

Earth-friendly heatless type with

Purge flow rate is minimized with the energy-saving dew point monitor (approx. 96% max.).
It also achieves low noise with the original exhaust system.
Super heatless dryer SHD Series with excellent reliability, performance and ease of use.

Energy saving

Reduces unnecessary purge by dew point monitoring

By directly monitoring the outlet air dew point, the switching time of adsorption and regeneration can be variably controlled in response to changes in the dew point. Reduces the purge and achieves the optimum energy-saving operation.

■ Normal operation

Regardless of the outlet dew point, adsorption and regeneration are switched at 2-minute intervals.

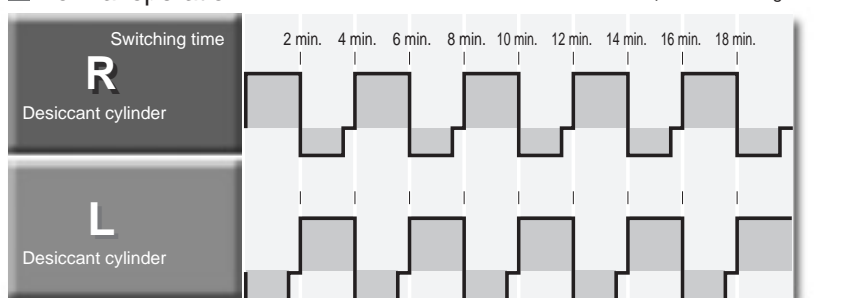
■ Energy saving operation

If the set dew point is cleared at the time of switching, the state is maintained without switching the desiccant cylinder. When it reaches the set dew point, it switches the cylinder, returns to normal operation and maintains the dew point. The changeover time is up to 60 minutes (in this case, the purge flow rate is reduced by about 96%).

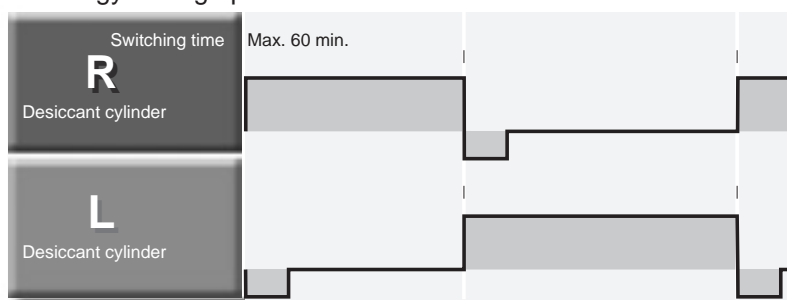
About 13% reduction even in normal operation

The optimum design of the desiccant cylinder reduces the purge rate by 13% even in normal operation.
(compared to CKD conventional products)

■ Normal operation



■ Energy saving operation



Desiccant cylinder switching time and purge reduction rate

Switching time	Purge reduction rate
2 min.	0%
4 min.	50%
10 min.	80%
20 min.	90%
60 min.	96%

Achieves 1/3 lower power consumption

The electronic control system reduces the main power consumption by 1/3.
(compared to CKD conventional products)

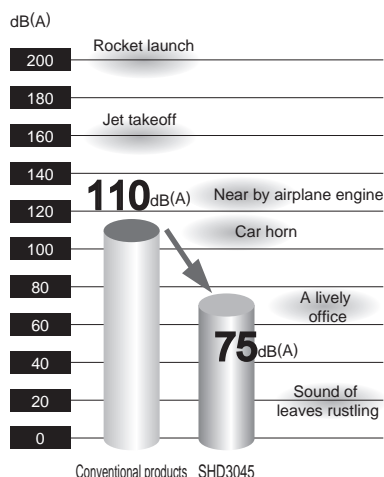
Low noise

Significantly reduces noise when switching

The 2-stage exhaust system (PAT.P) achieves a significant noise reduction of about 35dB (A) as compared with conventional products.

Noise reduction

When the noise is reduced by 10db, human ears perceive the noise to be reduced by half



Non-Freon that conforms to ISO14001

improved environmental performance.

SHD Series

Directly manages the pressure dew point using numeric values

Equipped as standard with a dew point sensor. As it digitally displays the pressure dew point, the performance can be confirmed safely and reliably.

Stainless steel tower adopted

Non-corrosive stainless steel vessel is used for the desiccant cylinder to improve the supply air quality and reliability.

Easy maintenance

The desiccant cylinder can be easily removed by rotating it by 45°. Moreover, as the cylinder is locked by a latch mechanism, the safety is excellent.

Air compressor can be connected directly

Refrigeration air dryer is not required on the inlet side. Just one unit reliably maintains performance.

Equipped with filters in the inlet and outlet Standard equipment

AF2000 Series filters are equipped as standard on both the inlet filter for maintaining the performance of the heatless dryer and outlet filter for maintaining the quality of supply air. (Included)
Stainless steel AF4000 and AF5000 Series can be optionally selected.

A wide variety of 16 models is available.

16 models are available, with 8 types of air flow rates (2.5 to 24 m³/min(ANR)) and 2 types of dew point sensors (G: temperature / humidity sensor, M: dew point meter).

Applicable compressor kW	15	22	37	55	75	95	125	
Inlet air flow rate m ³ /min(ANR)	2.5	4.5	7.5	10	12.5	15	20	24
G type	●	●	●	●	●	●	●	●
M type	●	●	●	●	●	●	●	●

Operability improved by the electronic control system

Pressure dew point digital display

Also displays dew point abnormalities, sensor abnormalities, etc.

Can be switched between energy saving and normal operation

The energy-saving mode and normal mode can be easily switched manually.

Energy-saving set dew point selectable

The G type has 3 stages of -10, -20 and -40°C, and the M type has 3 stages of -20, -40 and -60°C. The switch setting can be selected according to the required dew point, making the optimal energy conservation possible.

Allows centralized management in control rooms, etc.

Equipped as standard with remote operation/dew point sensor abnormality output terminal, dew point abnormality output terminal dew point analog output terminal. The operating status of the device can be centrally managed.

ECO display

You will be notified when it enters into energy-saving mode.

Energy-saving rate display

It can display the energy saving rate per 24 hours. It can be used in day-to-day management.

Significantly reduced footprint

1/3 to 1/2 (CKD conventional products comparison)

HEATLESS AIR DRYER
SHD 3000

F.R.L.
F.R.
F (Filtr)
R (Reg)
L (Lub)
Drain Separ
Mech Press SW
Res press exh valve
SlowStart
Anti-bac/Bac-remove Filtr
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
WaterRISens
TotAirSys (Total Air)
TotAirSys (Gamma)
Gas generator
RefrDry
DesicDry
HiPolymDry
MainFiltr
Dischrg etc
Ending

CKD

1797