



MICROWELL

SK - MOBILNÉ PRIEMYSELNÉ ODVLHČOVAČE
OBSLUŽNÝ a MONTÁŽNÝ NÁVOD

CZ - MOBILNÍ PRŮMYSLOVÉ ODVLHČOVAČE
MONTÁŽNÍ a UŽIVATELSKÝ NÁVOD

PL - PRZENOŚNE OSZUSZACZE PRZEMYSŁOWE
INSTRUKCJA OBSŁUGI i MONTAŻU

HU - MOBIL IPARI PÁRÁTLANÍTÓK
HASZNÁLATI UTASÍTÁS és MŰSZAKI DOKUMENTÁCIÓ

DE - MOBIL INDUSTRIELUFTENTFEUCHTER
BEDIENUNGS -und MONTAGEANLEITUNG

EN - MOBILE INDUSTRIAL DEHUMIDIFIERS SERIES: "T" AND "TE"
OWNER 'S & INSTALATION MANUAL

RU - МОБИЛЬНЫЕ ПРОМЫШЛЕННЫЕ ОСУШИТЕЛИ ВОЗДУХА
РУКОВОДСТВО ПО УСТАНОВКЕ И ОБСЛУЖИВАНИЮ

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Warning! Keep the appliance standing when moving it about, otherwise the compressor may be damaged.

Transport damages must be noted on the forwarders receipt and signed by the driver. Your dealer must be notified of any technical damage before the appliance is assembled and set into operation. The heater is only be started up after competent repair.

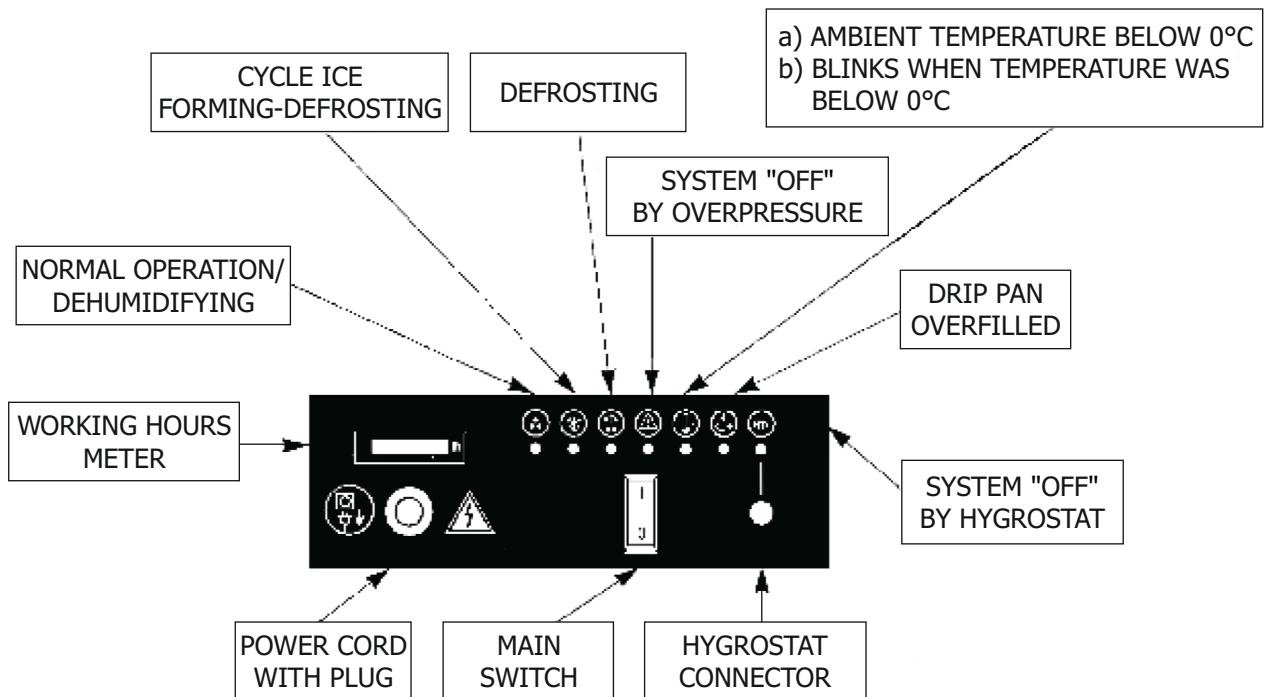
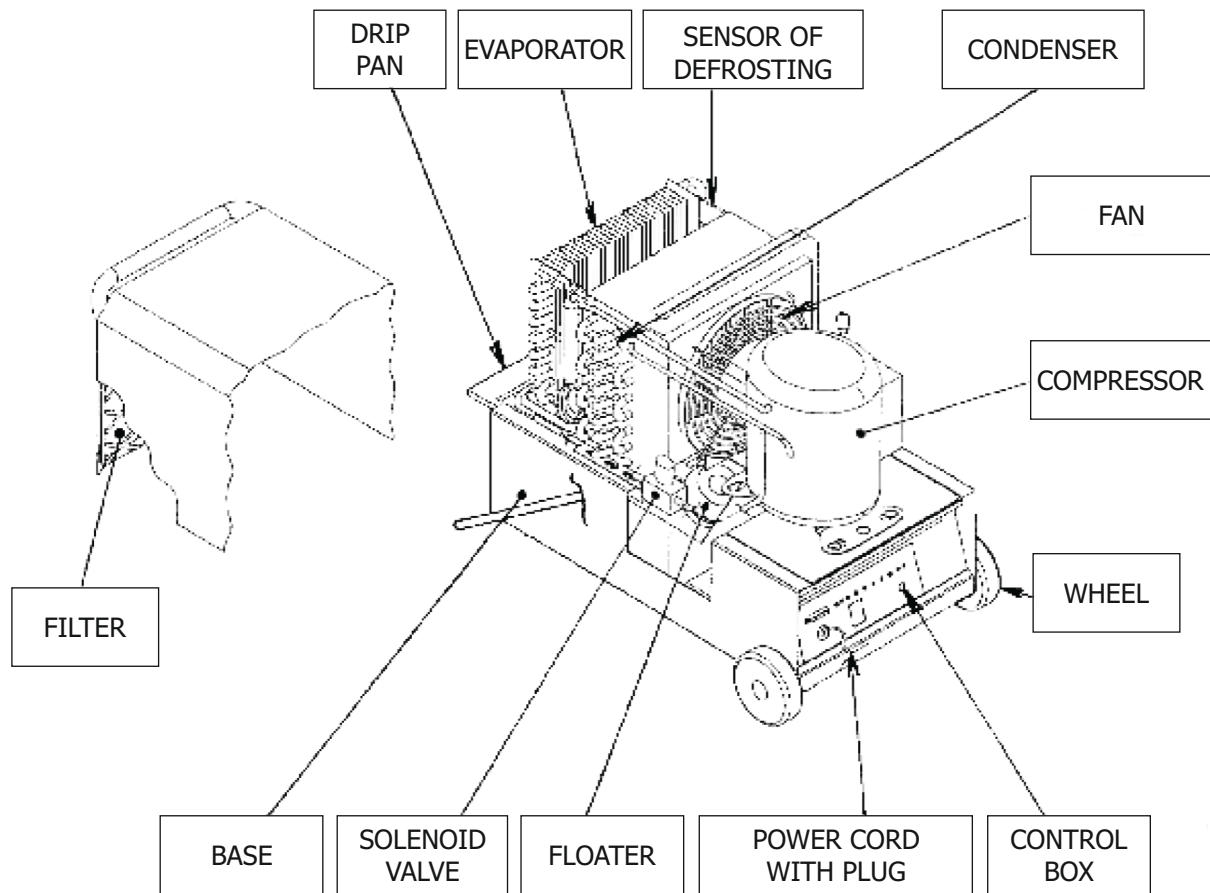
SCOPE OF APPLICATION

- To dehumidify the air in all rooms, cellars, living or professional localities (exception: stables)
- As a security factor for stocking critical goods like paper, cardboard carton, foodstuff, coasts etc.
- As rust protection for metals
- To dry rooms and floor wet-cleaning, for paint and paper hanger 's works
- To dehumidify humid rooms like for example swimming pools
- To dry damages due to humidity (flood damage, inundation)
- The recommended humidity for living rooms is about 50 % at 20 - 22 °C

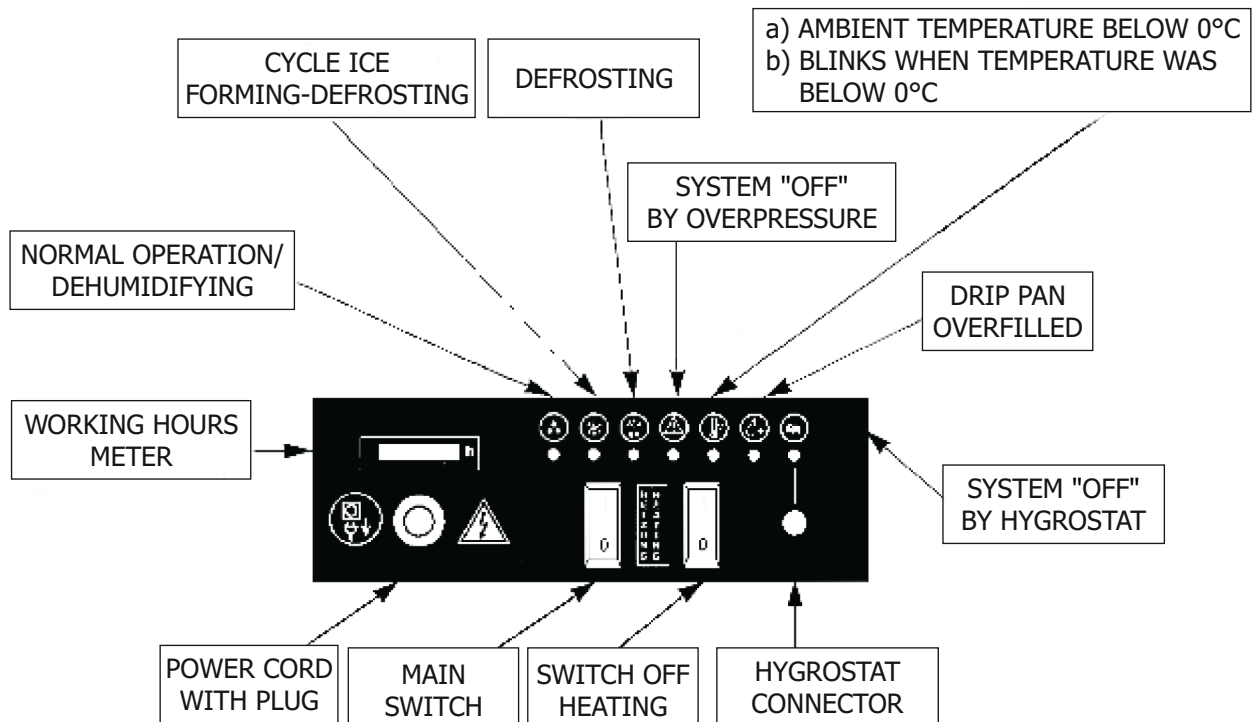
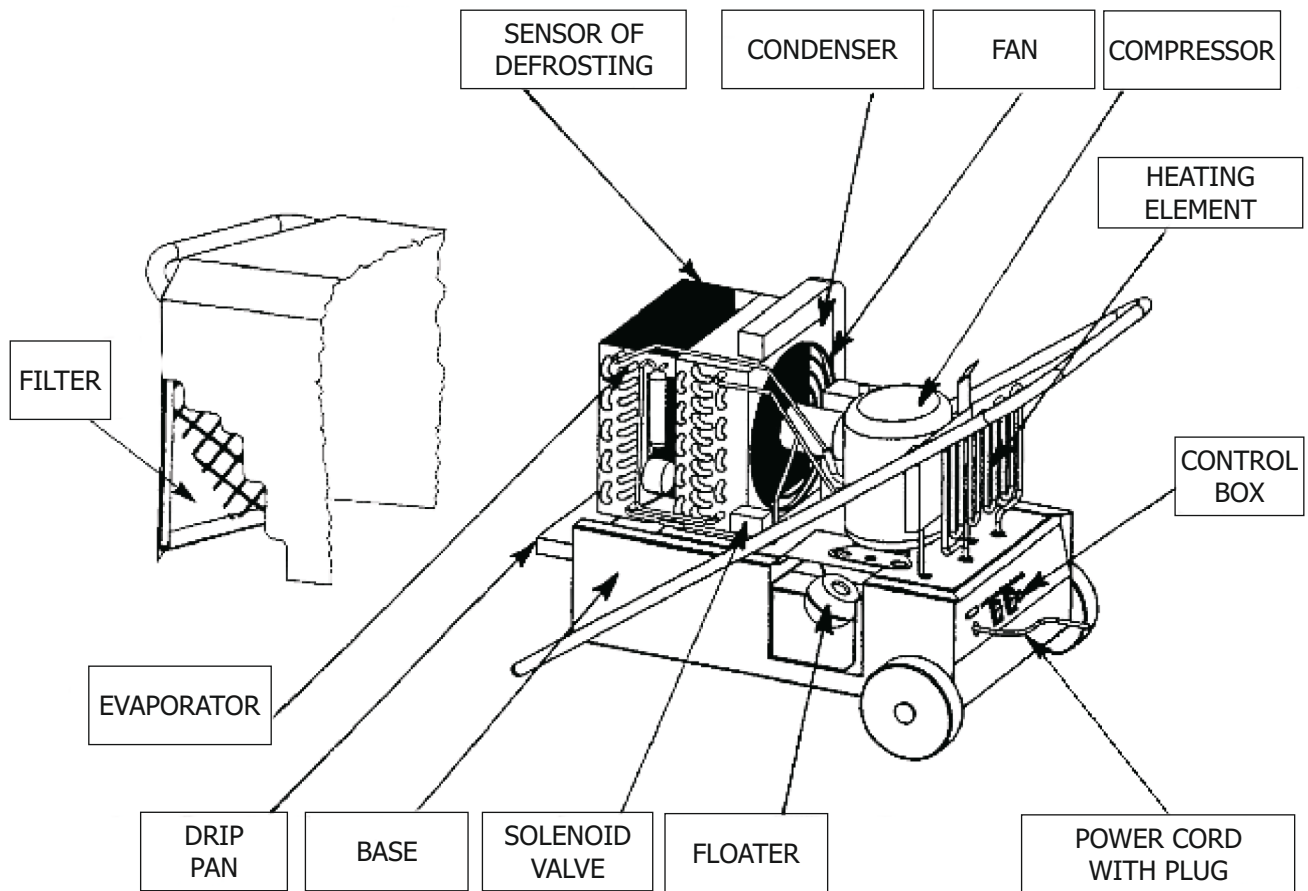


OVERALL VIEW

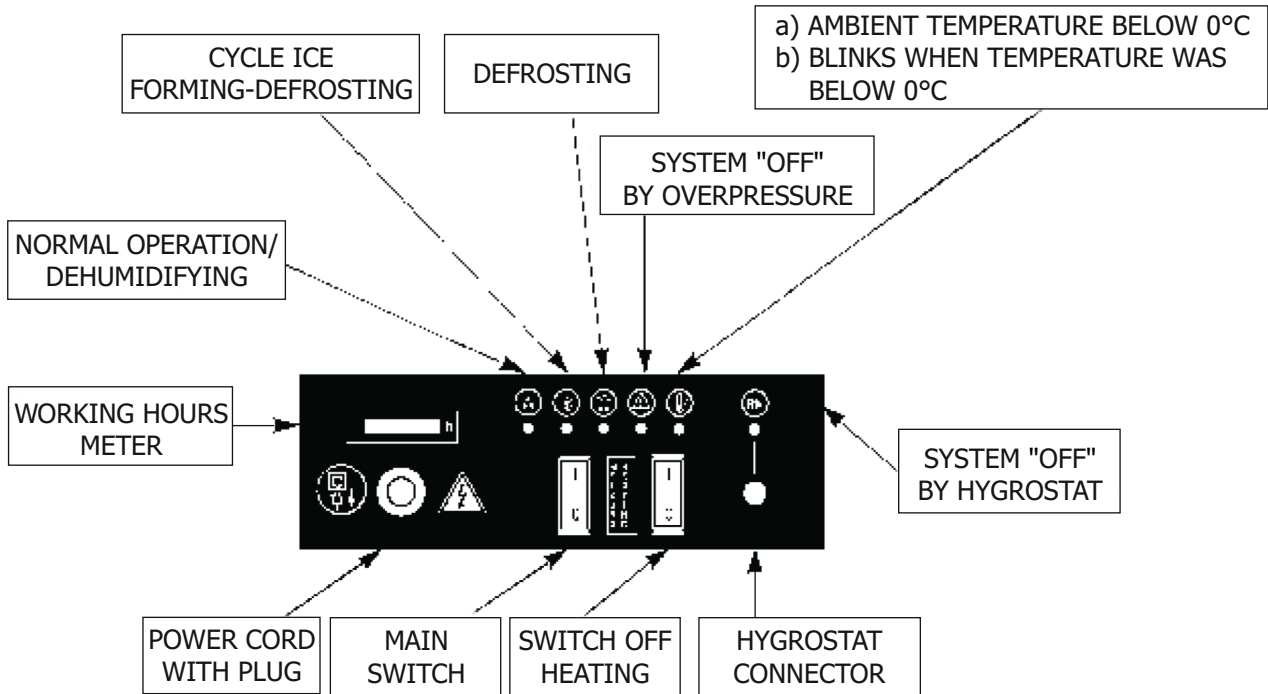
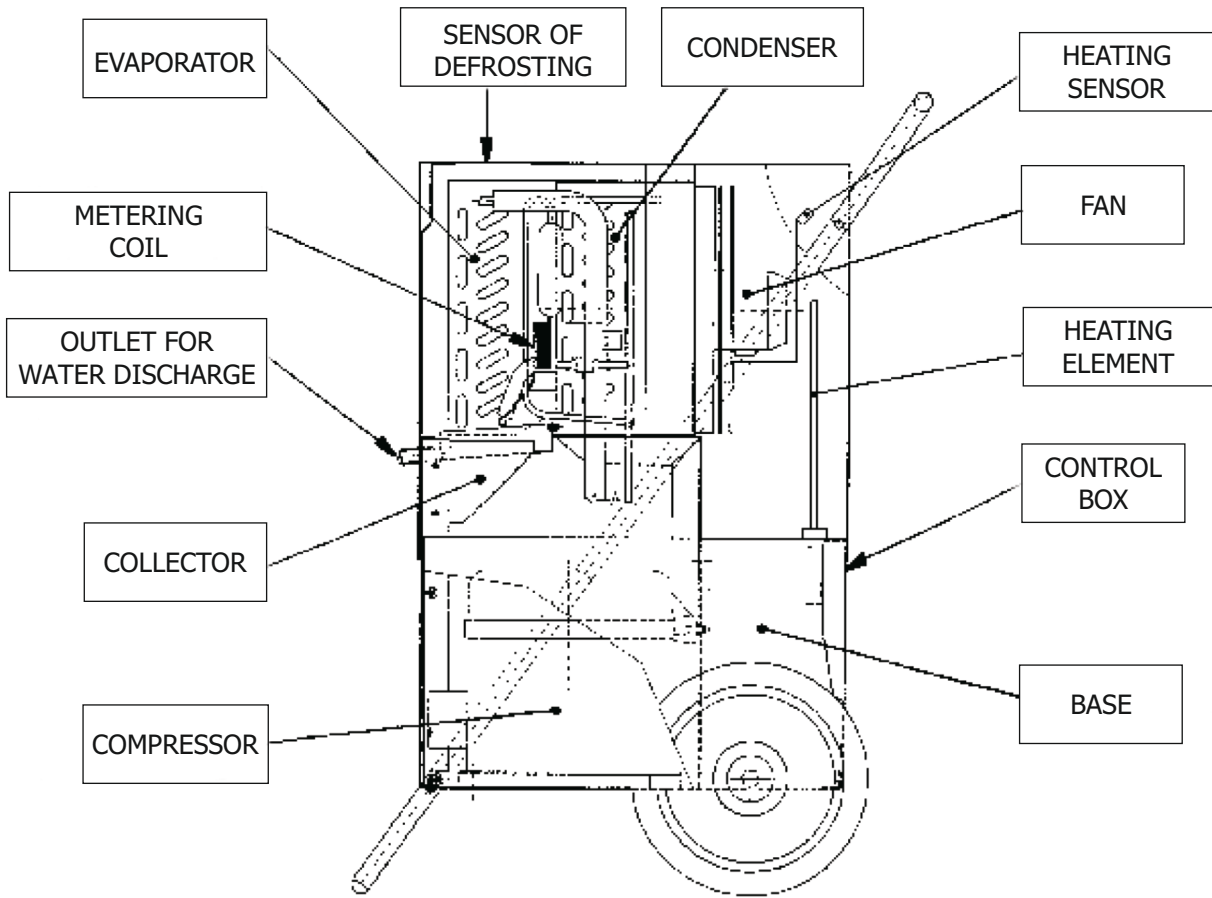
T20/30



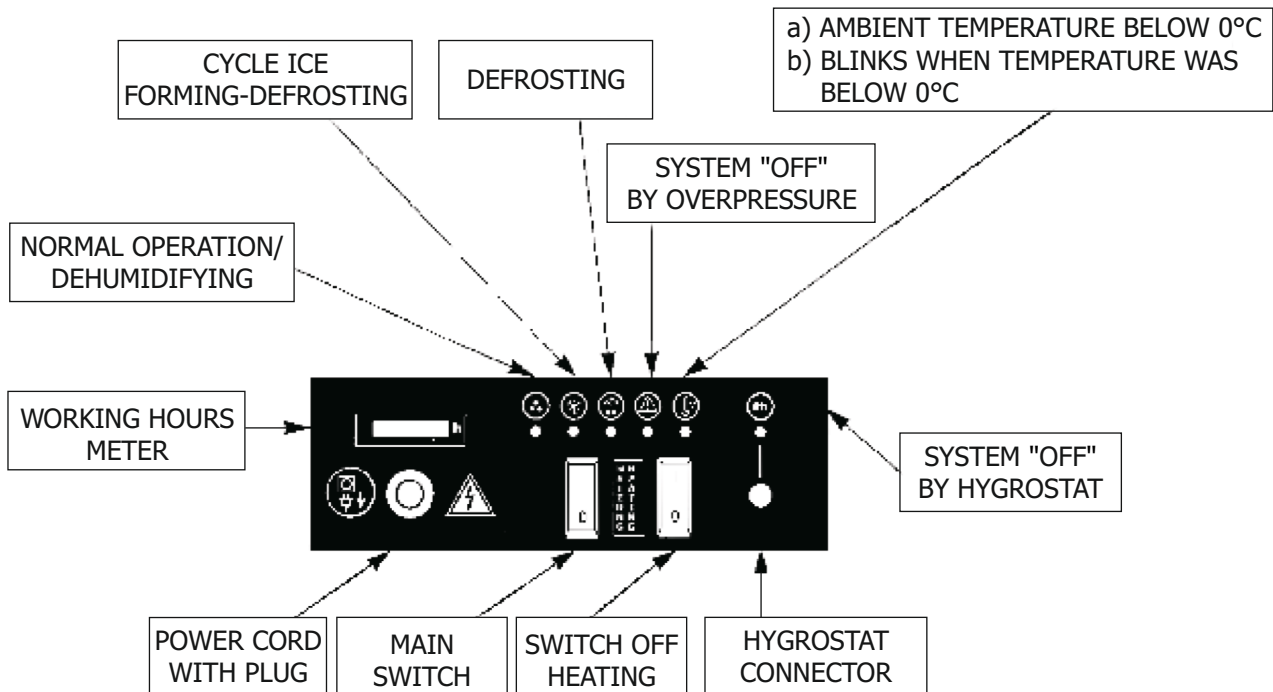
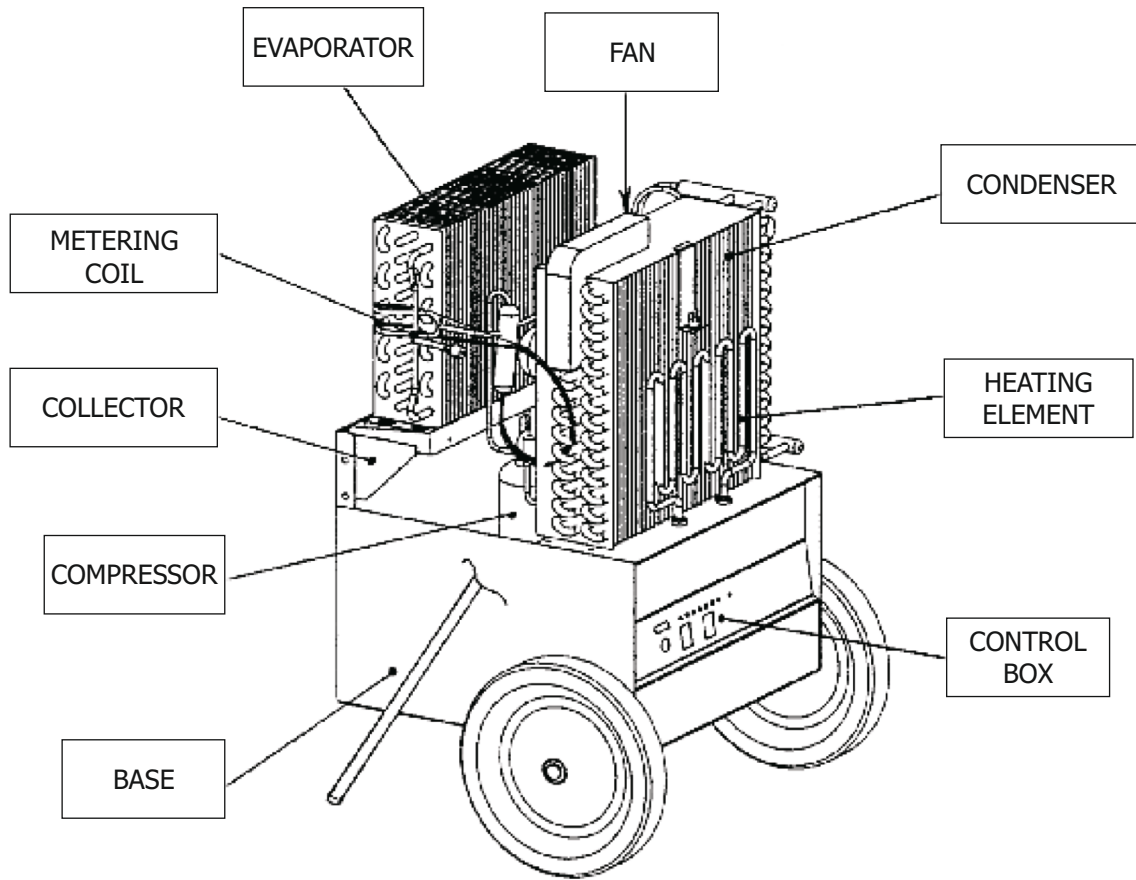
T40/TE40



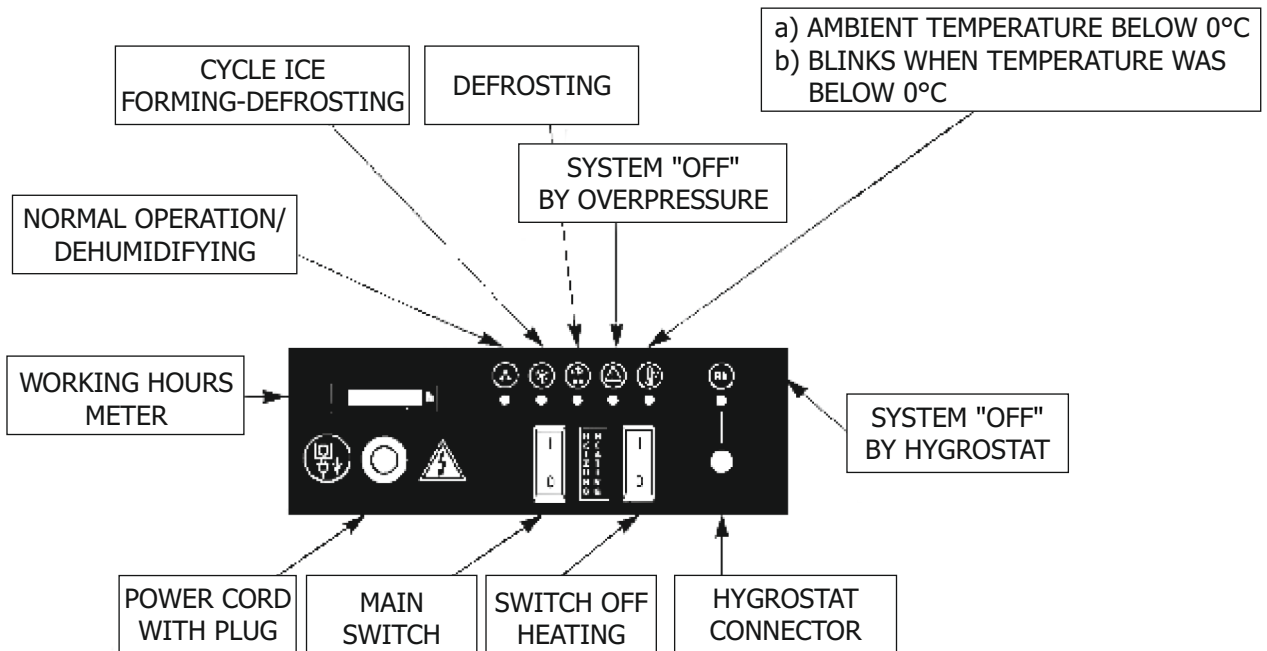
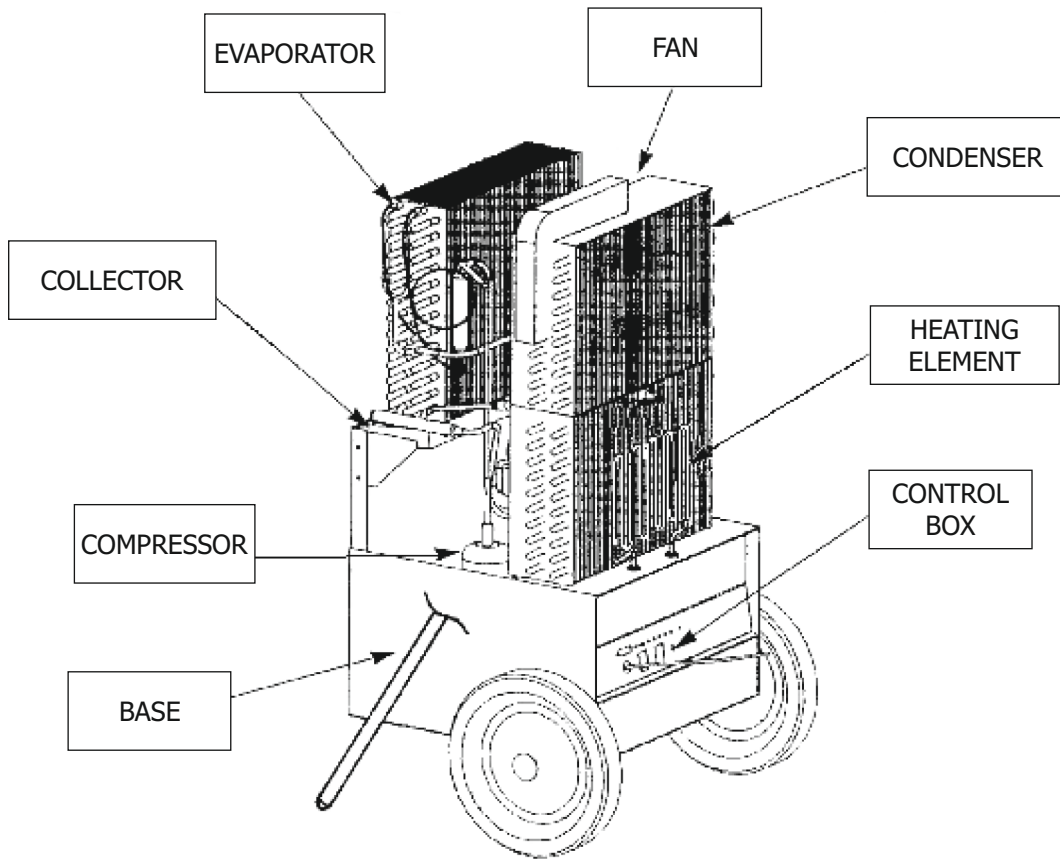
T60/TE60



T90/TE90



T120/TE120



SAFETY PRECAUTIONS

The intake end of the dehumidifier must be at least 20 cm from any wall.

The appliance must be horizontal and not be placed near a heat source or air intake.

The operating range is between 0°C and 35°C room temperature and minimum air humidity 30 %.

Caution - types TE

The appliance TE is equipped with an additional electric heating. The heating can increase ambient temperature and so make the dehumidifying more effective with low air temperature. The heating has a separate switch, which works only when the main switch is ON.

Never put anything on the cover of the appliance. The outlet end must be at least 1 m from any wall!



Warning! If the appliance is used in a swimming pool or similar, it must be fitted with a circuit breaker.



Setting into operation

Connect mains plug to a socket with 16/Amp. fuse and earthing contact. Adjust appliance to desired room humidity level. Turn main switch to ON. The appliance is now ready for use.

How to set the automatic humidity control:

1. Your DEHUMIDIFIER can be equipped with an adjustable humidistat (hygrostat) (in option). When the hygrostat is not connected, the appliance works also, but without automatic control. (See also the point 5).
2. The humidistat knob turns clockwise. The size of the room, the relative humidity and the temperature will influence your setting. Start it first by selecting the midway position.
3. One set with operation, the device works until the set humidity is reached. Then the unit will stop and start by itself. It is maintaining the humidity you have selected.
4. If you want to remove more moisture, rotate knob clockwise.
5. In extreme conditions, rotate the knob clockwise to final position. At this setting, your dehumidifier will operate continuously regardless of the amount of moisture in the air.



Switch Off

Turn the main switch to OFF. Withdraw mains plug from socket.

Important:

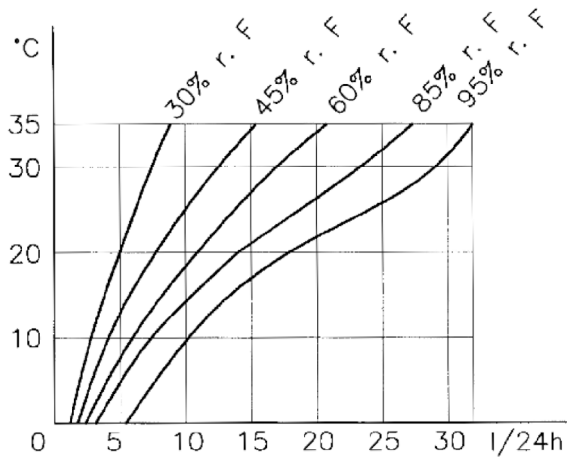
Temperature, humidity degree and operating conditions have influence on capacity of the appliance. In winters with continuous frost, when the weather is dry or in summertime the air-humidity may be very low (30%). In these cases the devices have only low or even no efficiency. If no means of humidity measurements are at hand, you can approximately check the humidity with the hygrostat: the appliance must not be under tension! Turn slowly the knob of the hygrostat anticlockwise. The flash above the knob shows approximately reached humidity-degree by a click sound.

OPERATION OF DEHUMIDIFIER

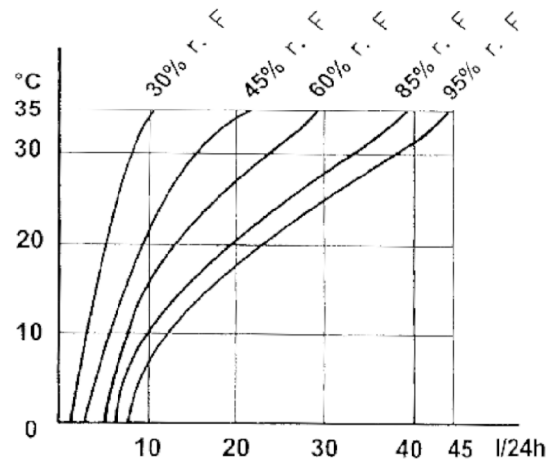
The device operates automatically. Used mode has been shown by indicators. Moist air in the room is drawn into the appliance and flows through the evaporator, where it is cooled. Water vapour in the air condenses on the evaporator cooling surfaces and falls as water droplets into the drip pan. The cool, dry air is reheated as it flows through the condenser.

When used correctly the consumption of energy is about 30% of that used by drying through heating.

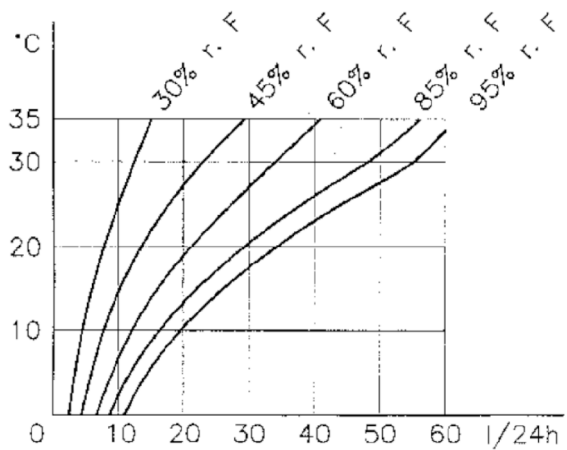
Dehumidifying capacity diagram T 30



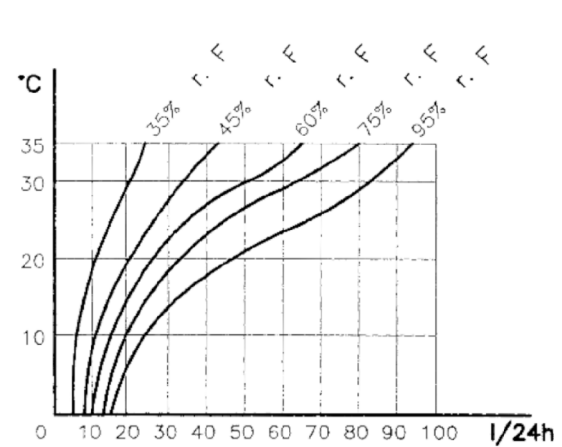
Dehumidifying capacity diagram T40/TE40



Dehumidifying capacity diagram T60/TE60



Dehumidifying capacity diagram T90/TE90



Dehumidifying capacity diagram T120/TE120

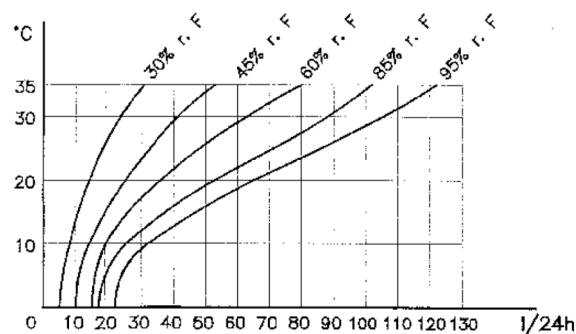
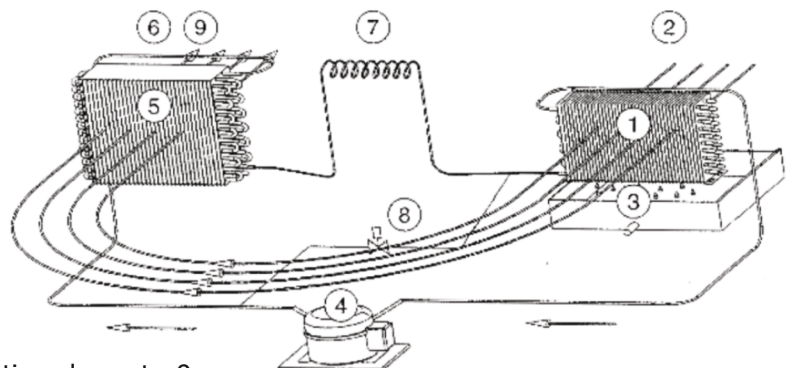


DIAGRAM REFRIGERATION SYSTEM

1. Evaporator
2. Heat extraction from room air
3. Drip pan
4. Compressor
5. Condenser
6. Heat transfer to room air
7. Refrigerant metering coil
8. Solenoid valve

At types TE is on the condenser connected heating element - 9.



De-Icer Control

Your Dehumid is equipped with an automatic de-icer control that guards against ice forming on refrigeration coils in low temperature or low humidity operation.



Indications

The compressor turns, the fan is off. After defrosting the device switches on again.



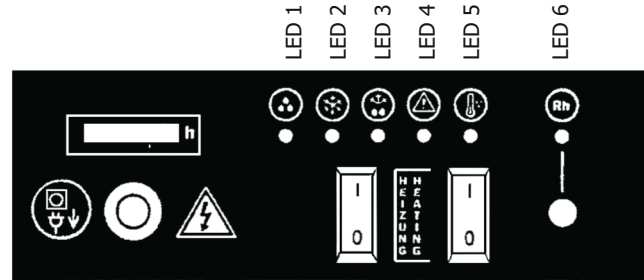
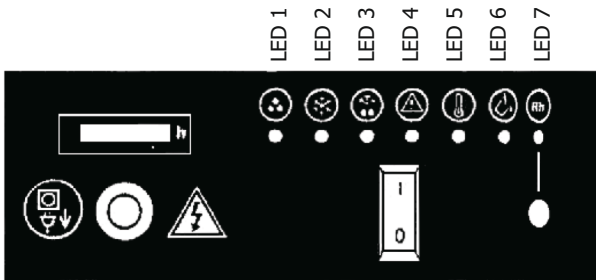
Indications

- a) Ambient temperature under 0°C.
- b) Blinks when temperature rises over again 0°C.
- c) Flashing will be stopped by momentary switching the unit off.

The device is equipped with an indication for eventual malfunction of the sensing elements, which control important values. In case of a faulty sensing element, the device will turn off and the following LED diodes flash alternally:

- LED 1 and LED 7 sensing element malfunction of evaporator
- LED 4 and LED 7 sensing element malfunction of the aggregates maximum temperature
- LED 5 and LED 7 sensing element malfunction of the room temperature

- LED 1 and LED 6 sensing element malfunction of evaporator
- LED 4 and LED 6 sensing element malfunction of the aggregates maximum temperature
- LED 5 and LED 6 sensing element malfunction of the room temperature



MALFUNCTION AND REMEDY



Warning! All work on the refrigeration system is to be done by specialised persons only !



Always unplug power supply plug before working on the electrical system. All work on the electrical installation must be carried out by a qualified electrician.

MALFUNCTION	POSSIBLE CAUSE	REMEDY
The appliance is plugged in but compressor and evaporator fail to function	<ul style="list-style-type: none"> a) No current b) Hygrostat incorrectly set c) Technical fault in refrigeration system 	<ul style="list-style-type: none"> a) Check fuses and electrical connections b) Check hygrostat setting c) Contact after-sales service
Appliance runs but no condensation forms on evaporator	<ul style="list-style-type: none"> a) Operating temperature range not reached or exceeded b) Operating air humidity range not reached c) Suction wall or blow-out wall obstructed d) Technical fault in refrigeration system 	<ul style="list-style-type: none"> a) Use appliance in correct temperature range conditions or adjust room temperature accordingly b) Use appliance only at 30 % humidity or above c) Allow adequate clearance of the appliance, clean or change the air-filter d) Contact after-sales service

Attention: * By opening the access valve "Schrader" coolant can be lost - it may be opened by specialized firms only.
 * The coolant is to be removed by specialized firms only.

CLEANING



For cleaning, please use brush or compressed-air, don't use water or dissolvent.

The dirty air-filter can be washed out in water with detergent. Let it dry completely and then mount it again into the device.

TECHNICAL DATA

Type	T20	T30	T40	T60	T90	T120
Dehumidifying capacity	20 l / 24 h	30 l / 24 h	40 l / 24 h	60 l / 24 h	90 l / 24 h	120 l / 24 h
Nominal air delivery	140 m ³ / h	280 m ³ / h	500 m ³ / h	750 m ³ / h	1 100 m ³ / h	1 500 m ³ / h
Operating humidity range	30 - 95 %	30 - 95 %	30 - 95 %	30 - 95 %	30 - 95 %	30 - 95 %
Operating temperature range	0 - 35 °C	0 - 35 °C	0 - 35 °C	0 - 35 °C	0 - 35 °C	0 - 35 °C
Voltage	220-240 V / 50 Hz	220-240 V / 50 Hz	220-240 V / 50 Hz	220-240 V / 50 Hz	220-240 V / 50 Hz	220-240 V / 50 Hz
Power consumption + heating at TE	600 W	600 W	0,65 kW + 2kW	0,7 kW + 2kW	1,2 kW + 2kW	1,4 kW + 2kW
Width	320 mm	420 mm	495 mm	620 mm	620 mm	620 mm
Depth	560 mm	870 mm	830 mm	615 mm	615 mm	580 mm
Height	500 mm	545 mm	610 mm	860 mm	860 mm	1070 mm
Weight	27 kg	34 kg	37 kg	49 kg	53kg	58kg
Filling capacity	400 g R407C	450 g R407C	560 g R407C	800 g R407C	1050 g R407C	1400 g R407C

GUARANTEE

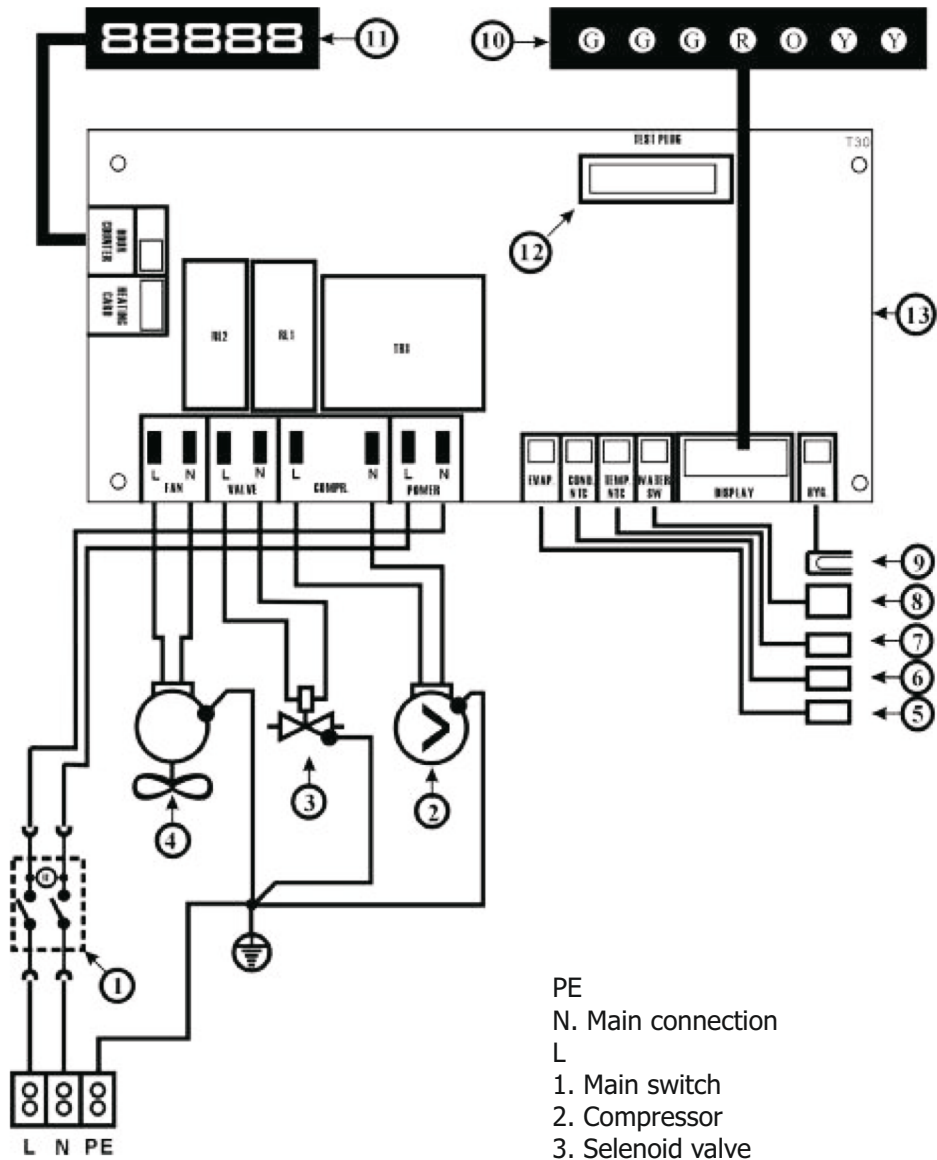
Any use, installation, maintenance that is not effected according to the rules as asserted in the technical manual, or unauthorized modifications on the original version as delivered from manufacturer leads to expiration of any right to warranty.

Furthermore our "Conditions of Sales and Delivery" are valid.

Technical modification for product improvement are subject to change without notice.

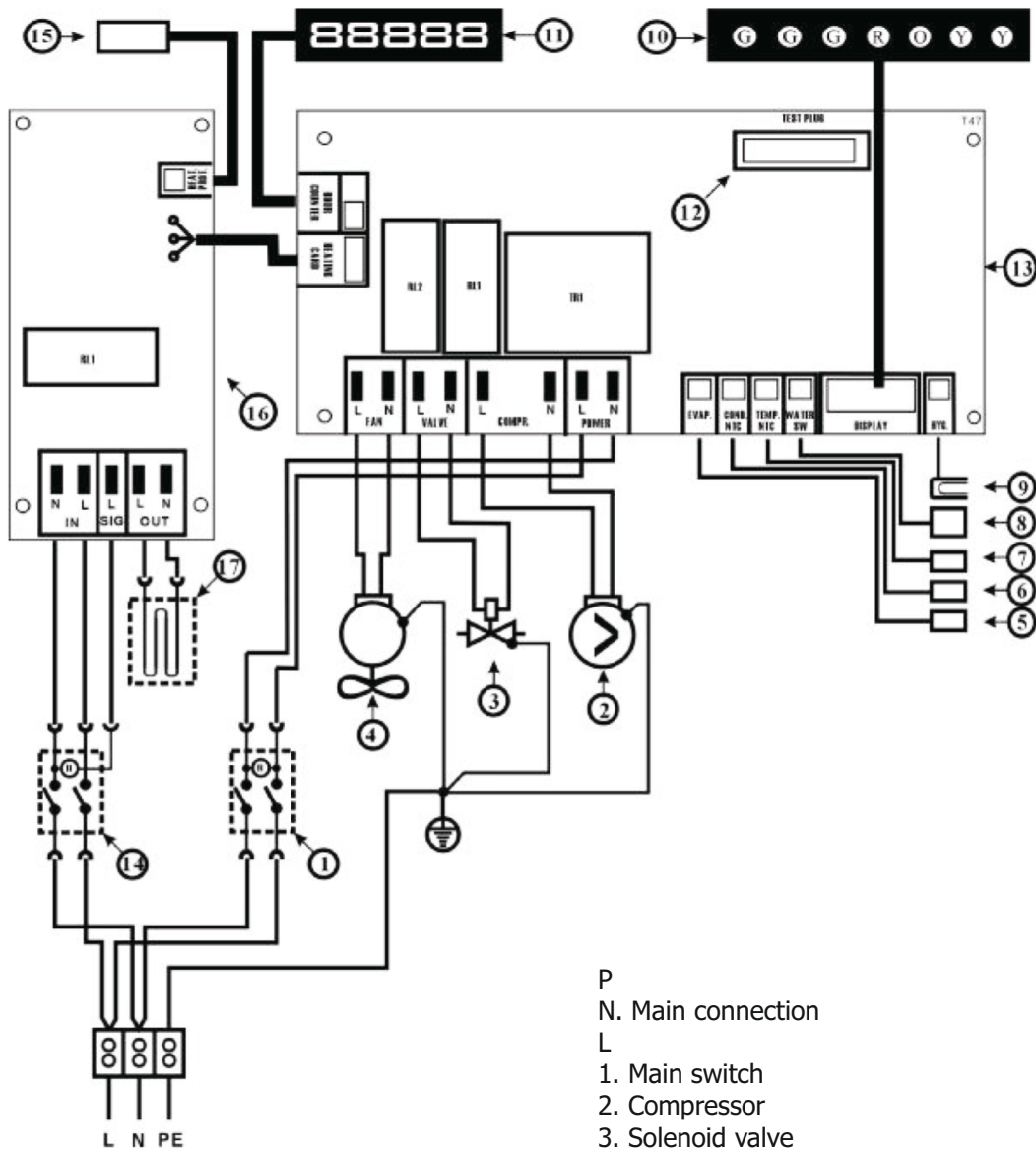
CIRCUIT DIAGRAMS

T20, T30



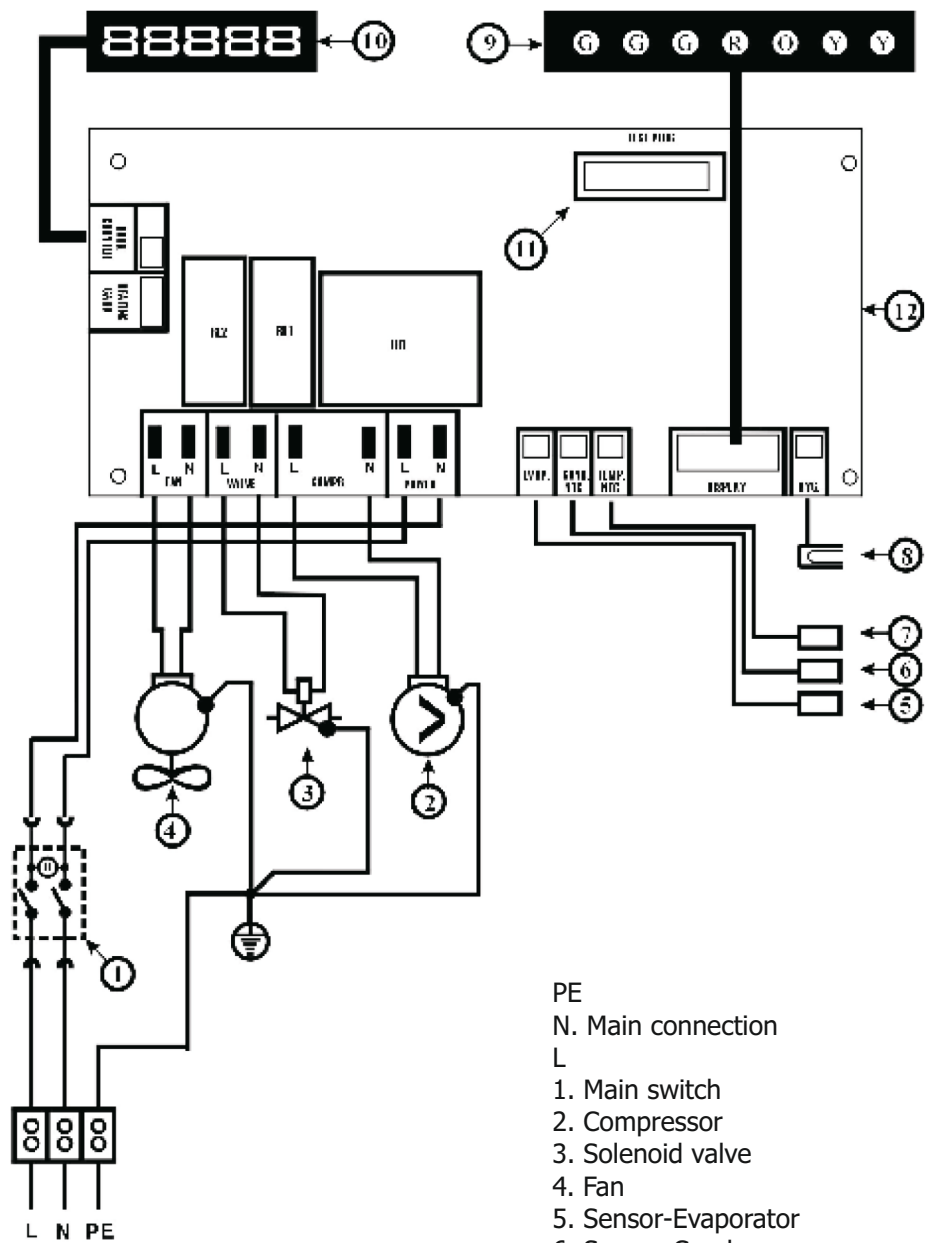
- PE
- N. Main connection
- L
- 1. Main switch
- 2. Compressor
- 3. Solenoid valve
- 4. Fan
- 5. Sensor-Evaporator
- 6. Sensor-Condenser
- 7. Sensor-Temperature
- 8. Sensor of floater position
- 9. CINCH-connector for hygrostat
- 10. Indicators
- 11. Working hours meter
- 12. TEST - connector
- 13. PC-board

T40/TE40



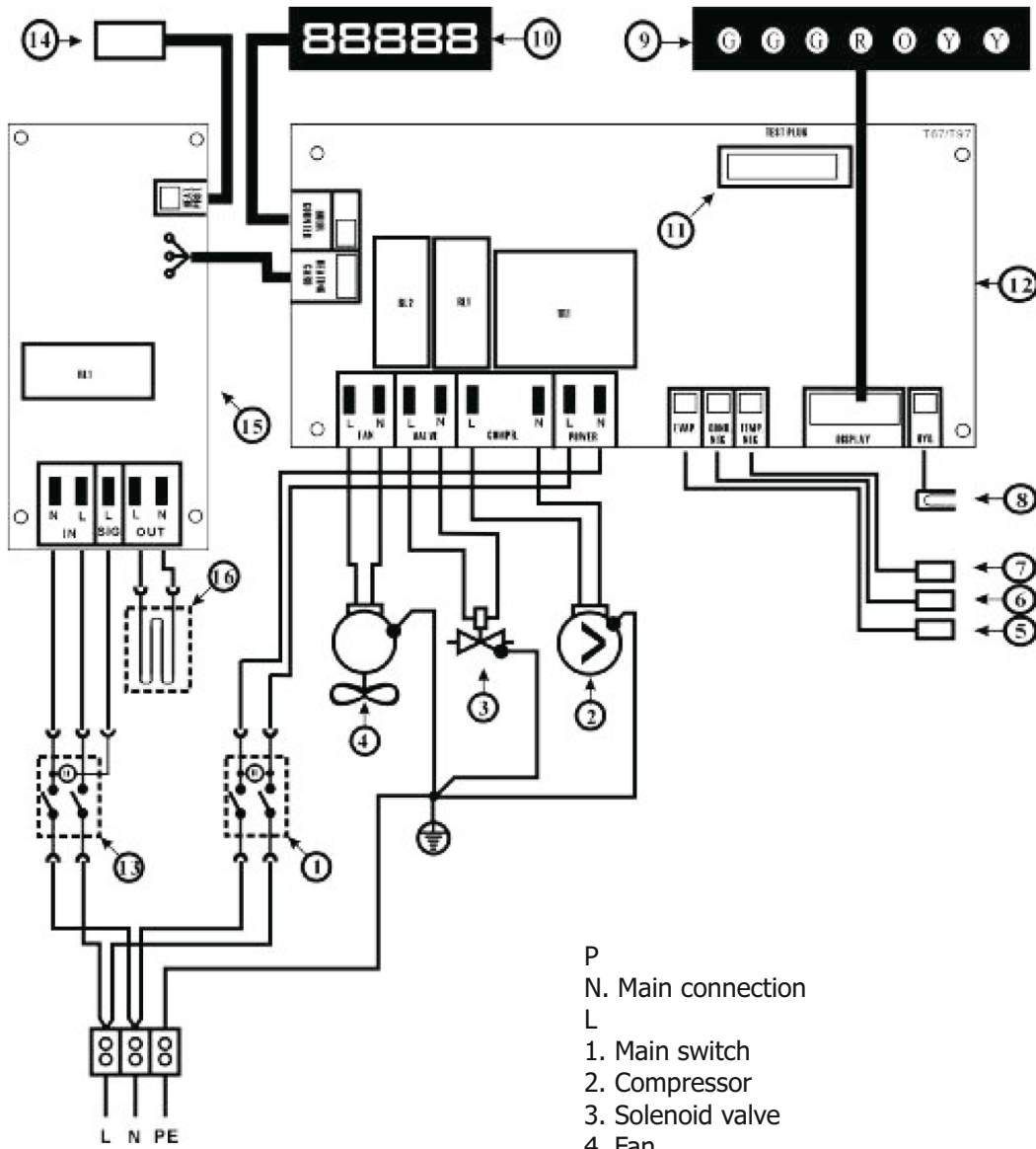
- P
- N. Main connection
- L
- 1. Main switch
- 2. Compressor
- 3. Solenoid valve
- 4. Fan
- 5. Sensor-Evaporator
- 6. Sensor-Condenser
- 7. Sensor-Temperature
- 8. Sensor of floater position
- 9. CINCH-connector for hygostat
- 10. Indicators
- 11. Working hours meter
- 12. TEST - connector
- 13. PC-board
- 14. Switch off heating (TE40)
- 15. Protective thermostat of heating (TE40)
- 16. Heating switch board (TE40)
- 17. Heating element (TE40)

T60, T90



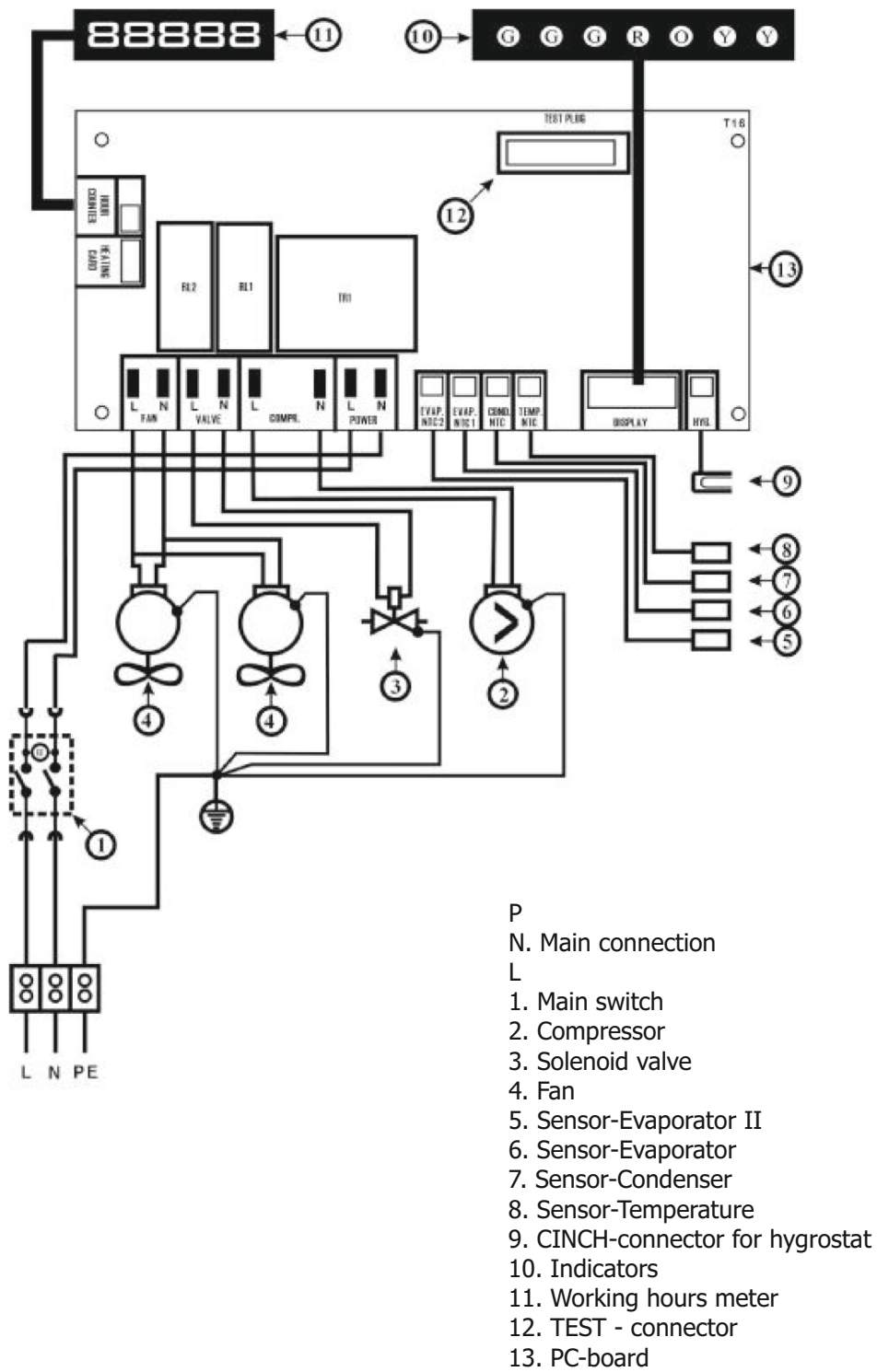
- PE
- N. Main connection
- L
- 1. Main switch
- 2. Compressor
- 3. Solenoid valve
- 4. Fan
- 5. Sensor-Evaporator
- 6. Sensor-Condenser
- 7. Sensor-Temperature
- 8. CINCH-connector for hygostat
- 9. Indicators
- 10. Working hours meter
- 11. TEST - connector
- 12. PC-board

TE60, TE90

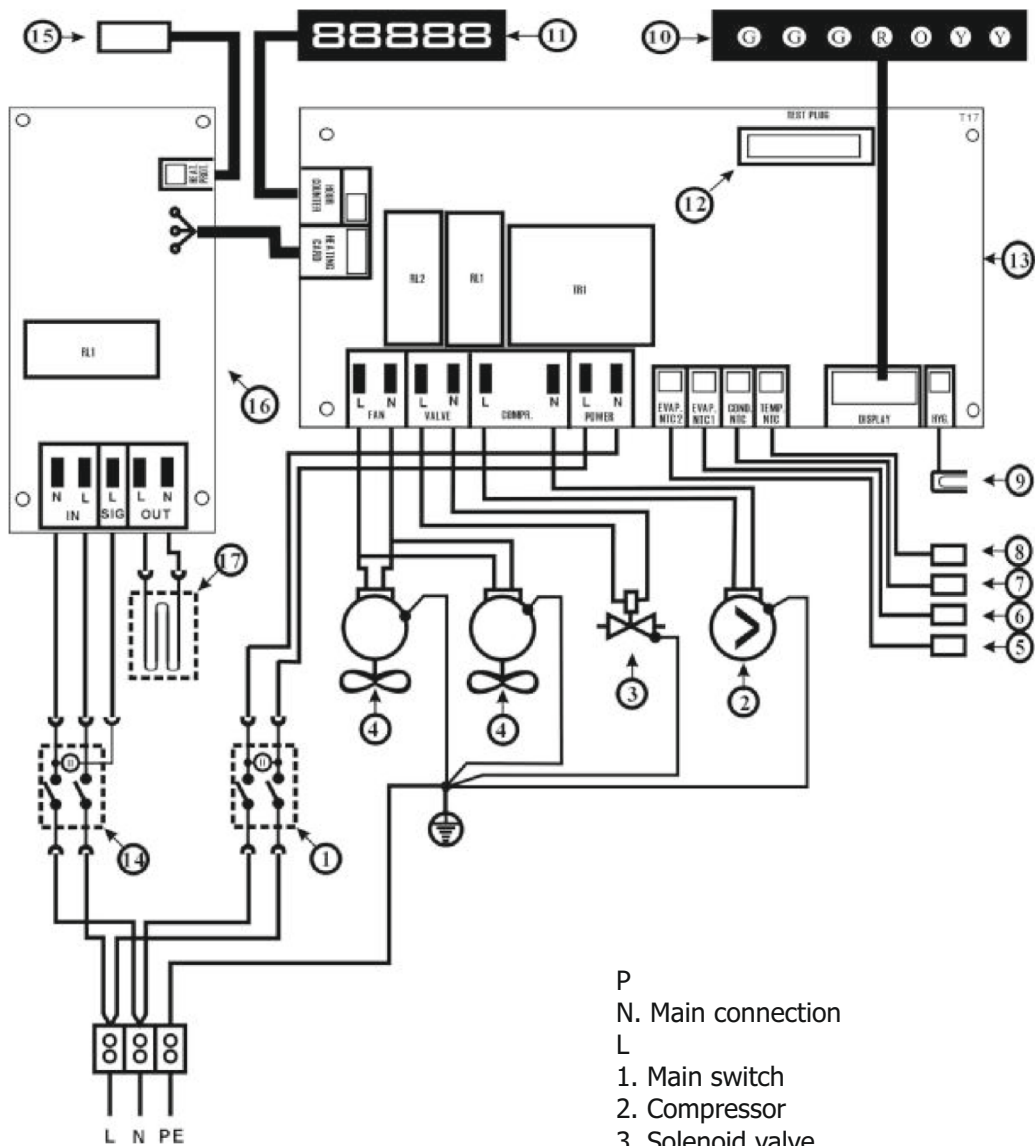


- P
- N. Main connection
- L
- 1. Main switch
- 2. Compressor
- 3. Solenoid valve
- 4. Fan
- 5. Sensor-Evaporator
- 6. Sensor-Condenser
- 7. Sensor-Temperature
- 8. CINCH-connector for hygrostat
- 9. Indicators
- 10. Working hours meter
- 11. TEST - connector
- 12. PC-board
- 13. Switch off heating
- 14. Bimetal-switch
- 15. Heating switch board
- 16. Heating element

T120



TE120



- P
- N. Main connection
- L
- 1. Main switch
- 2. Compressor
- 3. Solenoid valve
- 4. Fan
- 5. Sensor-Evaporator II
- 6. Sensor-Evaporator
- 7. Sensor-Condenser
- 8. Sensor-Temperature
- 9. CINCH-connector for hygrostat
- 10. Indicators
- 11. Working hours meter
- 12. TEST - connector
- 13. PC-board
- 14. Switch off heating
- 15. Bimetal-switch
- 16. Heating switch board
- 17. Heating element

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