 3050	359,4	305,8	301,1	199,4	157,1	128,5	108,8	60,9	47,8	38
HNG 3660	253,4	366,6	361	239	188,4	154	130,4	73	57,3	45,6
HNG 4500	531,4	452,2	445,3	294,8	232,2	190	160,9	90,1	70,6	56,2
HNG 5290	622,7	530	521,8	345,5	272,3	222,7	188,5	105,5	82,8	65,9
HNG 6100	718,2	611,1	601,7	398,4	314	256,7	217,4	121,7	95,5	76
HNG 7340	864,5	735,7	724,4	479,6	378	309,1	261,7	146,4	115	91,5
HNG 9060	1067,1	908,1	894,1	592	466,6	381,5	323	180,8	141,9	112,9
HNG 10780	1269,4	1080,4	1063,7	704,3	555	453,9	384,2	215,1	168,8	134,3
HNG 12100	1425,9	1213,4	1194,7	791	623,4	509,7	431,6	241,6	189,5	150,8
HNG 14780	1741,4	1482	1459,4	966,1	761,4	622,6	527,1	295,1	231,5	184,2

Ambient Temperature (°C)	Correction Factor (Kt)
5	0,85
10	1
15	1
20	1
25	1
30	0,91
35	0,82
40	0,74
45	0,60

Inlet Pressure (Barg)	Correction Factor (Kp)
5	0,68
5,5	0,73
6	0,79
6,5	0,88
7	0,90
7,5	1
8	1,04
8,5	1,08
9	1,15

Purity (%)	Air / Nitrogen Ratio
95	1,4
97	1,6
98	1,6
99	2,1
99,5	2,4
99,9	2,8
99,95	2,9
99,99	4,6
99,995	5,8
99,999	7,2

Correction Formula: Nitrogen Delivery = Air Delivery Capacity of the Compressors / Air-Nitrogen Ratio / Kt / Kp



**Building
the Future!**



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