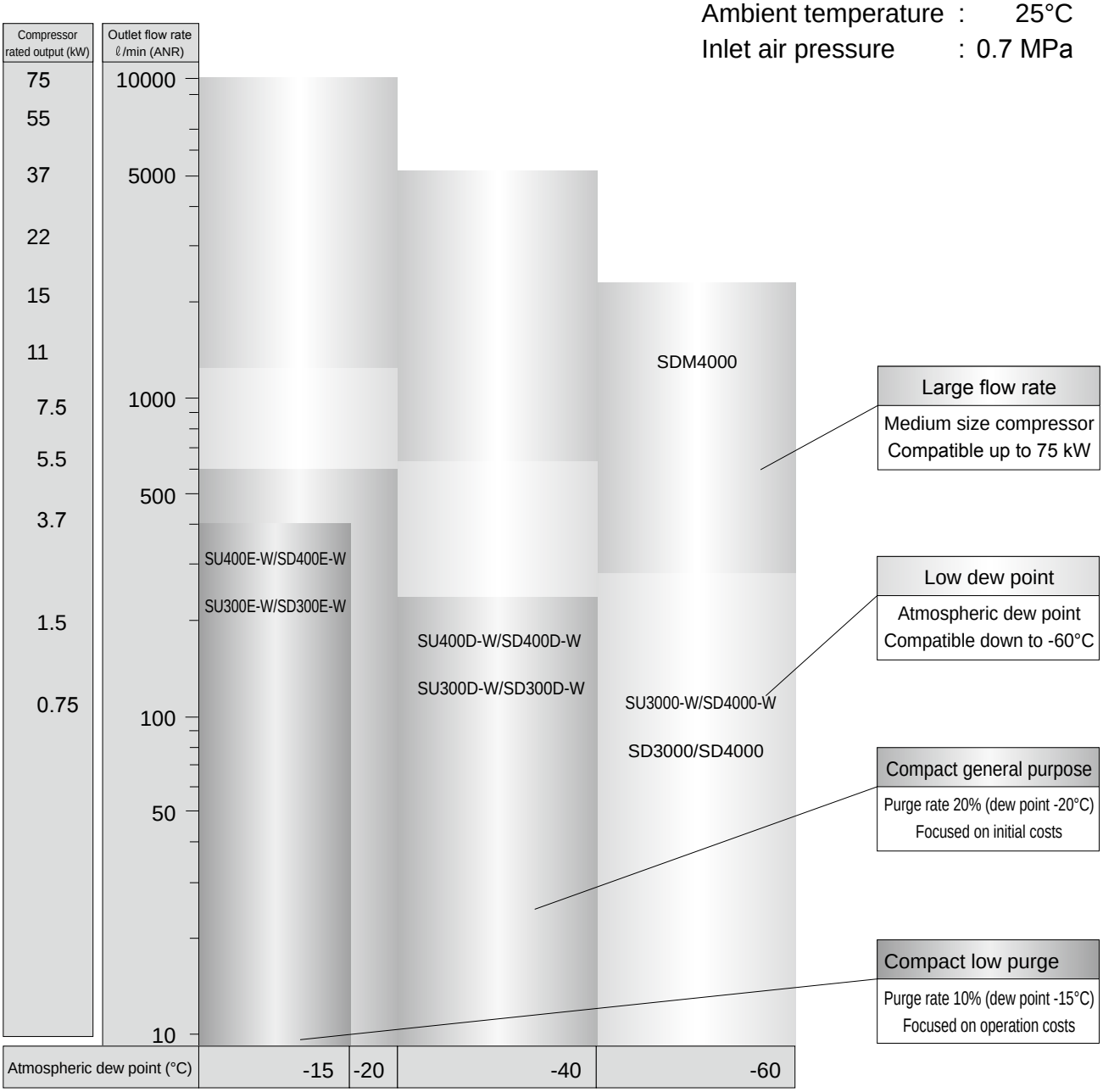
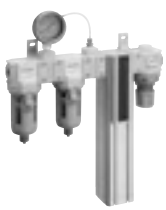
7 series and 65 models

Select the best suited model for your application.

Selection guide MAP

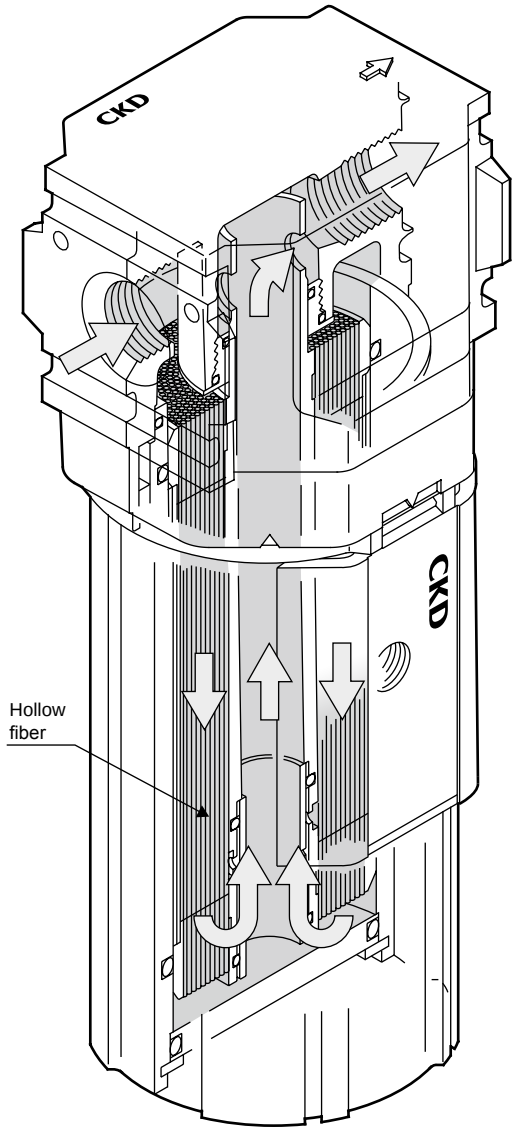
Inlet air temperature : 25°C
Ambient temperature : 25°C
Inlet air pressure : 0.7 MPa



Compact low purge		Compact general purpose		Low dew point		Large flow rate
E Series (purge rate 10%)		D Series (purge rate 20%)				
SU300E-W/SU400E-W	SD300E-W/SD400E-W	SU300D-W/SU400D-W	SD300D-W/SD400D-W	SU3000-W/SU4000-W	SD3000/SD4000	SDM4000
						

The innovative super dryer series is a high-tech dryer that incorporates a high polymer membrane.

Unprecedented ease of use, long service life, and high reliability are realized.



Pursuing ease of use

■ Handy preassembled unit

Super dryer (High polymer membrane air dryer) with integrated pre-filter, etc., is available. Easily used by just connecting directly to the pneumatic source.

■ Modular design

CKD original modular concept allows easy connections with CKD clean air units, reduces design and piping hours and enables systems to be upgraded easily.

■ Amenity

The unpleasant effects of conventional air dryers, such as vibration, heat discharge, power source noise, impact noise, and dust generation, have been eliminated.

■ No power supply needed

Electricity is not required, so expertise in electricity is not required when installing the dryer. The dryer can be installed anywhere including explosion-proof areas with different voltages.

■ No more problems

There are no mechanical moving parts, so no need for concern about unexpected failures. Clean dry air is stably supplied for long periods of time.

Diverse series to match applications

■ Low purge Purge rate 10%

Reduces operation costs through energy-saving moisture removal with an atmospheric dew point of -15°C and a purge ratio of 10%. [E Series]

■ Low dew point Atmospheric dew point -60°C

Clean ultra dry air can be supplied easily and stably.
[3000 and 4000 Series]

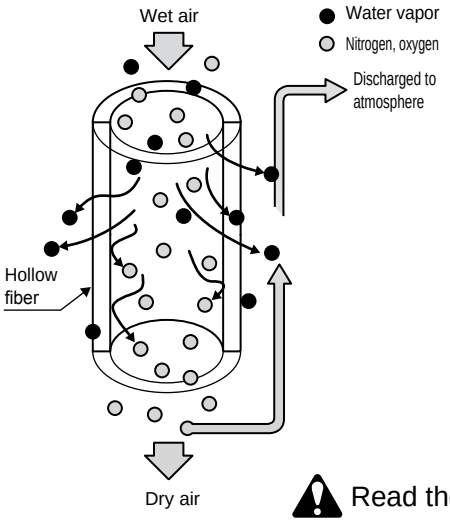
■ Large flow rate Compatible with 75 kW compressor

Large flow rate is achieved with a polymer separation membrane.
In addition, compared to suction air dryers, this unit is very compact and slim at 1/3 of installation area and 1/6 of the occupied volume of our conventional products. [SDM Series]

■ Compatible with medium pressure Max. working pressure 1.5 MPa

Available with max. working pressure of 1.5 MPa and a wide range of applications.
[SD3000/4000 Series, SDM Series]

■ Principle of dehumidification



The gaseous molecules can freely pass through the high polymer material, but the ease of passage varies widely according to the mutual properties of the gas and the high polymer material being used.
In order to remove water vapor only, the super dryer uses a high polymer material which allows water vapor, but not nitrogen or oxygen, to pass through easily.
Since the concentration of each gas is high inside the hollow fibers of this material, gases try to move toward the outside of the hollow fibers where concentration is lower when fed with moist compressed air.
The hollow fibers are made of material that allows water vapor to pass through easily, so that only water vapor moves toward the outside of the hollow fibers. Moist air supplied from the inlet leaves the outlet as dry air.
By having part of the outlet's dry air flow toward the outside of the hollow fibers as purge air, water vapor moved to the outside is quickly discharged into the atmosphere. This keeps the concentration of water vapor on the outside of the hollow fibers low, enabling continuous dehumidification.

⚠ Read the precautions on pages 1832 and 1833 before use.