

AR PREMIUM SERIES

Energy Saving Cycling
Refrigerated Air Dryer
100– 5000 CFM

ELGI[®]
Always Better.

CONSERVING ENERGY WITH A RELIABLE PRESSURE DEW POINT

When compressed air cools down following a compression process, water vapor precipitates as condensate. This condensate must be removed from the compressed air system to prevent damage to downstream equipment.

ELGI's Energy Saving Cycling Refrigerated Air Dryer eliminates the moisture and hence is an ideal accessory that can be used for a wide range of applications. It comes with an industry-leading warranty.



FEATURES AND BENEFITS

High Energy Efficiency

The hermetically sealed refrigeration compressor in the dryer is highly energy efficient. Its strong structure contributes to lower vibration levels and low noise levels.

Automatic Condensate Drain

The Condensate Drain provides an efficient solution for condensate removal. This mechanical level-sensing drain removes condensate from the system with no air loss and minimal maintenance.

Smart Controller

The controller displays the pressure dew point temperature (°C or °F) and indicates if the dryer is running in energy saving mode (ECO). The display also shows the total operation hours, fan operation, inlet air temperature, ambient temperature, and the periodic maintenance interval.

Integrated Filters*

The integrated filters improve performance with less pressure drop and help reduce additional piping before and after the dryer for external filters. The coalescing type inlet pre-filter will filter dust particles up to 1 micron and oil down to 0.1 ppm. The coalescing type outlet fine filter will filter dust particles down to 0.1 micron and oil down to 0.01 ppm.

(* for sizes up to AR 3440P)

Heat Exchanger

The aluminium plate type heat exchanger maximizes thermal exchange efficiency due to its high heat transfer surface area and fins. Cross flow between hot glycol and cold refrigerant is ensured by a stainless steel plate, copper brazing type heat exchanger, which maximises thermal exchange efficiency and has a longer life.

TECHNICAL SPECIFICATIONS

Model	Inlet Flow Capacity	Air pressure drop	Max. Inlet pressure	Inlet/Outlet Size	Dimensions			Gross weight
	cfm	psi	psi	NPT	Length (in)	Width (in)	Height (in)	lbs
AR 0100P	100	1.45	230	1 1/2"	25.5	26.7	50.3	196
AR 0125P	125	1.96	230	1 1/2"	25.5	26.7	50.3	209
AR 0140P	140	2.47	230	1 1/2"	25.5	26.7	50.3	221
AR 0175P	175	1.45	230	2"	32.6	33.7	59.3	392
AR 0200P	200	1.67	230	2"	32.6	33.7	59.3	406
AR 0250P	250	1.6	230	2"	28.7	32.6	69.4	428
AR 0350P	350	2.32	230	2"	28.7	32.6	69.4	534
AR 0425P	425	2.54	230	2"	28.7	32.6	69.4	558
AR 0550P	550	1.74	230	3"	31.4	45.2	68.5	650
AR 0700P	700	2.18	230	3"	31.4	45.2	68.5	683
AR 0900P	900	1.52	230	3"	34.6	51.7	70.4	906
AR 1100P	1100	1.96	230	3"	34.6	51.7	70.4	977
AR 1350P	1350	1.74	230	4"	39.1	62.1	77.8	1184
AR 1500P	1500	1.89	230	4"	39.1	62.1	77.8	1228
AR 2000P	2000	2.68	230	4"	42.4	70.7	81.7	1625
AR 2350P	2350	2.83	230	4"	42.4	70.7	81.7	1676
AR 2750P	2750	2.47	230	6"	41.8	90.5	79.6	2075
AR 3000P	3000	2.47	230	6"	41.8	90.5	79.6	2123
AR 3600P	3600	2.47	230	6"	60.9	88.5	83.2	2260
AR 4000P	4000	2.47	230	8"	60.9	88.5	83.2	2562
AR 5000P	5000	2.47	230	8"	60.9	100.3	85.5	3263

Note

- All models are standard with R-134a refrigerant
- Reference condition for inlet flow capacity: Ambient Temperature: 100°F, Inlet Compressed Air Temperature: 100°F, Inlet Pressure: 100 psig.
- All data mentioned above is measured for air cooled versions according to ISO 7183, with standard voltages, at 38°F pressure dew point.
- Standard scope of supply includes mechanical level sensing drains.
- Air cooled variant available from AR 0100P to AR 5000P & Water cooled variant from AR 0550P to AR 3000P
- Some models also available with alternative voltages.
- Integrated filters are standard for capacity of 100 to 2350 cfm.
- The above indicated pressure drop is including the integrated filters for applicable models.
- For warranty registration and details contact ELGi representative.
- Due to continuous engineering improvements, the specifications are subject to change without prior notice.

SCHEMATIC DIAGRAM

