Series variation

Series

Applications of installation

0.4

0.75

1.5

11

15

22 37

75

95

120

150

200 250

300 400

480 710

960 1450

Dew point monitor

Energy-saving device equipped

Different voltage compatible

Paint color specification

Remote control, external signals

Outdoor

Anchor bolt

SUS nameplate

Export specifications

kW

Features

point -17.5°C

● (HD-0.5)

● (HD-1)

● (HD-1.5)

● (HD-2)

● (HD-4)

● (HD-6)

● (HD-9)

▲ (HD-9)

Х

X

Option

Option

Custom made

Option

Option

Compact

HD Series

Point-of-use drying in plants, equipment embedded

Inlet air temperature 21°C

point -40°C

● (HD-0.5)

● (HD-1)

●● (HD-1.5,-2)

● (HD-4)

● (HD-6)

● (HD-9)

X

X

Option

Option

Custom made

Option

Option

Desiccant air dryer (heatless dryer)

Large

Super heatless SHD Series

Inlet air temperature 35°C

-40°C (-57°C) *2

● (SHD3025-G/M) ● (SHD3025-G/M) ● (SHD3025-M)

● (SHD3045-G/M) ● (SHD3045-G/M) ● (SHD3045-M) ● (SHD3075-G/M) ● (SHD3075-G/M) ● (SHD3075-M)

● (SHD3100-G/M) ● (SHD3100-G/M) ● (SHD3100-M)

● (SHD3125-G/M) ● (SHD3125-G/M) ● (SHD3125-M)

● (SHD3150-G/M) ● (SHD3150-G/M) ● (SHD3150-M) ● (SHD3200-G/M) ● (SHD3200-G/M) ● (SHD3200-M) ● (SHD3240-G/M) ● (SHD3240-G/M) ● (SHD3240-M)

-60°C (-74°C) *2

Atmospheric dew Atmospheric dew Atmospheric dew Pressure dew point Pressure dew point Pressure dew point

point -72°C

● (HD-0.5)

● (HD-1)

● (HD-1.5)

● (HD-2)

● (HD-4)

● (HD-6)

● (HD-9)

X

X

Option

Option

Custom made

Option

Option

-20°C (-40°C) *2

F	R.
F	(Filtr)
R	(Reg)
L	(Lub)

Drain Separ Press SW Res press exh valve SlowStart

remove Filt Film Resist FR Oil-ProhR Press FR PTFE FRL

Outdrs FRL Adapter Press Gauge CompFRL

LgFRL PrecsR

VacF/R Clean FR

ElecPneuR AirBoost

Silncr CheckV/ other

Speed Ctrl

Fit/Tube Nozzle Air Unit

PrecsCompr Electro Press SW ContactSW

AirSens PresSW Air Flo Sens/Ctrl WaterRtSens

TotAirSys (Total Air) TotAirSys (Gamma) Gas generator

RefrDry DesicDry

HiPolymDry MainFiltr Dischrg

Ending

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Product photo	Option	Option	Option
Appearance			
Page	1792		

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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.

Desiccant air dryer

A 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.

Desiccant replacement period

Replacement in two years is standard for desiccant.

F.R.L.

F.R.

F (Filtr)

R (Reg)

L (Lub)

Drain Separ

Mech Press SW Res press

exh valve
SlowStart
Anti-har/Bar-

remove Filt
Film
Resist FR

Oil-ProhR

Med Press FR No Cu/ PTFE FRL

Outdrs FRL Adapter

Joiner Press Gauge

CompFRL LgFRL

PrecsR VacF/R

Clean FR

ElecPneuR

AirBoost Speed Ctrl

Silncr

CheckV/ other Fit/Tube

Nozzle

Air Unit

PrecsCompn Electro Press SW

ContactSW AirSens

PresSW Cool Air Flo Sens/Ctrl WaterRtSens

TotAirSys (Total Air) TotAirSys (Gamma)

generator RefrDry

DesicDry HiPolymDry

MainFiltr Dischrg etc

Ending