Cycling (Thermal Mass) Air Dryers

HRC US Series

HRC US 150 / 175 / 200 / 250 / 325 / 400 / 500 / 700 / 850 / 1000 / 1200 / 1600 / 2000 / 2400 / 3000

hertz® KOMPRESSOREN

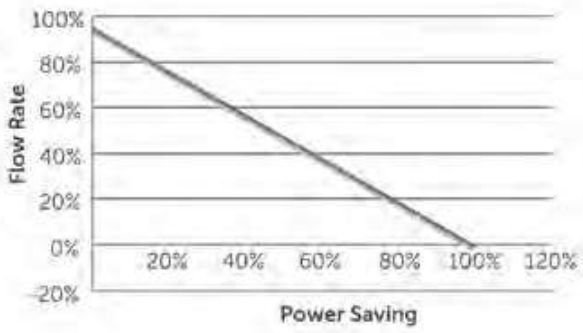
SAVE THE ENERGY

Hertz Cycling Dryers cools an engineered special liquid in a stainless tank having 33.8°F temperature. This liquid is cycled in the dryer to cool down the compressed air.

This technology helps the customers to SAVE ENERGY when the dryer has variable inlet flow.

All components that are exposed to water-glycol mixture are either stainless steel (Heat exchanger, Tank, Pump) or Aluminum (Dryer heat exchanger) Therefore there is no risk of rust.

HRD US Dryers Power Saving Chart



Stainless Steel Heat Exchanger

Stainless Steel Water Tank

Stainless Water Pump

SPECIFICATIONS

Model	Capacity**		Connection Size	Voltage	Max. Working Pressure	Max. Ambient Temp.	Max. Inlet Temp.	Refrigerant Gas	Recommended Filter and Type	Dimensions (in.)			Weight lbs
	m^3/min	cfm			psi	°F	°F			Length	Width	Height	
HRC US 150	4.25	150	1 1/2" NPT	230V/1/60 Hz	230	120	150	R-134a	HGO US 175 MX+MY	28	23.2	48	425
HRC US 175	4.96	175	1 1/2" NPT	230V/1/60 Hz	230	120	150	R-134a	HGO US 175 MX+MY	28	23.2	48	463
HRC US 200	5.66	200	1 1/2" NPT	230V/1/60 Hz	230	120	150	R-134a	HGO US 300 MX+MY	28	23.2	48	474
HRC US 250	7.08	250	1 1/2" NPT	460V/3/60 Hz	230	120	150	R-134a	HGO US 300 MX+MY	29.3	33.2	50	611
HRC US 325	9.20	325	2" NPT	460V/3/60 Hz	230	120	150	R-134a	HGO US 500 MX+MY	29.3	33.2	50	655
HRC US 400	11.3	400	2" NPT	460V/3/60 Hz	230	120	150	R-134a	HGO US 500 MX+MY	29.3	33.2	50	721
HRC US 500	14.2	500	2" NPT	460V/3/60 Hz	230	120	150	R-134a	HGO US 500 MX+MY	32	46	60	794
HRC US 700	19.8	700	3" NPT	460V/3/60 Hz	230	120	150	R-134a	HGO US 1100 MX+MY	32	46	60	836
HRC US 850	24.1	850	3" NPT	460V/3/60 Hz	230	120	150	R-134a	HGO US 1100 MX+MY	32	46	60	941
HRC US 1000	28.3	1000	3" NPT	460V/3/60 Hz	230	120	150	R-134a	HGO US 1100 MX+MY	32	46	74	1396
HRC US 1200	34.0	1200	3" NPT	460V/3/60 Hz	230	120	150	R-134a	HGO US 1300 MX+MY	32	46	74	1715
HRC US 1600	45.3	1600	4" ANSI B16.5	460V/3/60 Hz	230	120	150	R-134a	HGO US 2500 MX+MY	62	46	78	2112
HRC US 2000	56.6	2000	4" ANSI B16.5	460V/3/60 Hz	230	120	150	R-134a	HGO US 2500 MX+MY	62	46	78	2403
HRC US 2400	68.0	2400	6" ANSI B16.5	460V/3/60 Hz	230	120	150	R-134a	HGO US 3800 MX+MY	78.7	48	78	2454
HRC US 3000	85.0	3000	6" ANSI B16.5	460V/3/60 Hz	230	120	150	R-134a	HGO US 3800 MX+MY	86	48	78	2815

* 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 FACTORS FOR HRC US AIR DRYERS

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

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 cfm / 1.06 / 0.5 / 0.90 = 1468 cfm Dryer model for this application is HRC US 1600.