

CLIMIA

Local room air conditioner CMK 2600

Operating manual



CLIMIA



Local room air conditioner CMK 2600

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**Carefully read this operating manual prior to commissioning/using the units!
This operating manual is a translation of the German original.**

This manual is an integral part of the unit and must always be kept in the vicinity of the installation location or on the unit itself.

Subject to modifications. No liability accepted for errors or misprints!

1.0 Safety information

General safety notes

Carefully read the operating manual before placing the unit in service for the first time. It contains useful tips and notes as well as hazard warnings to prevent injury or material damage. Failure to follow the directions in this Manual can endanger persons, the environment and the equipment itself and will void any claims for liability.

Keep this operating manual and the refrigerant data sheet near to the units.

- Only qualified personnel may set up and install the units and components.
- The set-up, connection and operation of the units and its components must be undertaken in accordance with the usage and operating conditions stipulated in this manual and comply with all applicable regional regulations.
- Mobile units must be set up securely on suitable surfaces and in an upright position. Stationary units must be permanently installed for operation.
- Modification of the units and components supplied by CLIMIA is not permitted and can cause malfunctions.
- The units and components should not be operated in areas where there is an increased risk of damage. Observe the minimum clearances.
- The electrical power supply should be adapted to the requirements of the units.
- The operational safety of the units and components is only assured providing they are used as intended and in a fully assembled state. Safety devices may not be modified or bypassed.
- Do not operate units or components with obvious defects or signs of damage.
- All housing parts and unit openings, e.g. air inlets and outlets, must be free from foreign objects, liquids and gases.
- The units and components must be kept at an adequate distance from flammable, explosive, combustible, abrasive and dirty areas or atmospheres.
- Contact with equipment parts or components can lead to burns or injury.
- Installation, repair and maintenance work may only be carried out by authorised specialists. Visual inspections and cleaning can be performed by the operator as long as the unit is disconnected from the power.
- Appropriate hazard prevention measures must be taken to prevent risks to people when performing installation, repair, maintenance or cleaning work on the units.
- The units and components should not be exposed to any mechanical load, extreme levels of humidity or direct exposure to sunlight.



Warning of inflammable substances

Safety instructions for the operator

- The units and components must not be exposed to any mechanical load, extreme levels of humidity or extreme temperatures. Operation in rooms with possible ignition sources (e.g. open flames, gas heaters, electric heaters) is also prohibited.
- During operation of the unit, icing of the heat exchangers may occur occasionally. The units feature an automatic defrosting function if required. Never thaw the heat exchangers independently!
- The refrigerant R290 used in the unit is highly flammable, invisible and odourless. It is imperative that the safety instructions in the installation and operating instructions are observed.
- The unit may only be stored and operated in rooms larger than 8 m².
- Possible regional laws and regulations must be observed.
- Air intake and outlet areas must be kept clear. Never cover the unit.
- The unit must be stored in such a way that mechanical damage can be ruled out. The storage location must be sufficiently large and well ventilated.

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- Repairs of any kind may only be carried out by certified specialist personnel. Intervention in the refrigeration circuit by personnel who are neither certified nor authorised by the manufacturer is strictly prohibited. The prerequisite for personnel being qualified is knowledge of handling flammable refrigerants.
- National regulations for the transport of equipment must be observed.
- Safety-relevant device stickers must not be removed.!
- The tool used must be approved for working with flammable refrigerants.
- The refrigerant must be completely and properly disposed of before it enters the refrigerant circuit. R290 is an oil separator. The refrigeration circuit must be expertly inerted.
- The unit must not be overfilled under any circumstances.

Safety instructions for the certified specialist personnel

- The refrigerant R290 used in the unit is highly flammable, invisible and odourless. Work on the refrigeration circuit may only be carried out by certified specialist personnel. Knowledge in handling flammable refrigerants is absolutely imperative!
- Before working on the refrigeration circuit, the workplace must be checked for sufficient space and good ventilation. All possible ignition sources must be removed from the workplace. Other persons present must be informed about possible dangers.
- Before and during work, the refrigerant concentration in the air must be checked continuously. Suitable refrigerant detectors must be used for this purpose.
- Have fire extinguishers ready at all times.

3.0 Guarantee

As a prerequisite for any guarantee claims to be considered, it is essential that the ordering party or its representative complete and return the "certificate of warranty" to Climia Intakt GmbH at the time when the units are purchased and commissioned.

The guarantee conditions are listed in the "General terms and conditions of business and supply". Furthermore, only the parties to a contract can conclude special agreements beyond these conditions. In this case, contact your contractual partner in the first instance.

4.0 Intended use

Depending on the model, the units and the additional fittings with which they are equipped are only intended to be used as an air-conditioner for the purpose of cooling or heating the air in an enclosed space. Any different or additional use is a non-intended use.

The manufacturer/supplier assumes no liability for damages arising from non-intended use. The user bears the sole risk in such cases. Intended use also includes working in accordance with the operating and installation instructions and complying with the maintenance requirements.



2.0 Environmental protection and recycling

Disposal of packaging

All products are packed for transport in environmentally friendly materials. Make a valuable contribution to reducing waste and sustaining raw materials. Only dispose of packaging at approved collection points.

Disposing of the units and their components

Only recyclable materials are used in the manufacture of the units and components. Help protect the environment by ensuring that the units or components (for example batteries) are not disposed of in household waste, but only in accordance with local regulations and in an environmentally safe manner, e.g. using authorised disposal and recycling specialists or council collection points.



5.0 Transportation and packaging

The units are shipped in sturdy transport packaging. Check the unit immediately after delivery and make a note of any damage (please take photos of the damage) or missing parts on the delivery note. Inform the forwarding agent and contractual partner. Please keep the packaging safely for any returns. Claims under guarantee made at a later date will not be accepted.

6.0 Unit description

The unit is particularly well suited to flexible use.

The local room air conditioner comprises a floor-standing unit for the indoor area and an exhaust air hose to conduct the heat away. The indoor unit extracts the heat from the room to be cooled by means of an evaporator (heat exchanger) and transfers it to the internal cooling cycle. This releases the heat back to the outside via another heat exchanger (condenser) by means of the flexible exhaust air hose.

The condensate arising during cooling mode is continually drained off via the condenser by means of a condensate pump located in the unit - the condenser evaporates the condensate and discharges it to the outside via the exhaust air hose.

The unit filters and dehumidifies the air thereby creating a comfortable room climate. It works fully automatically and offers numerous additional options thanks to its microprocessor controller. The operation of the unit can be conveniently operated by means of the infra-red remote control included.



Fig. 1 Front view

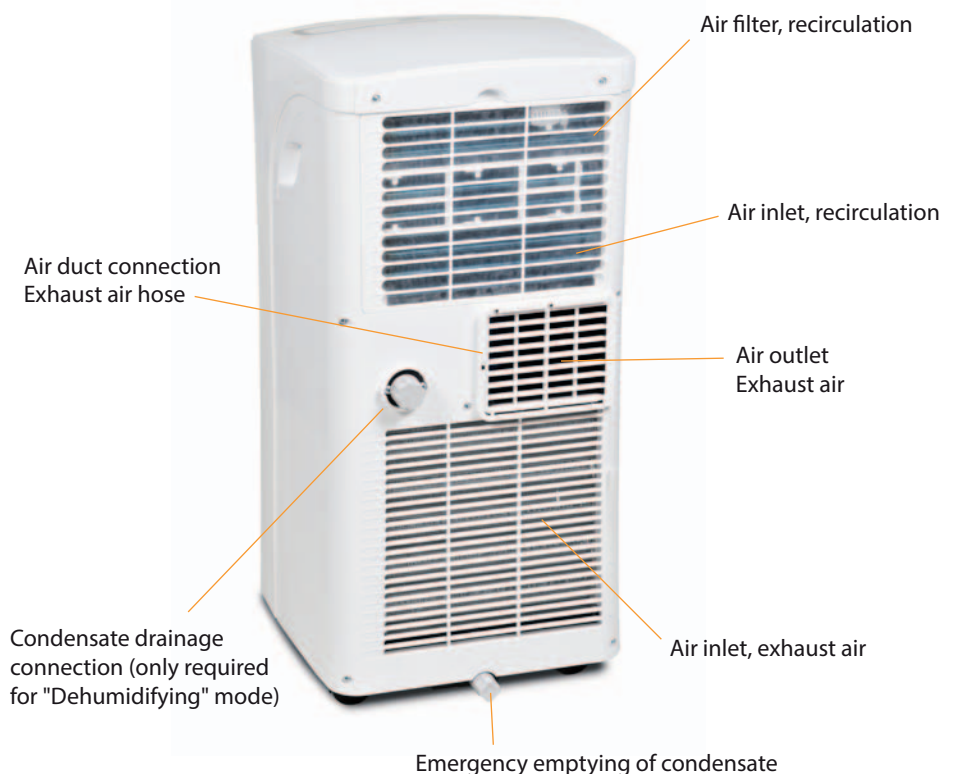


Fig. 2 Rear view

Local room air conditioner CMK 2600

7.0 Operation

The system can be operated by means of the control panel on the unit or via the standard infrared remote controller. The functional operation of the keys is identical, however, the designation may vary. The batteries must be correctly inserted before the infrared remote control is used.

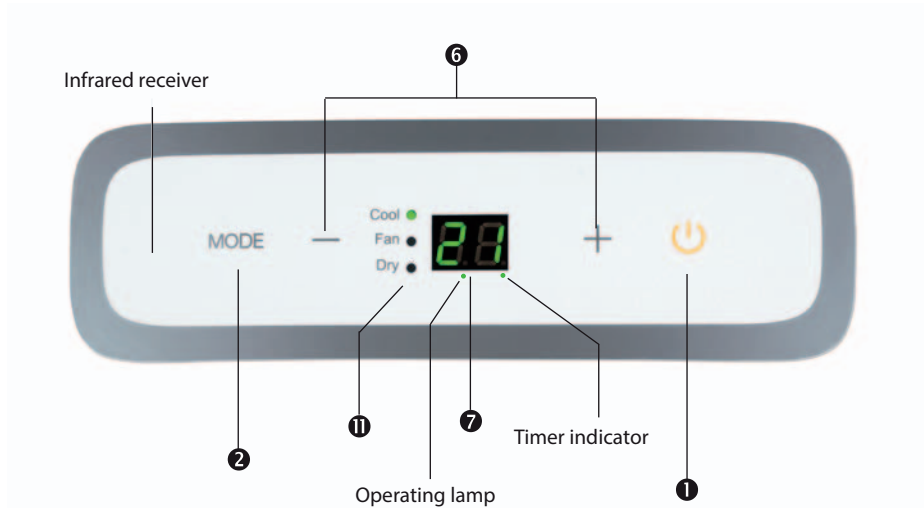


Fig. 3 Control panel

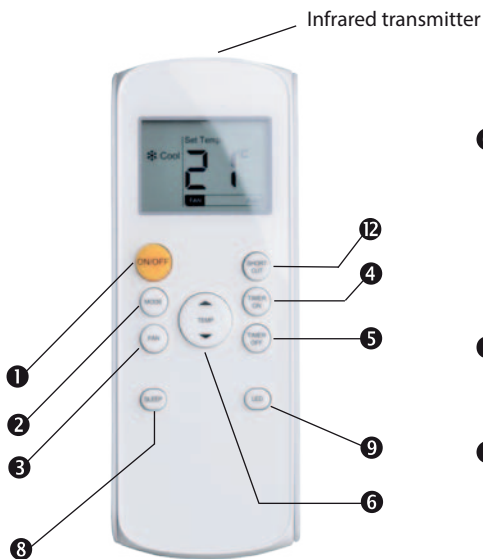


Fig. 4 Infrared remote control

- ❶ "ON/OFF" key
- ❷ Operating mode "Mode" key
- ❸ "Fan Speed" key
(only on the remote control)
- ❹ "Timer on" key
(only on the remote control)
For delayed switch-on
- ❺ "Timer off" key
(only on the remote control)
For delayed switch-off

- ❻ Temperature setting keys "+ and -"
Enables the setpoint to be increased or decreased in 1°C steps.
- ❼ Display
Shows the temperature setpoint.
- ❽ "Sleep" mode key
(only on the remote control)
After this function is activated, the setpoint value increases by 1°C after 30 minutes. After another 30 minutes, the setpoint increases by a further 1°C and then remains at this setting for 7 hours before returning to the original temperature setpoint.
- ❾ "LED Display" display lighting key
(only on the remote control)
Switches the display and the unit LED on or off.

- ❶ Green LED operating mode indicator on the LCD
Indicates the active operating mode of the unit.

- ❿ Reset key "Short Cut"
(only on the remote control)
Resets the settings to "Automatic" and "26 °C".

Selection of the operating mode "Mode"

- **Cooling mode "Cool"**
The unit provides room cooling. It filters and dehumidifies the air thereby creating a comfortable room climate.
- **Ventilate mode "Fan"**
The unit recirculates the room's air, filters it and provides an even air flow.
- **Dehumidifying mode "Dry"**
In dehumidifying mode, moisture is removed from the air in the room.

Cooling mode "Cool"

1. Attach the exhaust air hose to a wall pass-through or window.
2. Switch the unit on with the "On/Off" key ❶.
3. Press the "Mode" key ❷ until the "Cool" LED illuminates.
4. Select the setting for the fan via the "Fan" key ❸:
"High"
high fan speed
"Low"
low fan speed
5. Adjust the desired room temperature with the "Temperature setting" ❹ key. The up arrow increases the setpoint shown in the display ❺, the down arrow decreases the setpoint displayed in 1°C steps.

OUR TIP

You will achieve a pleasant room temperature if you set the desired target temperature max. 4 to 7 °C below the outside temperature.

NOTE

The "Auto" mode can be selected on the display of the infrared remote control. The function is identical to the "Cooling" operating mode.

Ventilate mode "Fan"

1. Switch the unit on with the "On/Off" key ❶.
2. Press the "Mode" key ❷ until the "Fan" LED illuminates.
3. Select the setting for the fan via the "Fan" key ❸:
"High"
high fan speed
"Low"
low fan speed
4. The room temperature cannot be changed in this operating mode.

Dehumidifying mode "Dry"

1. Remove the exhaust hose from the unit
2. Fasten customer-provided condensate drainage hose to the condensate drainage connection on the unit and feed to a drain.
3. Switch the unit on with the "On/Off" key ❶.
4. Press the "Mode" ❷ key until the "Dry" ❶ LED illuminates, the fan will be automatically switched on at the lowest fan speed. The temperature cannot be influenced. The unit display ❷ shows the actual current temperature.

"Timer"

With the timer function of the IR remote control, the unit can be switched on or off with a time delay.

Automatic switch off

1. Switch the unit on with the "On/Off" key ❶.
2. The "Timer OFF" key on the IR remote control ❹ enables the desired time delay for unit switch-off, to be set in 0.5 hour steps. After successful programming, the timer indicator on the unit illuminates green.

Automatic switch on

1. Select the desired temperature and fan speed during unit operation. Switch the unit off with the "On/Off" key ❶.
2. The "Timer ON" key on the IR remote control ❹ enables the desired time delay for unit switch-on, to be set in 0.5 hour steps. After this time has passed, this unit will switch on with the settings selected in point 1.

OUR TIP

Help by reducing energy usage in stand-by operation! If the unit, the system or the components are not being used, we recommend disconnecting the power supply. Our recommendation does not apply to safety relevant components.

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8.0 Before commissioning

The unit is positioned at the desired location with the discharge side pointing into the room. When positioning, observe the following notes.

- After unpacking the unit let it sit on its transport rollers for at least 5 minutes before you switch it on.
- Set the unit down in a stable position on a level and firm floor. If the floor is uneven then this can lead to vibrations and disturbing noises.



CAUTION!

There must be a minimum clearance of 30 cm between the rear of the unit and the wall.

- All extensions to the power supply must be of a sufficient cable size and must only be used fully rolled out.



- Check whether the stopper in the condensate drain is present and correctly installed. There is a risk of uncontrolled condensate leakage after commissioning.



Condensate drainage with stopper

- Never operate the unit without the air inlet filter. Otherwise, the fins of the heat exchanger can become dirty and the unit loses performance.



Recirculated air filter

- Ensure that persons and sensitive objects, such as plants, are not placed directly in the air flow emerging from the unit.

OUR TIP

In addition, with direct solar radiation close the curtains and blinds and keep the windows and doors closed during operation.

Conduct the warm exhaust air away

CAUTION!

The exhaust air hose should always be laid rising in the direction of air flow and must not be extended.

In cooling mode the unit creates warm moist exhaust air, which must be conducted away from the room to be cooled. For this reason it is necessary to plug the exhaust air hose provided into the outlet opening on the rear of the unit.

- Ensure that the catches for the exhaust air hose latch securely into the two openings of the connection aperture. In order to be sure of effective operation, do not lay the flexible exhaust air hose with tight bends and do not kink it.
- The exhaust air of the unit contains a certain amount of moisture. For this reason it is advisable to feed the exhaust air to the outdoor area or to outdoors.



Exhaust air routing variants

You can route the exhaust air out of the building as follows:

Via a flat nozzle

The flat nozzle supplied can be used in various different ways. It is possible to feed the flat nozzle through an open window and fasten it by means of Velcro and a window suction cup (**Fig. 5, page 9**).

Likewise the flat nozzle can be hung in a tilted window (**Fig. 6, page 9**).

Via a wall pass-through

The hose supplied is firmly attached to a wall pass-through. A suitable wall pass-through is available as an accessory (**Fig. 7**).



Fig. 5 Exhaust air with open window



Fig. 6 Exhaust air with tilted window



Fig. 7 Wall pass-through

NOTE

In some circumstances routing the exhaust air via a firmly attached exhaust air hose, e.g. through closed doors or windows, can lead to negative pressure in the room in which the unit is being used. If this should reduce the performance of the unit then arrange for the pressure to be equalised.

9.0 Commissioning

Before every commissioning the air inlet and outlet openings should be checked for foreign bodies and the air inlet filter must be checked for dirt. Blocked or soiled grills and filters must be cleaned immediately, see "Care and maintenance" chapter.

Cooling mode

1. Switch the unit on with the "On/Off" key.
2. Select cooling mode with the "MODE" key. The "COOL" LED must illuminate.
3. Set the desired target temperature with the "Temperature setting" key. The selected target temperature will be shown in the display. If the fan speed selected is too large or too small then this can be adjusted with the "FAN" key.

Recirculation mode

1. Switch the unit on with the "On/Off" key.
2. Select ventilation mode with the "FAN" key. The "FAN" LED must illuminate.

10.0 Shutdown

Temporary shutdown

If it is planned to shut down the unit for longer periods e.g. during the winter, proceed as follows:

1. Let the unit run in recirculating operation for ca. 2 hours in order to dry the surfaces of the evaporator fins. This will transport the remaining moisture out of the unit and this will avoid unpleasant odours when the unit is re-commissioned.
2. Switch the unit off with the "On/Off" key, pull out the power plug and wind up the power supply cable. Ensure that the cable is not kinked or too severely bent.
3. Place a suitable container underneath the condensate drain of the internal reservoir. The condensate drain is located on the lower rear side of the unit.
4. Pull out the stopper from the condensate drain and collect the condensate that drains out.
5. Then insert the stopper once again. A missing stopper or an incorrectly inserted stopper will result in condensate leaking out after re-commissioning.
6. Store the unit in an upright position in a cool, dry and dust-free location protected from direct sunlight. Cover the unit with a synthetic cover to protect it against dust if desired.

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Permanent shutdown

Ensure that units and components are disposed of in accordance with local regulations, e.g. through authorised disposal and recycling specialists or at collection points.

Intakt GmbH or your contractual partner will be pleased to provide a list of certified firms in your area.

11.0 Filter cleaning

The unit is equipped with an air filter. This can be withdrawn from the rear of the unit. The filter must be cleaned at regular intervals. Clean the air filter at intervals of no more than 100 operating hours. Reduce this interval in the case of heavily contaminated air.

1. Switch the unit off and pull out the power plug.
2. Take the filter out of the unit (**Fig. 8**).
3. Clean the dust off the filter. You can use a vacuum cleaner for this (**Fig. 9**).
4. In the case of heavy soiling, clean the filter carefully in lukewarm water (**Fig. 10**).
5. Allow the filter to dry in the air.
6. Insert the filter back into the unit (**Fig. 8**).
7. Ensure that the filter is dry and undamaged.

CAUTION!

Never operate the unit without the air filter.

12.0 Care and maintenance

Regular care and observation of some basic points will ensure trouble-free operation and a long service life.

CAUTION!

Care and maintenance work may only be carried out if the unit is disconnected from electrical power.

- Cleaning the housing:
Only clean the unit using a damp cloth.
Do not use a jet of water.
- Do not use any caustic, abrasive or solvent-based cleaning products.
- Only use suitable cleaning agents, even in the event of severe soiling.
- Ensure that no moisture gets into the unit. Clean the exhaust air and outlet openings regularly and thoroughly. This is where dirt most often collects first.
- We recommend that you take out a maintenance contract with an appropriate specialist firm. This will guarantee that your equipment always operates reliably!



Fig. 8 Changing the filter



Fig. 9 Cleaning with a vacuum cleaner

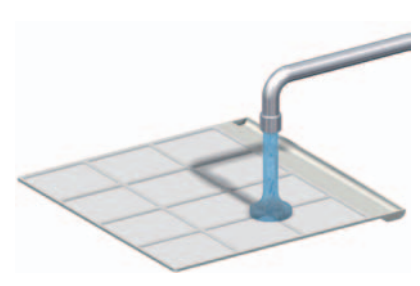


Fig. 10 Cleaning with lukewarm water

13.0 Installation scheme for wall pass-through (accessory)



Fig. 11 Installation example

Installation instructions

1. Create a core hole in the exterior wall (max. wall thickness 480 mm) with a diameter of at least 135 mm. Watch out for any supply lines in this area!
2. Insert the slide tube into the wall pass-through created such that the outer tube (larger diameter) is on the inside of the wall. In order to avoid cold bridges insulate the telescopic tube with suitable insulation material.
3. Brick the slide tube into the core hole such that it sits flush on both sides of the wall.
4. Fasten the protection grid on the outside of the wall with 4 screws. Take rain ingress into account when fitting the grid.
5. Insert the interior flap valve and fasten this likewise with 4 screws. The "Top" legend on the flap valve must be visible from the inside!
6. When shutting down the unit, e.g. before the start of the winter period, seal the opening in the flap valve with the sealing cover in order to prevent air circulation.

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14.0 Troubleshooting and customer service

The unit and components are manufactured using state-of-the-art production methods and tested several times to verify that they function correctly. If malfunctions should occur, please check the unit as detailed in the list below. Please inform your dealer if the unit is still not working correctly after all the function checks have been performed.

CAUTION!

Never open the unit housing.

The unit does not operate, the control panel remains dark

- Ensure,
 - that the power plug is properly plugged in.
 - that there is no power failure.
 - that the mains power is present (fuse/breaker).
- Check the power supply cable for damage.

NOTE

Contact your dealer or contractual partner if the unit cannot be activated.

The unit does not work, LED indicator "Timer" illuminates

The "Timer" time delay is programmed if a green LED is illuminated in the right hand corner of the display underneath the temperature display. Deactivate the timer function.



The unit does not operate,

... the display shows "EC"

- No cooling capacity after 30 minutes. Possible lack of refrigerant, contact your dealer.

... the display shows "E1"

- Recirculation temperature probe faulty

... the display shows "E2"

- Suction pipe (pipe contact sensor) temperature probe faulty

... the display shows "E4"

- Communication error between display and control board

... the display shows "P1"

- The unit's condensate collection tray is full.

Proceed as follows to empty the reservoir:

1. Switch unit off, pull out power plug.
2. Place a shallow container underneath the drain outlet and loosen the stopper.
3. After the condensate has drained off, plug the stopper back in again firmly.
4. Switch the unit back on.

Is the fault still present?
Contact your dealer.

The unit does not cool properly

- Check the operating mode:
The "Cool" LED indicator on the LCD must illuminate.
- For optimum cooling capacity, you should close curtains and blinds. Also, ensure that windows and doors are closed.

- Ensure that the exhaust air hose is properly attached. It must not be kinked, sloping downwards or laid in bends that are too tight.
 - ... that there are no foreign bodies impairing the air supply or air exhaust (observe minimum clearance).
 - ... that the ventilation louvres are free of dirt and foreign objects.
 - ... that the target temperature is not set too high (unit operating range 17 to 35 °C).

The unit does not respond to the remote control

- Ensure that the batteries are in good working order, otherwise replace the batteries.
 - ... that the batteries have been inserted with the correct polarity (see markings).
 - ... that there are no objects between the remote control and the unit (range ca. 5 m).

CAUTION!

Never carry out work on the cooling cycle or on the electrical equipment.

15.0 Electrical wiring diagram

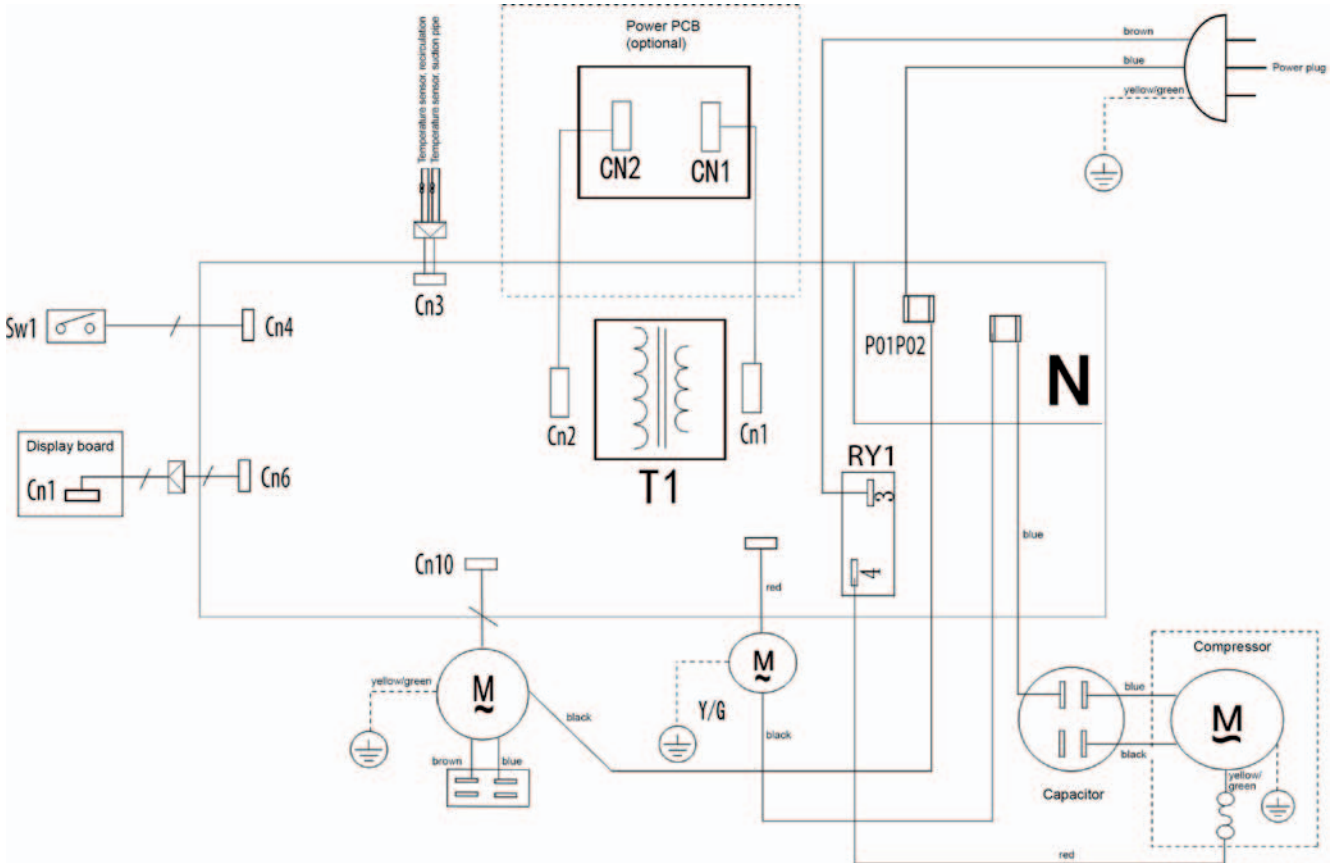


Fig. 12 Connection diagram CMK 2600

Local room air conditioner CMK 2600

16.0 Unit illustration

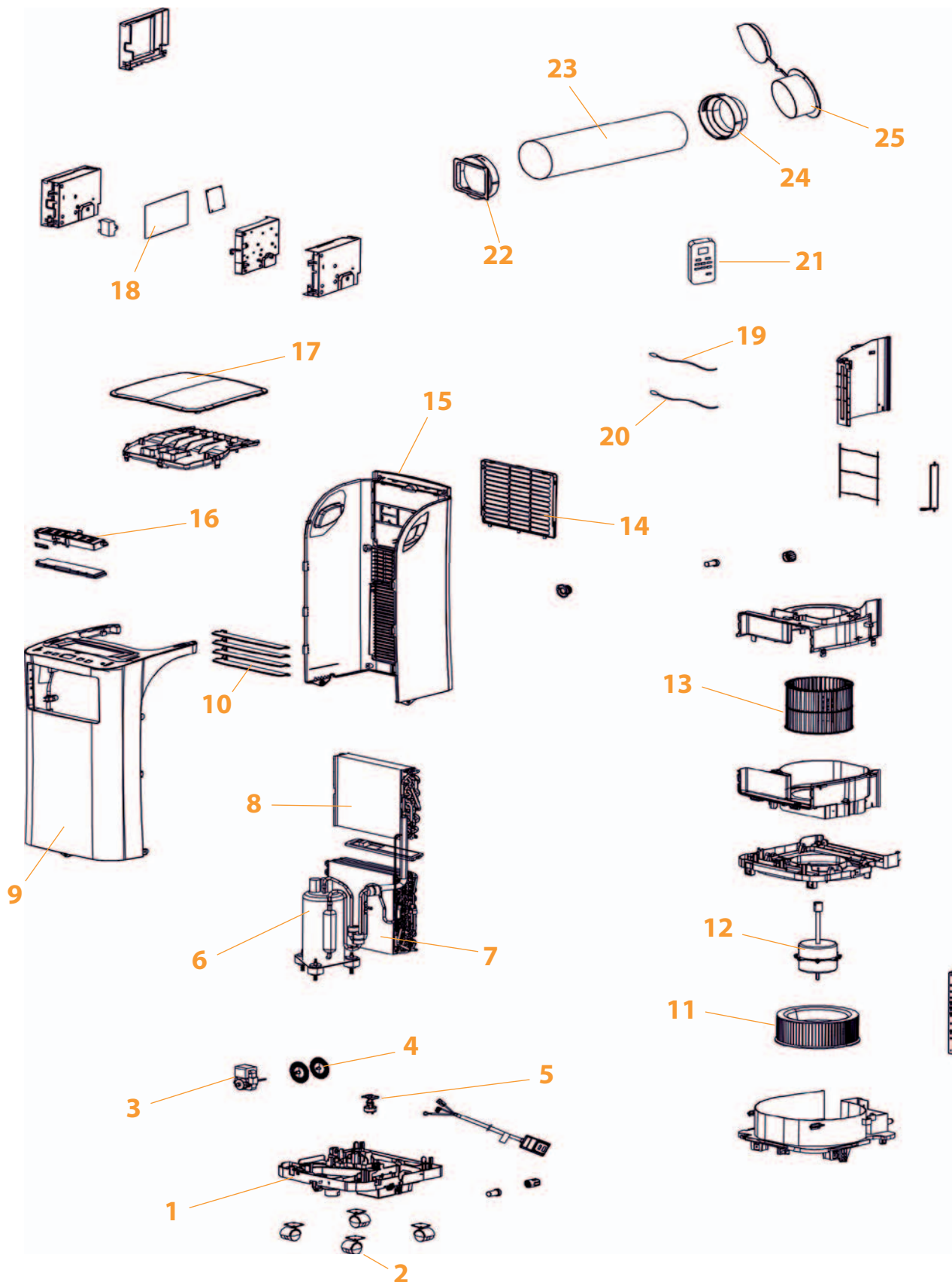


Fig. 13 Exploded view of unit CMK 2600

17.0 Spare parts list

No.	Designation
1	Unit base
2	Conveyor rollers
3	Condensate pump
4	Impeller for condensate pump
5	Liquid level switch
6	Compressor
7	Condenser
8	Evaporator
9	Front wall
10	Fins
11	Fan impeller (condenser fan)
12	Fan motor
13	Fan impeller (evaporator fan)
14	Filter grille
15	Back wall
16	Display board
17	Unit cover
18	Control board
19	Suction pipe (pipe contact sensor) temperature probe
20	Temperature sensor, recirculation
21	Infrared remote control
22	Unit connection port
23	Exhaust air hose
24	Window nozzle / wall pass-through connection port
25	Sealing cover

18.0 Accessories

No.	Designation
Not shown	Wall pass-through
Not shown	Window seal

When ordering spare parts, please state the EDP no., unit number and type (see name plate)!

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19.0 Technical data

Series		CMK 2600
Operating mode		Local room air conditioner for cooling
Nominal cooling output ¹⁾	kW	2.3
Energy efficiency ratio - cooling		A
Energy efficiency ratio cooling EER ¹⁾		2.6
Power consumption, annual, (500h)	kWh	452
Application area (room volume), approx.	m ³	80
Adjustment range indoor unit	°C	+17 to +30
Operating range - indoor unit	°C / % r.H.	+16 to +35 / +35 to +65
Refrigerant		R290
Max. operating pressure, cooling cycle	kPa	4200/1500
Refrigerant, basic quantity	kg	0.15
Refrigerant, CO ₂ equivalent	t	0.00
Recirculation air volume flow min./max.	m ³ /h	194/286
Sound pressure level min./max. ²⁾	dB(A)	47/53
Sound power level max.	dB(A)	62
Power supply	V/Ph/Hz	230/~/50
Enclosure class	IP	X0
Electr. rated power consumption ¹⁾	kW	0.90
Electr. rated current consumption ¹⁾	A	4.10
LRA	A	18
Exhaust air hose, length / diameter	mm/mm	1400/138
Dimensions - Height	mm	703
Width	mm	345
Depth	mm	355
Weight	kg	25.5

1) Room temperature TK 35 °C, FK 24 °C

2) Distance 1m free field

EU – Declaration of Conformity

Original Declaration of Conformity



We hereby declare that the units named below, as produced and sold by us, satisfy the relevant basic requirements of the EU directives, EU safety standards and product-specific EU standards.

Name of Manufacturer: **Intakt GmbH**
Climia - Klima- und Wärmetechnik
Niemeierstraße 13
D - 32758 Detmold

Name of the CE representative: **Intakt GmbH**
Climia - Klima- und Wärmetechnik
Niemeierstraße 13
D - 32758 Detmold

Equipment (machinery) variant: Local **room air conditioner**

Series / Class: CLIMIA CMK 2600
Series / Class Number: 1897...

Applicable provisions
(EU Directives)

The aforementioned products comply
with the following EU directives:

2014/35/EU - Low-Voltage Directive
2014/30/EU - Electromagnetic Compatibility
206/2012 for implementing directive 2009/125/EU
626/2011 for implementing directive 2010/30/EU
RoHS II 2011/65/EU

Applicable standards: DIN EN 55014: 2012
DIN EN 60335: 2012
DIN EN 14511: 2013
DIN EN 12102: 2013
DIN EN 50564: 2011

Detmold, 5/04/ 2019

Intakt GmbH


Signature, Manager Director

Intakt GmbH
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