

*Drying and
keeping dry
are our strong
points: Kroll
dehumidifiers...*

Kroll[®]

**Heating and
ventilating**



Kroll offers a large range of dehumidifiers.

You will find the perfect type to meet any requirement.

The Professional Range T 30–T 120 and the Standard Range T 25–T 85 are used in any application when removal of moisture is required i.e. during building and renovation work, for shortening the drying process, after plastering or when flood damage has occurred.

■ **Operating Method**

Moist air enters the unit via the fan, then it flows through the filter and is cooled when it comes into contact with the surfaces of the evaporator.

As the air temperature reaches the dew point, water vapour, contained in the air, condenses into droplets. Cold air, in contact with the surfaces of the condenser and the compressor, receive heat, coming from the condensation process and from the compressor. Outgoing air has a temperature equal to, or slightly higher than that of the incoming air. The continuous air flows through the unit, provoking a quick drying effect (decrease of relative humidity) in the environment where it is installed.

Kroll Dehumidifiers T 30 – T 120

■ **Mobile:**

Easy to set up, immediately ready for operation, and are extremely quiet.

■ **Automatic hot-gas defrosting:**

This means the efficiency factor is raised and operational interruptions are extremely brief.

■ **Wide operating range:**

From 0° up to 35°C, from 30% up to 95% relative humidity

■ **TE models with additional heating:**

The electric heating increases the room temperature when the weather is cold, thus, improving the dehumidifying capacity.

■ **Long lifetime:**

A resistant filter, simple to clean, increases the unit's lifespan

■ **Further advantages:**

- Magnetic overflow switch
- Ozone-friendly coolant R407 C (CFC-free)
- LED-control, indicating operating state
- Electronic and safety control for fully automatic operation

Important if the appliance is hired:

- Operating hour meter
- Stackable

■ **Useful accessories:**

- Activated carbon filter as an odour absorber
- Hygrostat
- Condensate pump
- Overflow protection for external drip pan



Technical Data		T 30	T 40 TE 40	T 60 TE 60	T 80 TE 80	T 100 TE 100	T 120 TE 120
Dehumidifying capacity	l/24 h*	30	40	60	80	100	120
Air rate	m ³ /h	280	500	750	1100	1100	1500
Operating range of humidity	% RF	30-95	30-95	30-95	30-95	30-95	30-95
Operating range of temperature	°C	0-35	0-35	0-35	0-35	0-35	0-35
Receiver tank	l	11	14	-	-	-	-
Coolant	R 407 C	R 407 C	R 407 C	R 407 C	R 407 C	R 407 C	
Power connection	V/Hz	230/50	230/50	230/50	230/50	230/50	230/50
Absorption of electrical power	kW	0,6	0,65/2,0	0,7/2,7	1,2/2,0	1,2/2,0	1,4/3,4
Width	mm	420	495	620	620	620	620
Depth	mm	870	830	615	615	615	580
Height	mm	545	610	860	860	860	1070
Weight	kg	34	37	49	53	53	58

* at 30°C and 100% RF



Kroll Dehumidifiers T 25 – T 85



■ **Mobile:**

They are easy to handle, easy to transport and of solid construction, thus satisfying every demand

■ **Wide operating range:**

From 5°C to 30°C or 40% – 100% relative humidity

■ **Hygrostat connection:**

The hygrostat measures the degree of humidity inside the room. So the capacity of the dehumidifier can be controlled at its most effective. The appropriate hygrostat is available as an accessory.

■ **Further advantages:**

- Reciprocating compressor in type T 25, rotary compressor for the T 45, T 55 and T 85
- Operating hours meter included on the T55 and T85 models
- Ozone- friendly coolant R407 C (CFC-free)
- Air filter system
- Electronic and safety control for fully automatic operation
- Defrosting system protecting the compressor
- Condensate water receiver tank, equipped to switch the unit automatically off.
- Lead-free powdered coated casing

Technical Data		T 25	T 45	T 55	T 85
Dehumidifying capacity	l/24 h*	23	42	53	88
Air rate	m ³ /h	350	500	600	800
Operating range of humidity	% RF	40–100	40–100	40–100	40–100
Operating range of temperature	°C	5–30	5–30	5–30	5–30
Receiver tank	l	10	10	10	10
Coolant		R 407 C	R 407 C	R 407 C	R 407 C
Power connection	V/Hz	230/50	230/50	230/50	230/50
Absorption of electrical power	kW	0,65	0,8	0,831	1,205
Width x Depth x Height	mm	460 x 500 x 650	540 x 580 x 850	720 x 720 x 950	720 x 760 x 1030
Weight	kg	34	44	57	63

* at 30°C and 80% RF

Kroll Room Dryer T 16, T 24

■ **For multi-purpose use:**

The Kroll dehumidifiers, T16 and T24, keep bathrooms, kitchens, cellars and conservatories, of 60–100 m² in size, permanently dry and thus insuring a comfortable atmosphere.

■ **Compact and mobile:**

Both units are of compact construction and benefit from four castors wheels and therefore are especially suitable for mobile use. They are aesthetically pleasing in appearance and would suit any location. They possess an integrated hygrostat.



Technical Data		T 16	T 24
Dehumidifying capacity	l/24 h*	16	24
Air rate	m ³ /h	98	205
Operating range of humidity	% RF	30–95	30–95
Operating range of temperature	°C	5–35	5–35
Receiver tank	l	3	5
Coolant		R 134 A	R 134 A
Power connection	V/Hz	230/50	230/50
Absorption of electrical power	kW	0,35	0,6
Width x Depth x Height	mm	310 x 246 x 595	300 x 310 x 620
Weight	kg	15	17

* at 30°C and 100% RF

Kroll Side Channel Condensers

■ In new buildings, during renovations or water damage, efficient and controlled drying is necessary. The Kroll SKV is the perfect „specialist“ for this task.

■ The appliance is of solid construction and unifies capacity and endurance inside the smallest-possible space.

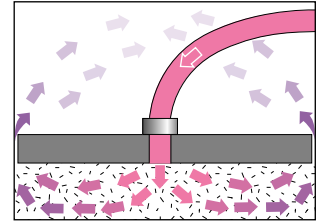
■ There are two drying procedures available to choose from.

■ **Operating Method/Applications:**

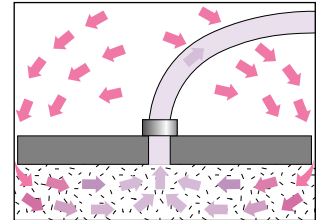
Pressure Operation: The SKV blows dry and warm air in or under the insulation layer, through special openings. The dry air absorbs humidity and is pressurized into the closed room. In the room, a Kroll Dehumidifier takes the humidity out of the air. The water is collected in a recovery-tank. The SKV then re-circulates the dry air and pressurizes it in the insulation layer again. This permanent cycle is repeated until the set degree of room humidity is reached, or until the insulation layer has been completely dried.

Vacuum Operation: The humid air is extracted out of the material to be dried, by means of a vacuum pump; by this suction-effect, the dry air of the room is extracted through the marginal spaces and therefore takes the humidity.

Pressure Operation



Vacuum Operation



■ Dry air, is pressurized into the layer to be dried (pressure operation). The air, full with humidity, is then processed by the dehumidifier.

■ Dry air, under vacuum, is sucked through the layer (vacuum operation). The air, full with humidity, is then processed by the dehumidifier.



The Kroll Side channel condenser accelerates drying.

		SKV 040	SKV 075
Air rate, suction/pressure max.	m ³ /h	90	140
Vacuum max.	mbar	-150	-140
Pressure max.	mbar	+150	+140
Electricity	V/Hz	230/50	230/50

Kroll Water Separator

■ Water Separator to be used in conjunction to the SKV side channel compressor.

■ The connected condenser pulls the sucked air/water (e.g. out of the insulation layer) through the water separator.

■ By its construction, water is collected inside the separator, until the level-regulator switches off the SKV and sets the

water pump into operation, which then pumps the water out of the separator via a water drain. As soon as the water level drops below approximately 1cm in height, the condenser is switched on again and operates until the next pump procedure.

■ Its housing is made of stainless steel.



Max. flow rate of the pump		Connections	Dimensions and weight	
Delivery height	1 m = 138 l/min.	5 pcs. connections 1 1/2" (2 x for coagulant, 3 x for intake), covers with snap closure are included (in case you do not need the connections). Screw thread for sewage (pump connection) with non-return valve.	Height	450 mm
Delivery height	2 m = 120 l/min.		Width	390 mm
Delivery height	3 m = 84 l/min.		Length	600 mm
Delivery height	4 m = 45 l/min.		Weight	27,5 kg

Pros ventilate with Kroll.

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