

# Compressed Air Dryers

## HRD15 - 7200

### Performances At Real Flow

Before being fixed on the dryer, each module can be checked in real flow conditions. This test cannot be done on non modular exchangers. From simple to large multi batteries exchangers, HERTZ guarantee the performances of all dryers. The high standards of tests are approved in collaboration with experts from the thermodynamics department of the Liege University.

#### Strong

Thanks to a very strong and reliable design, our 3 in 1 exchanger is sold with a 5 years warranty

#### Lifetime

The 3 in 1 exchanger keeps freezing danger away due to precise tubes tested at 75 bars,

#### Copper Wings

Exchange capacity is provided by numerous copper fins. These little fins offer a total Exchange surface up to 10 times greater than standard ones,

#### Water Separation

Located in the coldest area of the 3 in 1 exchanger, the separator works more efficiently,

#### Electronic Drain

The 3 in 1 separator is equipped with an electronic timed drain. Due to heavy conditions, HERTZ has designed its own drain that allows simple and efficient operation in 3 in 1 exchanger.

#### Steady Dewpoint Guaranteed

Steady achievement of low dewpoint whatever the load of the machine. Moreover, whenever starting the dryer, it operates in less than 3 minutes,

#### Low Pressure Drop

Due to lower pressure drop compared with conventional machine, the 3 in 1 exchanger substantial saving in compressed air costs, Pay back your energy with the 3 in 1 exchanger.

#### Power Saving

The consumption of electrical power is reduced due to an installed energy economiser. The economiser works in precooling the entering air and up to 53% saving can be achieved, Coupled with saving on weak pressure drop, the 3 in 1 is a fantastic economical process,

#### Large Range

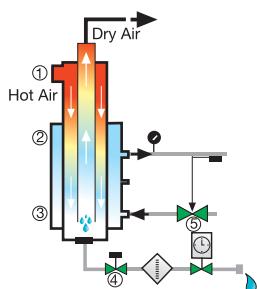
75 different model dryers, equipped with the 3 in 1 exchanger, allows you to make the proper choice for your specific needs,

#### Reduced Size

Due to its monoblock design of tubes, fit in each other, the dimension of the exchanger is really small. This reduced size is also an asset as our dryers does not take too much place in your factory. Moreover, in and out tubing connection are on same side allowing to use less tubing

#### Higher Efficiency

As described, the 3 in 1 offers a perfect solution for drying your air. Its efficiency is one of the most attractive in the market and offer to each user the highest "quality/cost" ratio



- 1 Air / air heat exchanger
- 2 Air / refrigerant exchanger
- 3 Moisture separator
- 4 Automatic condensate drain
- 5 Expansion valve controlled by refrigerant pressure at HRD 15 to HRD 360, by refrigerant temperature at HRD 430 to HRD 7200

# SPECIFICATIONS

## COMPRESSED TYPE REFRIGERATED AIR DRYERS

TYPE	FLOW (*)			CONDENSER AIR FLOW m <sup>3</sup> /h	POWER kw	FITTINGS (**) BSP	NOISE dB	PR DROP bar	DIMENSIONS (mm)						WEIGHT (with box) kg	DRAIN	
	I/min	m <sup>3</sup> /h	cfm						H	L	W	H1	W1	H2	W2		
HRD15	183	11	6.5	100	0.25	1/2"	52	0.01	460	500	360	255	180	315	105	30	1
HRD20	264	16	9.5	100	0.25	1/2"	53	0.01	460	500	360	255	180	315	105	30	1
HRD30	480	29	17	370	0.25	1/2"	52	0.02	460	500	360	255	180	315	105	35	1
HRD50	732	44	25.8	340	0.25	1/2"	53	0.03	460	500	360	255	180	315	105	35	1
HRD70	1140	68	40	370	0.28	3/4"	52	0.02	495	675	405	355	235	440	150	55	1
HRD100	1620	97	57	340	0.35	3/4"	51	0.05	495	675	405	355	235	440	150	55	1
HRD130	2220	133	78.2	410	0.58	3/4"	53	0.06	495	675	405	355	235	440	150	55	1
HRD160	2580	155	91.1	800	0.66	3/4"	58	0.08	495	675	405	355	235	440	150	60	1
HRD220	3600	216	127	980	0.8	11/4"	59	0.13	710	675	485	535	180	640	285	85	1
HRD270	4500	270	158.8	980	1.1	11/4"	63	0.16	710	675	485	535	180	640	285	95	1
HRD330	5400	324	190.5	980	1.3	11/4"	63	0.22	710	675	485	535	180	640	285	95	1

VOLTAGE: 230V - 1-50Hz - Option: T:115V - 1-60Hz (\*\*\*) Connection back face.

TYPE	FLOW (*)			CONDENSER AIR FLOW m <sup>3</sup> /h	CONDENSER AIR FLOW m <sup>3</sup> /h	POWER kw	FITTINGS (**) BSP	DIMENSIONS (mm)						WEIGHT (with box) kg	DRAIN	
	I/min	m <sup>3</sup> /h	cfm					H	L	W	H1	W1	H2	W2		
HRD430	7.2	432	254.1	980	-	1.1	1" 1/2	985	550	670	915	100	985	100	125	1
HRD500	8.4	504	296.5	980	-	1.3	2"	1235	695	745	1135	100	1235	100	135	1
HRD630	10.5	630	370.6	980	-	1.4	2"	1235	695	745	1025	370	1155	645	215	1
HRD800	13.3	800	470	2250	-	1.9	2"	1235	695	745	1025	370	1155	645	235	1

VOLTAGE: 230V - 1-50Hz - Option: T:115V - 1-60Hz (\*\*\*) Connection back face.

TYPE	FLOW (*)			CONDENSER AIR FLOW m <sup>3</sup> /h	CONDENSER AIR FLOW m <sup>3</sup> /h	POWER kw	FITTINGS (**) BSP	DIMENSIONS (mm)						WEIGHT (with box) kg	DRAIN	
	I/min	m <sup>3</sup> /h	cfm					H	L	W	H1	W1	H2	W2		
HRD950	15.6	936	550.6	2250	-	2.4	3"	1440	700	800	1135	320	1350	100	280	2*
HRD1100	18.3	1098	645.9	2250	-	2.6	3"	1440	700	800	1135	320	1350	100	280	2
HRD1300	21	1260	741.1	2250	-	2.6	3"	1440	700	800	1135	320	1350	100	325	2
HRD1500	24	1440	847	5000	-	3	3"	1535	1120	975	1235	300	1450	100	435	2
HRD1700	28.5	1710	1005.9	4800	0.7	4.3	3"	1535	1120	975	1235	300	1450	100	435	2
HRD2100	34.8	2088	1228.2	7000	1.0	5	3"	1535	1120	975	1235	300	1450	100	490	2
HRD2300	38.4	2304	1355.2	7000	1.0	5.6	3"	1535	1120	975	1235	300	1450	100	490	2
HRD2700	44.4	2664	1567	6600	1.2	6.2	4"	1820	1000	1120	955	150	1455	150	665	2
HRD3200	52.2	3132	1842.3	6000	1.6	6.9	4"	1820	1000	1120	955	150	1455	150	705	2
HRD4100	67.8	4068	2392.9	7600	2	10	4"	2000	1120	1500	950	150	1450	150	900	2
HRD4700	78	4680	2752.9	16600	4.5	12.4	DN150	2000	1120	1500	950	150	1450	150	995	2
HRD5600	93	5580	3282.3	16100	3.15	12.6	DN150	2000	1120	1840	950	150	1450	150	1490	2
HRD6300	105	6300	3705.9	16100	4.15	14.2	DN150	2000	1120	1840	950	150	1450	150	1575	2
HRD7200	120	7200	4235.3	16100	3.85	16.2	DN150	2040	1500	2160	950	150	1450	150	1770	2

Corrected flow = Requested flow x F1 x F2 x F3 [\*] : Please contact us

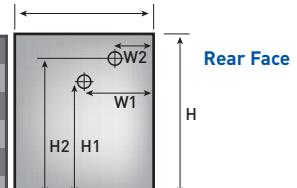
**REFRIGERANT:** R134a from HRD15 to HRD1500, R404a from HRD1700 [\*] Flow given at atmospheric pressure at 20°C (ISO 1217) in accordance with normes ISO 7183 - 8573-1 Pneurop 6611 - Class 4-7 bar -35°C IN -25°C ambient.

**FOR EXAMPLE, FOR CHOOSING THE CORRECT DRYER:** If a compressor delivers 100m<sup>3</sup>/h at 4 bars and the dryer inlet temperature is 45°C and ambient temperature is 35°C please choose your dryer as follows; 100 x 1.25 x 1.14 x 1.39 = 198 m<sup>3</sup>/h the correct dryer for this application is HRD200

Maximum Pressure:	Maximum Temperature:	Automatic Drain:
- With manual drain 40 bar	- Inlet air: 70°C	- Timed drain
- With automatic drain 16 bar	- Ambient: 60°C	- Pneumatic operated membrane valve (2)

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

HP	: Maximum pressure 40 bar	REP	: Alarm report	DC	: Condensate drain
VHP	: Maximum pressure 200 bar	E	: Water condenser	SI	: Ambient temp. until -20°C
HP	: Vacuum operated	T	: 3 phase power supply	DC	: Ambient temp. until +60°C



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