



Heatless Adsorption Dryer

Product Name: Micro-heat Adsorption Dryer, Air dryer for air compressor

Dew point: -20°C~40°C

Gas consumption: ≤7%

Working pressure: 5bar~10bar

Intake temperature: 2°C~38°C (MAX.40°C)

Ambient temperature: ≤40°C

Imported oil content: ≤0.1PPM

Adsorption cycle: 1H~6H

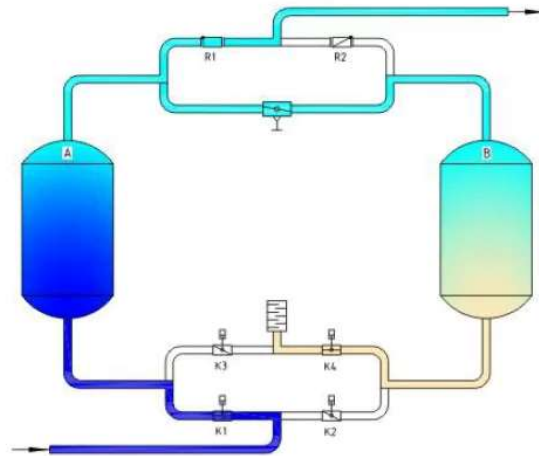
Adsorbent: activated alumina

Control mode: local control

OPERATING PRINCIPLE

The micro-heat regenerative adsorption dryer builds upon the principles of a heatless adsorption dryer by incorporating a heating element. This addition raises the temperature of the regeneration airflow, thereby enhancing its capacity to carry water vapor. Simultaneously, it elevates the temperature of the adsorbent, improving its surface activity and facilitating more efficient regeneration. By addressing these two aspects, this system not only enhances the regeneration process but also reduces the consumption of regeneration air, ultimately achieving greater savings in both compressed air and energy.

FLOW CHART



PRODUCT ADVANTAGES

1. The selected high-efficiency, wear-resistant adsorbent features a substantial specific surface area and robust adsorption capacity. Its excellent wear resistance ensures a stable dew point and minimizes the risk of pulverization over extended use.
2. The design includes a standard frame equipped with prefabricated forklift holes and lifting rings, facilitating efficient handling and lifting operations.
3. A high-performance butterfly valve with a stainless-steel valve plate, paired with a high-efficiency pneumatic actuator, guarantees an extended service life.
4. The system incorporates PLC-controlled text displays and sensor monitoring, allowing for equipment operation visualization that is both stable and reliable.
5. Remote monitoring capabilities and dry contact control are integrated for enhanced operational oversight.
6. A stainless-steel air distributor is utilized to ensure uniform air distribution, providing both reliability and durability.

TECHNICAL PARAMETER

Model	Nominal volume flow (Nm ³ /min)	Power	Rated power(kW)	Pipe diameter of air joint	Extenal dimensions (L*W*H)(mm)
SLT-1.5HL	1.5	220V/1PH/50HZ	0.2	G3/4"	680*400*1400
SLT-2.5HL	2.5	220V/1PH/50HZ	0.2	G3/4"	800*400*1700
SLT-3.8HL	3.8	220V/1PH/50HZ	0.2	G1"	860*500*1750
SLT-6.8HL	6.8	220V/1PH/50HZ	0.2	G1 1/2"	990*550*1830
SLT-8.5HL	8.5	220V/1PH/50HZ	0.2	G2"	1080*600*1600
SLT-12HL	12	220V/1PH/50HZ	0.2	G2"	1080*600*1880
SLT-16HL	16	220V/1PH/50HZ	0.2	G2"	1200*650*2000
SLT-22HL	22	220V/1PH/50HZ	0.2	DN65	1350*680*2100
SLT-27HL	27	220V/1PH/50HZ	0.2	DN80	1450*700*2400
SLT-32HL	32	220V/1PH/50HZ	0.2	DN80	1550*750*2400
SLT-38HL	38	220V/1PH/50HZ	0.2	DN100	1700*800*2400
SLT-45HL	45	220V/1PH/50HZ	0.2	DN100	1800*800*2500
SLT-55HL	55	220V/1PH/50HZ	0.2	DN125	1900*850*2550
SLT-65HL	65	220V/1PH/50HZ	0.2	DN125	2100*900*2650
SLT-85HL	85	220V/1PH/50HZ	0.2	DN125	2300*1000*2800
SLT-110HL	110	220V/1PH/50HZ	0.2	DN150	2400*1100*2900
SLT-135HL	135	220V/1PH/50HZ	0.2	DN150	2550*1200*3000
SLT-160HL	160	220V/1PH/50HZ	0.2	DN200	2650*1350*3050
SLT-200HL	200	220V/1PH/50HZ	0.2	DN200	2800*1450*3050
SLT-250HL	250	220V/1PH/50HZ	0.2	DN200	
SLT-300HL	300	220V/1PH/50HZ	0.2	DN250	
SLT-350HL	350	220V/1PH/50HZ	0.2	DN250	
SLT-400HL	400	220V/1PH/50HZ	0.2	DN300	
SLT-500HL	500	220V/1PH/50HZ	0.2	DN350	