



## Compressed Air Dryer - High Pressure



## Working Principle

Saturated compressed air enters to 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 instrument and process air applications.

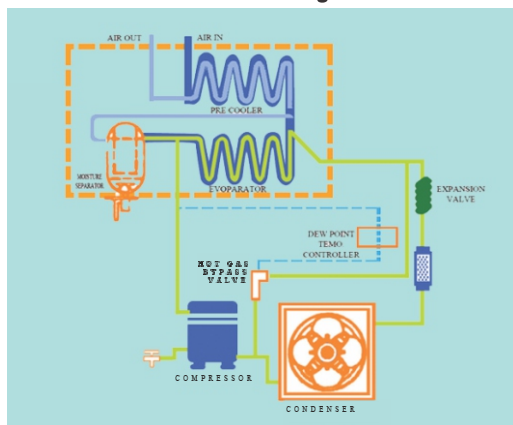
## Technical Data (Platinum Star Series)

Model No.	Capacity CFM	Working Pressure Kg/cm <sup>2</sup>	Connections BSP (F)	Refrigerant	Power Supply V/Ph	Condensor Type	Nominal Power Consumption (Kw)	Dimensions (mm)			Approx. Weight (Kgs)
								Length L	Depth D	Height H	
APSR 25	25	40	½"	R 134a	220 /1	Air	0.21	400	550	580	40
APSR 45	45	40	½"	R 134a	220 /1	Air	0.21	400	550	580	42
APSR 60	60	40	½"	R 134a	220 /1	Air	0.39	400	550	580	46
APSR 80	80	40	1"	R 134a	220 /1	Air	0.39	500	550	700	65
APSR 100	100	40	1"	R 134a	220 /1	Air	0.66	500	550	700	70
APSR 150	150	40	1 ½"	R 134a	220 /1	Air	0.66	650	700	1000	90
APSR 200	200	40	1 ½"	R 134a	220 /1	Air	1.02	650	700	1000	100
APSR 250	250	40	1 ½"	R 134a	220 /1	Air	1.40	650	700	1000	110
APSR 300	300	40	1 ½"	R22/R407C	220 /1	Air	1.40	750	900	1150	130
APSR 400	400	40	1 ½"	R22/R407C	220 /1	Air	1.40	750	900	1150	130
APSR 500	500	40	1 ½"	R22/R407C	220 /1	Air	1.78	750	900	1150	160

## Correction Factor

Inlet pressure (kg/cm <sup>2</sup> )	20	25	30	35	40	
Correction factor (K1)	0.87	0.94	1	1.05	1.09	
Ambient temperature (°C)	25	30	35	40	45	50
Correction factor (K2)	1.20	1.10	1.05	1.00	0.9	0.95
Inlet temperature (°C)	30	35	40	45	50	55
Correction factor (K3)	1.20	1.15	1.07	1.00	0.88	0.75

## Schematic Diagram



## Salient Features:

- CFE free, Eco-friendly refrigerant
- Two stage effective moisture separation
- Lower power consumption
- Built with necessary protectors for electrical & refrigerant system
- Most modern refrigerant system components and pressure switches
- Compact design, requires less floor space
- Working pressure upto 40 kg/cm<sup>2</sup>



## 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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