

Refrigerated Type High Pressure Air Dryers

HRD HP US Series

HRD HP US 15 / 20 / 25 / 40 / 65 / 90 / 105 / 120 / 170 / 190 / 215 / 270 /
330 / 425 / 540 / 615 / 775 / 880 / 1080 / 1160 / 1380



Refrigerated Type High Pressure Compressed Air Dryers

Durable, compact and efficient Hertz dryers will soon become the global standard for performance. Heat-Exchanger design is unique and patented. The Mono-Block Heat-Exchangers are constructed with thick, steel tubes specially treated to resist corrosion.

The heavy-duty steel construction makes it the most reliable, long lasting heat exchanger available. Specially designed louvered copper plates are welded to the steel tubes with a proprietary technology. This design achieves a hyper efficient 100 % contact between the air and refrigerant circuits delivering state-of-art performance and great cooling efficiency.

The state-of-the-art Mono-Block design features very low differential pressure delivering real energy savings. The Mono-Block Heat-Exchanger is compact and allows the dryer to be smaller and reducing the space required for the dryer. Hertz offers a variety of Mono-Block dryers equipped with the Mono-Block Heat-Exchanger to meet a full range of capacity and power requirements.

Maximum Pressure: HRD HP US 15 - HRD HP US 190 / 725 psi
HRD HP US 215 - HRD HP US 1380 / 653 psi

Maximum Temperature: Inlet air 158 °F
Ambient 140 °F

Automatic Drain / Timed Drain
Pneumatic operated membrane valve (2)

OPTIONS:

- Condensate drain
- Ambient temperature until - 4 °F
- Ambient temperature until 140 °F
- Water condenser
- Digital controller
- Micro processor
- Zero loss drain

SPECIFICATIONS

Model	Capacity**		Connection Size	Voltage	Max. Working Pressure	Max. Ambient Temp.	Max. Inlet Temp.	Refrigerant	Recommended Filter and Type	Dimensions (in.)			Weight (lbs)
	m ³ /min	cfm			psi	°F	°F			Length	Width	Height	
HRD HP US 15	0.42	15	3/8" NPT	115V/1/60	725	140	158	R134a	HHGO US 60 MX+MY	19.7	14.1	18.1	66
HRD HP US 20	0.57	20	3/8" NPT	115V/1/60	725	140	158	R134a	HHGO US 60 MX+MY	19.7	14.1	18.1	70
HRD HP US 25	0.71	25	3/8" NPT	115V/1/60	725	140	158	R134a	HHGO US 60 MX+MY	19.7	14.1	18.1	70
HRD HP US 40	1.13	40	3/4" NPT	115V/1/60	725	140	158	R134a	HHGO US 60 MX+MY	25.5	16	19.5	119
HRD HP US 65	1.84	65	3/4" NPT	115V/1/60	725	140	158	R134a	HHGO US 175 MX+MY	25.5	16	19.5	121
HRD HP US 90	2.55	90	3/4" NPT	115V/1/60	725	140	158	R134a	HHGO US 175 MX+MY	25.5	16	19.5	125
HRD HP US 105	2.97	105	3/4" NPT	115V/1/60	725	140	158	R134a	HHGO US 175 MX+MY	25.5	16	19.5	136
HRD HP US 120	3.40	120	1" NPT	115V/1/60	725	140	158	R134a	HHGO US 350 MX+MY	26.5	19	28	194
HRD HP US 170	4.81	170	1" NPT	115V/1/60	725	140	158	R134a	HHGO US 350 MX+MY	26.5	19	28	202
HRD HP US 190	5.38	190	1" NPT	230V/1/60	725	140	158	R134a	HHGO US 350 MX+MY	26.5	19	28	202
HRD HP US 215	6.09	215	1 1/2" NPT	230V/1/60	653	140	158	R134a	HHGO US 350 MX+MY	21.7	26.4	38.8	284
HRD HP US 270	7.65	270	1 1/2" NPT	230V/1/60	653	140	158	R134a	HHGO US 350 MX+MY	27.4	29.3	48.6	370
HRD HP US 330	9.34	330	1 1/2" NPT	230V/1/60	653	140	158	R134a	HHGO US 500 MX+MY	27.4	29.3	48.6	496
HRD HP US 425	12.0	425	1 1/2" NPT	230V/1/60	653	140	158	R134a	HHGO US 500 MX+MY	27.4	29.3	48.6	529
HRD HP US 540	15.3	540	2 1/2" NPT	460V/3/60	653	140	158	R134a	HHGO US 700 MX+MY	27.6	31.5	56.7	612
HRD HP US 615	17.4	615	2 1/2" NPT	460V/3/60	653	140	158	R134a	HHGO US 700 MX+MY	27.6	31.5	56.7	650
HRD HP US 775	21.9	775	2 1/2" NPT	460V/3/60	653	140	158	R134a	HHGO US 950 MX+MY	27.6	31.5	56.7	767
HRD HP US 880	24.9	880	2 1/2" NPT	460V/3/60	653	140	158	R134a	HHGO US 950 MX+MY	44	38.4	60.5	998
HRD HP US 1080	30.6	1080	2 1/2" NPT	460V/3/60	653	140	158	R404a	HHGO US 1500 MX+MY	44	38.4	60.5	1005
HRD HP US 1160	32.8	1160	2 1/2" NPT	460V/3/60	653	140	158	R404a	HHGO US 1500 MX+MY	44	38.4	60.5	1172
HRD HP US 1380	39.1	1380	2 1/2" ANSI B16.5	460V/3/60	653	140	158	R404a	HHGO US 1500 MX+MY	44	38.4	60.5	1181

* 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).

CORRECTION FACTORS FOR HRD HP 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	-

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: 500 cfm / 0.96 / 0.87 / 0.72 = 831 cfm the correct dryer for this is HRD HP US 880.