



Blower Zero Loss Adsorption Dryer

Regeneration gas volume: $\leq 0\%$

Working pressure: 0.6~1.0Mpa

Intake oil content: $\leq 0.1\text{mg/m}^3$

Pressure dew point: -40°C

Standard working cycle: 8~16 hours

Intake temperature: $0^{\circ}\text{C}\sim 45^{\circ}\text{C}$

» Features

- Zero gas consumption during regeneration.
- A large tower body design ensures optimal airflow and adequate contact time.
- High-performance adsorbents provide stable performance and an extended service life.
- High-temperature-resistant double eccentric butterfly valve.
- High-temperature protection combined with a low-density heater.
- A high-quality blower that is both stable and reliable.
- Dew point measurement controlled by PLC.
- Temperature control for regeneration heating and cold blowing, ensuring effective desorption of the adsorbent.

Working Principle

- **Adsorption Drying Process:**

Compressed air containing moisture flows through the adsorption tower, which is equipped with high-performance adsorbents. The moisture is absorbed and dried by the adsorbents before being directed to the gas terminal for usage.

- **Regenerative Heating Process:**

This series of dryers utilizes a high-pressure blower to introduce ambient air as regeneration airflow into the heater's heating cylinder. The air flows through the adsorbent that requires desorption. Leveraging high temperatures, water is effectively removed from the adsorption cylinder and released into the atmosphere.

- **Regeneration Cold Blowing Process:**

An internal small cycle, comprising the cooler, blower, and tower body, is employed to cold blow the adsorbent needing desorption. This process maintains an absence of excess environmental moisture, thereby ensuring the pressure dew point of the product gas remains optimal after switching the tower body.

Technical Parameters:

型号 Model		AT300-8	AT300-10	AT300-13	AT600-8	AT600-10	AT600-13	AT1000-8	AT1000-10	AT1000-13
容积 Volume (L)		300	300	300	600	600	600	1000	1000	1000
排气压力 Working pressure (MPa)		0.8	1.0	1.3	0.8	1.0	1.3	0.8	1.0	1.3
外形尺寸 External dimensions	高度 Height (mm)	1602	1602	1602	1905	1905	1905	2180	2180	2180
	内径 Inner diameter (mm)	550	550	550	700	700	700	800	800	800
	厚度 Thickness (mm)	3.0	3.5	5.0	3.5	4.0	5.0	4.0	4.5	5.0
进气口 Inlet connection	尺寸 Size (mm)	DN25	DN25	DN25	DN40	DN40	DN40	DN40	DN40	DN40
	高度 Height (mm)	636	636	636	672	672	672	720	720	720
出气口 Outlet connection	尺寸 Size (mm)	DN25	DN25	DN25	DN40	DN40	DN40	DN40	DN40	DN40
	高度 Height (mm)	1166	1166	1166	1442	1442	1442	1720	1720	1720
机组重量 Weight (kg)		75	81	110	120	140	160	165	212	230

型号 Model		AT2000-8	AT2000-10	AT2000-13	AT3000-8	AT3000-10	AT3000-13	AT5000-8	AT5000-10	AT5000-13
容积 Volume (L)		2000	2000	2000	3000	3000	3000	5000	5000	5000
排气压力 Working pressure (MPa)		0.8	1.0	1.3	0.8	1.0	1.3	0.8	1.0	1.3
外形尺寸 External dimensions	高度 Height (mm)	2860	2860	2860	3020	3020	3020	3000	3000	3000
	内径 Inner diameter (mm)	1000	1000	1000	1300	1300	1300	1600	1600	1600
	厚度 Thickness (mm)	5.0	6.0	7.0	5.0	6.0	8.0	6.0	7.0	8.0
进气口 Inlet connection	尺寸 Size (mm)	DN50	DN50	DN50	DN80	DN80	DN80	DN100	DN100	DN100
	高度 Height (mm)	849	849	849	760	760	760	936	936	936
出气口 Outlet connection	尺寸 Size (mm)	DN50	DN50	DN50	DN80	DN80	DN80	DN100	DN100	DN100
	高度 Height (mm)	1949	1949	1949	2080	2080	2080	2236	2236	2236
机组重量 Weight (kg)		370	390	465	510	703	850	890	1005	1121