

Refrigerant Floor Standing **DEHUMIDIFIERS**





Underground garages



Hospitals



Pharmaceuticals

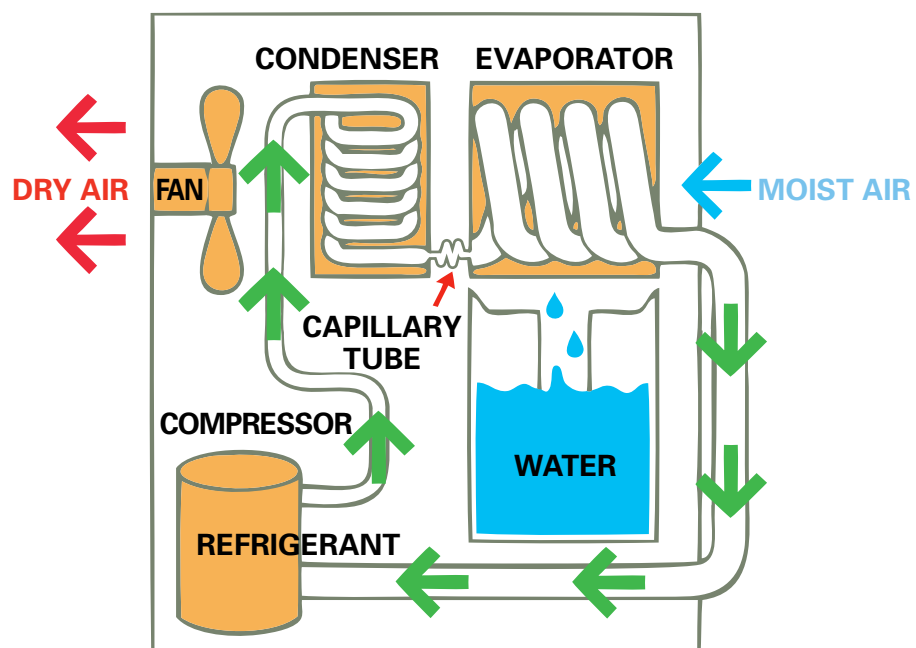
How it works

The working principle of refrigerant dehumidifiers is like condensation on a cold window. A dehumidifier consists of a compact refrigeration system which maintains a cold surface (the evaporator, such as the cold plate in a domestic fridge). The air passing over the cold surface gets cooled and the moisture carrying capacity of the air is reduced. When this cooled air temperature drops below the dew point temperature of the air, water droplets form on the cold surfaces just like dew forms on the grass on cold mornings or on cold glass windows. In this way the air is dried / dehumidified. The air that condenses on the cold hydrophilic coils and is then collected in a container or drained to a drain point.

The energy absorbed at the evaporator is pumped by the compressor utilizing the refrigerant as the heat transfer medium, to the condenser where the cold air is heated before being passed back into the room, dry and warm.

Applications

- Hospitals
- Basements
- Timber drying
- Produce drying
- Pharmaceutical
- Swimming pools
- Cannabis cultivation
- Underground garages
- Warehouses / Storage facilities
- Any application that requires humidity control





Timber drying



Swimming-pools



Cannabis cultivation

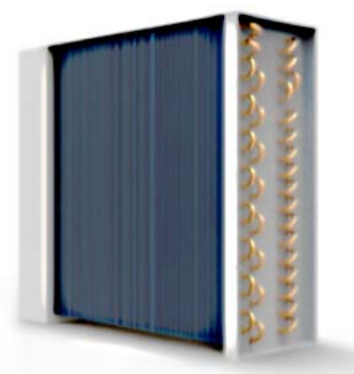
Features

- Large LED display
- Programmable memory
- Automatically switches ON/OFF to track the required humidity
- 1 – 24-hour timer switch: Temperature, humidity, & defrost displayed
- Operating humidity range: 20% – 90%
- Operating temperature range: 5 °C – 38 °C
- Robust & stable construction ensures safe placement
- Automatic defrost protection
- Ergonomic design structure ensures simple maintenance procedures
- Includes air purification filter
- Wide range of uses in commercial, industrial & agricultural applications



Components

- **Housing:** Constructed of adequately sized sheet steel, hot dip galvanised, and epoxy powder coated.
- **Rotary compressor:** Reliable; compact & lightweight; lower vibration and noise levels; high efficiency; suitable for continuous operation.
- **Refrigeration circuit:**
 - The **Evaporator** is manufactured using thickened copper tube, ensuring reliable leak free operation after transportation.
 - The **Condenser**, also using thickened copper tube. The aluminium fin spacing is wider, which increases air handling capacity, and reduces the effect of dust clogging.
- **Fan:** The direct driven centrifugal fan is dynamically balanced to ensure reduced vibration and low noise levels. The fan is driven by a reliable external rotor motor.
- **Air filter:** Provided as standard with the units, these filters are washable & easily replaceable.
- **Control panel:** Programmable 0 – 24 hours.
- **Testing:** Testing to ensure the tightness of the refrigeration circuit, electrical discharge, and performance are performed before despatch of the units.



Swift Industrial Refrigerant Dehumidifiers - Floor Standing

Model	RF-6.8M	RF-10T	RF-12T	RF-16T	RF-22T	RF-30T	RF-40T
Power supply (V / ~ / Hz)	220 / 1 / 50	380 / 3 / 50	380 / 3 / 50	380 / 3 / 50	380 / 3 / 50	380 / 3 / 50	380 / 3 / 50
Max Capacity - (Litres / Hour) @ 30° C, 80% RH	6.8	10	12	16	22	30	40
Max Capacity - (Litres / Day) @ 30° C, 80% RH	163	240	288	384	528	720	960
Maximum power (kW)	2.5	4.25	4.65	6.3	8.4	12	15
Maximum current (A)	11.5	6.5	7.5	10	13	18	23
Airflow (m³/h)	1 800	2 800	3 000	5 000	5 600	7 400	10 000
Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Drainage	Drain hose	Drain hose	Drain hose	Drain hose	Drain hose	Drain hose	Drain hose
Intake temperature range (°C)	5 – 38	5 – 38	5 – 38	5 – 38	5 – 38	5 – 38	5 – 38
Typical noise level (dBA)	50 – 65	50 – 65	50 – 65	50 – 65	50 – 65	50 – 65	50 – 65
Cabinet size (L x W x H mm)	600 x 410 x 1 600	780 x 470 x 1 700	780 x 470 x 1 700	1 190 x 450 x 1 750	1 190 x 450 x 1 750	1 390 x 720 x 1 930	1 390 x 720 x 1 930
Net weight (kg)	90	110	120	180	200	350	400
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Legend example: **RF-6.8M** R = Refrigerant; F = Floor standing; 6.8 = litres/day; M = Single phase 220V; T = Three phase 380V

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