Manual

Dehumidifier

KT 1130

CE

Perfection is our aim

Wilms®

Introduction

Overview

This manual covers the following type of Wilms portable dehumidifiers:

KT 1130 Order-Number 3111300

Warning **It is the responsibility of the operator to read and understand this service manual and to use the correct operating procedures.**

Read the entire manual before the initial start-up of the dehumidifier. It is important to know the correct operating procedure for the unit and all safety precautions to prevent the possibility of property damage and/or personal injury.

Target Group: The target group for this service manual are the technicians who install, maintain, and exchange parts on the units.
The device can be used by children from 8 years of age and persons with limited physical, sensory or mental abilities or persons who do not have the required experience and knowledge, provided that they are supervised or have received instructions on how to use the device and understand associated dangers. Children are not allowed to play with the device. Cleaning and maintenance by the user must not be carried out by children without supervision.

Reservations: Hans Wilms GmbH & Co. KG reserves the right to make changes and alterations to the product and the service manual at any time without prior notice or obligation.

Contents This service manual covers the following main topics:

General Information

Introduction: This section gives the general information about this service manual and about the unit.

CE EC – Declaration of Conformity

Conformity Declaration: Hans Wilms GmbH & Co. KG - Erftstr. 34 - 41238 Moenchengladbach – hereby declares that the units mentioned below:

Dehumidifier, Type KT 1130
covered by this declaration, is in conformity with the following directives:

2006/42/EG	Directive on the Safety of Machines
2014/30/EU	EMC Directive
1907/2006/EU	Reach Regulation
2011/65/EU	RoHs-Guidline (electric- and electronic cold devices)

as well as in accordance with the following harmonized standards:

DS/EN ISO 12100:2010	Safety of machines
EN 60 335-1:2012	Safety of electrical appliances for use at home or similar purposes
EN 60 335-2-40:2003	Safety of electrical appliances for use at home or similar purposes
EN 60 335-2-40:A12006	Safety of electrical appliances for use at home or similar purposes
EN 378-1:2016	Refrigerating systems and heat pumps - Part 1
EN 378-2:2016	Refrigerating systems and heat pumps - Part 2

Moenchengladbach, 28.02.2021		Jochen Wilms
Place – Date	Signature	Managing Director

Recycling: The unit is designed to last for many years. When the time comes for the unit to be recycled, the unit should be recycled according to national rules and procedures to protect the environment.

General warnings

Warning: The dehumidifiers contain a flammable refrigerant. Take the following precautions, to avoid any danger

Attention

- Please note that refrigerants may not have an odour.

Site requirements (installation and storage):

- The device must be installed, operated and stored in a room with a floor area greater than 4 m². Check if there are any local regulations that you have to observe when installing or storing the device.

- The device must be installed in a room without a permanently active ignition source (for example: open fire, a gas device or electric air-heater in operation).

- Keep the ventilation openings free of foreign objects during operation.

Actions to be avoided (operation and handling)

- Be extra careful when handling the device so as not to cause damage that can lead to a leak in the cooling circuit.

- Use to speed up the defrosting process or to clean no other means recommended by the manufacturer.

- Do not drill or press with an open flame.

In case of fire:

- A fire can produce toxic fumes. In case of fire therefore, you need to leave the room as soon as possible.

Product- and functional description

Introduction: This section will give you a description of the type KT 1130 and the functions:

Principles of operation: The following describes the air flow through the dehumidifier:

The air flow through the dehumidifier.

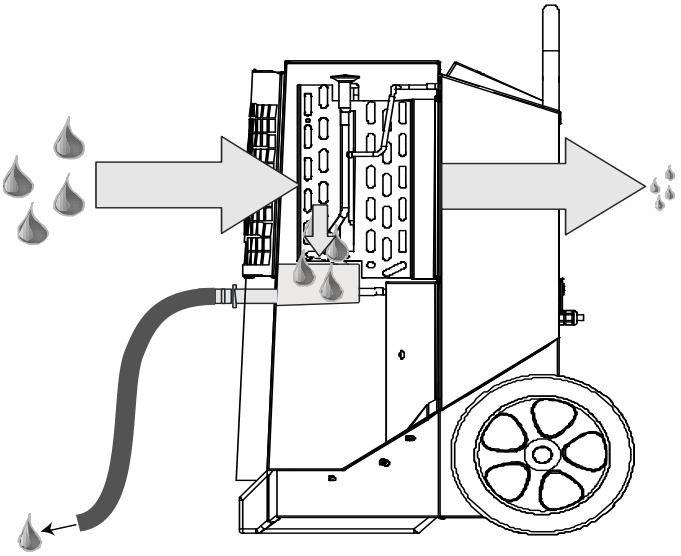
A fan draws in humid air through a filter to the dehumidifier.

↓

The air is cooled down and humidity/water drops are led down to the water tank.

↓

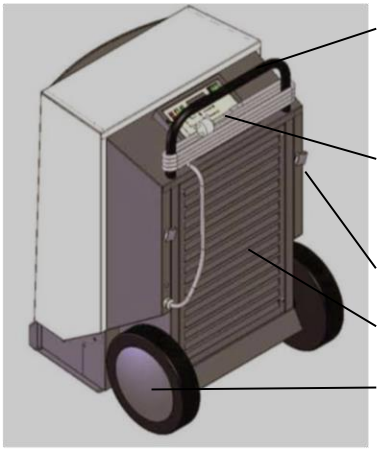
The air is re-heated by e.g. the operation of the dehumidifier (approx. increase in temperature is +5°C/41°F).



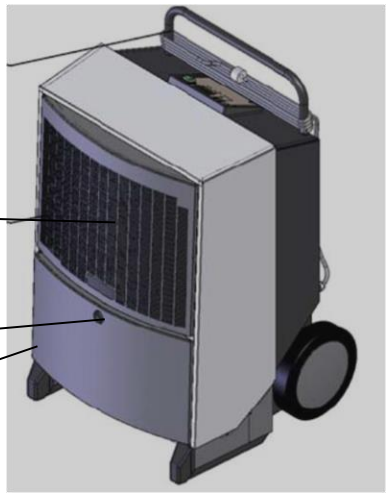
Due to the repeated air circulation through the dehumidifiers, the air humidity is continuously reduced whereby achieving rapid, but gentle drying.

The dehumidifier can operate continuously or it can be controlled by the built-in hygrostat.

Illustration: This illustration gives an overview of the dehumidifier:



Front View



Rear View

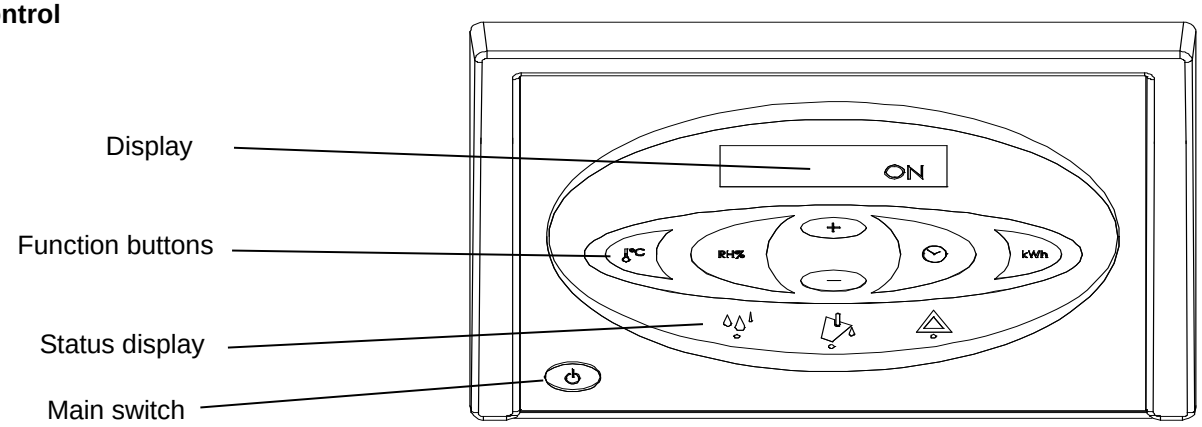
Drain: The condensed water is collected in the integrated drip tray and then about a 1/2'-hose connection is redirected to a drain.
The hose connection should be be mounted directly after unpacking.

to be continued on the next page

Product- and functional description, *Continuation*

Illustration: This illustrates the operator control:

Display/Operator Control

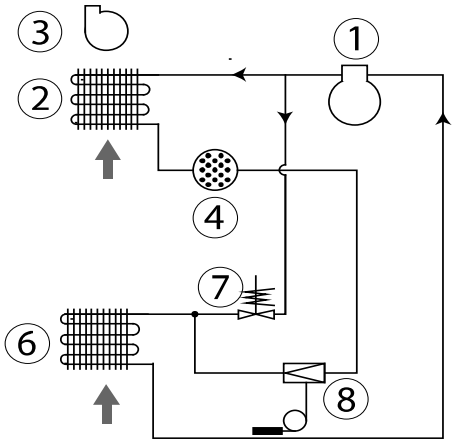


Functions Main functions:

- Manual or automatic operation (built-in adjustable hygrostat)
- Socket for external hygrostat
- Display for temperature, relative humidity, hour meter and kW/h-consumption
- Hour meter and display for consumed kWh without 230V-connection
- Adjustable service interval counter

For correct operation look at the detailed instructions in this manual

Cooling Circuit Diagram



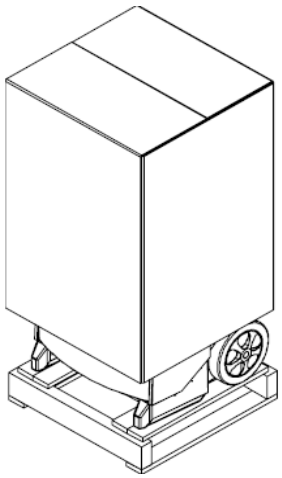
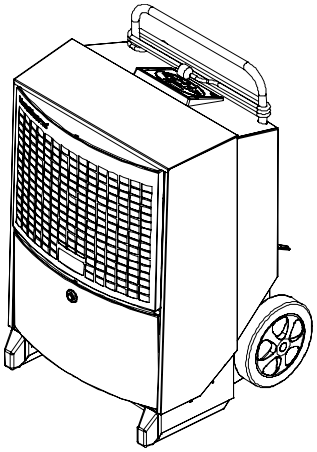
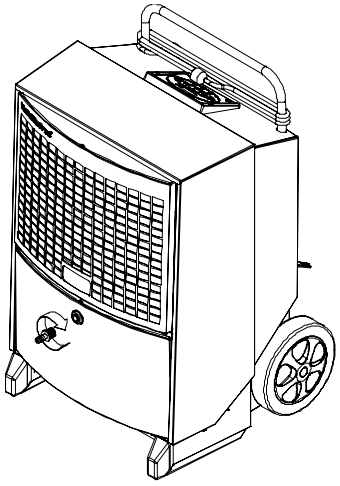
Pos.	Description	Pos.	Description
1	Compressor	6	Vaporizer
2	Condenser	7	Solenoid valve
3	Fan	8	Thermic expansion valve
4	Filter		

Set up and transport of the unit

Introduction: This section provides information required for:
unwrapping the unit, making it ready for use and transportation of the unit.

Warning: If the dehumidifier has been laid down during transport, it is imperative to place it in upright position for at least one hour before put into service!!!

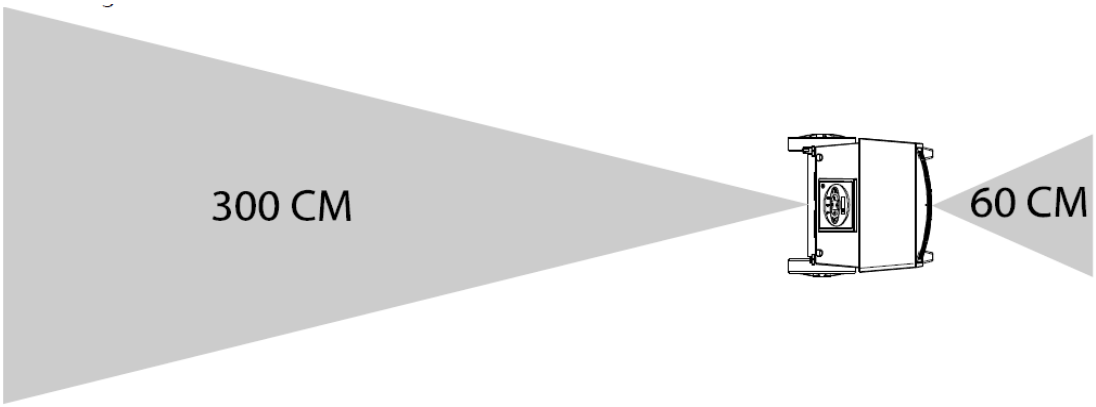
Procedure: Follow these steps to unwrap the unit and make it ready for use:

Step	Action	Illustration
1	Unpack the dehumidifier. Remove carton.	
2	Remove dehumidifier from pallet. The unit can now be set up as described below.	
3	Connect the drain sleeve.	
4	Remove the protective film from the control panel	

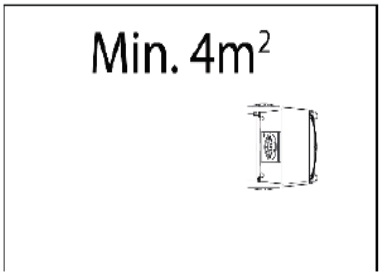
to be continued on the next page

Instructions for set up and transport of the unit, *continuation*

Placing Place the dehumidifier at a spot with good air circulation, where the minimum distance from the air intake side should be 60 cm to the wall and from the air outlet side 3 m.



Location requirements: Since the appliances contain a flammable refrigerant, the following requirements for the location must be fulfilled.



- The device must be installed, operated and stored in a room with a area larger than than 4 m².
  Check whether there are any local regulations that you have to obey when installing or storing of the device.
- The device must be stored in a well-ventilated area, with the room size must correspond to the room areas of 4 m².
- The device must be installed in a room without permanently active ignition sources (e.g. open fire, a gas appliance in operation or an electric air heater in operation).

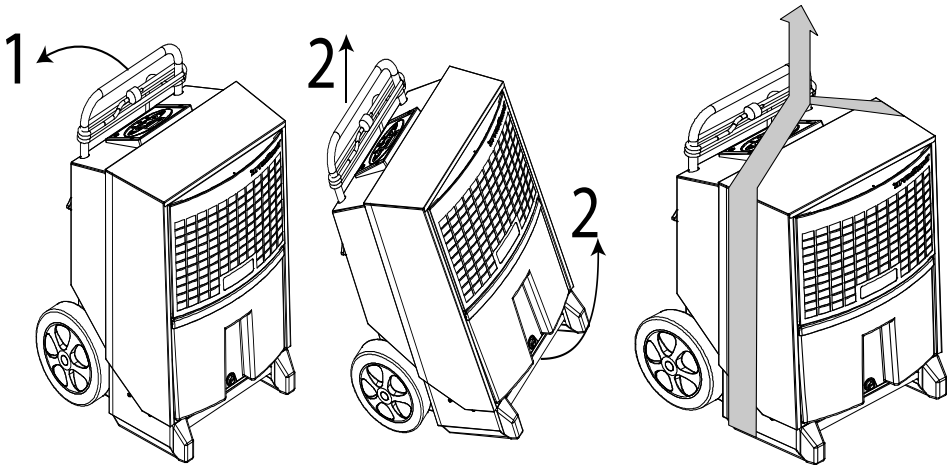
Optimal operation: Make sure that the room to be dehumidified is closed and the device is not placed near a heat source, such as e.g. a radiator.

Electrical Connection: The dehumidifier is complete with a 3,5 m cable and plug and ready for connection to a 230 V / 50 Hz socket. Protect the socket with a 10 A fuse or a 16 A circuit breaker.

Stairs: The wheels are mounted so that the unit can easily be pulled upstairs without damaging the housing or the stairs.

Transport/-Replacing of the dehumidifier: The dehumidifier can be lifted by two persons or with a crane, see instructions below:
Note: Observe local working environment rules regarding heavy lifting.

2 People	Hoist/Crane
	Lift by lifting strap.



Operating Manual

Introduction All functions are controlled from the integrated touchscreen.
The operating instruction contains the following chapters:

On-/Off-Switching and operating status The following table shows the operation of the on-/off-function and the display texts

Push button	Display
	**ON** – Continuous operation **INT HYG ON** – Operation controlled by internal hygrostat **INT HYG STOP**, if the preset value of the internal hygrostat is reached **EXT HYG ON** – operation controlled by external hygrostat **EXT HYG STOP**, if the preset value of the external hygrostat has been reached
	Switching off
	The green LED shows active dehumidification.

to be continued on the next page

Operating Manual, *Continuation*

The following table shows the operation of the hygrostat function and the display texts

Operation of the built-in hygrostat

Step	Button	Explanation
keep pressed		**HYG SET Rhxxx%** - flashes for 5 seconds. Dehumidifier changes then to the operation controlled by the internal hygrostat with preset value (if the preset value has been reached the display shows: **INT HYG STOP**)
press (if it flashes) **hold down**		Shortly press +/- in order to set the relative humidity value in the mentioned 5-second-time (lowest value 40 %). The new value will be stored after another 5 seconds if the last button has been pushed **HYG SET RHxxx% -** flashes for 5 seconds. The dehumidifier switches to continuous operation.
1 x press (if it flashes)		**HYG Off** will flashes. The setting is stored after 5 seconds. The dehumidifier then switches to the continuous operation.

Operation of an external hygrostat

If an external hygrostat has been connected the unit automaticly changes to operation with this hygrostat.

Changes of the preset value can be done only on the external hygrostat.
(If the preset value has been reached the display shows: **EXT HYG STOP**)

Hour meter

The built-in hour meter counts the total operating hours (can not be reset) as well as the hours until the next service which can be changed. The service hour meter is switched off when the unit is delivered.

Step	Button	Explanation
keep pressed		**SERVICE xxxxh** – shows the hours until next authorised service. This value is automaticly stored after 5 seconds of flashing and the function is activated if not already done. When the time for the service intervall has been reached the display shows: **SERVICE**.
		Shortly press +/- in order to preset a new service interval. The new value will be stored 5 seconds after pressing of the last button
press 1 x (if it flashes)		**SET SERVICE OFF** – pressing once more switches the servicetimer function off

to be continued on the next page

Operating Manual, *Continuation*

Display texts The following table shows how to operate the operating informations.

Button	Explanation
	**XX°C** – shows the ambient temperature
	**Actual RH%** - shows the actual relative humidity
	**XX kWh** – shows the total energy consumption. Cannot be reset.
	**xxxxh** – shows the total of operating hours. Cannot be reset.

Text displays without main power The dehumidifier has a built-in battery which makes it possible to read the display also if not connected to a power supply. Without main power the following can be read:

Button		Explanation
	keep pressed	
	**and** press once	shows the total energy consumption in kW/h
	keep pressed	
	**and** press once	shows the total operating hours of the dehumidifier

to be continued on the next page

Operating Manual, *Continuation*

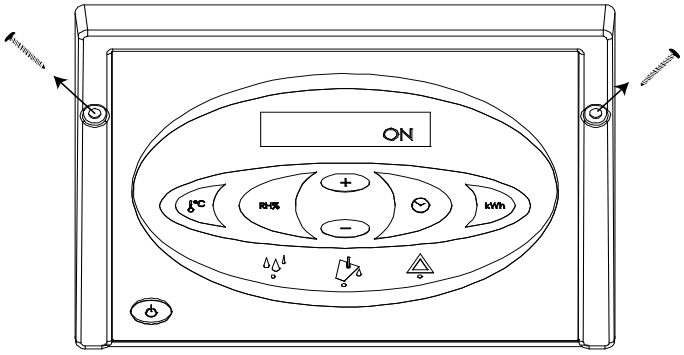
Exchange of the Data store-battery

If the hour meter is separated from the power supply and can no longer be read then the cause is most probably an empty data store-battery.
Procedure how to exchange the battery:

Measure

Warning: Before exchanging the battery make sure that the dehumidifier is disconnected from the power supply

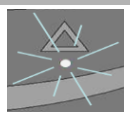
1 Loosen screws on both sides of the touchscreen and lift the touchscreen carefully.



2 Cut the cable strap which holds the battery. Exchange battery and use a new maximum 2.5 mm wide cable strap.
Use only batteries of type Alkaline AAA.
Ilustration of circuit board with battery in the wiring diagramm on page 25.

Fault informations

An overview of possible faults which make a normal operation impossible

Fault information	Illustration	Cause	Remmedy
Red light on right warning-LED **HIGH TEMP** on display		Pressure or temperature in the high-pressure element too high	Check filter and dehumidifier for dirt in the airstream
Red light on right warning-LED **AMBIENT TEMP** on display		Room temperature above normal operating sector	Place dehumidifier in specified temperature sector of 3°-32°C
Red light on right warning-LED **SENSOR FAIL** on display. One of the internal sensors is defective. Use + / - buttons in order to change between 3 possible faults		**SENSOR FAIL** 1: **EVAP FAIL** Thermo sensor of evaporator defective 2: **COND FAIL** Thermo sensor of the condensor defective 3: **ROOM FAIL** Built-in room temperature sensor defective	 Call for authorized service technician Call for authorized service technician Call for authorized service technician
Red light on right warning-LED **LP STOP** on display		Leak in the cooling circuit	Call for authorized service technician

Accessories:

Introduction Further information about each separate accessory is available on request to Hans Wilms GmbH & Co. KG

List A list with illustration, description and part numbers of accessories for the KT 1130 follows:

Accessory	Illustration	Description	KT-Type	Part.-No.
Hygrostat		Hygrostat with cable and jack plug	KT 1130	3102004

Preventive Maintenance

Warnings Proper maintenance of the unit is necessary in order to achieve trouble-free operation.

Important! Always disconnect the power cable from the unit before doing any preventive maintenance.

This product contains a flammable refrigerant. Before working on the system, carry out security checks to reduce the risk of fire to a minimum.

- No open fire.
- No electrical ignition sources (open electrical contacts).
- No mechanical ignition sources (grinding processes).
- No combustible material near the workplace.
- Good ventilation of the area.
- Check the presence of refrigerants.

Other security measures

- Technicians and others working on site must be instructed in the nature of the work to be carried out.
- The area around the workstation must be separated.
- Place a "No Smoking" - sign around the separation.

If hot work must be carried out on the refrigerant equipment or other related parts, you have to have suitable fire extinguishing equipment at hand.
(Powder extinguisher A,B,C. CO2 extinguisher.)

Inspection by the operator: The inspection checklist has been developed for operators for preventive maintenance. No special skills are required for this service check. The checklist contains information:

- which components need to be inspected.
- on the frequendy of inspection (**A**nnual, **M**onthly, **W**eekly, **D**aily).
- how the inspection is to be carried out.
- criteria for acceptance or non-acceptance.

Annual maintenance or maintenance according to service interval counter: Return the dehumidifier to an authorised service centre at the end of the service interval or or at least once a year.
The device is carefully maintained and inspected there, for leaks in the cooling system and tested for electrical safety.
Wilms also offers fixed service contacts where these devices can be repaired.
For more details, please contact your nearest Wilms dealer.

What to do?	Frequency	Procedure	Criteria	√	D	X
User guide Is the user manual in the local language available?	D	Visual	Acceptance: User manual is available			
Labelling						
Type plate	Y	Visual Check that all labels are readable and in their original form without any damage or changes.	Acceptance: Labels are readable. Non-acceptance: The labels must be replaced if they are damaged or unreadable.			
Part.-No.	Y					
Inspection identification	Y					
Warnings	Y					
Electrical equipment: Power cord						
Plugs and cables	M	Visual. Check that plug and cables have no damage.	Acceptance: No damage or breakage of plugs and cables.			
PE plug (grounding)	M	Visual Check that plug on the cable to the power outlet fits. (Grounding).	Acceptance: Plug fits the mains socket. This is properly grounded.			
Electrical equipment: Internal wiring Pay attention to hot survaces! Remove the front grille and check the cabels inside the device.						
Assembly	Y	Visual Check that all connections are fastened and connected correctly to the clamps.	Acceptance: Cables plugged into clamps.			

Checklist User

Checklist

User

What to do?	Frequency	Procedure	Criteria	√	D	X
Plugs and cables	Y	Visual Check that plug and cable have no damage or breaks.	Acceptance: No damage or breaks from plugs and cables.			
Does the operating hours meter work?	Y	Visual	Acceptance: Start dehumidifier, check that the hour meter works.			
Display		Visual	Acceptance: Lighting in the display; display is readable.			
Housing of the dehumidifier						
Cleaning	M	Visual	Acceptance: Clean, free of oil and dirt.			
Free passage through the ventilation openings.	M	Visual	Acceptance: The ventilation openings are free of dust and dirt.			
Deformation, cracks or breaks	Y	Visual , Measuring tape	Acceptance: Deformation < 500 mm deep. Openings between the plates < 5mm.			
Fixation and damage of the handle.	Y	Manual review	Acceptance: No loose or missing screws. No obvious damage to the handle. The handle can be easily pushed up and down. The handle cannot go up and pushed down when the knurled screws are tightened.			
Seals	Y	Visual	Acceptance: Seals are complete and have no cracks.			
Visual inspection of the wheels.	Y	Visual	Acceptance: The wheels run free - without obstacle. No obvious damage to the treads.			
Front and rear filter grid. (Function and fastening)	Y	Visual	Acceptance: The filter is mounted. The blow-off grid is mounted and fixed with 4 screws.			

Checklist User

Checklist

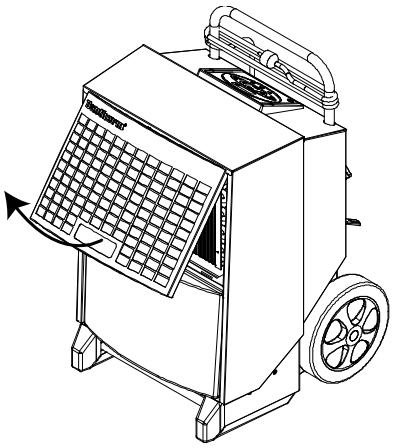
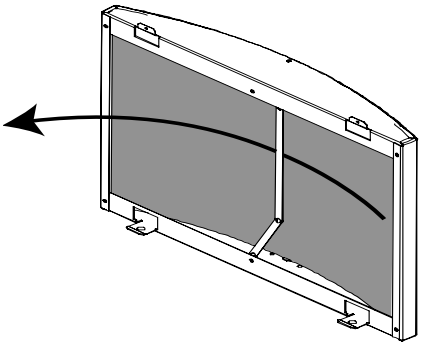
User

What to do?	Frequency	Procedure	Criteria	√	D	X
Water drainage						
Is the drain nozzle free from the drip tray?	Y	Fill with water and check that no water remains in the drip tray.	Acceptance: Free passage in the drain nipple is given.			
Control box: Start/Stop	M	To start the dehumidifier, press and to turn off press again.	Acceptance for starting: The dehumidifier starts after 2 sec. Acceptance for switching off: The dehumidifier switches off after 2 sec.			
Cooling circuit						
Is the insulation okay?	Y	Visual	Acceptance: The insolation is complete and has no holes or cracks.			
Leaks on the pipes	Y	Are the pipes undamaged and without signs of corrosion? Accumulates oil at the bottom of the compressor? Are there other signs of leaks on the compressor or in the cooling circuit?	Acceptance: Pipes are undamaged,without corrosion or dents. No oil accumulates at the bottom of the compressor.			
Does the cooling circuit work?	Y	Start the dehumidifier and check that the surfaces get cold.	Acceptance: The surfaces become cold.			

Checklist User

What to do?	Frequency	Procedure	Criteria	√	D	X
Are the heating-/cooling surfaces clean?	Y	Remove air filter and check visually heating-/cooling surfaces	Clean dirty surfaces with a soft brush.			
Are the slats without damages?	Y	Remove air filter and check visually.	Bent slats are straightened.			
Ventilation						
Are the fans clean?	Y	Visual	Acceptance: Clean, free of oil and dirt.			
Does the fan run freely - without obstacles?	Y	Visual	Acceptance: The fan runs freely - without obstacles, when turned by hand.			
Are the filters clean and without damages?	Y	Visual	Acceptance: Clean, free of oil and dirt.			

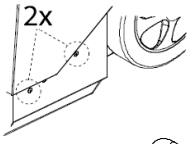
Monthly Inspection: Please follow this procedure to carry out the monthly preventive maintenance:

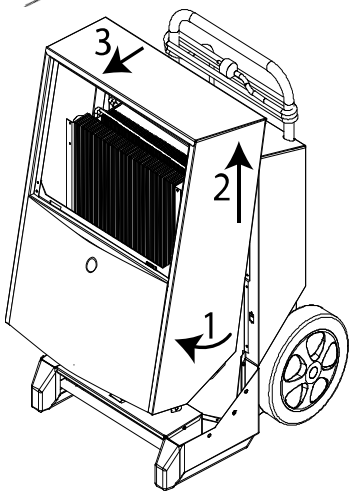
Step	Measure	
1	Open the front grill by tilting it outwards.	
2	Remove the filter, either rinse it with lukewarm soapy water or vacuum-clean it if the filter is only a little dirty. Change the filter if it is very dirty. See chapter Spare parts.	

to be continued on the next page

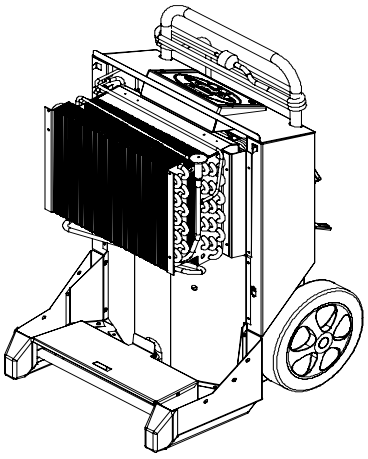
Preventive Maintenance, *Continuation*

	Step	Measure
Monthly Inspection, *Continuation*	4	Remove the two screws on both sides 1. Open the cover by approx. 5° 2. Lift the cover 1-2 cm until its loose from the housing 3. Pull the cover carefully over the hose nipple

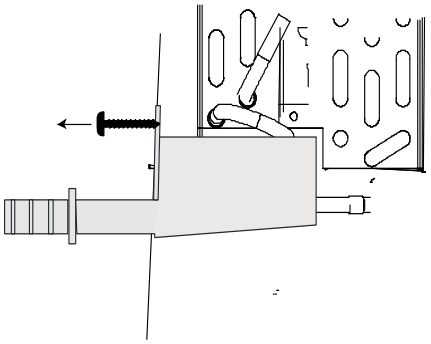




	6	Clean the evaporator coil by brushing with a soft brush, a vacuum-cleaner or with compressed air.



	3	Remove both TX20-screws on the front of the dripping bowl, remove and clean the bowl. **TIP:** When putting the dripping bowl back into place, make sure that the rear edge of the dripping bowl is placed on the edge insides of the dehumidifier.



	4	Put cover back in place by running it through the hose connection and then lift them over the upper edge of the housing.

During the monthly maintenance do **NOT** reset the service interval counter.

Fault finding and solving

Use this table to identify and remedy a problem or fault:

Fault finding and fault solving:

Problem	Cause	Action
• The unit does not start • Display not switched on	No power input	Check that the power cable is correctly connected to power source and unit If the power cable is connected, check the branch fuse
• Unit does not work • Green control lamp illuminates • **HYG STOP** shown on the display	Hygrostat has sensored a relative humidity which is below the preset value and has shut off the unit to save energy	Reduce preset value of the hygrostat or change to manual operation Refer the chapter about use of built-in hygrostat on page 9
• Red control lamp illuminates	Fault which results in operation interruption	Refer table of manual on page 11 about fault reports
• Dehumidifier operates • Green control lamp illuminates • **SERVICE** flashes in display	Time for service interval is run off	Maintain the dehumidifier as described in the chapter about the service interval counter
• Dehumidifier operates • When RH% is activated the display shows **SENSOR FAIL**	RH%-Sensor defective	Replace RH%-Sensor
• kWh and operating hour are not on display without main power supply	Data-store-battery empty	Exchange battery refer page 11

Note!

- If the unit is not working correctly, shut it down immediately!
- Wait one minute before starting to locate the fault as the electronic equipment may have switched off the dehumidifier for safety reasons (Fuse).

Further help:

Contact a dealer if the dehumidifier does not start again. This is also applicable when the dehumidifier is operating without extracting water which is probably a defect in the cooling circuit. Contact a service technichian to remedy the defect.

Technical data:

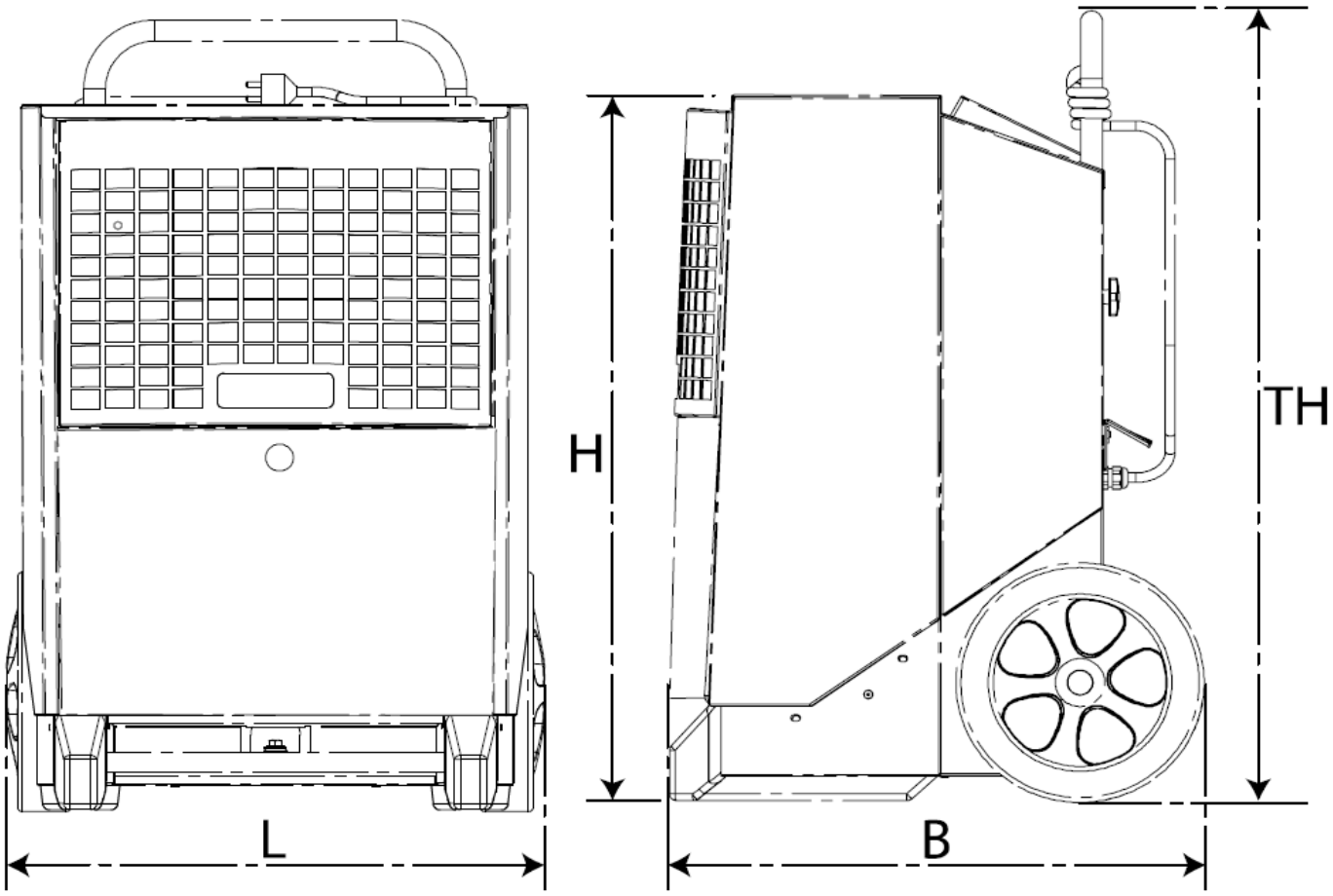
General data: **The following table provides general technical data:**

Data	Norm	KT 1130
Operating range – humidity	%RH	40 -100
%RH – hysteresis	%RH	4
Operating range – temperature	°C	3 – 35
Power supply	V/Hz	230/50
Max. amperage	A	8,3
Max. input	kW	1,9
Air output	m³/h	1000
Refrigerant	-	R454C
Refrigerant charge	kg	1,6
Dehumidifying capacity 35°C – 80 % RH	l/24 h	105
Noise level 1 m distance	dB (A)	62
Weight	kg	62
Safety class	IP	x 4
Filter	PPI	15
kW/h-display accuracy	%	± 5%
GWP factor		146
CO2 equivalent	t	0,23

Hermetic system. Contains fluorinated greenho

Measurements:

Illustration



Pos.	Size
L	635 mm
W	615 mm
H	896 mm
TH	980 mm

Disposal

The device is designed for long-term operation. If it is to be disposed off, this must be done in an environmentally friendly manner in accordance with all relevant legal regulations.

Refrigerant This product contains flammable refrigerant.
Before disposal, empty the refrigerant using the following procedure:

Handling:

1. Disconnect the device electrically from the mains.

2. Before starting work, ensure that:
   - if necessary, mechanical auxiliary devices for the handling of refrigerant cylinders are available.
   - all personal protective equipment is available and used correctly.
   - the recovery process is continuously monitored by a competent person.
   - recovery equipment and cylinders comply with the appropriate standard.

3. Use only appropriate refrigerant recovery cylinders and set sure that they are on a scale before recovery takes place.

   - Do not mix refrigerants in recovery units and specially not in the cylinders.

4. Start the recovery machine and operate it according to the instructions of the manufacturer.

   - Do not overfill cylinders. (No more than 80 % of the maximum possible filling quantity)
   - Do not exceed the maximum working pressure of the cylinder, even temporarily.

5. When the cylinders are filled correctly and the process is complete, attach a sticker indicating that the system:
   - is decommissioned.
   - no longer contains a refrigerant.
   - make sure that the equipment is provided with stickers indicating that the equipment contains a flammable refrigerant.

   The sticker must be dated and signed by the responsible technician.

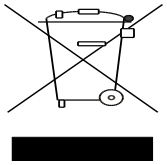
6. Make sure that the cylinders and equipment are immediately removed from the site and that all shut-off valves on the equipment are closed.

7. Recovered refrigerant must be returned to the refrigerant supplier.
   - Do not pour recovered refrigerant into another refrigeration system unless it has been cleaned and checked.

Batteries/ Electronics

Electrical and electronic devices and their batteries contain substances, components and substances that may harm human health and the environment, if the waste is not disposed off properly.

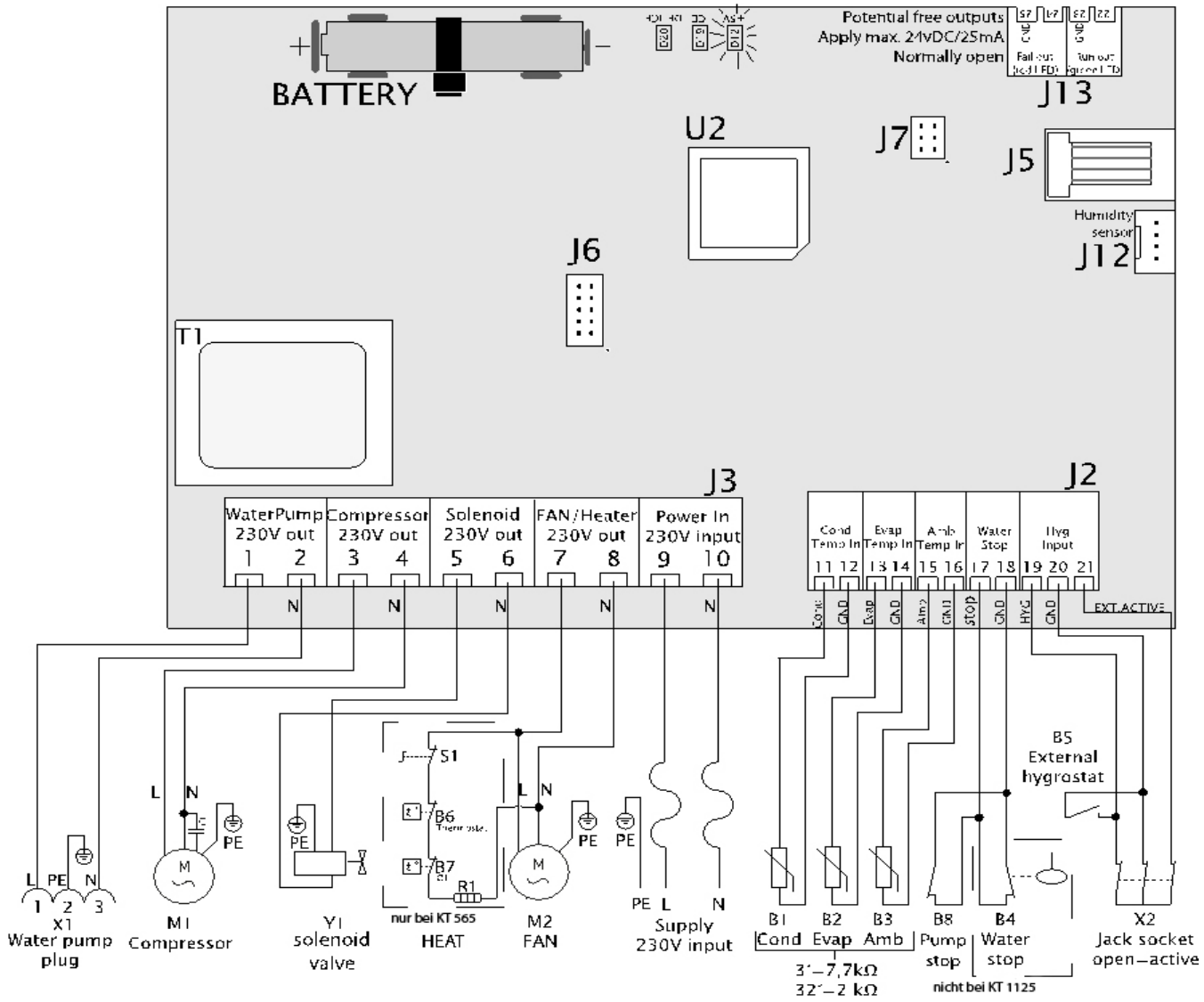
Electrical and electronic equipment and batteries are equipped with a crossed garbage can. This means that electrical and electronic devices and batteries are not combined with household waste, but must be collected separately.



Some batteries are also with the chemical signs Hg (mercury), Cd (cadmium) or Pb (lead). These are particularly harmful substances.
Therefore, it is very important that such batteries are collected on an approved collection point. In this way, you help to ensure that the batteries are recycled in accordance with legal regulations and do not unnecessarily harm the environment.

This product has a built-in data-store battery. If your local authorities have a collection point or recycling center where electrical and electronic equipment and batteries are accepted, dispose off the products and its battery there.
For more details, contact your local authorities.

Wiring Diagram KT 1130



Pos.	Description	Pos.	Description
B1	Temperature sensor for the condensator area	J6	not in use
B2	Temperature sensor for the evaporator area	J7	Manufactory settings
B3	Ambient Temperature sensor	J12	Internal hygrostat
B4	na : not available	J13	Aditional exit
B5	External hygrostat (optional)	M1	Compressor
B6	na : not available	M2	Fan motor
B7	na : not available	R1	na: not available
B8	External pump alarm (optional)	S1	na: not available
D12	LED + 5V DC control	T1	Transformer
D19	LED Ice on evaporator	U2	CPU
D20	LED de-icing activated	X1	Plug for condensation pump
J2	Low voltage connections	X2	Bushing for external hygrostat
J3	230V-connections	Y1	Solenoid valve for pressure compensation
J5	not in use		

Spare Part List KT 1130

Pos.	Part No.:	Description	Each
1	3110203	Front grip including filter	1
2	3110204	Filter	1
3	3110214	Cover for front	1
4	3110210	Front housing complete	1
5	3103860	Humidity sensor digital	1
6	3110103	Evaporator	1
7	3110230	Condenser	1
8	3103830	Gasket for switch board cover	1
9	3103878	Control	1
10	3103861	Top for electric box	1
11	3103862	Control panel	1
12	3110224	Cable 3,5 m	1
13	3110212	Solenoid valve	1
14	3103815	Coil for solenoid valve	1
15	3110201	Fan blade 350 mm	1
16	3108219	Fan bracket	2
16 a	3103887	Bracket	2
17	3108104	Fan motor	1
18	3110206	Exhaust grid	1
19	3110205	Handle	1
20	3110232	Compressor	1
21	3110235	Dry filter	1
22	3110208	Axle	1
23	3110209	Foot	2
24	3103870	Washer	2
25	3103867	Wheel	2
26	3103868	Lock washer	2
27	3103869	Wheel cover	2
28	3110221	Condensate shell	1
29	3110220	Bushing	1
30	3110234	Thermostatic valve	1
not shown	3110216	Hose Adaptor	1
not shown	3102016	Hygrostat connector	1
not shown	3103167	Dampener sensor 2600 mm	3
not shown	3103885	Bracket for humidity sensor	1
not shown	3110233	Capacitor	1
not shown	3102039	Schrader valve	1

Exploded View KT 1130