Series variation

Desiccant air dryer (heatless dryer)

	Compact			Large		
Series	HD Series			Super heatless SHD Series		
Applications of installation	Point-of-use drying in plants, equipment embedded					
Features	Inlet air temperature 21°C			Inlet air temperature 35°C		
kW	Atmospheric dew point -17.5°C	Atmospheric dew point -40°C	Atmospheric dew point -72°C	Pressure dew point -20°C (-40°C) *2	Pressure dew point -40°C (-57°C) *2	Pressure dew point -60°C (-74°C) *2
0.4			● (HD-0.5)			
0.75	● (HD-0.5)	● (HD-0.5)	● (HD-1)			
1.5	● (HD-1)	● (HD-1)	● (HD-1.5)			
2.2	● (HD-1.5)	●● (HD-1.5,-2)	● (HD-2)			
3.7	● (HD-2)	● (HD-4)	● (HD-4)			
5.5	● (HD-4)		● (HD-6)			
7.5	● (HD-6)	● (HD-6)	● (HD-9)			
11	● (HD-9)	● (HD-9)				
15	▲ (HD-9)			● (SHD3025-G/M)	● (SHD3025-G/M)	● (SHD3025-M)
22				● (SHD3045-G/M)	● (SHD3045-G/M)	● (SHD3045-M)
37				● (SHD3075-G/M)	● (SHD3075-G/M)	● (SHD3075-M)
55				● (SHD3100-G/M)	● (SHD3100-G/M)	● (SHD3100-M)
75				● (SHD3125-G/M) ● (SHD3150-G/M)	● (SHD3125-G/M) ● (SHD3150-G/M)	● (SHD3125-M) ● (SHD3150-M)
95				● (SHD3200-G/M)	● (SHD3200-G/M)	● (SHD3200-M)
120				● (SHD3240-G/M)	● (SHD3240-G/M)	● (SHD3240-M)
150						
200						
250						
300						
400						
480						
710						
960						
1450						
Dew point monitor	×	×	×	● Standard equipment	● Standard equipment	● Standard equipment
Energy-saving device equipped	×	×	×	● Standard equipment	● Standard equipment	● Standard equipment
Different voltage compatible	● Option	● Option	● Option	● Option	● Option	● Option
Paint color specification	● Option	● Option	● Option	● Option	● Option	● Option
Remote control, external signals	● Custom made	● Custom made	● Custom made	● Standard equipment	● Standard equipment	● Standard equipment
Outdoor	×	×	×	×	×	×
Anchor bolt	×	×	×	● Option	● Option	● Option
SUS nameplate	● Option	● Option	● Option	● Custom made	● Custom made	● Custom made
Export specifications	● Option	● Option	● Option	● Option	● Option	● Option
Export packing	● Custom made	● Custom made	● Custom made	● Custom made	● Custom made	● Custom made
Product photo	● Option	● Option	● Option	● Custom made	● Custom made	● Custom made
Appearance						
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*1: This table has been prepared based on the conditions listed below; correction of models will be necessary depending on multiplier calculations in cases when the conditions are different.
Inlet air pressure: 0.7 MPa, Inlet air temperature: in accordance with rating of each series,

*2: The value in parentheses is the atmospheric dew point converted value.

⚠ Properties and handling of desiccant

1. Desiccant disposal methods

The desiccant is an adsorbent and there is a possibility that various substances other than moisture contained in the compressed air have been adsorbed. Please be sure to appropriately process used desiccant as industrial waste.

2. Inlet air temperature and suction performance

The adsorption performance of the desiccant is greatly dependent on the temperature, and its ability to adsorb moisture will suddenly decrease when exceeding a temperature of 55°C. (This is why the inlet air temperature range of the heatless dryer is rated up to 50°C.) In addition, as the ability to adsorb moisture in general is higher when the temperature is lower, efficient operation is made possible by installing the heatless dryer in an area where the lowest possible inlet air temperature can be realized.

3. Oil removal

Unlike the heated type, instead of fully adsorbing moisture with the desiccant, heatless dryers repeat the process of adsorbing a little moisture on the surface and quickly removing this moisture (regenerating). Accordingly, it is necessary to always keep the surface of the desiccant clean and in a state where it is easy for the moisture to be adsorbed.
The desiccant will adsorb oil as well if the compressed air contains oil. However, oil is not removed as easily as moisture and will infiltrate the desiccant and cause interference with the adsorption of moisture.
Accordingly, when installing the product in a lubrication air line, be sure to install an oil removing filter (M type) on the primary side of the heatless dryer.

4. Desiccant replacement period

Replacement in two years is standard for desiccant.