

20 years of
EXCELLENCE



HEATLESS AIR DRYER



IMPORTANCE OF HEATLESS AIR DRYER

A heatless air dryer is a critical component in process and instrumentation applications where ultra-dry air is required. It prevents corrosion, protects sensitive instruments, ensures compliance with industry standards, and enhances efficiency. With its simple and reliable operation, it remains one of the most cost-effective and widely used air drying solutions in industrial applications.

- **Achieves Ultra-Dry Air:**
Provides dew points as low as -40°C to -70°C , essential for pharmaceuticals, food, electronics, Hospital, Marine and petrochemicals.
- **Protects Equipment & Pneumatics:**
Prevents corrosion, blockages, and instrument failure in control valves, actuators, and pipelines.
- **Prevents Freezing:**
Ensures uninterrupted operation in cold environments by eliminating moisture-related ice formation.
- **Ensures Compliance:**
Meets strict ISO 8573-1, FDA, GMP, and NFPA 99 standards for air purity.
- **Reliable & Low Maintenance:**
No external heat required, continuous operation, and minimal moving parts for cost-effective drying.

WORKING PRINCIPLE

A Heatless Air Dryer, or Pressure Swing Adsorption (PSA) Dryer, removes moisture from compressed air using a twin-tower desiccant system filled with materials like activated alumina. Compressed air first passes through a pre-filter to eliminate contaminants before entering the desiccant bed, where moisture is adsorbed. Once the desiccant becomes saturated, as determined by a preset timer, the system switches towers, and a portion of dried air purges the used desiccant for regeneration. The dry air then passes through a post-filter to remove dust particles. This process maintains a low-pressure dew point, typically -40°C (-40°F), meeting ISO 8573.1 Class 3 air quality standards, preventing condensation, and ensuring a steady supply of dry air for industrial use.

APPLICATIONS OF HEATLESS AIR DRYER

Automotive & Aerospace	Chemical & Petrochemical	Electronics & Semiconductor
Manufacturing & Automation	Oil & Gas	Pharmaceutical & Hospital
Power Plants	Railways & Transportation	Textile Industry





COMPACT HEATLESS AIR DRYER SILVERLINE

SPECIFICATIONS

- Working Pressure Range: 4 to 12 Bar
- Working Temperature Range: 5°C to 45°C
- Pre filter (Coalescing type): 0.1 Micron
- Post Filter (in built - 2 Nos): 20 Micron
- Purge Loss: 10 to 12 %
- Atmospheric Dew point: -40°C
- Desiccant: Activated Alumina Balls
- Voltage Range: 230 V /1Ph / 50 Hz

FEATURES

- Simple & trouble free valve design
- Compact, lightweight, can be wall mounted
- Easy and flexible installation
- Low power Consumption
- Non Corrosive Metallic Tubing
- Automatic and maintenance free operation
- Air Quality as per ISO 8573 - 1.
Table 3. Class 3/ Class 2

TECHNICAL DATA (Silverline)

Model	Capacity CFM	Working Pressure kg/cm ²	Connection Size BSP	Power Supply v/ph/Hz	Overall Dimensions in mm			Approx. Weight (kgs.)
					L	B	H	
ASLH-10	10	12	1/2"	230/1/50	285	120	765	16
ASLH-20	20	12	1/2"	230/1/50	285	120	965	20
ASLH-30	30	12	1/2"	230/1/50	380	145	910	31
ASLH-40	40	12	1/2"	230/1/50	380	145	1100	35
ASLH-60	60	16	3/4"	230/1/50	620	300	1750	90



HEATLESS AIR DRYER GOLDLINE

SPECIFICATIONS

- Working Pressure Range: 4 to 16 Bar
- Working Temperature Range: 5°C to 45°C
- Pre filter (Coalescing type): 0.1 Micron
- Post Filter (Coalescing type): 5 Micron
- Purge Loss: 12 to 14 %
- Atmospheric Dew point: -40°C /--70°C
- Desiccant: Activated Alumina Balls/
Molecular sieve
- Voltage Range: 230 V /1Ph / 50 Hz

FEATURES

- Simple & trouble free valve design
- Skid mounted design
- LED Display
- Low power Consumption
- MS powder coated towers
- Automatic and maintenance free operation
- Air Quality as per ISO 8573 - 1.
Table 3. Class 3/ Class 2

TECHNICAL DATA (Goldline)

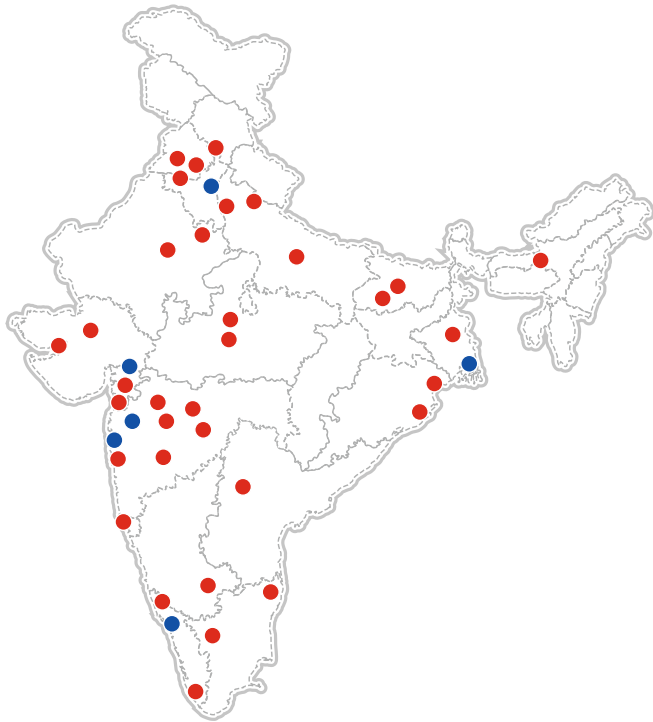
Model	Capacity CFM	Working Pressure kg/cm ²	Connection Size BSP	Power Supply v/ph/Hz	Overall Dimensions in mm		
					L	B	H
AGLH-100	100	16	1"	230/1/50	835	700	1780
AGLH-150	150	16	1"	230/1/50	1180	900	1900
AGLH-200	200	16	1 1/2"	230/1/50	1180	900	1900
AGLH-250	250	16	2"	230/1/50	1234	900	2220
AGLH-300	300	16	2"	230/1/50	1260	700	1950
AGLH-400	400	16	3"	230/1/50	1400	900	2400
AGLH-500	500	16	3"	230/1/50	1400	900	2400

ABOUT US

Annair Drychill Tech (India) Pvt. Ltd., based in Mumbai, is a leading manufacturer and exporter of compressed air treatment, industrial cooling, and dehumidification equipment. A part of the 'Thalakott' Group since 2005, the company has over 12,000 installations worldwide, serving industries across South Asia, the Middle East, Africa, Europe, and South America. Committed to innovation and quality, Annair delivers advanced, globally compliant products tailored to diverse industrial needs.



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Annair Drychill Tech India Pvt. Ltd.

(An ISO 9001:2015 Certified Co.)

Unit No. 101, I Wing, Plot - K1, Udyog Bhavan-2, Additional M.I.D.C., Anandnagar Ambernath (East), Thane- 421506, Maharashtra, India.

T : +91 251 - 2620660 • +91 9320950116

E : sales@annair.co.in • admin@annair.co.in

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