

CONSTRUCTION SITE TRACKED DEHUMIDIFIER

Model KT-58 CAR



Eco-friendly
refrigerant gas
R410A

Professional tracked dehumidifier KT-58 CAR
rated condensation capacity: 44 Kg/24h *

Refrigerating cycle professional air dehumidifiers are planned for professional and semi-professional uses. They are provided with a structure made of epoxy powder painted galvanized steel sheet and four pivoting wheels to ease moving. Dehumidifiers are compact and extremely reliable and they need a very little maintenance. Our refrigerating cycle professional dehumidifiers are entirely assembled in factory, exposed to vacuum cycle tightness test and filled with R410A eco-friendly refrigerant. Our dehumidifiers owe their reliability and versatility to a specific care in the creation of the refrigerating section, indeed they are exposed to a complete functional trial before the shipment. All the devices comply with European Directives, bear the CE mark and are accompanied by a comprehensive instruction booklet with conformity certifications.

* at 32°C and with the 90% of relative humidity



DESCRIPTION

Our construction site dehumidifier is employed for drying materials, for example after painting processes. It is ideal for: new, overflying and restored room dehumidification; drying residential ambients; drying screeds applications for wooden floors. This dehumidifier is also employed in industrial and building fields. Thanks to different kinds of dehumidifiers we are able to supply different solutions for each necessity with fast delivery. All our machines are geared with eco-friendly refrigeration gas to avoid environment damage. The high condensation production efficiency devices of Tecnoklima KT series are also used in places where temperatures are very low because rooms are not warmed, and as a consequence relative humidity is very high. That's why our dehumidifiers are geared with an on board hot gas defrosting system which enables them to work in places such as auto workshops and factories also in winter time. Our technical office can give you technical and marketing informations and costumized evaluations basing on your needs for free.



**RATED CONDENSATION CAPACITY AT 32°C
WITH THE 90% OF RELATIVE HUMIDITY: 44 Kg/24h**

APPLICATIONS

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ACCESSORIES

- Hot gas defrosting
- Condensate drainage pump
- Air filter replacement



TECHNICAL DATA

Voltage	230 V 50 Hz
Related average power consumption (at 20°C, 60% R.H.)	570 W
Power consumption (at 26,7°C, 60% R.H.)	710 W
Max power consumption (at 35°C, 70% R.H.)	810 W
Max absorbed current (at 35°C, 70% R.H.) F.L.A.	3,9 A
Locked rotor current L.R.A.	16 A
Air flow	450 mc/h
Sound pressure level (at 3 mts in free field)	46db(A)
Refrigerant	R410A
Refrigerant quantity	580 gr

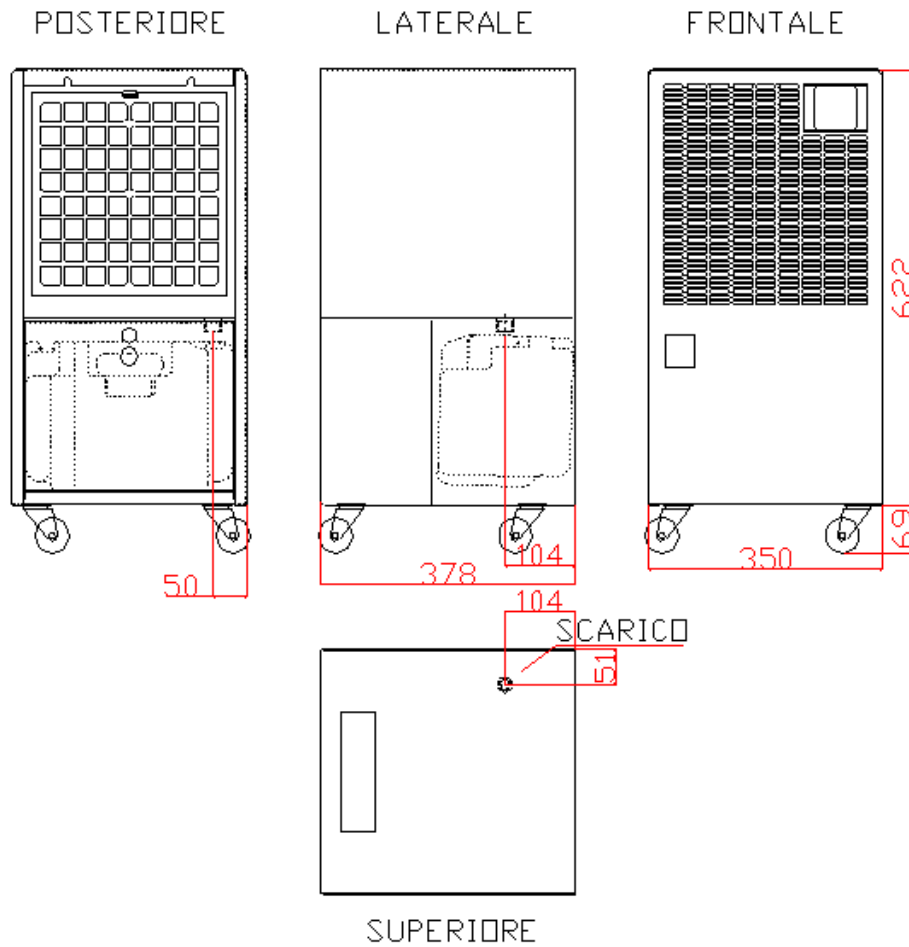
Defrosting control system	electr. + thermost.
Defrosting kind	Hot Gas
Condensed water tank capacity	about 7 lt
Condensed water draining pipe connection	3/4"
Functioning temperature range hot gas defrosting version (model /S)	+1 / +35°C
Functioning relative humidity range for <30°C temperatures	35-98%
Functioning relative humidity range for 30-35°C temperatures	35-90%
Functioning relative humidity range for 32-35°C temperatures	35-70%
Rated condensation capacity (at 30°C, 80% R.H.)	36kg/24h
Rated condensation capacity (at 32°C, 90% R.H.)	44kg/24h
Net weight	39 Kg
Dimensions L x D x H mm	350 X 380 X 740
Compressor	PA82

MAIN PARTS

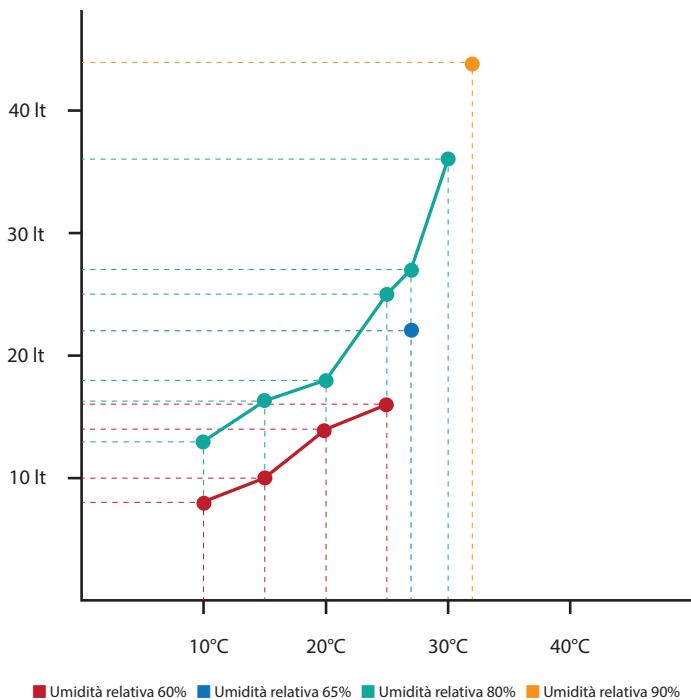


DIMENSIONAL

The KT series dehumidifier is a refrigerated cycle machine which operates on the physical principle for which when the air touches a cold surface it spills the latter transferring humidity in the form of condensation. Basically, the refrigeration unit manatins cold a coil which contains air that grows cold, then heats up and it is issued in the room dehumidified.



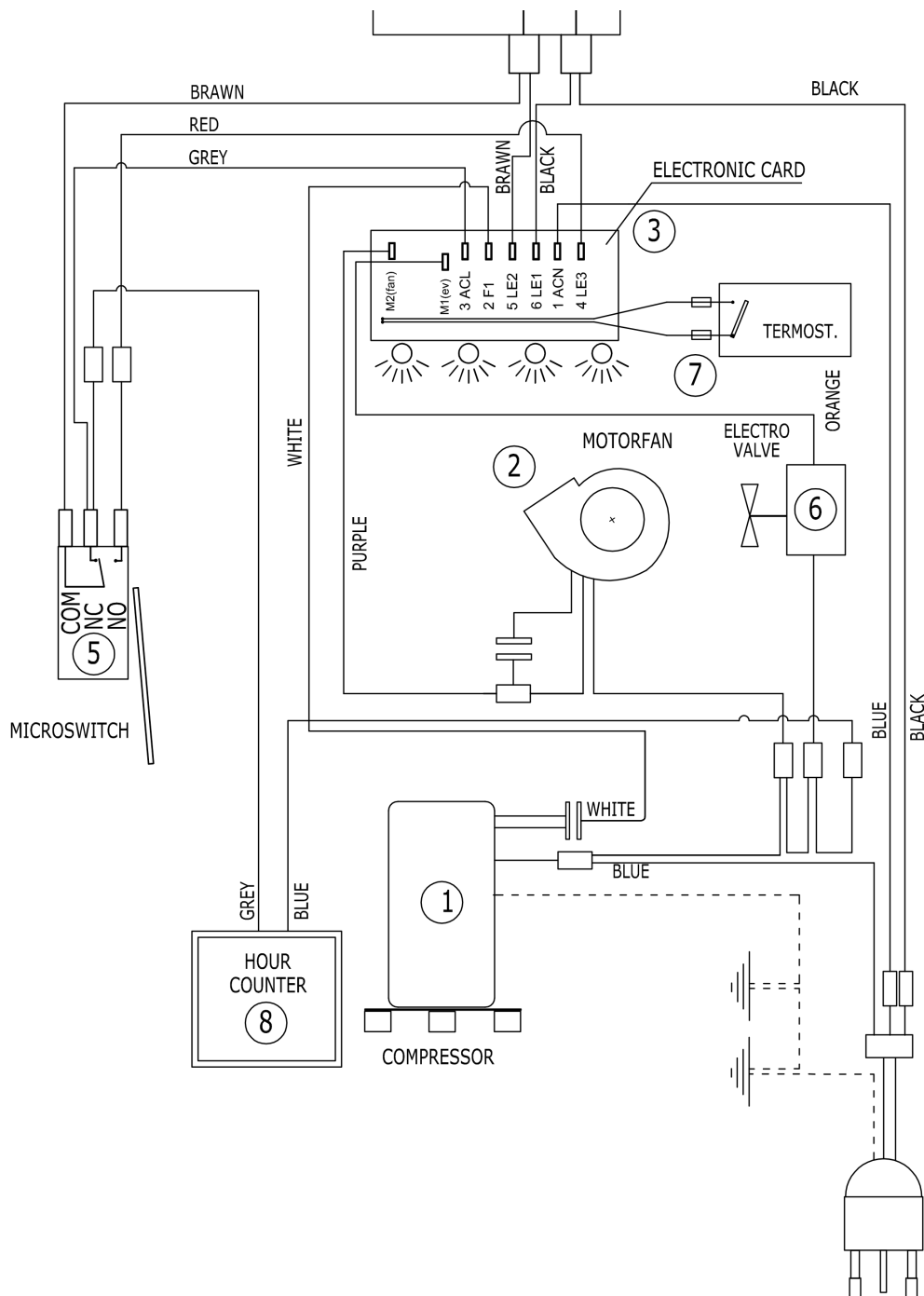
PERFORMANCE



CONDENSED WATER AT DIFFERENT AMBIENT TEMPERATURE AND HUMIDITY CONDITIONS	
Room conditions	Condensed water
10°C - 60%	8 lt/24h
10°C - 80%	13 lt/24h
15°C - 60%	10 lt/24h
15°C - 80%	16 lt/24h
20°C - 60%	14 lt/24h
20°C - 80%	18 lt/24h
25°C - 60%	16 lt/24h
25°C - 80%	25 lt/24h
27°C - 65%	22 lt/24h
27°C - 80%	27 lt/24h
30°C - 80%	36 lt/24h
32°C - 90%	44 lt/24h

WORKING DIAGRAM

Referring to the drawing, the air is inhaled in the back side of the machine and crosses the dust-free air filter [1], the aluminium cold coil (evaporator) [2] and the condenser [3]. Then, the fan [4] dismiss the air through the front grill releasing it in the room. The condensed water is collected in the tank [5]. A microswitch [6] shuts down the dehumidifier when the water in the tank reaches the level which makes the float spring up. In some series instead of the tank with the float the switch is activated by the tank weight while filling. The humidistat [7] allows the dehumidifier operation when the room humidity is higher than the set level. The humidistat activates and disables the unit operation depending on the set relative humidity value. The dehumidifier automatically turns on again when the relative humidity grows beyond the set. An electronic card [8] manages the defrosting periods and prevents compressor [9] close starts.



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Tecnoklima series dehumidifiers must always be placed inside ambiances and are designed to treat clear air, without dust, chemical fumes, oily fogs, strong materials and explosives. All the devices are carefully tested before shipment and comply with European Directives.

They bear the CE mark and are accompanied by a comprehensive instruction booklet with conformity certifications. They have a standard installation procedure which is extremely simple requiring no masonry work except for the simple cleaning of the dust free air filter.