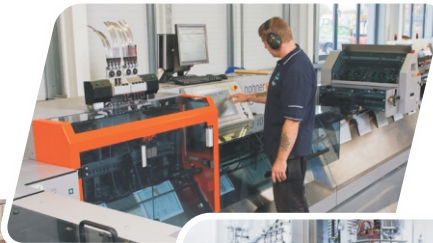


ANNAIR®

Refrigerated Air Dryer



A  Thalakov group enterprise

WORKING PRINCIPLE :

Saturated compressed air enters to the Air to Air heat exchanger, where it is pre cooled by out going cold dry air. Highly effective pre cooler reduces the temperature considerably, and enables to use smaller & economical refrigeration system. Then the pre cooled, relatively low temperature compressed air enters to Air to Refrigerant heat exchanger, where it is cooled down to +3°C (Pressure Dew point). At this temperature, moisture in vapour form condensed to liquid form, and separated from the compressed air by moisture separator and discharged to drain port through automatic drain valve. The cold dry compressed air passes back to Air to Air Heat exchanger, and gain temperature by exchanging heat with incoming warm air. The dry air coming out from the dryer is ready to use for instrumentation and process air applications.

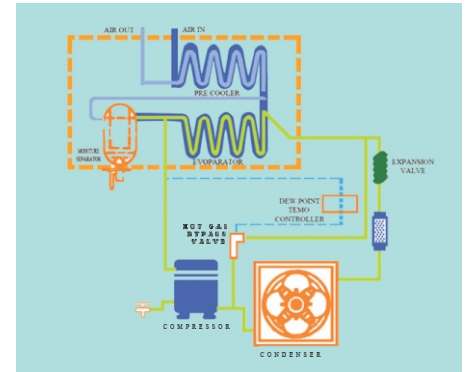
APPLICATIONS:

• Automobile • Breweries & Distilleries • Cement • CNC Machining • CMM Machines • Chemical • Food Processing • Foundry • General Instrumentation
• Hospital • Packaging • Paper • Painting • Pharmaceutical • Power • Plants • Printing • Rice Mill • Sugar • Textiles • Tool room etc.....

TECHNICAL DATA (Silver Star Series)

Model	Capacity	Woking Pressure kg/cm ²	Connections BSP	Refrigerant	Power Supply v/ph	Condensator type	Nominal Power Consumption kw	Overall Dimensions In mm			Approx. Weight (Kgs.)
	CFM							L	B	H	
ASSR-15	15	16	1/2"	R 134a	230/1	Air	0.19	400	500	620	40
ASSR-25	25	16	1/2"	R 134a	230/1	Air	0.19	400	550	620	42
ASSR-45	45	16	1/2"	R 134a	230/1	Air	0.37	400	550	620	48
ASSR-60	60	16	1"	R 134a	230/1	Air	0.37	530	550	800	62
ASSR-80	80	16	1"	R 134a	230/1	Air	0.78	530	550	800	76
ASSR-100	100	16	1 1/2"	R 134a	230/1	Air	0.78	750	700	990	110
ASSR-125	125	16	1 1/2"	R 134a	230/1	Air	0.78	750	700	990	117
ASSR-150	150	16	1 1/2"	R 134a	230/1	Air	1.15	750	700	990	125
ASSR-200	200	16	1 1/2"	R 134a	230/1	Air	1.15	750	700	990	132
ASSR-250	250	16	2"	R 22/R 407c	230/1	Air	2.30/2.35	750	700	990	145
ASSR-300	300	16	2"	R 22/R 407c	230/1	Air	2.80/2.35	750	700	990	158

Schematic Diagram



SALIENT FEATURES :

- CFC free, eco-friendly refrigerant
- Constant dew point at all varying load
- Two stage effective moisture separation
- Lower power consumption
- Built with necessary protectors for electrical & refrigeration systems.
- Most modern refrigerant system components and pressure switches.
- Automatic, maintenance free and user friendly
- Compact design, requires less floor space



TECHNICAL DATA (Gold Star Series)

Model	Capacity	Woking Pressure kg/cm ²	Connections BSP	Refrigerant	Power Supply v/ph	Condensator type	Nominal Power Consumption kw	Overall Dimensions In mm			Approx. Weight (Kgs.)
	CFM							L	B	H	
AGSR-400	400	16	2"	R 22/R 407c	440/3/50	Air	2.10	1200	1200	1500	165
AGSR-500	500	16	2"	R 22/R 407c	440/3/50	Air	2.30	1200	1200	1500	185
AGSR-600	600	16	3"	R 22/R 407c	440/3/50	Air	3.30	1200	1200	1500	210
AGSR-800	800	16	3"	R 22/R 407c	440/3/50	Air	4.20	1500	1500	1750	350
AGSR-1000	1000	16	4"	R 22/R 407c	440/3/50	Air	5.80	1500	1500	1750	400
AGSR-1250	1250	16	4"	R 22/R 407c	440/3/50	Air/Water	6.20	1500	1500	1750	450
AGSR-1500	1500	16	5"	R404a/R 407c	440/3/50	Air/Water	7.80	1500	1700	2250	575
AGSR-2000	2000	16	6"	R404a/R 134a	440/3/50	Air/Water	9.90	1500/1750	1700	2250	650

Data refer to the following nominal condition : Ambient temperature of 40°C, with inlet air at 7 barg and 45° C and 3°C Pressure dew point (-22°C atmospheric pressure dew point)

CORRECTION FACTOR

INLET PRESSURE (bar)	4	5	6	7	8	10	12	16
CORRECTION FACTOR (K ₁)	0.82	0.89	0.95	1.00	1.05	1.09	1.13	1.18
AMBIENT TEMPERATURE (°C)	25	30	35	40	45	50		
CORRECTION FACTOR (K ₂)	1.19	1.11	1.09	1.00	0.91	0.83		
INLET TEMPERATURE (°C)	35	40	45	50	55	60		
CORRECTION FACTOR (K ₃)	1.34	1.15	1.00	0.88	0.79	0.71		

OTHER RANGE OF PRODUCTS



The data in this brochures are not binding, due to continues product improvement ANNAIR reserves the right to make changes without prior notice. For further information, contact factory

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