IKENO DEHUMIDIFIER

SPECIFICATIONS

Model	Air Flow (CMH)	Capacity, (Kg/day)	Power Source	Power Consumption, kW	Refri -gerant	Dimension WxDxH (mm)	Weight (kg)
ID-3000S	3,000	300	380V / 50Hz / 3Ph	3.54	R22	950x600x1800	160
ID-4500S	4,500	450		5.49	R22	1250x600x1800	235
ID-6000S	6,000	600		7.08	R22	1250x600x1800	250
ID-9000S	9,000	900		13.65	R22	2500x600x1900	450



ID-6000S



ID-3000S

APPLICATION

IKENO dehumidifier has been introduced to serve the demands of medium sized areas without the need to use multiple units. Warehouses, factories, offices and other medium scale facilities with ambient temperatures ranging from 15°C to 40°C can be cured of humidity and condensation problems efficiently and automatically without over burdening costly heating, cooling and ventilation systems. IKENO dehumidifier can be utilized singly or in multiple units to provide protection on any scale.
Ducted applications are possible where design requirements specify.

KEY DESIGN FEATURES

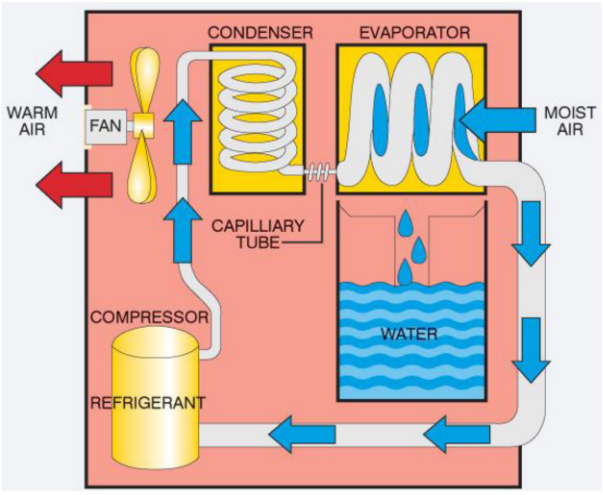
- Adjustable control humidistat to maintain the level of dryness. Remote humidistat facility.
- Integral condensate pump with a high capacity pumping height.
- IKENO unique temperature sensitive, “Reverse Cycle” defrosting feature which automatically melts away frost buildup providing effective operation at low ambient temperatures.
- More efficlent, guieter, and experienca vibration.
- Self- contained for quick and easy installation No duct work required. May be ducted if desired.
- High efficiency cooling and heatingcoits
- Totally enclosed coils in an epoxy-coated, heavy gauge steel case.

ADDITIONAL FEATURES

Optional inlet / outlet duct flanges.

HOW A DEHUMIDIFIERWORKS

1. Air is drawn into the unit by a fan
2. Air passes over a cold surface
3. As the air is cooled, it’s moisture condenses
4. Water falls into the container
5. Air is re-heated by the heat recovery system
6. Air passes back into room 2°C warmer and considerably dryer
7. Defrost system automatically de-ices unit as necessary
8. Unit switches off automatically when container is full
9. When the unit achieves the selected level of dryness it switches off automatically



PROVEN PERFORMANCE

IKENO dehumidifier incorporates IKENO’s unique temperature sensitive, “Reverse Cycle” defrosting feature. This proven method of defrosting allows the unit to function smoothly in all temperatures down to 0°C, while maintaining optimum performance at higher temperatures.

Applications	Item
Warehouse	✔
Basements	✔
Factories	✔
Sports Halls	✔
Storage Areas	✔
Laboratories	✔
Oil Rigs	✔
Agriculture	✔
Pumping Stations	✔
Stadiums	✔
Ships / Barges	✔
Warehouse	✔
Basements	✔
Factories	✔

THE PROBLEM

Excess humidity in your crawl space, warehouse, office, factory or shop results in corrosion, mold growth and rotting. Enormous costs are incurred every year through damage to inventory and through inflated building main- tenance costs as a result of dampness. Even if your building seems dry during the day, at night when the temperature falls the humidity rises and the condensation process begins. The compact physical size, and high perfor- mance, makes IKENO dehumidifier the ideal choice.

THE DEHUMIDIFIER

IKENO dehumidifier are effective solutions to environmental control problems.

IKENO range of units are high capacity dehumidifiers, made to operate at high efficiencies by removing moisture from the air through the refrigeration process. The fan draws the moist air through the cold evaporator coil, which cools the air below its dew point. Moisture forms on the evaporator coil and is collected in the condensate tray, which is equipped with an internal conden- sate pump for easy removal of collected moisture. The cooled air then passes through the hot condenser coil where it is reheated using the same energy removed during the cooling phase, plus the additional heat generated by the compressor. The air is, therefore, discharged from the dehumidifier at a slightly higher temperature with a lower absolute humidity than that which entered. Continuous circulation of air through the dehumidifier gradually reduces the relative humidity within the area.

Because the IKENO range of units are equipped are equipped with humidistat control, they automatically switch on and off to save energy and expense by maintaining the desired level of humidity with intermittent operation. The remote humidistat feature of the IKENO makes the unit the ideal choice for where remote sensing and control is required Optional duct mounting flanges, reduces the installation time when connecting to an existing / new ducting systems.