

Heated Dryers



W-type

**Water cooling with
zero CDA purge**

Zinger

Specializing in
Energy-Efficient Design





Specializing in Energy-Efficient Design

Mission and Vision

- Business Philosophy :
Energy-saving, environmentally friendly,
meet customers expectations
- Quality policy :
Stable performance, quality compliance,
power consumption verification, reliability

Business Scope

- Design and manufacture of adsorption dryers for compressed air drying systems
- Energy-saving retrofit of heatless dryers
- Energy-saving by patented waste heat utilization
- Energy-saving design, and the compression heat recovery
- Maintenance, servicing, and replacement of consumables for dryer
- Reduce carbon footprint to meet the circular economy

Patent

ISO9001

Energy efficiency



Verification report



Heated desiccant air dryer



Patent features

Our unique design, the regeneration process can be adjusted based on the operation condition to optimize the heater, and blower power consumption this is more cost-effective than conventional heated dryers.



Automation control

The ZINGER heated adsorption dryer is with touchable HMI, and PLC. It features an automatic detection function, which shows the operation status, and warning & alarm information.



Safety design

The ZINGER dryer prioritizes air supply, pressure drop protection, and over-heating protection in its design to maintain a continuous air supply to the downstream. The protection priority can be adjusted according to customer requirements.

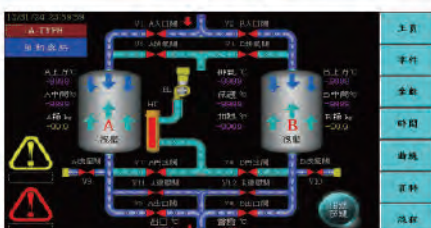
The HMI fully displays the operating status, also the parameters of temperature, pressure, dew point and more. The parameters settings can be directly modified under password protection.



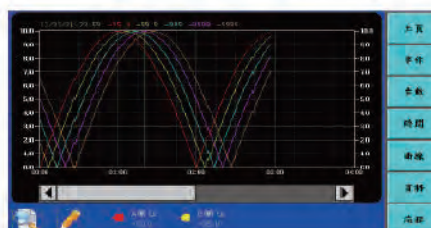
Excellent services

24/7 on-call service, comprehensive spare parts inventory,
and excellent after-sales service.

HMI Display



Trend records



Parameters setting

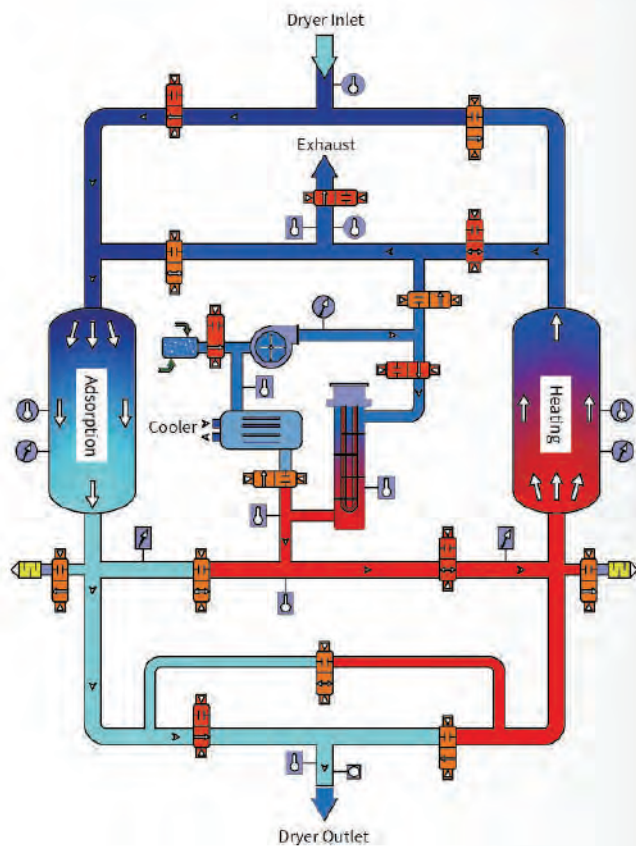
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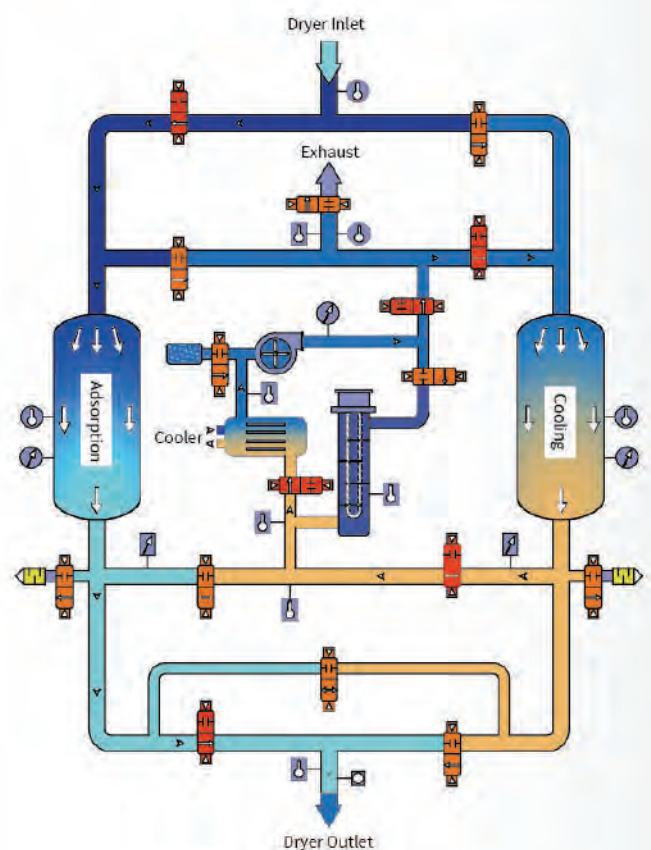
W-TYPE

Water Cooling with Zero CDA purge type

Adsorption/Heating Process



Adsorption/Cooling Process



W-TYPE

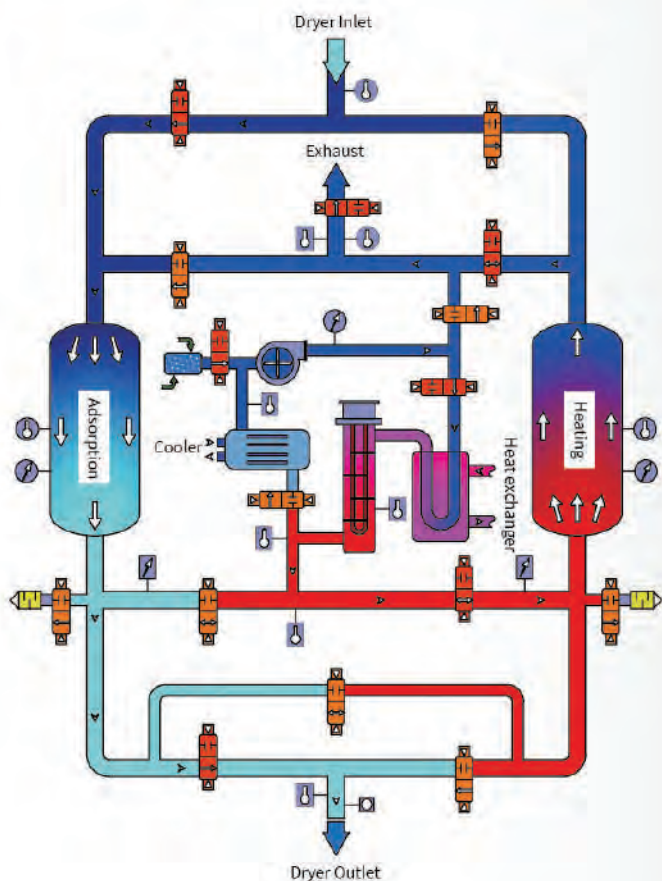
- Process flow direction is from top to bottom, compacting the adsorbent and reducing dust disturbance, which extends the lifetime of downstream filters.
- The adsorption and regeneration processes are reversed to ensure no repeated adsorption during regeneration process.
- Cooling and adsorption processes are in the same direction, ensuring dew point quality.
- Zero purge (No CDA consumption) for regeneration.
- Utilizing water cooling conserves dry compressed air, preventing instantaneous pressure drops.
- Closed-loop cooling process prevents moisture contamination, ensuring complete regeneration.
- HMI+PLC operation monitoring in well-designed and user-friendly.



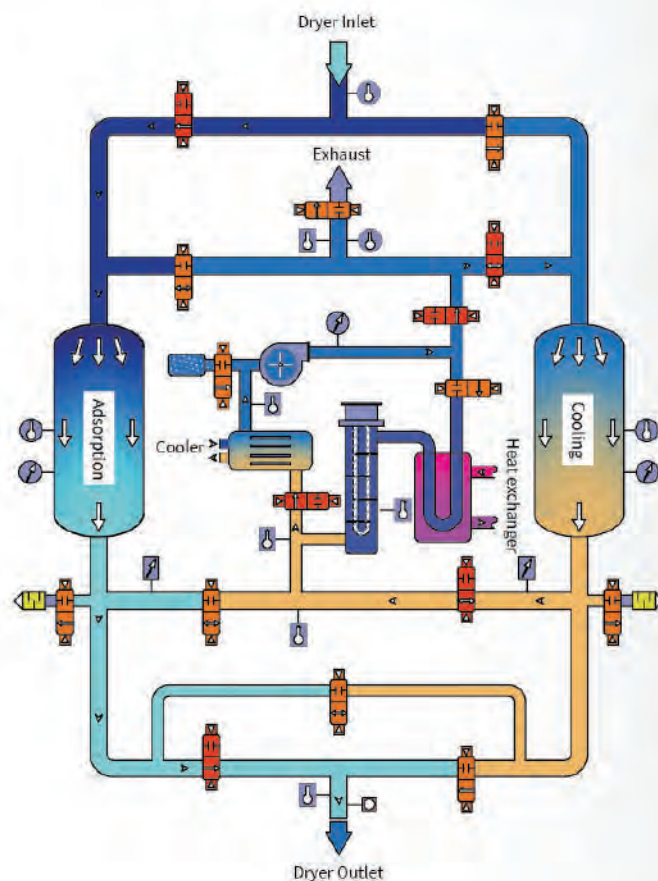
HEW-TYPE

Zero CDA purge with
compression heat recovery

Adsorption/Heating Process



Adsorption/Cooling Process



HEW-TYPE

- Process flow direction is from top to bottom, compacting the adsorbent and reducing dust disturbance, which extends the lifetime of downstream filters.
- The adsorption and regeneration processes are reversed to ensure no repeated adsorption during regeneration process.
- Cooling and adsorption processes are in the same direction, ensuring dew point quality.
- Zero purge (No CDA consumption) for regeneration.
- Utilizes compression heat for pre-heating air to reduce heater power consumption.
- Customize compression heat recovery for other purposes.
- Utilize water cooling conserves dry compressed air, preventing instantaneous pressure drops.
- Closed-loop cooling process prevents moisture contamination, ensuring complete regeneration.
- HMI+PLC operation monitoring in well-designed and user-friendly.
- Customized dryer design.

SPECIFICATIONS (W TYPE)

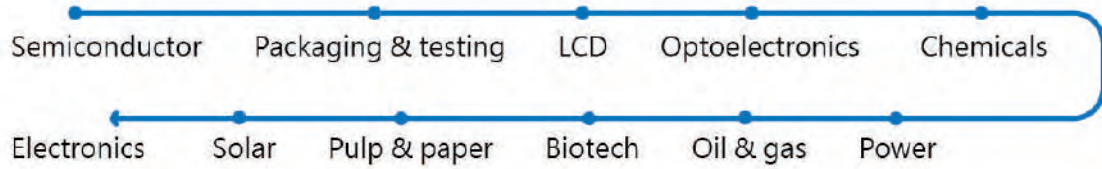
Model ACMM	Tube Dia	Dryer Body Dimensions (mm)			
	INCH	Length	Width	Height	Weight(kg)
ZIN420W	10	5330	4325	4255	19800
ZIN360W	10	5035	4325	4190	17200
ZIN280W	8	4560	3495	3760	12300
ZIN230W	8	4310	3520	3815	11400
ZIN180W	8	4260	3305	3420	9400
ZIN150W	6	3855	3100	3295	7900
ZIN130W	6	3855	3100	2990	7500
ZIN115W	6	3560	2455	3220	5800
ZIN100W	6	3560	2455	2915	5400
ZIN085W	6 / 4	3500/3300	2410/2100	2855/2780	4150/3950
ZIN075W	6 / 4	2950	2100	3060/2985	3800/3680
ZIN060W	4	2935	2015	2680	3550
ZIN050W	4	2935	2015	2375	3200
ZIN040W	4	2695	1840	2495	2280
ZIN030W	3	2370	1730	2150	1940
ZIN025W	3	2120	1725	2460	1820
ZIN020W	3	2120	1725	2155	1710
ZIN015W	2	1990	1550	1960	910

※ The 'ZIN' at the beginning of the model represents the brand code."

Under conditions of 7 kg/cm² and 20°C at the inlet, the middle digit in the model represents the flow capacity in M3/min.



Applications and References



Standard assembly

- Modbus protocol RS-485
- Pre-filter (PDI, Auto-steam trap)
- After-filter (PDI)
- Touchable HMI display
- Air supply pipeline with SUS304
- Energy Management System
- Dew point meter
- SCR controller device
- Rectifier device
- Desiccant: Activated alumina
- Flange: JIS10K



Option

- Dryer vessel Insulation
- Carbon bed filter (with PDI)
- Final filter (with PDI)
- Ethernet protocol
- Customized design
- Filter PDT
- Dessicant: Molecular sieve
- Flange type:
 - JIS 10K,16K,20K,40K
 - ANSI 150LB,300LB,600LB
 - DIN(GB) PN10,PN16,PN25,PN40
- Flowmeter
- Metering unit

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