



INDUSTRIAL AIR DEHUMIDIFIER MODEL **KT-240**

Technical sheet with latest revision 07/2022

Suitable for egg storage, fruit and vegetable storage, dairies, butcher shops, wheat drying, warehouses and more.



Product code: KT-240

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Industrial ductable dehumidifier for fixed or trailerable installation, suitable for large environments or when the treatment of large quantities of air is required. It has a structure and paneling made of galvanized steel sheet, painted with epoxy resins, copper tube coils and aluminum finned pack. It is equipped with a high performance hermetic reciprocating compressor and a high head centrifugal fan. It has a thermostatic valve, minimum and maximum pressure switches and a dehydrating filter. A dedicated electronic board, connected to the antifreeze probe, controls the defrosting of the dehumidifier and the main operating parameters. Available with upper outlet air, on request, or rear.

Dehumidifier which can possibly be integrated with the application of a condensate drain pump.



Process air supply

Control Panel



Intake air filter

KT-240 working range +7/+35°C (Opt. defrost with hot gas +0,5÷35°C ; Opt. functioning below zero -1÷35°C)

MAIN FEATURES

Structure: Supporting structure with panels in sturdy hot-galvanised sheet metal, subsequently painted with epoxy powders, guaranteeing high resistance to atmospheric agents and aggressive environments. The panels are removable to allow quick inspection and maintenance of the internal elements.

Cooling circuit: Evaporator and condenser: the coils are made of copper tubes and aluminum fins. Filter dryer, Shrader valves, minimum and maximum pressure switch. Defrost thermostat and solenoid valves in the S version.

Condensate collection tank: The tank is made of anti-corrosion plastic, the dehumidifier must be connected to a fixed drain, avoiding the formation of double siphons, via a pipe with a ¾" F connection to the tank.

Condensate lift pump: (optional) Supplied on request.

Fan: Double intake centrifugal fan, built with sturdy galvanized sheet metal blades, aesthetically and dynamically balanced.

Level of protection: Standard IP21. On request IP44.

Hot gas defrosting: Allows the dehumidifier to be used in environments with temperatures down to 0.5°C, it is a special hot gas injection system to speed up defrosting of the ice formed in the evaporator.

Air delivery: The air delivery is standard on the side opposite the return but the dehumidifier can be requested in the TOP version (with delivery on the upper side of the machine).

Air filter: Made of polyurethane, the air filter is washable and easily replaceable. High efficiency filter.

Microprocessor: Controls the defrost cycles, the compressor timer and the alarm board. Model KT-240 (three-phase) is equipped with phase sequence control.

Control panel: Located on the side of the machine. Complies with European regulations.

Testing: Tightness tests are carried out on the refrigerant circuit, all the electrical tests required by the CE regulations and a functional test.

Reference technical standards

This dehumidifier satisfies the essential requirements contained in the European Community Directives 2006/95/CE of 12 December 2006 regarding the safety of electrical products to be used in Low Voltage; 2004/108/EC of 15 December 2004 regarding Electromagnetic Compatibility; 2006/42/EC of 17 May 2006 regarding machine safety.

Conformity is declared with reference to the following harmonized technical standards: CEI-EN 60335-2-40, CEI-EN 55014-1, CEI-EN 55014-2.

We also declare that the product is manufactured in compliance with the RoHS Directive in force, i.e. 2002/95/EC, implemented with Legislative Decree 25 July 2005 n.151 (article 5).

ACCESSORIES

Cold kit (defrost system + crankcase heater)

Automatic control hygostat

Mechanical humidostat

Electric heaters (optional)

The post-heating electric resistances (optional) are controlled by a thermostatic control (optional). The heating function can be independent of the dehumidification function.

Digital humidistat Remote (optional)

Device that can be installed in rooms equipped for humidity control, easily connectable to the dehumidifier's electrical system

ACCESSORIES

Remote digital thermostat (optional)

Device that can be installed in the room for temperature control, usable for electric or hot water heating control.

Sub-zero operation device (optional)

Kit that allows the dehumidifier to be installed in particularly cold environments such as cold rooms, temperatures down to -0.5°C.

Cataphoresis treatment (optional)

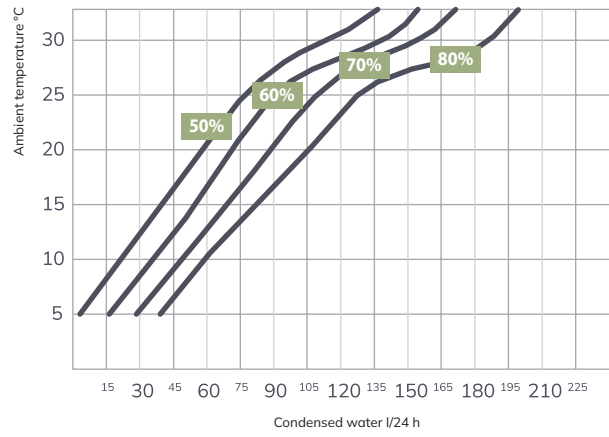
Treatment of the evaporator able to give greater resistance to corrosive environments.

INCREASED STATIC PRESSURE AVAILABLE IN STAINLESS STEEL VERSION

TECHNICAL DATA

Nominal dehumidification capacity	240
Average rated absorbed power (26,7 °C - 60% R.H.)	3,7 kW
Maximum absorbed power (35 °C - 70% R.H.)	4,3 kW
Maximum absorbed current (35 °C - 70% R.H.) F.L.A.	9,1 A
Inrush current L.R.A.	50,0 A
Sound pressure level (3 meters in free field)	55 db (A)
Refrigerant	R410a 2,1 Kg
Condensate drain connection on the machine	3/4" M
Operating range (temperature)	7÷35°C
Operating range (temperatures) - opt. hot gas defrosting	0,5÷35°C
Operating range (temperatures) - opt. operation below zero	-0,5÷35°C
Operating range (relative humidity) T<30°C	45÷99%
Operating range (relative humidity) T 30-32°C	45÷90%
Operating range (relative humidity) T 32-35°C	45÷70%
Average absorbed potential (20 °C - 60% R.H.) with 4kW resistors	7,7 kW
Hot water coil heating cap. (ambient 27°C water 70/60°C)	5,0 kW
Available voltage (Rate Volt/Frequency)	400/3+N/50 Hz
Normal air flow m3/h	2000
Useful static pressure Pa	100
Standard defrost control	Elettronico
Hot gas defrost control (optional)	Termostatazione elettronica
Net weight	72 Kg
Dimensions WxDxH	980 mm x 680 mm x 490 mm

PERFORMANCE



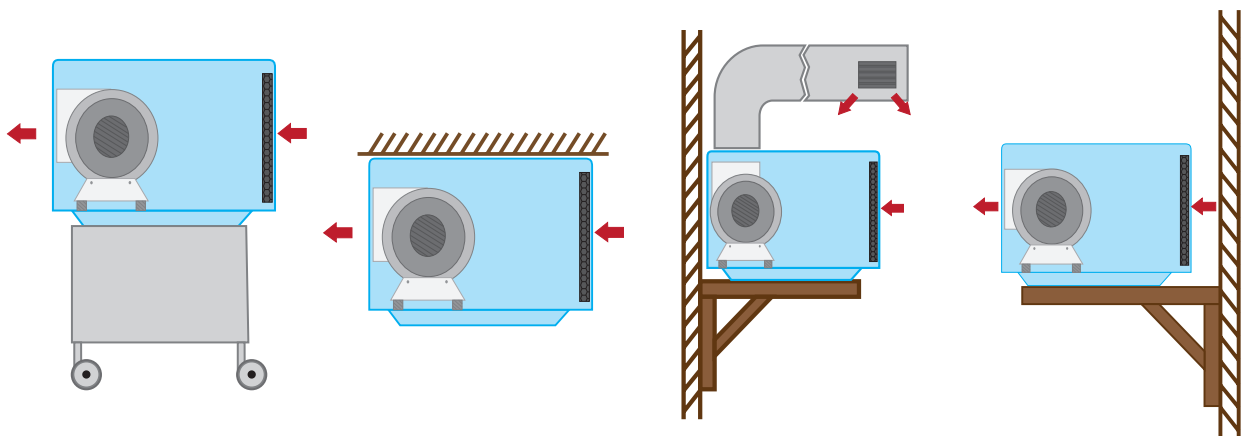
Ambient conditions	Condensed water	Ambient conditions	Condensed water
10°C - 80% u.r.	60 l/24h	25°C - 80% u.r.	125 l/24h
15°C - 80% u.r.	79 l/24h	27°C - 80% u.r.	135 l/24h
20°C - 80% u.r.	105 l/24h	30°C - 80% u.r.	188 l/24h
Ambient conditions 32°C - 90% u.r.		Condensed water 240 l/24h	

10°C 60%	10°C 80%	15°C 60%	15°C 80%	20°C 60%	20°C 80%	25°C 60%	25°C 80%	27°C 60%	27°C 80%	30°C 80%	32°C 90
35	60	55	79	70	105	90	125	103	135	188	240

Air flow at different back pressures (mc/h)

0 Pa	25 Pa	50 Pa	70 Pa	100 Pa	125 Pa	150 Pa
2.300	2.200	2.200	2.100	2.000	1.800	1.600

TYPES OF INSTALLATION



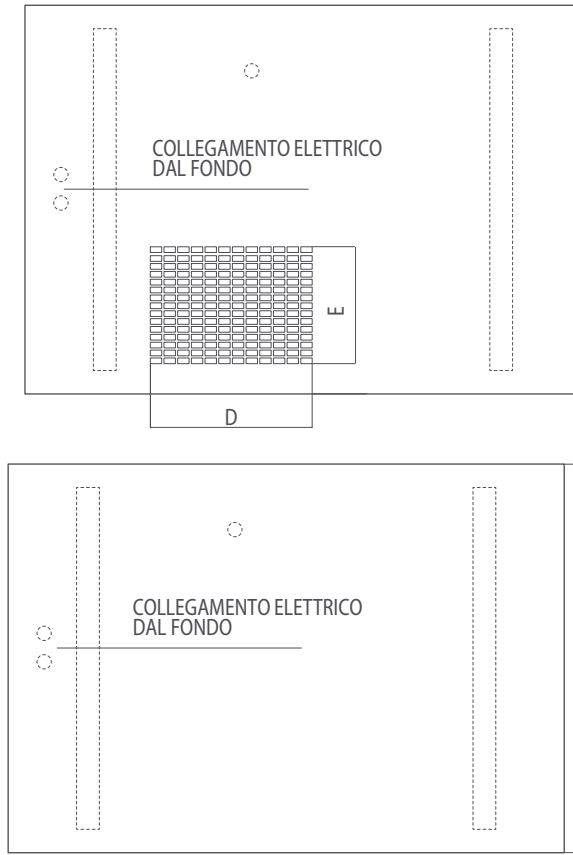
Trolley installation

Ceiling installation

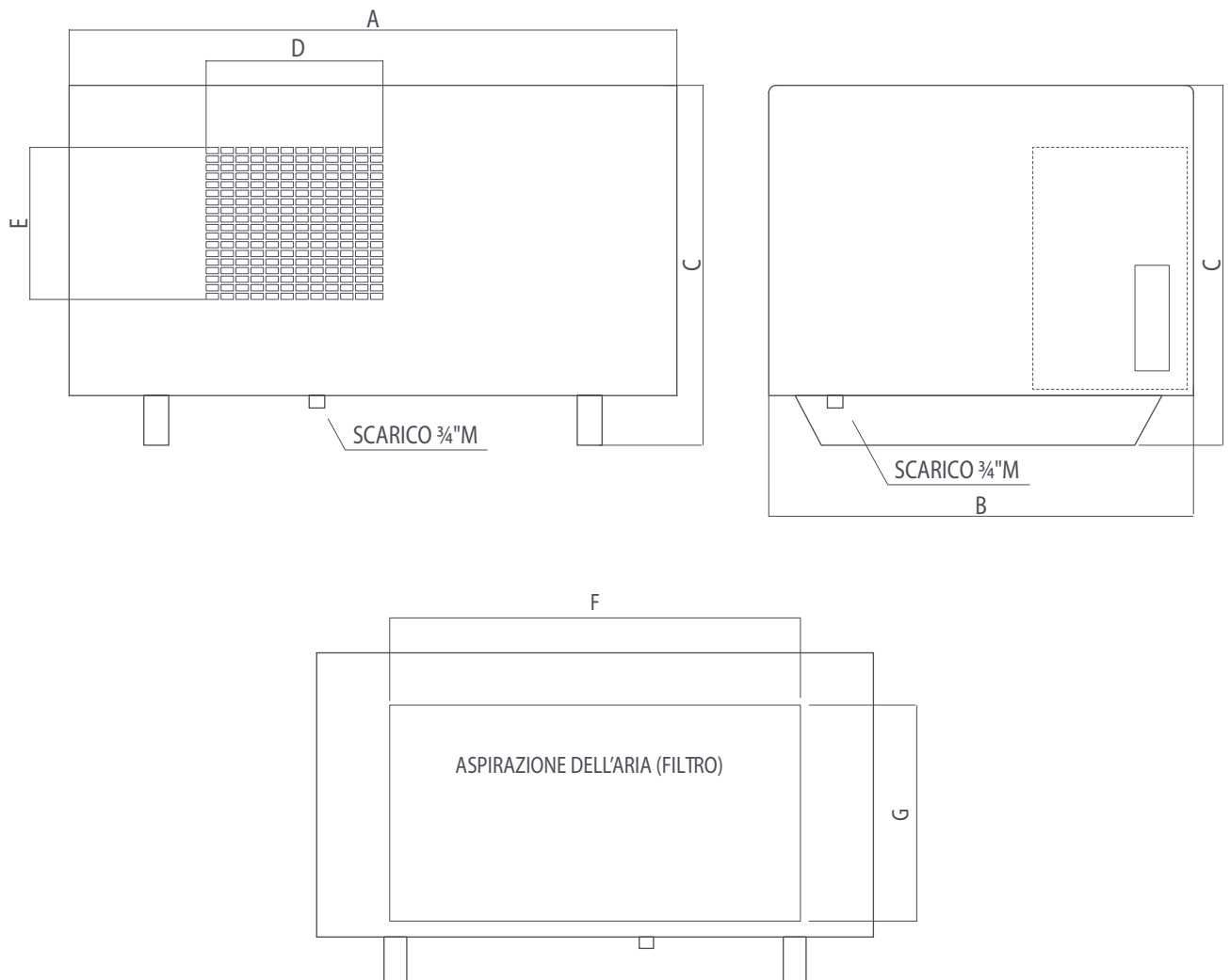
Installation with channels

Wall installation

DIMENSIONAL TOP AIR FLOW



DIMENSIONAL AIR FLOW IN LINE



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Tecnoklima

The manufacturer reserves the right to make improvements to its products without notice. Features may vary depending on changes made for any customizations.