



Anashwara[®]

Refrigeration & Electrical



Total Solution of Refrigeration...

REFRIGERATED AIR DRYERS

Warm Compressed air enters into the air to air heat exchanger, where it is precooled by outgoing cold refrigeration air. Pre-cooling makes it possible to use a smaller "more economical" refrigeration unit. Then the pre-cooled 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 compressed 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.

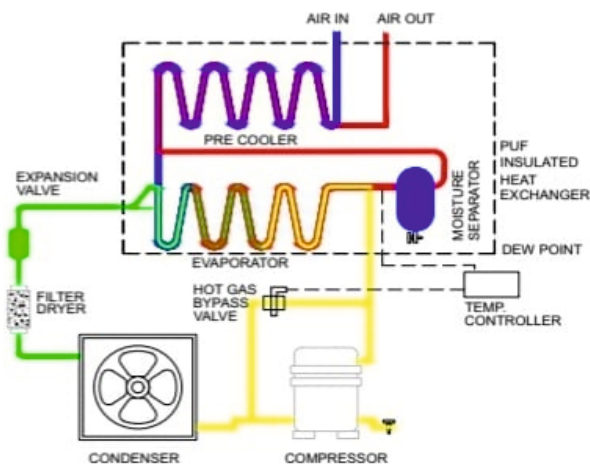
APPLICATION

- + 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 LOW PRESSURE (AADL SERIES)

Model	Capacity	Working pressure kg/cm ²	Connections BSP	Refrigerant	Power Supply w/ph	Condenser Type	Power Consumption kw	Overall Dimensions in mm			Approx Weight (kgs.)
								L	B	H	
AADL-15	15	16	1/2"	R134a	220/1	Air	0.19	500	400	605	32
AADL-25	25	16	1/2"	R134a	220/1	Air	0.19	500	400	605	33
AADL-45	45	16	1/2"	R134a	220/1	Air	0.37	500	400	605	35
AADL-60	60	16	3/4"	R134a	220/1	Air	0.37	550	520	780	60
AADL-80	80	16	3/4"	R134a	220/1	Air	0.60	550	700	780	70
AADL-100	100	16	1"	R134a	220/1	Air	0.60	750	700	975	80
AADL-125	125	16	1 1/2"	R134a	220/1	Air	0.60	750	700	975	85
AADL-150	150	16	1 1/2"	R134a	220/1	Air	1.40	750	700	975	95
AADL-200	200	16	1 1/2"	R134a	220/1	Air	1.40	750	700	975	100
AADL-250	250	16	1 1/2"	R134a/R407c	220/1	Air	1.70	750	700	975	155
AADL-300	300	16	2"	R134a/R407c	220/1	Air	1.70	750	700	975	160
AADL-400	400	16	2"	R 407c	440/3	Air	2.30	1000	820	1380	170
AADL-500	500	16	3"	R 407c	440/3	Air	3.10	1000	820	1380	250
AADL-600	600	16	3"	R 407c	440/3	Air	3.20	1140	920	1500	280
AADL-800	800	16	3"	R 407c	440/3	Air	4.20	1300	1100	1800	300
AADL-1000	1000	16	4" Flange	R 407c	440/3	Air/Water	5.80	1300	1100	1800	400
AADL-1250	1250	16	4" Flange	R 407c	440/3	Air/Water	6.20	1500	1500	1750	450
AADL-1500	1500	16	5" Flange	R 407c	440/3	Air/Water	7.80	1500	1700	2250	640
AADL-2000	2000	16	6" Flange	R 407c	440/3	Air/Water	9.90	1500	1700	2250	770

REFRIGERATED AIR DRYERS HIGH PRESSURE (AADH SERIES)

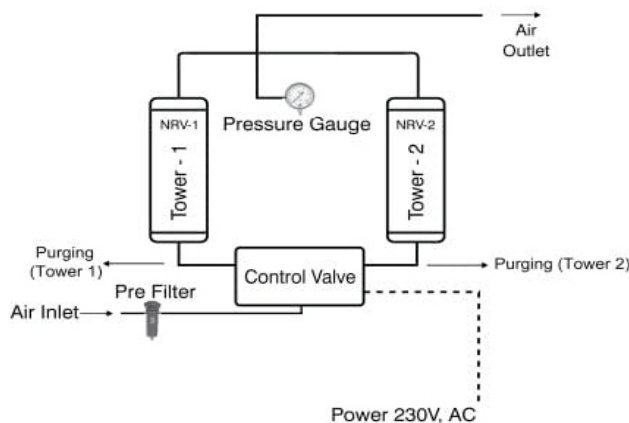
Model	Capacity	Working pressure kg/cm ²	Connections BSP	Refrigerant	Power Supply w/ph	Condenser Type	Power Consumption kw	Overall Dimensions in mm			Approx Weight (kgs.)
								L	B	H	
AADH-25	25	40	1/2"	R134a	220/1	Air	0.21	500	400	605	40
AADH-45	45	40	1/2"	R134a	220/1	Air	0.21	500	400	605	45
AADH-60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

DESICCANT AIR DRYERS

Air Dryer often referred as pressure swing adsorption dryer, The compressed air is passed through a Coalescing type Pre filter. Here dust particles, water and oil coalesce and removed from the stream. Then the air is passed through a pressure vessel with two "towers" filled with a media such as activated alumina, molecular sieve or other Desiccant material. This desiccant material attracts the water from the compressed air via adsorption. As the water clings to the desiccant, the desiccant "bed" becomes saturated. The dryer is timed to switch towers based on a standard cycle, once this cycle completes some compressed air from the system is used to "purge" The duty of the desiccant is to bring the pressure dew point of the compressed air to a level in which the water will no longer condense. A standard dew point that is expected by a Heatless Air Dryer is -40°C (-40°F), required dew point is dependent on application and -70°C required in some applications.



SCHEMATIC DIAGRAM



TECHNICAL SPECIFICATION

Desiccant air dryers (AHDL SERIES)

Model	Capacity	Working Pressure kg/cm ²	Connections BSP	Power Supply w/ph	Overall Dimensions in mm			Approx Weight (Kgs.)
					H	L	D	
AHDL-05	05	12	1/2"	220/1	570	240	100	12
AHDL-10	10	12	1/2"	220/1	670	240	100	15
AHDL-20	20	12	1/2"	220/1	990	240	100	20
AHDL-30	30	12	1/2"	220/1	900	350	350	30
AHDL-40	40	12	1/2"	220/1	1100	350	350	35
AHDL-70	70	12	3/4"	220/1	1530	590	590	100
AHDL-100	100	12	1"	220/1	1650	800	800	130

AUTOMATIC DRAIN VALVE

Auto drain valves are used to remove accumulated water particles from the air line equipments. Anashwara has developed different varieties of auto drain valves with respect to the application and ease of operation. ★ Dual timer, solenoid operated ★ Single timer, solenoid operated ★ Zero air loss/ float type ★ High pressure (40 Bar) Drain valve ★ High discharge, pilot air operated.

AIR FILTER

YF series is the latest filters designed by Anashwara with a capability of withstanding air temperature upto 90°C . It can remove dust, moisture, rust scales & oil particles from compressed air. ★ Flow Ranges from 15CFM to 2500 CFM ★ $1\ \mu$ $5\ \mu$ $0.01\ \mu$ activated Carbon filters ★ Borosilicate Fiber glass filtration media ★ Coalescing elements covered with hydrophobic material Aluminum die cast body upto 350 CFM ★ MS Construction with multiple element for higher flow capacities ★ Models are available for 16 bar & 45 Bar range ★ Auto drains & DP gauges are optional.

SIZING CONVERSION FACTORS

OPERATION CONDITION	IDEAL	MAXIMUM
INLET TEMPERATURE	45°C	60°C
AMBIENT TEMPERATURE	40°C	50°C
INLET PRESSURE	07 bar g	16 bar g

Dryer Nominal Capacity = Compressor Actual Capacity $F1 \times F2 \times F3$

INLET TEMPERATURE (F1)

INLET TEMPERATURE ($^{\circ}\text{C}$)	35	40	45	50	55	60
CORRECTION FACTOR (F1)	1.35	1.14	1.00	0.88	0.79	0.71

AMBIENT TEMPERATURE (F2)

AMBIENT TEMPERATURE ($^{\circ}\text{C}$)	25	30	35	40	45	50
CORRECTION FACTOR (F2)	1.18	1.10	1.09	1.00	0.91	0.83

INLET PRESSURE (F3)

INLET PRESSURE (BAR)	04	05	06	07	08	10	12	16
CORRECTION FACTOR (F3)	0.82	0.89	0.95	1.00	1.04	1.08	1.12	1.19

OUR OTHER PRODUCTS OF DEALING & SERVICE PROVIDE



Chilling Plants
(Water, Oil & Air)



Auto Drain Valves
(Electronics)



Heatless Dryer
(Desiccant Dryer)



Climate
Chambers



Air Recivers



After Coolers
(Air Cooled)



Pre-Filters
& After Filters



No Lose Drain Valves
(Mechanical)



Anashwara[®]
Refrigeration & Electrical

Mfg., Sales & Service of Refrigerated Air Dryers, Desiccant Air Dryers, Water Chilling Plants, Air Chillers, Oil Chillers, Heat Exchangers, Water Cooled Condensers, Package ACs, Panel ACs, Refrigerators, Environmental Chambers (Climate Chamber)

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