

0.28-155.7
m³/min

10-5500
cfm

232
psi



REFRIGERATED TYPE COMPRESSED AIR DRYERS



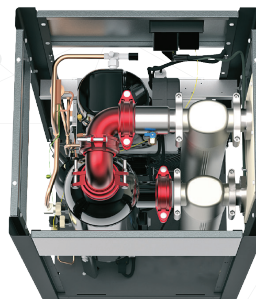
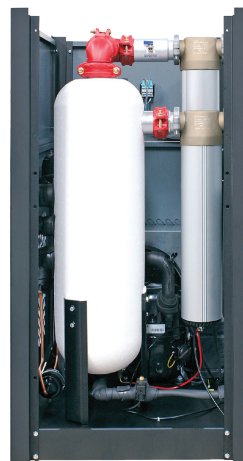
What are refrigerated air dryers?

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]

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.

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 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