

Refrigerated Type Air Dryers

HRD US Series

HRD US 10 / 15 / 25 / 30 / 40 / 60 / 80 / 100 / 125 / 150 / 200 / 250
/ 350 / 500 / 600 / 750 / 1000 / 1200 / 1500 / 1750 / 2250
/ 2600 / 3000 / 3500 / 4000 / 4500 / 5500

hertz[®]
KOMPRESSOREN



Refrigerated Type HRD US Compressed Air Dryers

- 37 °F pressure dew point
- Very Low Pressure Drop
- Designed for Tropical Conditions
- Dryer easily runs at 140 °F Max. Inlet Temp. and 122 °F Ambient Temp. due to R134a refrigerant (all through the range) and oversized condenser.

Aluminum Heat Exchanger is Standard (From HRD US 30)

Very Low Pressure Drop (1.45 psi)
Very Efficient (37 °F real pressure dew point)



Scroll Compressors (from HRD US 250)

Scroll Compressors which are energy efficient and durable against liquid shocks are employed.

Easy to Access

Easy to access in to the cooling components in seconds by the help of Screw free panels and plastic handles.



Compact Design

As the canopy of the dryer is designed not to leave any unused space inside, HRD US series air dryers cover minimal space where they are placed.

ESD Digital Controller (HRD US 600 - 5500)

- Reduce energy consumption
- Monitor many useful parameters
- Guides users to troubleshoot problems
- Automatic shutdown when not in use



Digi-Pro Digital Controller (HRD US 10-500)

- Digital dew point monitoring
- Energy-saving "Eco Mode" display
- Periodic maintenance interval display
- Status report
- Hours run meter
- Fahrenheit and Centigrade selection



SPECIFICATIONS

Model	Capacity**		Connection Size	Voltage	Max. Working Pressure	Max. Ambient Temp.	Max. Inlet Temp.	Refrigerant	Integrated Filter and Type	Dimensions (in.)			Weight (lbs)
	m ³ /min	cfm								Length	Width	Height	
HRD US 10	0.28	10	1/2" NPT	115V/1/60 Hz	232	122	140	R-134a	1 * HGKO45MX+MY	14	16	22	71
HRD US 15	0.42	15	1/2" NPT	115V/1/60 Hz	232	122	140	R-134a	1 * HGKO45MX+MY	14	16	22	71
HRD US 25	0.71	25	1/2" NPT	115V/1/60 Hz	232	122	140	R-134a	1 * HGKO45MX+MY	14	16	22	71
HRD US 30	0.85	30	1/2" NPT	115V/1/60 Hz	232	122	140	R-134a	1 * HGKO70MX+MY	14	16	22	77
HRD US 40	1.13	40	3/4" NPT	115V/1/60 Hz	232	122	140	R-134a	1 * HGKO150MX+MY	18	19	33	112
HRD US 60	1.70	60	3/4" NPT	115V/1/60 Hz	232	122	140	R-134a	1 * HGKO150MX+MY	18	19	33	117
HRD US 80	2.27	80	3/4" NPT	115V/1/60 Hz	232	122	140	R-134a	1 * HGKO150MX+MY	18	19	33	121
HRD US 100	2.83	100	1 1/2" NPT	115V/1/60 Hz	232	122	140	R-134a	1 * HGKO500MX+MY	20	22	34	172
HRD US 125	3.54	125	1 1/2" NPT	115V/1/60 Hz	232	122	140	R-134a	1 * HGKO500MX+MY	20	22	34	183
HRD US 150	4.25	150	1 1/2" NPT	230V/1/60 Hz	232	122	140	R-134a	1 * HGKO500MX+MY	20	22	34	189
HRD US 200	5.66	200	2" NPT	230V/1/60 Hz	232	122	140	R-134a	1 * HGKO851MX+MY	29	37	46	352
HRD US 250	7.08	250	2" NPT	230V/1/60 Hz	232	122	140	R-134a	1 * HGKO1210MX+MY	29	37	46	363
HRD US 350	9.91	350	2" NPT	460V/3/60 Hz	232	122	140	R-134a	1 * HGKO1210MX+MY	29	37	54	484
HRD US 500	14.2	500	2" NPT	460V/3/60 Hz	232	122	140	R-134a	1 * HGKO1210MX+MY	29	37	54	506
HRD US 600	17.0	600	3" NPT	460V/3/60 Hz	232	122	140	R-134a	1 * HGKO1820MX+MY	31	37	57	594
HRD US 750	21.2	750	3" NPT	460V/3/60 Hz	232	122	140	R-134a	1 * HGKO1820MX+MY	31	37	57	627
HRD US 1000	28.3	1000	3" NPT	460V/3/60 Hz	232	122	140	R-134a	1 * HGKO2700MX+MY	31	46	68	862
HRD US 1200	34.0	1200	3" NPT	460V/3/60 Hz	232	122	140	R-134a	1 * HGKO2700MX+MY	31	46	68	902
HRD US 1500	42.5	1500	4" ANSI B16.5	460V/3/60 Hz	232	122	140	R-134a	Not Included	33	55	70	1082
HRD US 1750	49.6	1750	4" ANSI B16.5	460V/3/60 Hz	232	122	140	R-134a	Not Included	33	55	70	1144
HRD US 2250	63.7	2250	4" ANSI B16.5	460V/3/60 Hz	232	122	140	R-134a	Not Included	42	58	76	1531
HRD US 2600	73.6	2600	4" ANSI B16.5	460V/3/60 Hz	232	122	140	R-134a	Not Included	42	58	76	1580
HRD US 3000	85.0	3000	6" ANSI B16.5	460V/3/60 Hz	232	122	140	R-134a	Not Included	42	86	76	1980
HRD US 3500	99.1	3500	6" ANSI B16.5	460V/3/60 Hz	232	122	140	R-134a	Not Included	42	86	76	2035
HRD US 4000	113.3	4000	6" ANSI B16.5	460V/3/60 Hz	232	122	140	R-134a	Not Included	47	88	80	2145
HRD US 4500	127.4	4500	8" ANSI B16.5	460V/3/60 Hz	232	122	140	R-134a	Not Included	47	88	80	2420
HRD US 5500	155.7	5500	8" ANSI B16.5	460V/3/60 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 CAG): 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 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

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.