

**PRACTICAL ADVANTAGES:**

- Durability
- Robustness
- Reliability
- Extremely high dehumidifying performance
- High value retention

# Mobile dehumidifiers

The TTK professional series stands out with its reliable technology and high drying capacities – even at low temperatures



**Tip: Practical solutions for restructuring specialists...**



*The age-old issue: electric power consumption!*

You wish to read your electric power consumption in kW or euros?



**Keyword "Starting current in old houses!"**

You're looking for a solution for "blown fuses"?

**You'll find a solution**

to fit in the chapter "General accessories" from page 60.

**Tip: TTK + TTSL = professional remote drying monitoring**



Dispense with expensive on-site checks by technicians: With TTSL you can remotely monitor several running drying installations and call up the current humidity, temperature and resistance values from the individual objects at regular intervals. The system informs you automatically by SMS as soon as the wall or floor structures are dry or if one of your appliances has failed. **Sounds interesting? You can find detailed information on TTSL in our theme catalogue "Measurement".**

## Many have tried, we have succeeded: The new TTK professional series is now significantly better than the original!

**TTK – the synonym for technology, tempo, capacity:**

In over 15 years, the TTK professional series has proven which properties one of the best building dryers must possess:

- Durability
- Robustness
- Reliability
- Extremely high dehumidifying performance
- High value retention

*The new TTK professional series follows this concept even more uncompromisingly!*

"Form follows function": that is a fundamental rule of exemplary industrial design that the new TTK professional series also complies with:

**The TTK 200, TTK 400 and TTK 800 have everything that the professional heart desires – and nothing you don't really need!**

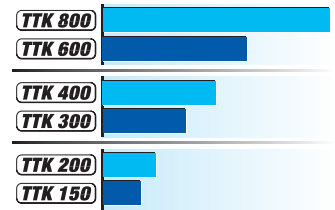
No unnecessary gadgets, which increase costs, decrease reliability or make maintenance and cleaning complicated.

We concentrate instead on what is important; robust technology that stands out through high reliability and extremely high dehumidifying capacities:

Virtually indestructible sheet steel construction for tough daily use with service-friendly screw fittings and maintenance covers that enable the user to carry out cleaning or maintenance work rapidly and minimise downtimes, even after many years.

An optimally matched system of high-quality components, whose combined performance power has been precisely calculated by specialists so that a very high dehumidifying performance is available in every practical situation – even at temperatures under 15 °C.

**Dehumidifying capacity in proportional comparison**



*What is the use of fantastic-sounding dehumidifying values at high temperatures and utopian humidity in product descriptions, if they are virtually impossible in practice?*

Trust our technical know-how where dehumidifying performance is concerned – the experience of thousands of practice-proven dryer installations in tough professional applications lies behind it.

**Tens of thousands of machine hirers, tradesmen, renovators and industrial customers throughout Europe have relied on this strong brand for over 15 years – not without reason has the TTK professional series belonged to the building dryers with the most stable value retention in Europe for over a decade!**

## TTK 200 – Mini-professional with maximum power...



Our best in the **35 litre** class!  
**TTK 200**

### Performance features of the TTK 200

Up to 25 % higher dehumidifying capacity compared to the TTK 150

High dehumidifying capacity – even at temperatures below 15 °C

Extremely quiet

Suitable for rooms up to 250 m<sup>3</sup> for building drying and elimination of water damage

Keeps rooms up to 500 m<sup>3</sup> dry

Usable from 0 °C

Powerful rotary compressor

Service-friendly construction for quick cleaning and inspections

Automatic hot gas defrosting system

Virtually indestructible sheet steel construction

High value retention of the TTK professional series

Transportable in any position – standing or lying – due to TTK compressor technology

Large wheels – easy to handle even over difficult terrain or on stairs

Non-scuffing all-rubber tyres

Easily replaceable and washable air filter

Large 12 litre water collection vessel with overflow protection

The smallest dehumidifier in the TTK professional series belongs to the largest in its class in terms of performance.

In addition to improved performance compared to its predecessor, the TTK 150, and the collection vessel which has been enlarged to 12 litres, the extremely quiet TTK 200 stands out through numerous practical details, which make it a highly effective dehumidifying unit.

The TTK 200 makes itself small after use – due to its compact space-saving dimensions, several appliances can be stored and transported in a small space.

### Condensed water pump kit...

For all areas of application requiring continuous operation of the TTK 200, this fully automatic condensed water pump can be installed quickly and easily, thanks to the innovative “plug & pump” technology.

Installation really couldn't be any easier: Pull out the collection vessel, plug in, insert the kit, tighten the screws, ready!

**Practical:** A ten metre long extendable drain hose is already installed.

The kit is suitable for applications with uphill gradients, long water drainage distances, or for the longer permanent drying of unsupervised rooms.

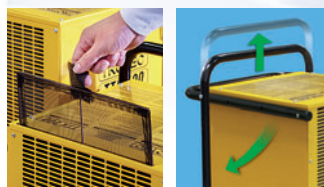
And if you want to work with a collection vessel again between times – the kit can be easily removed again in the shortest time.

## TTK 400 – The flexible all-rounder...



Our best in the **75 litre** class!  
**TTK 400**

**Cost-saving detail:** The air filter is a TTK system component; therefore it can not only be quickly removed for cleaning, but can also be used variably in both the TTK 200 and the TTK 400!



**Practical:** The handle of the TTK 200 and TTK 400 can be placed for ergonomic transport in a horizontal or vertical position as desired.

It was possible to improve the dehumidifying capacity of the successor to the TTK 300 so much that, at its peak, it almost matches the TTK 600.

Its noise level – like that of its “little brother”, the TTK 200 – is nonetheless comparatively low, which makes it suitable also for use in inhabited rooms.

Due to the large wheels and the ergonomic adjustable handle, the transport of both models can be accomplished easily by one person, even over difficult terrain or on stairs.



The TTK 400 is also optionally available in stainless steel finish.



### “Why does the TTK 400 have no water collection vessel?”

You will find convincing arguments in our “technical info” on the water drainage concept of the TTK series on page 13!



For permanent operation, an easy to install condensed water pump kit is available for the TTK 400. Remove the side panel, position the kit, change over the drain hose, close the housing, ready!

### Performance features of the TTK 400

Up to 45 % higher dehumidifying capacity compared to the TTK 300

High dehumidifying capacity – even at temperatures below 15 °C

Suitable for rooms up to 470 m<sup>3</sup> for building drying and elimination of water damage

Keeps rooms up to 940 m<sup>3</sup> dry

Usable from 0 °C

Extremely powerful rotary compressor

Service-friendly construction for quick cleaning and inspections

Automatic hot gas defrosting system

Virtually indestructible sheet steel construction

High value retention of the TTK professional series

Transportable in any position – standing or lying – due to TTK compressor technology

Large wheels – easy to handle even over difficult terrain or on stairs

Non-scuffing all-rubber tyres

Easily replaceable and washable air filter



← Mobile dehumidifiers – further information...

## TTK 800 – The “workhorse”...



### Performance features of the TTK 800

Up to 70 % higher dehumidifying capacity compared to the TTK 600

High dehumidifying capacity – even at temperatures below 15 °C

Suitable for rooms up to 800 m<sup>3</sup> for building drying and elimination of water damage

Keeps rooms up to 1,600 m<sup>3</sup> dry

Usable from 0 °C

Powerful rotary compressor

Service-friendly construction for quick cleaning and inspections

Increased air capacity due to extremely robust high-pressure radial fan

More compact transport dimensions: 25 % less storage space requirement compared to the TTK 600

Flow lamellae for even distribution of dry air in the room

Automatic hot gas defrosting system

Virtually indestructible sheet steel construction

High value retention of the TTK professional series

Transportable in any position – standing or lying – due to TTK compressor technology

Easily replaceable and washable air filter

You can recognise the predecessor model, the TTK 600, in the TTK 800 at a glance. For a good reason: Mature technology, high reliability and extremely high dehumidifying capacity have made the TTK 600 one of the most widely used building dryers in Europe.

True to this ideal, the TTK 800 combines all the advantages of its predecessor with a significantly higher dehumidifying capacity and the well-known retention of value of the TTK professional series.

The TTK 800 is based on the well-proven housing construction of the TTK 600, which we have been able to optimise in many details. The difference is clear above all “under the bonnet” – the new model demonstrates its particular strengths here:

The extremely robust high-pressure radial fan, a powerful rotary compressor and the air flow lamellae are just three of the many innovative details which together enable an **up to 70 % higher dehumidifying capacity** compared to the TTK 600.

A fully automatic condensed water pump is optionally available for permanent operation of the TTK 800.



Flow lamellae and the high-pressure radial fan enable increased dry air distribution in the room parallel to the floor.

## TTK 1500 – The “drying colossus”...



### Performance features of the TTK 1500

Extremely high dehumidifying capacity – even at temperatures below 15 °C

Suitable for rooms up to 1,700 m<sup>3</sup> for building drying and elimination of water damage

Keeps rooms up to 3,400 m<sup>3</sup> dry

Usable from 0 °C

Ultra-powerful compressor

High pumping pressure

Extremely robust manufacture

Service-friendly construction for quick cleaning and inspections

Automatic hot gas defrosting system

Virtually indestructible, plastic-coated sheet steel construction

High value retention of the TTK professional series

Suitable for connection to air duct systems

Hygrostat-controlled automatic drying

Easily replaceable and washable air filter

This condensing dryer has been specially developed for rental applications. Based on the stationary DH 150 BFX model, a robust steel frame with transport rollers has been added.

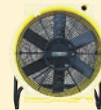
**With a dehumidifying performance of up to 400 litres per day, the TTK 1500 is suitable for drying and keeping rooms dry up to 1,700 m<sup>3</sup> – with just one appliance!**

Due to the standard condensed water pump with overflow protection and fault circuitry, water can be pumped up to a delivery height of 2.5 m into a drain or, for example, through a skylight to the outside.



### Practical tip – faster building drying...

For even faster drying, building dryers should be used in conjunction with fans: Each dryer is thereby supplemented by a fan, which significantly influences the drying performance and thus the drying time. The stronger air circulation leads to faster evaporation, because the faster the air flow speed at the material surface, the faster the drying process will be.



**The drying time can be halved through the combination of dryer and fan!**

Fans can be found on the page 28.

**Note: Oversizing of the dehumidification performance does not produce shorter but longer drying times and therefore causes unnecessarily high electricity and rental costs. We have proved this with various test institutes and universities.**





### Building drying radically reduces heating costs!

#### Practical tip...

Shorter and shorter building times and the increasing use of heat insulating integrated systems mean that the moisture introduced during the building process can no longer dry out totally.

Damage as a result of excessive residual dampness is therefore inevitable.

But even more serious is the fact that heating costs for the user are 200 to 300 percent higher in the first three years than for a dry building due to the moisture-related high heat conductivity.

**Summary: Heating costs are two to three times as high in the first three years after the building is completed if the building fabric is damp!**



## The water drainage concept of the TTK series

In developing the new TTK series, we have placed great value on compactness and flexibility for the widest variety of applications.

*Because the high dehumidification performance of the TTK series dryers enables them to condense their own volume in moisture in a relatively short time depending on the ambient conditions, our technicians were faced with three alternatives in designing and planning the water drainage for the larger models in the TTK series:*

#### Alternative 1 – consistent but unrealistic

To do justice to the high dehumidification performance, very large collection vessels would have had to be integrated, which would have doubled the size of the appliances in principle.

We considered that to be a very unprofessional solution because on one hand, mobility and ease of transport could no longer be ensured and, on the other hand, even these large containers would have to be emptied by hand from time to time.

#### Alternative 2 – cute but unprofessional

In order to be able to use the sales argument “integrated water container” in com-

petition and still keep the unit dimensions as small as possible, the only solution in the designers’ opinion would be to install a container which would be too small for professional operation (e.g. 15 litres).

This would have rightfully resulted in a “thumbs down” from the professionals, because such a container would quickly fill up and turn off the appliance in no time via the automatic power-off.

#### Alternative 3 – the Trotec solution

A lot of technology in a small space, ensuring high mobility in daily use – our designers chose this solution.

**The fact is: Different areas of application each require a different solution for water drainage.**

**Therefore our motto is: Technology inside, water drainage outside.**

*According to the model and type of application, various possibilities are available for water drainage and drying control, e.g. via an external collection vessel with or without a pump or permanent drying by means of an automatic condensed water pump.*

Both a condensed water pump and a hygrostat are available individually or in combination for the TTK 200, 400 and 800.



**Your Advantage:** Every dehumidifier is supplied ex-works with the appropriate upgrade options. In this way, not only new units but also used dryers can be retrofitted later if required.

*We have consciously avoided standard installations in order to be able to offer you the optimum value for money for every application.*

Further information on our water drainage concept can be found in our dehumidifier pages at [www.trotec.com](http://www.trotec.com).



### Practical Tip: all-encompassing drying

Because dehumidifiers are designed for recirculated air operation in closed rooms, the capacity values are based on the maximum size of **ONE room only**; the overall sum cannot be transferred one-to-one to apply to a number of smaller rooms!

**Rule of thumb:** When using only one dehumidifier for drying configurations which encompass more than one room, **half the capacity** values determined for the single rooms and place a **ventilator in each of the rooms** that do not have a dehumidifier. There will then always be sufficient drying capacity.

Technical data		TTK 200	TTK 400	TTK 800	TTK 1500
Article no.		1.120.000.200	1.120.000.400	1.120.000.800	KT6000110
Dehumidification performance 24 hrs	at 20 °C / 60 % r.h.	17 litres	30 litres	55 litres	100 litres
	max.	35 litres	75 litres	150 litres	400 litres
Suitable for room sizes up to	Building drying or water damage elimination	250 m <sup>3</sup>	470 m <sup>3</sup>	800 m <sup>3</sup>	1,700 m <sup>3</sup>
	Dry keeping	500 m <sup>3</sup>	940 m <sup>3</sup>	1,600 m <sup>3</sup>	3,400 m <sup>3</sup>
Operating range temperature		0 °C to 40 °C	0 °C to 40 °C	0 °C to 40 °C	0 °C to 40 °C
Operating range humidity		35 % to 100 % r.h.	35 % to 100 % r.h.	35 % to 100 % r.h.	35 % to 100 % r.h.
Air flow rate m <sup>3</sup> /h		230 m <sup>3</sup>	420 m <sup>3</sup>	940 m <sup>3</sup>	2,200 m <sup>3</sup>
Input voltage		230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	400 V / 50 Hz
Power input ø / max.		0.45 kW / 0.8 kW	1.0 kW / 1.4 kW	1.7 kW / 2.4 kW	1.7 kW / 2.7 kW
Operating current (required fuse protection)		2.8 A (10 A)	6.2 A (10 A)	9.5 A (16 A)	6.75 A (16 A)
Required current starting phase		12 A	20 A	37 A	30 A
Compressor		rotating piston	rotating piston	rotating piston	reciprocating piston
Refrigerant		R 407 c	R 407 c	R 407 c	R 407 c
Sound level (distance 3 metres)		52 dBA	56 dBA	60 dBA	58 dBA
Collecting tray		approx. 11 litres	–	–	–
Dimensions L x W x H		480 x 510 x 720 mm	480 x 510 x 854 mm	585 x 630 x 1,020 mm	660 x 660 x 1,310 mm
Weight		34 kg	42 kg	70 kg	130 kg
Operating hours counter		standard	standard	standard	standard
Air filter		standard	standard	standard	standard
Hygrostat		accessories	accessories	accessories	standard
Condensate pump		accessories	accessories	accessories	standard
Stainless steel model		optional	optional	–	optional

