Simple Solution for Supply of Dry Air

Differential Pressure Dehumidifier
COOL SEPARATOR

● Set anywhere along the piping system to obtain dry air without effort.

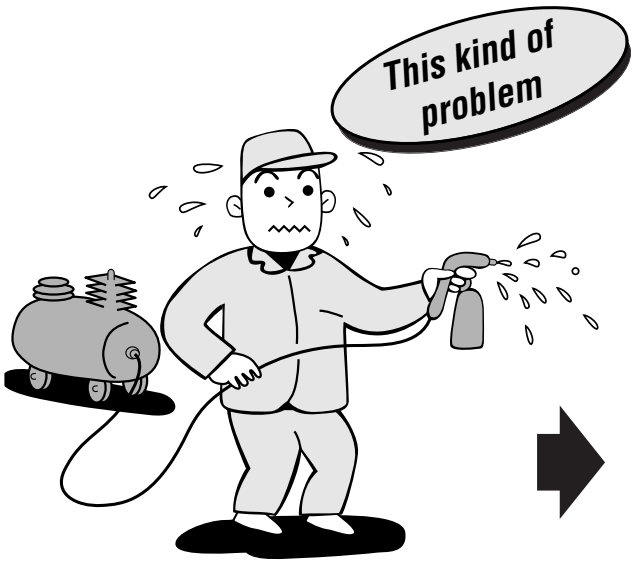
Differential pressure type achieves lightweight, compact unit.
Furthermore, power supply is unnecessary, for delivery of dry air without effort.

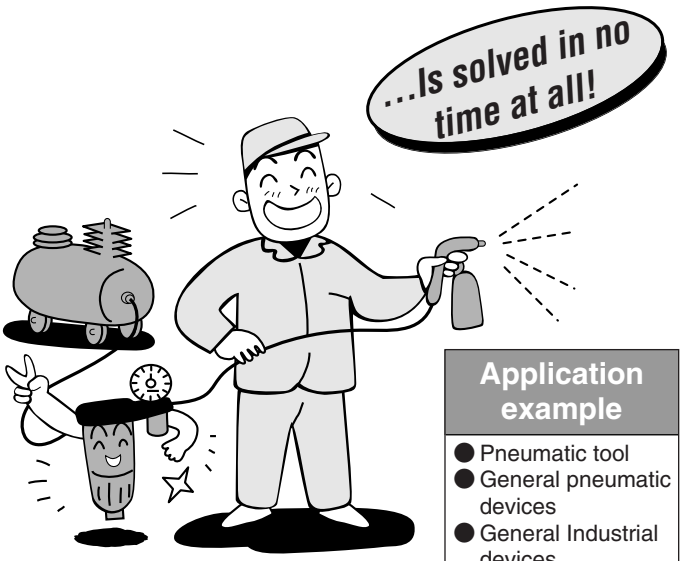
● Koganei's own configuration responds to changes in flow rate volumes.

Because it demonstrates reliable dehumidification performance even during fluctuations in flow rate or pressure, it is optimum for air control at the end of air lines.

● No maintenance

It does not use filters, and therefore does not have clogging problems.
Moreover, collected liquid or contaminants are automatically removed via an auto drain trap.





Application example

- Pneumatic tool
- General pneumatic devices
- General Industrial devices
- Air blowing

Dehumidifying Principles

1 **Separates out oversaturated moisture.**
Uses Koganei's own rotating louver to generate a highly efficient centrifugal force that sends heavy moisture flying outward while collecting foggy vapor in the center.

2 **Forms foggy vapor into droplets.**
The foggy vapor collected in the center comes into contact with the walls of the device, chilling it. It condenses into droplets that are sent flying outward by the centrifugal force.

3 **Uses collision separation on microscopic vapor.**
Microscopic aerosol vapor collides with a baffle to form water droplets.

4 **Gravitationally separates out water droplets.**
Air entering the bowl is reliably separated into moisture and air, with water droplets collected toward the bottom.

5 **Koganei's own mechanism chills walls of the device.**
Uses Koganei's own mechanism for adiabatic expansion that chills the walls of the device.

6 **Exchanges heat with intake air.**
Air chilled by adiabatic expansion exchanges heat with intake air, drying the air.

7 **Water droplets collected in the bowl are ejected out of the device by a float.**