

## INDUSTRIAL DEHUMIDIFIERS



OS-150



OS-300

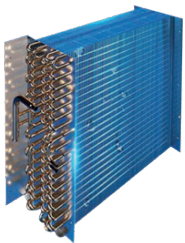


OS-500

**Olmas** industrial dehumidifiers, including the **OS-150, OS-180, OS-300, and OS-500 series**, offer an ideal solution for humidity and condensation control in medium-sized production environments with temperatures ranging from **15°C to 40°C**, all without the need for additional equipment.

These units are widely applied in: Storage warehouses, Food and pharmaceutical factories, Precision mechanical workshops, Museums and exhibition halls, Media centers.

### Key Components



#### Hydrophilic E-coated evaporator coil

40% faster and more efficient dehumidification



#### High-performance compressor

Features internal circuit breaker and high/low pressure protection



#### Airtight centrifugal fan

Smooth, quiet, high-performance operation

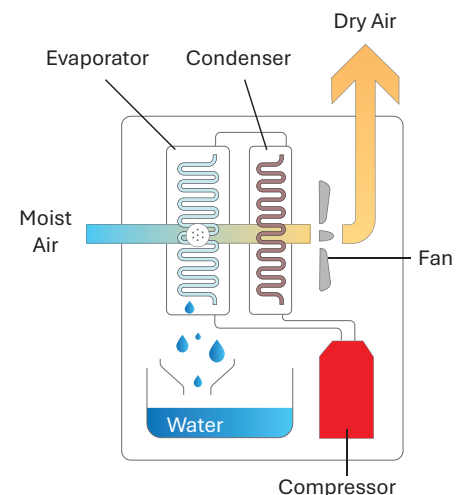


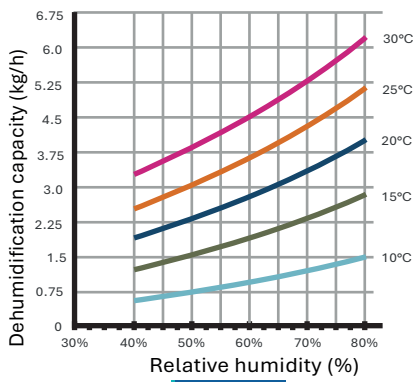
#### Humidity control panel

Automatic and energy-saving operation

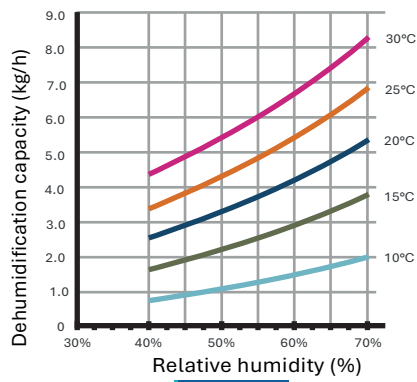
### Operating principle of condensing dehumidifier

- First, the centrifugal fan draws humid air into the unit. At the evaporator coil, the air is cooled below its dew point, causing moisture to condense and drain away. The now-cooled air then passes through the condenser coil to be reheated. Finally, the warm, dry air exits, enters the target area, and continues the dehumidification cycle.
- For enhanced efficiency and durability, integrate the following: a pre-filter before the evaporator to clean the air and prevent clogging; a defrost function to remove frost buildup on the coil in low temperatures; and an automatic humidity controller to self-regulate the dehumidifier and maintain the desired humidity.

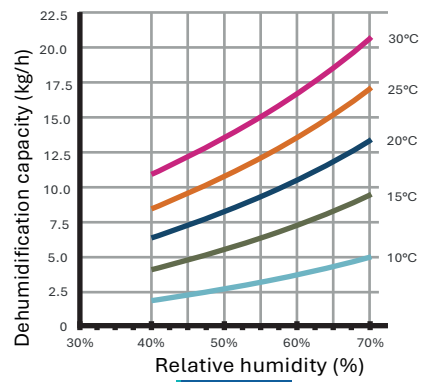




OS-150

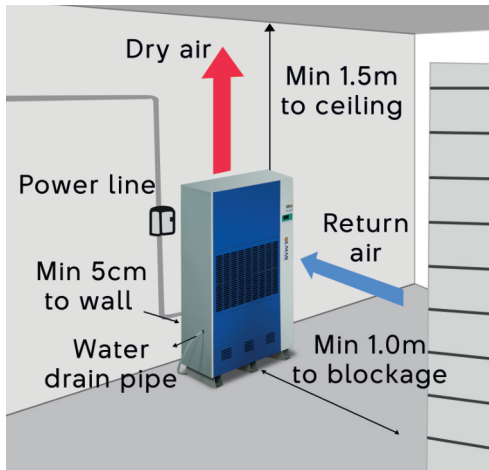


OS-210



OS-500

## Installation Guide



OS-1200

## Technical Specifications

Model		OS-150	OS-180	OS-300
Operating temperature range	°C	15-40	15-40	15-40
Dehumidification capacity (30°C, 70%)	kg/day	150 *	180	300
Airflow rate	CMH	1,500	1,800	2,500
Refrigerant	-	R407C/R410A/R134A		
Refrigerant charge	kg	1.9	1.9	1.9
Power source	V/Ph/Hz	220/1/50	220/1/50	380/3/50
Nominal power consumption	kW	1.495	3.5	4.0
Dimensions (Width x Depth x Height)	mm	690x530x985	605x405x1,620	750x470x1,615
Net weight	kg	45	125	128
Noise	dBA	≤55	≤58	≤58

Model		OS-500	OS-720	OS-1200
Operating temperature range	°C	15-40	15-38	15-40
Dehumidification capacity (30°C, 70%)	kg/day	500	720	1200
Airflow rate	CMH	5,000	7,500	12,000
Refrigerant	-	R134A		R410A
Refrigerant charge	kg	3.8		
Power source	V/Ph/Hz	380/3/50	380/3/50	380/3/50
Nominal power consumption	kW	11.0	12.5	14.5
Dimensions (Width x Depth x Height)	mm	1,200x500x1,820	1,580x574x1,920	1,400x720x1,900
Net weight	kg	220	400	400
Noise	dBA	≤58	≤58	≤72

**\*The nominal condition for the OS-150 is 30°C/80%.**  
**\* For dehumidifiers with a capacity of less than 150L/day, the duct must be less than 3m. For dehumidifiers with a capacity of over 150L/day, the duct must be less than 5m.**  
**\* Industrial dehumidifiers operating in an environment between 15-18°C must be equipped with an additional defroster for the dehumidifier to work properly.**