

## WALL RECESSED AIR DEHUMIDIFIER MODEL **KT-1800**

Technical sheet with latest revision 02/2024

Suitable for apartments, houses, villas, residences, hotels, small exhibitions, taverns, homes, second homes, technical studios, offices, meeting rooms, waiting rooms, medical offices and more.



## CODE

<b>Product code:</b>	KT-1800
<b>Supplier:</b>	TECNOKLIMA SRL Via della Repubblica, 1 ABCD 40057 Granarolo dell'Emilia (BO) Italy Telephone (+39) 051/6056846 - 051/6066593 - Fax (+39) 051/761367 Email <a href="mailto:info@tecnoklima.it">info@tecnoklima.it</a> - <a href="mailto:assistenza@tecnoklima.it">assistenza@tecnoklima.it</a> Web site: <a href="http://www.tecnoklima.it">www.tecnoklima.it</a>

## DESCRIPTION

Wall recessed dehumidifiers ideal for radiant panel cooling systems in residential applications. Built-in dehumidifiers designed and built to be inserted into the thickness of the wall; ideal dehumidifiers for homes and offices that adopt an underfloor air conditioning system. Our built-in dehumidifiers are characterized by an extremely refined design. The particular care in assembling the refrigerating part and the excellent yields in terms of humidity condensation capacity mean that our dehumidifiers are also extremely useful in the professional environment, for museums, libraries, laundries, gyms, new and renovated buildings, reclamation in the building sector, but above all suitable for rooms that adopt a floor conditioning system and where a dehumidification work is required with particular care aimed at optimizing the spaces and the aesthetic care of the room itself. Our built-in dehumidifiers are equipped with a post-cooling coil in order to remove the heat due to the compressor and the heat due to the condensation of water vapour. In this way, dehumidified air is returned to the room without temperature variations. They are defined as "retractable professional dehumidifiers" as they can be housed in the thickness of the wall and covered with an elegant white lacquered front panel.

The KT-1800 built-in dehumidifier has been designed to be inserted into the thickness of the walls in order to control the relative humidity in homes or offices, especially in all environments that adopt a radiant floor or wall air conditioning system. Extremely robust, equipped with a galvanized sheet structure, it is tested with the utmost care before shipment. The post-cooling coil it is equipped with allows the air to be dehumidified without substantially changing its temperature. This coil is normally connected to the same cooling water circuit as the climate control system, which must be set up for this purpose. The KT-1500 model may also not be connected to the cooling water circuit without altering the condensing capacity. Characterized by high performance, it uses R134a ecological refrigerant and can be equipped with an on-board or optionally remote control hygostat. The very elegant front grille in lacquered wood can be customized if necessary. Our dehumidifiers must always be positioned indoors, and are designed to treat clean air, free from traces of dust, chemical vapours, explosive atmospheres, oil mists, aggressive materials or other pollutants. The built-in wall dehumidifiers in the various versions must always be installed using the special wall-in frame and the front grille equipped with a dust collector filter.

## CHARACTERISTICS

- Post-cooling battery
- R134a ecological refrigerant
- Wall installation
- Propeller fan
- Latest generation hermetic compressor
- Dehumidifier for residential/professional use
- Suitable for rooms with radiant air conditioning
- Mechanical dehumidifier on board
- Remote mechanical dehumidostat
- Formwork to be walled
- Front grille in lacquered wood
- With post-cooling coil



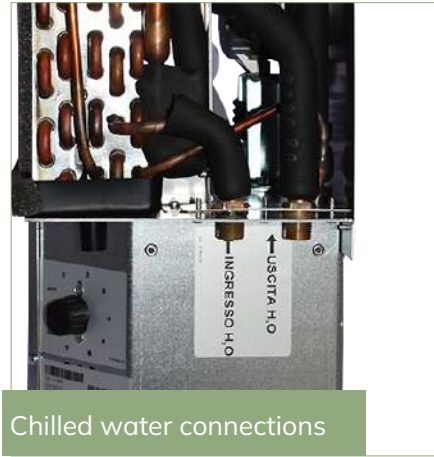
Evaporator



Electronic board



Condensate drain



Chilled water connections



Axial fan

Water temp IN/OUT	23°C - 55%	23°C - 65%	25°C - 55%	25°C - 65%	27°C - 65%	30°C - 80%
16 °C	6,1 l/24h	8,4 l/24h	7,2 l/24h	9,1 l/24h	10,2 l/24h	16,3 l/24h
NW	4,2 l/24h	6 l/24h	5,2 l/24h	7,2 l/24h	7,8 l/24h	13,8 l/24h

The condensing capacities indicate the punctual, instantaneous capacities of the unit, in the absence of defrost pauses normally present in the unit.

	STD	NO WATER
Power supply	230 V - 1 ph - 50 Hz	
Rated Aver. Power Consumpt. (at 25°C, 65%) - Water 16°C	230 W	/
Rated Aver. Power Consumpt. (at 25°C, 65%)	/	240 W
Max Power Consumption (at 33°C, 98%)	300 W	/
Max Power Consumption (at 30°C, 98%)	/	320 W
Max. Absorbed Current (at 33°C, 98%) F.L.A	1.7 A	/
Max. Absorbed Current (at 30°C, 98%) F.L.A	/	1.9 A
Locked Rotor Current L.R.A.	13,0 A	13,0 A
Nominal Air Flow	120 m <sup>3</sup> /h	120 m <sup>3</sup> /h
Suond Pressure Level (at 3 mts in free field)	33db(A)	34db(A)
Refrigerant	R134a	
Defrosting Control System	Elettronico	
Functioning Temp. Range	15-33°C	
Functioning Relative Humidity Range	45/98%	
Weight with metal case	28 Kg	
Dimensions LxWxH	402x203 - h622 mm	
Water Supply Pipe Connection (male)	3/8"	/
Cond. Water Draining Pipe Connection (male)	16 mm	
Cooling water flow rate (inlet temp 16°C)*	100 l/h	/
Water limit working conditions	80-120 l/h 14-18 °C	/
Cooling water pressure drop (nominal flow)	11 kPa	/
Dimensions of wooden front grille LxWxH	670x16 - h466 mm	

Inlet water temperature never lower than +16°C, due to the possible formation of unwanted and dangerous condensation and/or ice phenomena.

**(1) Wall frame**

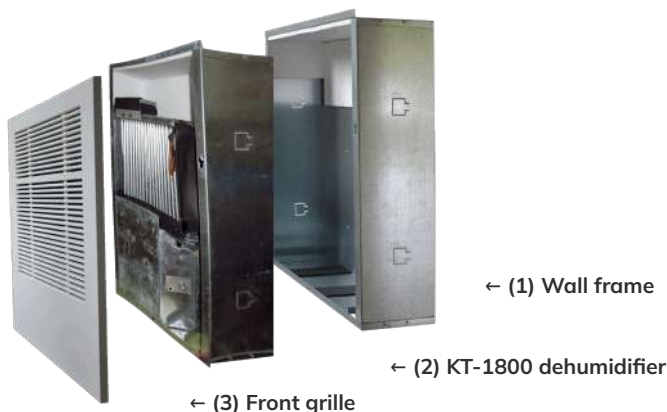
Frame to be walled in pre-assembled galvanized sheet, has clamps for fixing to the masonry (optional).

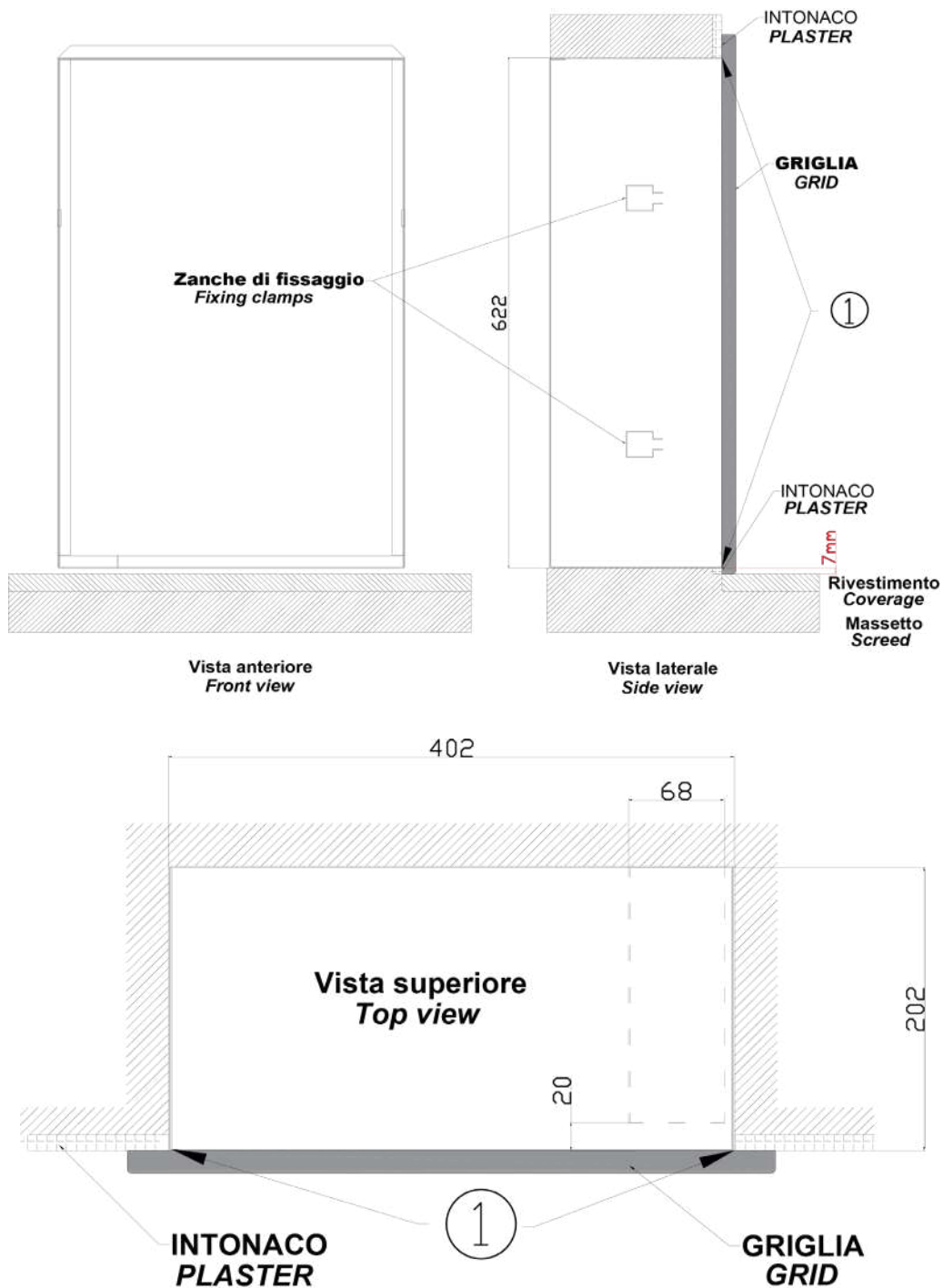
**(2) KT-1800 dehumidifier**

Dehumidifier designed to be inserted in the thickness of the wall in order to control the relative humidity in environments that adopt a radiant air conditioning system.

**(3) Front grille**

Very elegant front grille in lacquered wood, possibly customizable (optional).





TECNOKLIMA SRL

Air treatment for companies and individuals

Administrative headquarters and warehouse:  
Via della Repubblica, 1 ABCD  
40057 Granarolo dell'Emilia (BO) Italy

Telephone +39 051/6056846 - 051/6066593  
Email [info@tecnoklima.it](mailto:info@tecnoklima.it)  
Web [www.tecnoklima.it](http://www.tecnoklima.it)

 **TecnoKlima**

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