

Downstream Equipments

HRD Series

HRD10 / 20 / 30 / 40 / 50 / 60 / 70 / 80 / 90 / 100 / 110 / 120 / 130 / 140 / 150 / 160 / 170 / 180 / 190 / 200 / 210 / 220 / 230 / 240 / 250 / 260



Refrigerated Type HRD Compressed Air Dryers

- 3°C pressure dew point
- Very Low Pressure Drop
- Designed for Tropical Conditions
- Dryer easily runs at 60°C Max. Inlet Temp. and 50°C Ambient Temp. due to R134a refrigerant (all through the range) and oversized condenser.

Compact Design

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

Energy Saving Device

Digital Controller with a lot of economy features and alarm capabilities is standard for all 3Ph dryers (HRD140 and up)

Aluminum Heat Exchanger is Standard (From HRD 40)

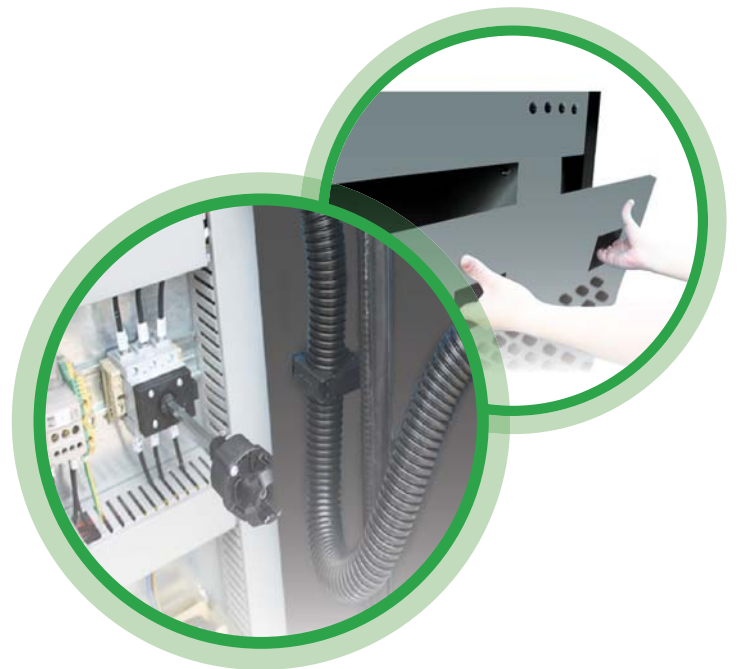
Very Low Pressure Drop (100mbar)
Very Efficient (3°C real pressure dew point)

Scroll Compressors (from HRD 120)

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.



Electrical wires are separated from Refrigerant Side

No electrical wires inside the refrigerant side of the dryer. Electrical Box has an external cover which has an access from the outside of the dryer. No need to open dryer panels to go in to electrical box.

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SPECIFICATIONS



Type	Voltage	Capacity** (m3/h)	Connection Size	Refrigerant	Maximum working pressure (bars)	Maximum ambient temperature (°C) (bars)	Maximum Inlet temperature (°C) (bars)	Filter Quantity and Type	Length (mm)	Width (mm)	Height (mm)
HRD10	230/1/50	21	1/2"	R-134a	16	50	60	1 * GO50MX + 1 * GO50MY	413	363	557
HRD20	230/1/50	35	1/2"	R-134a	16	50	60	1 * GO50MX + 1 * GO50MY	413	363	557
HRD30	230/1/50	50	1/2"	R-134a	16	50	60	1 * GO50MX + 1 * GO50MY	413	363	557
HRD40	230/1/50	87	3/4"	R-134a	16	50	60	1 * GO150MX + 1 * GO150MY	473	453	832
HRD50	230/1/50	130	3/4"	R-134a	16	50	60	1 * GO150MX + 1 * GO150MY	473	453	832
HRD60	230/1/50	170	3/4"	R-134a	16	50	60	1 * GO150MX + 1 * GO150MY	473	453	832
HRD70	230/1/50	198	1 1/2"	R-134a	16	50	60	1 * GO500MX + 1 * GO500MY	553	503	874
HRD80	230/1/50	283	1 1/2"	R-134a	16	50	60	1 * GO500MX + 1 * GO500MY	553	503	874
HRD90	230/1/50	354	1 1/2"	R-134a	16	50	60	1 * GO500MX + 1 * GO500MY	553	503	874
HRD100	230/1/50	467	2"	R-134a	16	50	60	1 * GO851MX + 1 * GO851MY	678	648	1157
HRD110	230/1/50	588	2"	R-134a	16	50	60	1 * GO1210MX + 1 * GO1210MY	678	648	1157
HRD120	230/1/50	825	2"	R-134a	16	50	60	1 * GO1210MX + 1 * GO1210MY	948	728	1370
HRD130	230/1/50	1100	2"	R-134a	16	50	60	1 * GO1210MX + 1 * GO1210MY	948	728	1370
HRD140	400/3/50	1310	3"	R-134a	16	50	60	1 * GO1820MX + 1 * GO1820MY	948	798	1460
HRD150	400/3/50	1628	3"	R-134a	16	50	60	1 * GO1820MX + 1 * GO1820MY	948	798	1460
HRD160	400/3/50	2200	3"	R-134a	16	50	60	1 * GO2700MX + 1 * GO2700MY	1163	778	1725
HRD170	400/3/50	2620	3"	R-134a	16	50	60	1 * GO2700MX + 1 * GO2700MY	1163	778	1725
HRD180	400/3/50	3144	DN100	R-134a	16	50	60	Not Included	1397	847	1770
HRD190	400/3/50	3696	DN100	R-134a	16	50	60	Not Included	1397	847	1770
HRD200	400/3/50	4800	DN100	R-134a	16	50	60	Not Included	1467	1077	1930
HRD210	400/3/50	5522	DN100	R-134a	16	50	60	Not Included	1467	1077	1930
HRD220	400/3/50	6584	DN150	R-134a	16	50	60	Not Included	2188	1062	1925
HRD230	400/3/50	7434	DN150	R-134a	16	50	60	Not Included	2188	1062	1925
HRD240	400/3/50	8496	DN150	R-134a	16	50	60	Not Included	2697	897	1975
HRD250	400/3/50	9912	DN200	R-134a	16	50	60	Not Included	2697	897	1975
HRD260	400/3/50	11800	DN200	R-134a	16	50	60	Not Included	2550	1550	2100

* HERTZ KOMPRESSOREN reserves its rights to change the specifications without any prior notice.

** Capacity is given at atmospheric pressure at 20 °C (ISO 1217) in accordance with norms ISO 7183-8573-1 and Pneurop 6611- Class 4-7 bar -35 °C IN -25 °C ambient.

CORRECTION FACTORS FOR HDR AIR DRYERS:

Inlet Temperature °C	30	35	40	45	50	60	-	-
F1	1,29	1	0,92	0,78	0,65	0,45	-	-
Ambient Temperature °C	20	25	30	35	40	50	-	-
F2	1,05	1	0,98	0,93	0,84	0,7	-	-
Pressure Bar	4	6	7	8	10	12	14	16
F3	0,80	0,94	1	1,04	1,11	1,16	1,22	1,25

Example for choosing the correct HRD air dryer model;

If a compressor delivers 200 m³ / h at 6 bars, the dryer inlet temperature is 40°C and the ambient temperature is 30°C, please choose your dryer as follows;

Dryer Capacity / 200 / 0.94 / 0.92 / 0.98 = 236 m³ / h

The correct dryer model for this application is HRD 80.

