

# Small, but oh so...

The cost-effective dehumidifiers for all circumstances – provide optimum protection against dampness and corrosion.



**The ideal dehumidifiers for home, hobby and office!**

### Three dehumidifiers for all circumstances

Whether for valuable objects, archives, collections or items in storage, these compact air dehumidifiers protect against the consequential costs caused by damage from dampness – low-maintenance and effective.

All models are ideally suited for use in offices and living areas. Their castoring wheels and compact construction make them extremely versatile, e.g. for use in unheated garages, wine cellars, archives, storage rooms, utility rooms, or in the loft.

With their dual condensed water removal system these dehumidifiers are also ideal for longer-term, unmonitored use on yachts, in weekend cottages, local shop units, etc.



**Pleasant room conditions – optimum air humidity!**

## Humidity is invisible, but the damage that it causes is not...

If the water content in the air in a room exceeds the safe values for relative humidity, a wide variety of damage can occur.

Also if there are temperature differences between adjacent rooms the moisture contained in the air inevitably condenses in the rooms at the lower temperature.

The first visible alarm signals are usually clammy clothing, musty smells and blotchy walls, or potatoes sprouting in cellars.

Furthermore mildew starts to appear from about 70% humidity.

Requirements for the onset of rust are less demanding – metal corrosion starts to occur from 60% humidity.

So air that is too damp can lead to a variety of problems and expensive heating is not the answer. While the air is heated, it remains damp. Simple ventilation is also no solution, because no moisture is ever removed from the air in the room.

**With the TTK units effective dehumidification is better and more cost-effective!**

### Selected humidity and temperature values for rooms

Rel. humidity	Temperature
<b>Living rooms/workrooms, offices</b>	
50%	at 19-24 °C
<b>Library</b>	
40-50%	at 22 °C
<b>Picture gallery</b>	
45-55%	at 20 °C
<b>Antiques</b>	
45-50%	at 20-24 °C
<b>Books (storage)</b>	
40-50%	at 15-20 °C

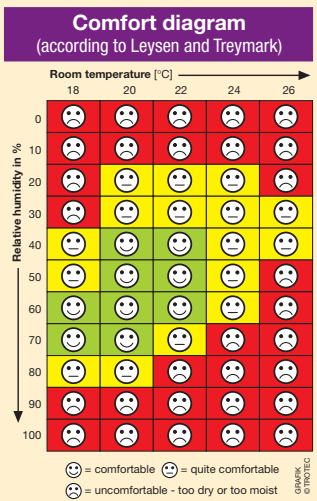


### Comfort is a question of the right air conditions

Comfort cannot be measured, but only experienced. Air conditions that are above or below the optimum are felt to be unpleasant.

Air that is too dry causes irritation to the eyes and mucous membranes, since these dry out and thus become more susceptible to infections.

If the air is too moist (>70%) it provides an ideal environment for the culture of germs and moulds with all their negative consequences for people and their belongings. In the "comfort diagram" shown you will see some selected reactions to various combinations of temperature and humidity.



## Practical help with the selection of your TTK dehumidifier

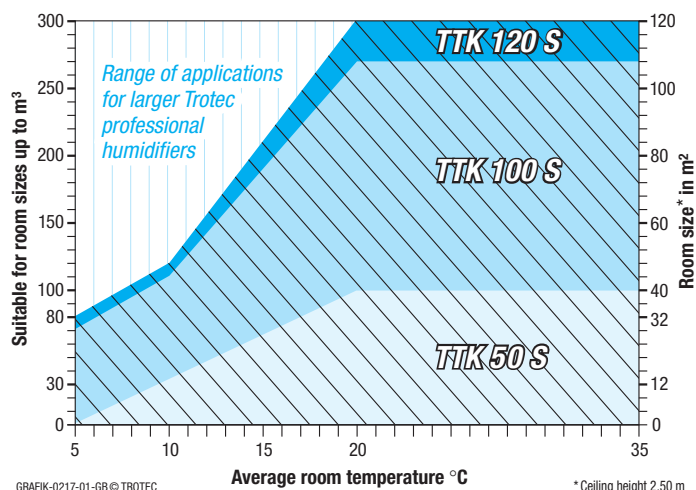
In competitors' products one often finds recommendations regarding suitability in terms of room size data which in many cases relate to theoretical maximum values, e.g. a room temperature of 30 °C with 80 % relative air humidity.

Such values are mostly achievable only under laboratory conditions, and almost never in practical use.

In order that you can select the optimum TTK dehumidifier for your real-life, practical purpose, the following diagram is

based not on theoretically derived data, but on our many years of experience of values obtained in room dehumidification. What really matters when selecting the equipment is always the probable ambient temperature for the premises concerned.

In particular in the case of unheated rooms in which long-term average temperatures of < 15 °C prevail, effective dehumidification requires a unit with a professional defrosting system and a higher compressor performance.



For drying out after water damage, or for use in the drying-out of buildings – in other words in situations where the moisture content is particularly high, you should add an extra 50 % to the room sizes shown in the diagram for your calculations. Room sizes will be halved!

Technical data	TTK 50 S	TTK 100 S	TTK 120 S
Article no.	KT6000715	KT6000725	1.120.000.122
Working range	5 °C to 35 °C	5 °C to 35 °C	5 °C to 43 °C
Dehumidification performance / 24 h	12* / max.15 litres	26* / max. 30 litres	27* / max. 35 litres
Air flow rate	120 m³/h	190 m³/h	510 m³/h
Voltage / frequency	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
Power consumption	0.3 kW	0.62 kW	0.48 kW
Noise level dBA	44 -46	44 -46	56 -59
Water tank	2 litres	5 litres	5 litres
Automatic defrosting	electric	gas	gas
Housing	plastic	plastic	metal / plastic
Dimensions L x W x H / Weight	220 x 310 x 540 / 13 kg	315 x 390 x 620 / 21 kg	315 x 390 x 620 / 23,5 kg

\* 30 °C / 80 % r.H.

### Our tip when buying driers – it's a good idea to make comparisons...

In the small dehumidifier sector in particular there can be large differences in quality – e.g. in the dehumidification performance in the low temperature range (<15 °C). Products that superficially often look similar at first glance, on closer inspection can reveal – particularly when comparing components used – significant differences in quality. We are committed to the quality demanded by our large units, and we do not allow any compromises with the small driers either. Whether in terms of



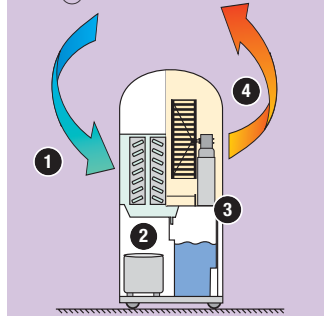
quality of manufacture, dehumidification performance or service life – **with the TTK units you are getting two professional small dehumidifiers with optimum price-performance ratios.** And should a repair be necessary at any time – we carry out the work necessary quickly and reliably in our own service workshop and make available a replacement unit on request – **not the standard of service you might expect, but the standard set by Trotec!**



### Functional principles: reliable and proven in practice

The moist air is drawn in by a fan and fed through the evaporator (1). The evaporator is so designed that despite its low mass a high dehumidification performance is achieved. Here the air gives up a large part of the water vapour that it contains (2).

The condensed water is led into a catchment tank (3), the cold air flows through a heated condenser and from there is fed back as temperate dry air into the room (4).



#### Standard equipment:

- Adjustable hygrostat for constant monitoring of the relative air humidity. If the level set is exceeded the unit automatically switches on. As soon as the required humidity value is reached the compressor switches itself off.
- Warning light to indicate a full catchment tank.
- Overload protection for automatic switch off if the maximum catchment tank volume has been reached.
- Twin condensed water removal system with the option of connecting an outflow hose for continuous drying in unmonitored rooms.
- Easily accessible anti-bacterial air filter – simple to clean. Filters animal hairs, fluff, lint and dust, and prevents bacterial growth.

