

Downstream Equipments

HRD HP Series

HRD 33HP / 38HP / 54HP / 87HP / 135HP / 190HP / 218HP
 256HP / 355HP / 412HP / 461HP / 577HP / 705HP / 904HP
 1149HP / 1305HP / 1648HP / 1873HP / 2309HP / 2444HP / 2932HP



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 Exchanges 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 pleats 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: HRD33HP - HRD412HP / 50 Bar
 HRD461HP - HRD2932HP / 45 bar

Maximum Temperature: Inlet air 70°C
 Ambient 60°C

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

OPTIONS: Just put following suffix requested after the reference number of the dryer.

- Condansate drain
- Ambient temperature until -20°C
- Ambient temperature until +60°C
- Water condenser
- Digital controller
- Micro processor
- Zero loss drain

CORRECTION FACTORS FOR HRD-HP SERIE

PRESSURE BAR	20	25	30	35	40	45	50	-	-	-	-
F1	1,19	1,10	1,07	1,04	1,02	1	0,98	-	-	-	-
AMBIENT TEMPERATURE °C	-	-	-	-	20	25	30	35	40	42	-
F2 (R134a)	-	-	-	-	0,93	1	1,07	1,15	1,22	1,27	-
(R404a)	-	-	-	-	-	1	1,11	1,23	1,30	1,35	-
INLET TEMPERATURE °C	-	-	-	-	30	35	40	45	50	55	60
F3	-	-	-	-	0,83	1	1,18	1,38	1,59	1,83	2,04

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SPECIFICATIONS

hertz[®]
 KOMPRESSOREN

TYPE	FLOW(*)			CONDENSER AIR FLOW m ³ /h	POWER kw	FITTINGS (**) BSP	NOISE db	PRESSURE DROP Bar	DIMENSIONS (mm)			WEIGHT (with box) Kg	DRAIN
	l/min	(m ³ /h)	(cfm)						W	L	H		
HRD 33HP	548	33	19	100	0.25	3/8"	53	0.01	570	440	490	30	1
HRD 38HP	631	38	22	370	0.25	3/8"	52	0.02	570	440	490	32	1
HRD 54HP	896	54	32	340	0.25	3/8"	53	0.03	570	440	490	32	1
HRD 87HP	1444	87	51	370	0.28	3/4"	52	0.02	760	490	530	54	1
HRD 135HP	2241	135	79	340	0.35	3/4"	51	0.05	760	490	530	55	1
HRD 190HP	3154	190	112	410	0.58	3/4"	53	0.06	760	490	530	57	1
HRD 218HP	3619	218	128	800	0.66	3/4"	58	0.08	760	490	530	62	1
HRD 256HP	4250	256	151	980	0.8	1"	59	0.13	780	575	730	88	1
HRD 355HP	5893	355	209	980	1.1	1"	63	0.16	780	575	730	92	1
HRD 412HP	6839	412	242	980	1.3	1"	63	0.22	780	575	730	92	1

VOLTAGE: 230V/1/50Hz. Option: 115V/1/60Hz. (**) Connection back side.

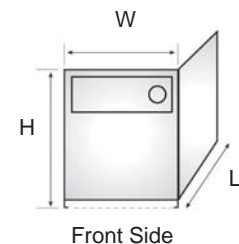
TYPE	FLOW(*)			CONDENSER AIR FLOW m ³ /h	CONDENSER WATER FLOW m ³ /h	POWER kw	FITTINGS (**) BSP	DIMENSIONS (mm)			WEIGHT (with box) Kg	DRAIN
	m ³ /min	(m ³ /h)	(cfm)					W	L	H		
HRD 461HP	8	461	271	980	-	1.1	1 1/2"	620	730	1040	129	1
HRD 577HP	10	577	339	980	-	1.3	1 1/2"	810	760	1300	168	1
HRD 705HP	12	705	415	980	-	1.4	1 1/2"	810	760	1300	225	1
HRD 904HP	15	904	532	2250	-	1.9	1 1/2"	810	760	1300	240	1

VOLTAGE: 230V/1/50Hz. Option: 115V/1/60Hz. or 400-440V/3/50-60Hz. (**) Connection back side.

TYPE	FLOW(*)			CONDENSER AIR FLOW m ³ /h	CONDENSER WATER FLOW m ³ /h	POWER kw	FITTINGS (**) BSP	DIMENSIONS (mm)			WEIGHT (with box) Kg	DRAIN
	m ³ /min	(m ³ /h)	(cfm)					W	L	H		
HRD 1149HP	19	1149	676	2250	-	2.4	2 1/2"	870	770	1500	278	2
HRD 1305HP	22	1305	768	2250	-	2.6	2 1/2"	870	770	1500	295	2
HRD 1648HP	27	1648	969	2250	-	2.6	2 1/2"	870	770	1500	348	2
HRD 1873HP	31	1873	1102	5000	-	3	2 1/2"	1180	1070	1600	453	2
HRD 2309HP	38	2309	1358	4800	0.7	4.3	2 1/2"	1180	1070	1600	456	2
HRD 2444HP	41	2444	1438	7000	1.0	5	2 1/2"	1180	1070	1600	532	2
HRD 2932HP	49	2932	1725	7000	1.0	5.6	DN60	1180	1070	1600	536	2

VOLTAGE: 400-440V/3/50-60Hz. (**) Connection back side.

REFRIGERANT: R134a between HRD33HP and HRD1873HP, R404a between HRD2309HP and HRD2932HP (*)
 Flow given at atmospheric pressure at 20°C (ISO 1217) in accordance with normes
 ISO 7183 - 8573-1 and Pneurop 6611 - Class 4-7 bar 35°C IN 25°C ambient.



Front Side

