REFRIGERATED AIR DRYERS

LRD,HRD,LHD SERIES OF PRODUCTS

REFRIGERATED AIR DRYERS

WORKING PRINCIPAL OF AIR DRYER

Warm Compressed air enters into the air to air heat exchanger , where it is precooled by outgoing cold refrigerationair. Pre -cooling makes it possible to use a smaller"more economical"refrigeration unit. Then the precooled air enters into the Freon Heat Exchanger, where it is cooled down to +3 C. At this cool temperature , moisture condenses into liquid droplets , which are removed from the air stream by a very efficient demister and automatically drained by an Automatic Drain Valve. The cold dry comppressed air passes back through the secondary side of the Air to Air Heat Exchanger, where it is re-heated by the incoming warm air. Reheating the outgoing compressed air increases temperature by heat with incoming warm air.

The dry air coming out from the air dryer is ready to use for instrumentation and process air applications.

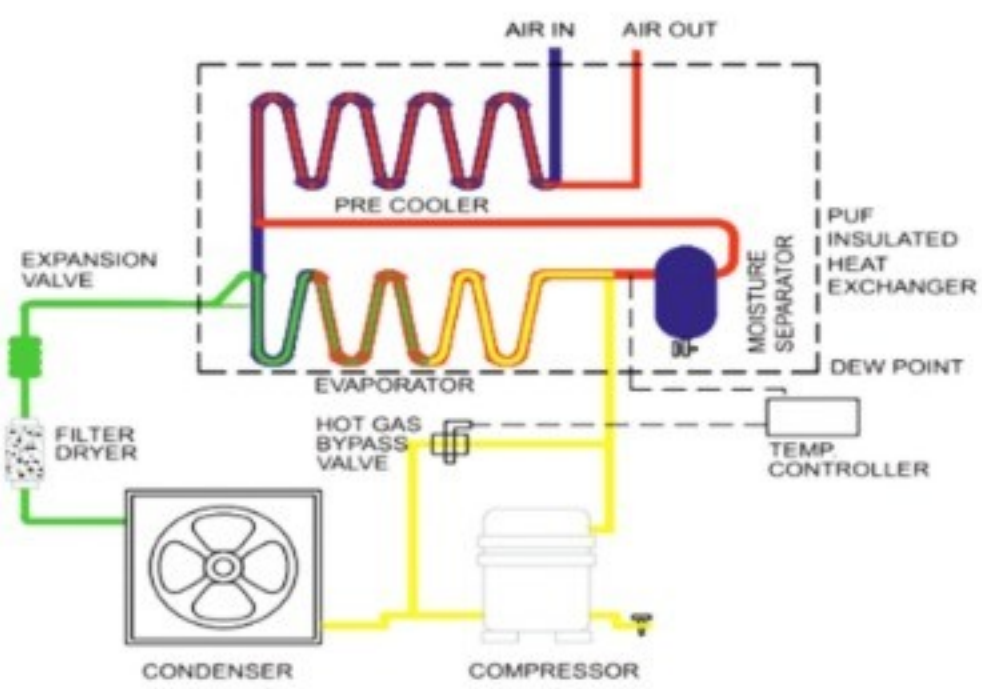
APPLICATION

- Automobile Industry
- Chemical Industry
- Electronics Industry
- Beverages Industry
- Cement Plants
- Spray Painting
- Paper Mills
- Printing & Textile Industry
- Rice and Sugar Mills
- Hospitals
- Tools Room
- Power Plan
- Pet - Blow Moulding
- CNC & CMM Machines
- General Instrumentations
- Pharmaceutical Industry and Many More....

SALIENT FEATURES

- Compact Design
- Low Pressure Drop
- Power Saving
- High Quality Finishing
- More Reliability
- Ease Of Installation
- Environment Friendly
- Reduced Maintenance
- Constant Dew Point at all varying load

SCHEMATIC DIAGRAM



TECHNICAL SPECIFICATION

REFRIGERATED AIR DRYERS (LRD SERIES)

Model	Capacity	Working Pressure kg/cm2	Connections BSP	Refrigerant	Power Supply w/ph	Condensor Type	Power Consumption kw	Overall Dimensions in mm L	B	H	Approx Weight (Kgs.)
LRD-15	15	16	1/2"	R134a	220/1	Air	0.19	500	400	605	32
LRD-25	25	16	1/2"	R134a	220/1	Air	0.19	500	400	605	33
LRD-45	45	16	1/2"	R134a	220/1	Air	0.37	500	400	605	35
LRD-60	60	16	3/4"	R134a	220/1	Air	0.37	550	520	780	60
LRD-80	80	16	3/4"	R134a	220/1	Air	0.60	550	700	780	70
LRD-100	100	16	1"	R134a	220/1	Air	0.60	750	700	975	80
LRD-125	125	16	11/2"	R134a	220/1	Air	0.60	750	700	975	85
LRD-150	150	16	11/2"	R134a	220/1	Air	1.40	750	700	975	95
LRD-200	200	16	11/2"	R134a	220/1	Air	1.40	750	700	975	100
LRD-250	250	16	11/2"	R134a/R 407c	220/1	Air	1.70	750	700	975	155
LRD-300	300	16	2"	R134a/R 407c	220/1	Air	1.70	750	700	975	160
LRD-400	400	16	2"	R 407c	440/3	Air	2.30	1000	820	1380	170
LRD-500	500	16	3"	R 407c	440/3	Air	3.10	1000	820	1380	250
LRD-600	600	16	3"	R 407c	440/3	Air	3.20	1140	920	1500	280
LRD-800	800	16	3"	R 407c	440/3	Air	4.20	1300	1100	1800	300
LRD-1000	1000	16	4"Flange	R 407c	440/3	Air/Water	5.80	1300	1100	1800	400
LRD-1250	1250	16	4"Flange	R 407c	440/3	Air/Water	6.20	1500	1500	1750	450
LRD-1500	1500	16	5"Flange	R 407c	440/3	Air/Water	7.80	1500	1700	2250	640
LRD-2000	2000	16	6"Flange	R 407c	440/3	Air/Water	9.90	1500	1700	2250	770

REFRIGERATED AIR DRYERS HIGH PRESSURE (HRD SERIES)

Model	Capacity	Working Pressure kg/cm2	Connections BSP	Refrigerant	Power Supply w/ph	Condensor Type	Power Consumption kw	Overall Dimensions in mm L	B	H	Approx Weight (Kgs.)
HRD-25	25	40	1/2"	R134a	220/1	Air	0.21	500	400	605	40
HRD-45	45	40	1/2"	R134a	220/1	Air	0.21	500	400	605	45
HRD-60	60	40	1/2"	R134a	220/1	Air	0.37	550	400	605	48
HRD-80	80	40	3/4"	R134a	220/1	Air	0.39	550	520	780	65
HRD-100	100	40	3/4"	R134a	220/1	Air	0.39	750	520	780	75
HRD-150	150	40	1"	R134a	220/1	Air	0.66	750	700	975	95
HRD-200	200	40	1½"	R134a	220/1	Air	0.66	750	700	975	100
HRD-250	250	40	1½"	R134a	220/1	Air	1.02	750	700	975	120
HRD-300	300	40	1½"	R134a/R 407c	220/1	Air	1.40	750	700	975	130
HRD-400	400	40	2"	R 407c	220/1	Air	1.40	750	700	980	135
HRD-500	500	40	2"	R 407c	440/3	Air	1.78	1000	820	1380	160
HRD-600	600	40	2"	R 407c	440/3	Air	1.90	1000	820	1380	160
HRD-800	800	40	3"	R 407c	440/3	Air	4.20	1500	1500	1750	250
HRD-1000	1000	40	4"Flange	R 407c	440/3	Air/Water	5.80	1500	1500	1750	400
HRD-1250	1250	40	4"Flange	R 407c	440/3	Air/Water	6.20	1500	1500	1750	450
HRD-1500	1500	40	5"Flange	R 407c	440/3	Air/Water	7.80	1500	1700	2250	640

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