

Climate 3000i

CL3000i-Set 26 E | CL3000i-Set 35 E | CL3000i-Set 53 E | CL3000i-Set 70 E

bg	Климатична сплит система	Ръководство за монтаж	
CS	Splitová klimatizační jednotka	Návod k instalaci	
da	Split-klimaanlæg	Installationsvejledning	23
de	Split-Klimagerät	Installationsanleitung	33
el	Κλιματιστικό Split _type	Οδηγίες εγκατάστασης	43
en	Split air conditioner	Installation instructions	54
es	Climatizador split	Manual de instalación	64
fr	Climatiseur split	Notice d'installation	74
hr	Mono split klima-uređaj	Upute za instalaciju	84
hu	Split klímakészülék	Szerelési útmutató	94
it	Condizionatore split	Istruzioni per l'installazione	104
mk	Сплит клима уред	Упатства за монтажа	115
nl	Split-airconditioning	Installatie-instructie	
pl	Urządzenie klimatyzacyjne split	Instrukcja montażu	
pt	Aparelho de ar condicionado Split	Instruções de instalação	146
ro	Aparat de aer condiționat	Instrucțiuni de instalare	156
sl	Split klimatska naprava	Navodila za namestitev	167
sq	Kondicioner Split	Kondicioner Split	177
sr/cnr	Split klima uređaj	Uputstvo za instalaciju	187
tr	Split tipi klima cihazı	Montaj kılavuzu	197
uk	Спліт кондиціонер	Інструкція з монтажу та технічного обслуговування	207

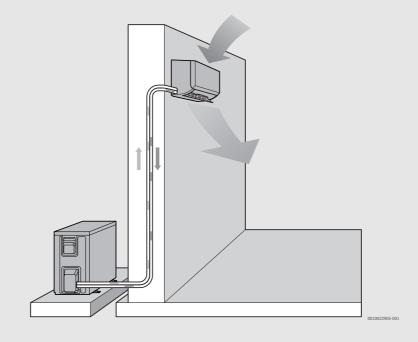






Table of contents

1	Explan	nation of symbols and safety instructions	54
	1.1	Explanation of symbols	54
	1.2	General safety instructions	55
	1.3	Notices regarding these instructions	55
2	Produc	ct Information	56
	2.1	Declaration of conformity	56
	2.2	Scope of delivery	56
	2.3	Product dimensions and minimum clearances	56
	2.3.1	Indoor unit and outdoor unit	56
	2.3.2	Refrigerant pipes	56
3	Installa	ation	56
	3.1	Before installation	56
	3.2	Requirements for installation site	56
	3.3	Unit installation	57
	3.3.1	Installing the indoor unit	57
	3.3.2	Installing the outdoor unit	57
	3.4	Pipework connection	57
	3.4.1	Connecting refrigerant pipes to the indoor and outdoor unit	57
	3.4.2	Connecting condensate pipe to the indoor unit	58
	3.4.3	Checking tightness and filling the system	58
	3.5	Electrical connection	58
	3.5.1	General notes	58
	3.5.2	Connecting the indoor unit	58
	3.5.3	Connecting the outdoor unit	59
4	Commi	issioning	59
	4.1	Commissioning checklist	59
	4.2	Functional test	59
	4.3	Handover to the user	59
5	Trouble	eshooting	60
	5.1	Faults with indication	60
	5.2	Faults without indication	61
6	Enviro	nmental protection and disposal	62
7	Data P	rotection Notice	62

1 Explanation of symbols and safety instructions

1.1 Explanation of symbols

Warnings

In warnings, signal words at the beginning of a warning are used to indicate the type and seriousness of the ensuing risk if measures for minimizing danger are not taken.

The following signal words are defined and can be used in this document:



DANGER

DANGER indicates that severe or life-threatening personal injury will occur



WARNING

WARNING indicates that severe to life-threatening personal injury may occur.



CAUTION

CAUTION indicates that minor to medium personal injury may occur.

NOTICE

NOTICE indicates that material damage may occur.

Important information



The info symbol indicates important information where there is no risk to people or property.

Symbol	Meaning
	Warning regarding flammable substances: the R32 refrigerant used in this product is a gas with mild combustibility and low toxicity (A2L or A2).
	Maintenance by a qualified person should be done while following the instructions of the service manual.
i	For operation follow the operating instructions for users.

Table 1



1.2 General safety instructions

⚠ Notices for the target group

These installation instructions are intended for qualified persons who are skilled in dealing with refrigeration engineering and HVAC technology and also electrical systems. All system-relevant instructions must be observed. Failure to comply with instructions may result in material damage and personal injury, including danger to life.

- ► Before carrying out the installation, read the installation instructions of all system components.
- ▶ Observe the safety instructions and warnings.
- ► Follow national and regional regulations, technical regulations and guidelines.
- ► Record all work carried out.

The indoor unit is intended for installation inside the building with connection to an outdoor unit and further system components, e.g. controls.

The outdoor unit is intended for installation outside the building with connection to an indoor unit or units and further system components, e.g. controls.

Any other use is considered inappropriate. Any damage that may result from misuse is excluded from liability.

For installation at special locations (underground garage, mechanical rooms, balcony or at any semiopen areas):

► First refer to the requirements for the installation site in the technical documentation.

⚠ General dangers posed by the refrigerant

- ➤ This appliance is filled with refrigerant R32. If the refrigerant gas gets into contact with fire, it may generate toxic gas.
- ► Thoroughly ventilate the room if refrigerant leaks during the installation.
- ► Check the tightness of the system following the installation.
- ▶ Do not to let any other substance than the specified refrigerant (R32) into the refrigerant cycle.

⚠ Safety of electrical devices for domestic use and similar purposes

The following requirements apply in accordance with EN 60335-1 in order to prevent hazards from occurring when using electrical appliances:

"This appliance can be used by children of 8 years and older, as well as by people with reduced physical, sensory or mental capabilities or lacking in experience and knowledge, if they are supervised and have been given instruction in the safe use of the appliance and understand the resulting dangers. Children shall not play with the appliance. Cleaning and user maintenance must not be performed by children without supervision."

"If the power cable is damaged, it must be replaced by the manufacturer, its customer service department or a similarly qualified person, so that risks are avoided."

⚠ Handover to the user

When handing over the air conditioning system, explain the operation and operating conditions to the user.

- ► Explain operation with particular emphasis on all safety-related actions.
- ► Highlight the following points in particular:
 - Point out that modifications or repairs may be carried out only by an approved contractor.
 - To ensure safe and environmentally compatible operation, an annual inspection, and also cleaning and maintenance if required, must be carried out.
- ▶ Point out the possible consequences (personal injury and possible danger to life or material damage) of not carrying out inspection, cleaning and maintenance correctly, or omitting it altogether.
- ► Hand over the installation and operating instructions to the user for safekeeping.

1.3 Notices regarding these instructions

The figures are shown together at the end of these instructions. The text contains references to the figures.

Depending on the model, the products may be different to those shown in these instructions.



2 Product Information

2.1 Declaration of conformity

The design and operating characteristics of this product comply with the European and national requirements.



The CE marking declares that the product complies with all the applicable EU legislation, which is stipulated by attaching this marking.

The complete text of the Declaration of Conformity is available on the Internet: worcester-bosch.co.uk.

2.2 Scope of delivery

Key to Fig. 1:

- [1] Outdoor unit (filled with refrigerant)
- [2] Indoor unit (filled with nitrogen)
- [3] Cold catalyst filter
- [4] Drainage elbow with gasket (for outdoor unit with floor or wall mounting bracket)
- [5] Remote control with batteries
- [6] Remote control holder with fixing screw
- [7] Fixing materials (5 screws and 5 wall plugs)
- [8] Set of printed documents for product documentation
- [9] 5-core communication cable (optional accessory)
- [10] 4 anti-vibration couplings for the outdoor unit

2.3 Product dimensions and minimum clearances

2.3.1 Indoor unit and outdoor unit

Figures 2 to 4.

2.3.2 Refrigerant pipes

Key to Fig. 5:

- [1] Gas-side pipe
- [2] Liquid-side pipe
- [3] Siphon-shaped elbow as oil separator



If the outdoor unit is positioned higher than the indoor unit, install a siphon-shaped elbow on the gas side after no more than 6 m and every 6 m thereafter (\rightarrow Fig. 5, [1]).

 Observe maximum pipe length and maximum difference in height between indoor unit and outdoor unit.

	Maximum pipe length ¹⁾ [m]	Maximum difference in height ²⁾ [m]
CL3000i 26 E	≤ 25	≤ 10
CL3000i 35 E	≤ 25	≤ 10
CL3000i 53 E	≤ 30	≤ 20
CL3000i 70 E	≤ 50	≤ 25

- 1) Gas side or liquid side
- 2) Measured from bottom edge to bottom edge.

Table 2 Pipe length and difference in height

		size
Unit type	Liquid side [mm]	Gas side [mm]
CL3000i 26 E	6.35 (1/4")	9.53 (3/8")
CL3000i 35 E	6.35 (1/4")	9.53 (3/8")
CL3000i 53 E	6.35 (1/4")	12.7 (1/2")
CL3000i 70 E	9.53 (3/8")	15.9 (5/8")

Table 3 Pipe diameter depending on appliance type

Pipe diameter [mm]	Alternative pipe diameter [mm]
6.35 (1/4")	6
9.53 (3/8")	10
12.7 (1/2")	12
15.9 (5/8")	16

Table 4 Alternative pipe diameter

Specification of the pipes	
Min. piping length	3 m
Standard piping length	5 m
Additional refrigerant if the pipe length exceeds 5 m (liquid side)	With Ø 6.35 mm (1/4"): 12 g/m
	With Ø 9.53 mm (3/8"): 24 g/m
Pipe thickness with 6.35 mm to 12.7 mm pipe diameter	≥ 0.8 mm
Pipe thickness with 15.9 mm pipe diameter	≥ 1.0 mm
Thickness of heat insulation	≥ 6 mm
Material of heat insulation	Polyethylene foam

Table 5

3 Installation

3.1 Before installation



CAUTION

Risk of injury from sharp edges!

▶ Wear protective gloves during installation.



CAUTION

Danger of burns!

During operation the pipes become hot.

- ► Make sure, that the pipes cooled down before touching them.
- ► Check the scope of delivery for damage.
- Check whether a hissing sound due to negative pressure can be detected when opening the pipes of the indoor unit.

3.2 Requirements for installation site

▶ Observe minimum clearances (→ Figs. 2 to 4).

Indoor unit

- Do not install the indoor unit in a room in which open ignition sources (for example: open flames, an operating wall mounted gas boiler or an operating electric heating system) are in operation.
- ▶ The installation site must not be higher than 2000 m above sea level.
- Keep the air inlet and air outlet clear of any obstacles to allow the air to circulate freely. Otherwise bad performance and higher noise level may occur.
- Keep TV, radio and similar appliances at least 1 m away from the unit and the remote control.
- ▶ Mount the indoor unit on a wall that absorbs vibrations.
- ► Take minimum room area into account.



	Unit type	Installation height [m]	Minimum room area [m²]
ſ	CL3000iU W 26 E	≥ 1.8	≥ 4
	CL3000iU W 35 E		
	CL3000iU W 53 E		
	CL3000iU W 70 E	≥ 1.8	≥ 6

Table 6 Minimum room area

If the installation height is lower, the floor area must be accordingly larger.

Outdoor unit

- The outdoor unit must not be exposed to machine oil vapour, hot spring vapour, sulphur gas, etc.
- Do not install the outdoor unit directly next to water or where it is exposed to sea air.
- ► The outdoor unit must always be kept free of snow.
- There must be no disruption caused by exhaust air or operating noise.
- Air should be able to circulate freely around the outdoor unit, but the appliance must not be exposed to strong wind.
- Condensate that forms during operation must be able to drain off easily. Lay a drain hose if required. In cold regions, installation of a drain hose is not advisable as it could freeze.
- ▶ Place the outdoor unit on a stable base.

3.3 Unit installation

NOTICE

Incorrect assembly can cause material damage.

If the unit is assembled incorrectly, it may fall off the wall.

- Only install the unit on a solid flat wall. The wall must be capable of supporting the weight of the unit.
- ► Only use screws and wall plugs that are suitable for the wall type and weight of the unit.

3.3.1 Installing the indoor unit

- ▶ Open the box at the top and lift the indoor unit out and up (→ Fig. 6).
- Place the indoor unit with the moulded parts of the packaging face down (→ Fig. 7).
- Undo screw and remove the mounting plate on the rear of the indoor unit.
- Determine the installation location, taking the minimum clearances into consideration (→ Fig. 2).
- Attach the mounting plate centrally with a screw and wall plug to the wall and level out (→ Fig. 8).
- ► Fasten the mounting plate with a further four screws and wall plugs so that the the mounting plate lies flat on the wall.
- ▶ Drill wall outlet for the piping (wall outlet should be behind the indoor unit as a recommendation → Fig. 9).
- ► Change the position of the condensate pipe if necessary (→ Fig. 10).



The pipe fittings on the indoor unit are generally located behind the indoor unit. We recommend extending the pipes before mounting the indoor unit

► Establish pipe connections as described in Chapter 3.4.1.

- ▶ Bend the piping in the required direction if necessary, and knock out an opening on the side of the indoor unit (→ Fig. 12).
- Noute the piping through the wall and attach the indoor unit to the mounting plate (→ Fig. 13).
- Fold up the top cover and remove one of the two filter elements (→ Fig. 14).
- ► Insert the filter which is included in the scope of delivery into the filter element, and mount the filter element again.

If it is necessary to take the indoor unit off the mounting plate:

▶ Pull the underside of the casing down in the area of the two recesses and pull the indoor unit forwards (→ Fig. 15).

3.3.2 Installing the outdoor unit

- ▶ Place the box so it is facing upwards.
- Cut and remove the packing straps.
- ▶ Pull the box up and off and remove the packaging.
- Prepare and mount a floor or wall mounting bracket, depending on the type of installation.
- Mount or hang the outdoor unit using the anti-vibration coupling for the feet which is supplied with the unit or is provided on site.
- ▶ When installing on the floor or wall mounting bracket, attach the supplied drainage elbow and gasket (→ Fig. 16).
- ► Remove the cover for the pipe connections (→ Fig. 17).
- ► Establish pipe connections as described in Chapter 3.4.1.
- ► Mount the cover for the pipe connections again.

3.4 Pipework connection

3.4.1 Connecting refrigerant pipes to the indoor and outdoor unit



CAUTION

Discharge of refrigerant due to leaky connections

Refrigerant may be discharged if pipe connections are incorrectly installed

▶ When reusing flared joints, always fabricate the flared part again.



Copper pipes are available in metric and imperial sizes, the flare nut thread is however the same. The flared fittings on the indoor and outdoor unit are intended for imperial sizes.

- ► When using metric copper pipes, replace the flare nuts with nuts of a suitable diameter (→ Table 7).
- ▶ Determine pipe diameter and length (→ Page 56).
- ightharpoonup Cut the pipe to length using a pipe cutter (ightharpoonup Fig. 11).
- ▶ Deburr the inside of the pipe at both ends and tap to remove swarf.
- ► Insert the nut onto the pipe.
- ▶ Widen the pipe using a flaring tool to the size indicated in the table 7. It must be possible to slide the nut up to the edge but not beyond it.
- ► Connect the pipe and tighten the screw fitting to the torque specified in the table 7.
- ► Repeat the above steps for the second pipe.

NOTICE

Reduced efficiency due to heat transfer between refrigerant pipes

- ► Thermally insulate the refrigerant pipes separately.
- ► Fit the insulation on the pipes and secure.



External diameter of pipe Ø [mm]	Tightening torque [Nm]	Flared opening diameter (A) [mm]	Flared pipe end	Pre-assembled flare nut thread
6.35 (1/4")	18-20	8.4-8.7	90°± 4	3/8"
9.53 (3/8")	32-39	13.2-13.5		3/8"
12.7 (1/2")	49-59	16.2-16.5	A	5/8"
15.9 (5/8")	57-71	19.2-19.7	45°±2 R0.4~0.8	3/4"

Table 7 Key data of pipe connections

3.4.2 Connecting condensate pipe to the indoor unit

The condensation catch pan of the indoor unit has two connections. A condensate hose and bung are mounted on these connections at the factory and can be replaced (\rightarrow Fig. 10).

▶ Only route the condensate hose with a slope.

3.4.3 Checking tightness and filling the system

Checking tightness

Observe the national and local regulations when carrying out the tightness test.

- ▶ Remove the caps on the three valves (\rightarrow Fig. 18, [1], [2] and [3]).
- Connect the Schrader opener [6] and pressure gauge [4] to the Schrader valve [1].
- ▶ Screw in the Schrader opener and open the Schrader valve [1].
- ▶ Leave valves [2] and [3] closed and fill the system with nitrogen until the pressure is 10 % above the maximum operating pressure (→ page 63).
- ► Check whether the pressure is still the same after 10 minutes.
- Discharge the nitrogen until the maximum operating pressure is reached.
- ▶ Check whether the pressure is still the same after at least 1 hour.
- ▶ Discharge nitrogen.

Filling the system

NOTICE

Malfunction due to incorrect refrigerant

The outdoor unit is filled with refrigerant R32 at the factory.

- If refrigerant needs to be topped up, only use the same refrigerant. Do not mix refrigerant types.
- ► Evacuate and dry system with a vacuum pump (→ Fig. 18, [5]) until the pressure is roughly -1 bar (or approx. 500 microns).
- ▶ Open the valve at the top [3] (liquid side).
- ▶ Use a pressure gauge [4] to check whether the flow is unobstructed.
- Open valve at bottom [2] (gas side).
 The refrigerant is distributed round the system.
- ► Afterwards, check the pressure ratios.
- ▶ Unscrew the Schrader opener [6] and close the Schrader valve [1].
- ▶ Remove the vacuum pump, pressure gauge and Schrader opener.
- ► Reattach the valve caps.
- Reattach the cover for pipe connections to the outdoor unit.

3.5 Electrical connection

3.5.1 General notes

$\dot{}$

WARNING

Risk to life from electric shock!

Touching live electrical parts can cause an electric shock.

- Before working on electrical parts, disconnect all phases of the power supply (fuse/circuit breaker) and lock the isolator switch to prevent unintentional reconnection.
- Work on the electrical system must only be carried out by a qualified electrician.
- Observe safety measures according to national and international regulations.
- If there is a safety issue with the power supply or if there is a short circuit during installation, inform the customer in written form and do not install the unit until the issue is resolved.
- All electrical connections must be made in accordance with the electrical connection diagram.
- Only strip cable insulation with the correct tools.
- Do not connect any additional loads to the mains power supply of the unit
- ▶ Do not mix up live and neutral wires. This can lead to malfunctions.
- ▶ If the mains power supply is fixed, install an overvoltage protector and isolator which is designed for 1.5 times the maximum power consumption of the unit.

3.5.2 Connecting the indoor unit

The indoor unit is connected to the outdoor unit using a 5-core communication cable of the type HO7RN-F. The conductor cross-section of the communication cable should be at least 1.5 mm².

NOTICE

Material damage due to incorrectly connected indoor unit

Voltage is supplied to the indoor unit via the outdoor unit.

Only connect the indoor unit to the outdoor unit.

To connect the communication cable:

- ▶ Fold up the top cover (\rightarrow Fig. 19).
- ► Undo screw and remove cover of the interface panel.
- ► Remove screw and cover [1] of the terminal (→ Fig. 20).
- Knock out an opening for the cable feed [3] on the rear of the indoor unit and feed the cable through.
- Secure cable to the strain relief [2] and connect to the terminals W, 1(L), 2(N), S and .
- ▶ Note assignment of wires to the terminals.
- ► Reattach the covers.
- ► Route the cable to the outdoor unit.



3.5.3 Connecting the outdoor unit

A power cable (3-core) is connected to the outdoor unit and the communication cable is connected to the indoor unit (5-core). Use cables of the type H07RN-F with sufficient conductor cross-section and protect the mains power supply with a fuse (\rightarrow Table 8).

Outdoor unit	Mains fuse	Conductor cross-section		
	protection	Power cable	Communication cable	
CL3000i 26 E	13 A	≥ 1.5 mm ²	$\geq 1.5 \text{ mm}^2$	
CL3000i 35 E	13 A	≥ 1.5 mm ²	$\geq 1.5 \text{ mm}^2$	
CL3000i 53 E	16 A	≥ 1.5 mm ²	$\geq 1.5 \text{ mm}^2$	
CL3000i 70 E	25 A	$\geq 2.5 \text{mm}^2$	$\geq 2.5 \text{ mm}^2$	

Table 8

- ► Undo the screw and remove the cover of the electrical connection (→ Fig. 21).
- Secure the communication cable to the strain relief and connect to the terminals W, 1(L), 2(N), S and ⊕ (assignment of wires to terminals same as indoor unit) (→ Fig. 22).
- Secure power cable to the strain relief and connect to the terminals L, N and (1).
- ► Reattach cover.

4 Commissioning

4.1 Commissioning checklist

1	Outdoor unit and indoor unit are correctly installed.
2	Pipes are correctly
3	Condensate pipes are functioning correctly and have been tested.
4	Electrical connection has been correctly established. Power supply is in the normal range Protective conductor is properly attached Connection cable is securely attached to the terminal strip
5	All covers are fitted and secured.
6	The horizontal louver of the indoor unit is fitted correctly and the actuator is engaged.

Table 9

4.2 Functional test

The system can be tested once the installation including tightness test has been carried out and the electrical connection has been established:

- ► Connect the power supply.
- ▶ Switch on indoor unit with the remote control.
- ▶ Press the **Mode** key to set the cooling mode (**).
- ▶ Press arrow key (V) until the lowest temperature is set.
- ► Test cooling mode for 5 minutes.
- ▶ Press the Mode key to set the heating mode (☆).
- ▶ Press arrow key (∧) until the highest temperature is set.
- ► Test heating mode for 5 minutes.
- Ensure freedom of movement of horizontal louver.



If the room temperature is less than 17 °C, the cooling mode must be switched on manually. This manual operation is only envisaged for testing and emergency situations.

▶ Otherwise, always use the remote control.

To switch on the cooling mode manually:

- ► Switch off the indoor unit.
- Press the key for the manual cooling mode twice with a thin object (→ Fig. 23).
- Press the **Mode** key on the remote control to exit cooling mode when it has been set manually.



In a system with multi-split air conditioner, manual operation is not possible.

4.3 Handover to the user

- When the system has been set up, hand over the installation manual to the customer.
- Explain to the customer how to use the system, referring to the operation manual.
- ► Advise the customer to carefully read the operation manual.



5 Troubleshooting

5.1 Faults with indication



WARNING

Risk to life from electric shock!

Touching live electrical parts can cause an electric shock.

▶ Before working on electrical parts, disconnect all phases of the power supply (fuse/circuit breaker) and lock the isolator switch to prevent unintentional reconnection.

If a fault occurs during operation, a fault code appears in the display (e.g. $EH\ 02$).

If a fault is present for more than 10 minutes:

▶ Briefly interrupt the power supply and switch the indoor unit back on.

If a fault persists:

► Call customer service and provide the fault code and details of the appliance.

Fault code	Possible Cause
EC 07	Fan speed of outdoor unit outside the normal range
EC 51	Faulty parameter in the EEPROM of the outdoor unit
EC 52	Temperature sensor error at T3 (condenser coil)
EC 53	Temperature sensor error at T4 (outside temperature)
EC 54	Temperature sensor error at TP (compressor discharge pipe)
EC 56	Temperature sensor error at T2B (outlet of evaporator coil; freely adjustable indoor units)
EH OA	Faulty parameter in the EEPROM of the indoor unit
EH 00	
EH 0b	Communication error between main PCB of indoor unit and display
EH 02	Fault when detecting the zero-crossing signal
EH 03	Fan speed of indoor unit outside the normal range
EH 60	Temperature sensor error at T1 (room temperature)
EH 61	Temperature sensor error at T2 (centre of evaporator coil)
EL 0C	Insufficient or escaping refrigerant or temperature sensor error at T2
EL 01 ¹⁾	Communication error between indoor and outdoor unit
PC 00	Fault at IPM module or IGBT overcurrent protection
PC 01	Over- or undervoltage protection
PC 02	Temperature protection at compressor or overheating protection at IPM module or pressure relief device
PC 03	Low pressure protection
PC 04	Inverter compressor module error
PC 08	Protection against current overload
PC 40	Communication fault between main PCB of outdoor unit and main PCB of compressor drive
	Conflicting operating mode of indoor units; operating mode of indoor units and outdoor unit must correspond.

¹⁾ Leak detection not active if in a system with multi-split air conditioner.

Table 10



5.2 Faults without indication

Error	Possible Cause	Remedy
The output of the indoor unit is too low.	Heat exchanger of outdoor or indoor unit soiled.	Clean heat exchanger of outdoor or indoor unit.
	Lack of refrigerant	Check tightness of pipes, reseal if required.Refill refrigerant.
Outdoor unit or indoor unit is not working.	No power	Check power connection.Power on the indoor unit.
	RCD or fuse Fuse has tripped.	Check power connection.Check RCD or fuse.
Outdoor unit or indoor unit starts and stops continuously.	Insufficient refrigerant in the system.	Check tightness of pipes, reseal if required.Refill refrigerant.
	Too much refrigerant in the system.	Remove refrigerant with refrigerant recovery unit.
	Moisture or impurities in the refrigerant circuit.	Evacuate refrigerant circuit.Fill with new refrigerant.
	Voltage fluctuations too high.	► Install voltage regulator.
	Defective compressor.	► Replace compressor.

Table 11



6 Environmental protection and disposal

Environmental protection is a fundamental corporate strategy of the Bosch Group.

The quality of our products, their economy and environmental safety are all of equal importance to us and all environmental protection legislation and regulations are strictly observed.

We use the best possible technology and materials for protecting the environment taking account of economic considerations.

Packaging

Where packaging is concerned, we participate in country-specific recycling processes that ensure optimum recycling.

All of our packaging materials are environmentally compatible and can be recycled.

Used appliances

Used appliances contain valuable materials that can be recycled. The various assemblies can be easily dismantled. Synthetic materials are marked accordingly. Assemblies can therefore be sorted by composition and passed on for recycling or disposal.

Old electrical and electronic appliances

X

This symbol means that the product must not be disposed of with other waste, and instead must be taken to the waste collection points for treatment, collection, recycling and disposal.

The symbol is valid in countries where waste electrical and electronic equipment regulations apply, e.g. "European Directive 2012/19/EC on old electronic and electrical appliances". These regulations define the framework for the return and recycling of old electronic appliances that apply in each country.

As electronic devices may contain hazardous substances, it needs to be recycled responsibly in order to minimize any potential harm to the environment and human health. Furthermore, recycling of electronic scrap helps preserve natural resources.

For additional information on the environmentally compatible disposal of old electrical and electronic appliances, please contact the relevant local authorities, your household waste disposal service or the retailer where you purchased the product.

You can find more information here: www.weee.bosch-thermotechnology.com/

Batteries

Batteries must not be disposed together with your household waste. Used batteries must be disposed of in local collection systems.

Refrigerant R32



The appliance contains fluorinated gas R32 (global warming potential 675^{1}) mild combustibility and low toxicity (A2L or A2).

Contained quantity is indicated on the equipment outdoor unit name label.

Refrigerant is hazardous to the environment and must be collected and disposed of separately.

7 Data Protection Notice



We, Bosch Thermotechnology Ltd., Cotswold Way, Warndon, Worcester WR4 9SW, United Kingdom process product and installation information, technical and connection data, communication data, product registration and client history data to provide product functionality (art. 6 (1) sentence 1 (b)

GDPR), to fulfil our duty of product surveillance and for product safety and security reasons (art. 6 (1) sentence 1 (f) GDPR), to safeguard our rights in connection with warranty and product registration questions (art. 6 (1) sentence 1 (f) GDPR) and to analyze the distribution of our products and to provide individualized information and offers related to the product (art. 6 (1) sentence 1 (f) GDPR). To provide services such as sales and marketing services, contract management, payment handling, programming, data hosting and hotline services we can commission and transfer data to external service providers and/or Bosch affiliated enterprises. In some cases, but only if appropriate data protection is ensured, personal data might be transferred to recipients located outside of the European Economic Area. Further information are provided on request. You can contact our Data Protection Officer under: Data Protection Officer, Information Security and Privacy (C/ISP), Robert Bosch GmbH, Postfach 30 02 20, 70442 Stuttgart, GERMANY.

You have the right to object, on grounds relating to your particular situation or where personal data are processed for direct marketing purposes, at any time to processing of your personal data which is based on art. 6 (1) sentence 1 (f) GDPR. To exercise your rights, please contact us via **privacy.ttgb@bosch.com** To find further information, please follow the QR-Code.

Based on ANNEX I of REGULATION (EU) No 517/2014 of the European Parliament and of the Council of 16 April 2014.

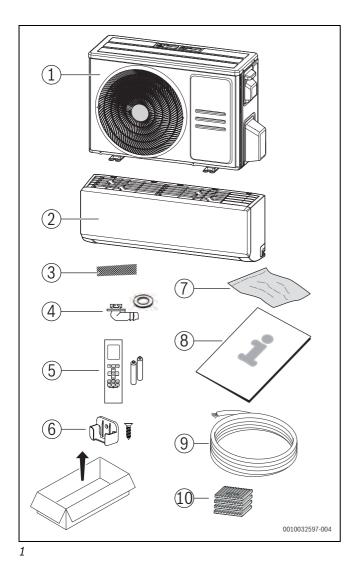


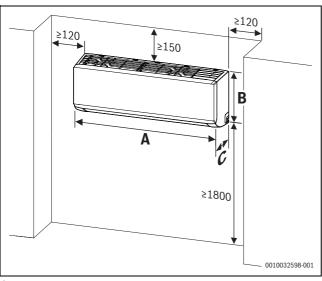
8 Technical Data

Indoor unit Outdoor unit		CL3000iU W 26 E CL3000i 26 E	CL3000iU W 35 E CL3000i 35 E	CL3000iU W 53 E CL3000i 53 E	CL3000iU W 70 E CL3000i 70 E
Cooling					
Rated output	kW	2,6	3,5	5,3	7,0
Tutou output	kBTU/h	9	12	18	24
Power input at rated output	W	733	1096	1550	2402
Output (min max.)	KW	1.0-3.2	1.4-4.3	2.1-5.9	3.4-8.2
Power input (min max.)	W	80-1100	120-1650	420-2050	560-3200
Cooling load (Pdesignc)	kW	2,8	3,6	5,3	7,0
Energy efficiency (SEER)		7.4	7.0	7.0	6.4
Energy efficiency class		A++	A++	A++	A++
Heating – general		A ⁺⁺	ATT	ATT	HTT.
Rated output	kW	2,9	3,8	5,6	7,3
nated output					
	kBTU/h	10	13	19	25
Power input at rated output	W	771	1027	1750	2130
Output (min max.)	KW	0.8-3.4	1.1-4.4	1.6-5.8	3.1-8,2
Power input (min max.)	W	70-990	110-1480	300-2000	780-3100
Heating – colder climate					
Heating load (Pdesignh)	kW	3,8	3,8	6,7	10,8
Energy efficiency (SCOP)	_	3,1	3,4	3,1	2,7
Energy efficiency class	_	В	Α	В	D
Heating – average climate					
Heating load (Pdesignh)	kW	2,5	2,5	4,2	4,9
Energy efficiency (SCOP)	-	4,1	4,2	4,0	4,0
Energy efficiency class	-	A+	A+	A+	A+
Heating - warmer climate					
Heating load (Pdesignh)	kW	2,5	2,5	4,5	5,3
Energy efficiency (SCOP)	_	5,2	5,5	5,1	5,1
Energy efficiency class	-	A+++	A+++	A+++	A+++
General					
Power supply	V / Hz	220-240 / 50	220-240 / 50	220-240 / 50	220-240 / 50
Max. power consumption	W	2150	2150	2500	3700
Max. current consumption	Α	10	10	13	19
Refrigerant	_	R32	R32	R32	R32
Refrigerant charge	g	600	650	1100	1450
Design pressure	MPa	4.3/1.7	4.3/1.7	4.3/1.7	4.3/1.7
Indoor unit		,	,	,	,
Air flow rate (high/medium/low)	m ³ /h	520/460/330	530/400/350	800/600/500	1090/770/610
Sound pressure level (high/medium/low/noise reduction)	dB(A)	37/32/22/20	37/32/22/21	41/37/31/20	46/37/34.5/21
Sound power level	dB(A)	54	56	56	62
Permissible ambient temperature (cooling/heating)	℃	1732/030	1732/030	1732/030	1732/030
Net weight/gross weight	kg	8.0/10.5	8.7/11.5	11.2/14.6	13.6/17.3
Outdoor unit	<u> </u>	1., 1.2	, , ,	1 ,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Air flow rate	m ³ /h	1850	1850	2100	3700
Sound pressure level	dB(A)	56	55	57	60
Sound power level	dB(A)	62	63	65	67
Permissible ambient temperature (cooling/heating)	°C	-1550/-1524	-1550/-1524	-1550/-1524	-1550/-1524
Net weight/gross weight	kα	23.5/25.4	23.7/25.5	33.5/36.1	43.9/46.9
Mer MeiRiir/Rinoss MeiRiir	kg	23.3/23.4	23.1/23.3	33.3/30.1	43.3/40.3

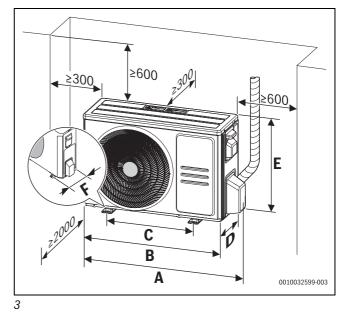
Table 12



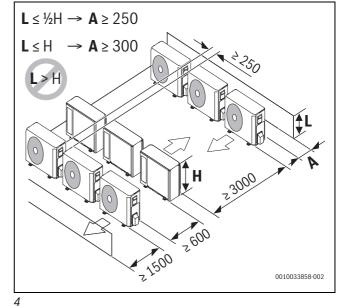




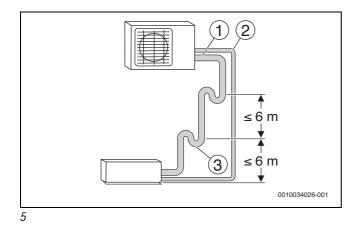
	A [mm]	B [mm]	C [mm]
CL3000iU W 26 E	729	292	200
CL3000iU W 35 E	802	295	200
CL3000iU W 53 E	971	321	228
CL3000iU W 70 E	1082	337	234

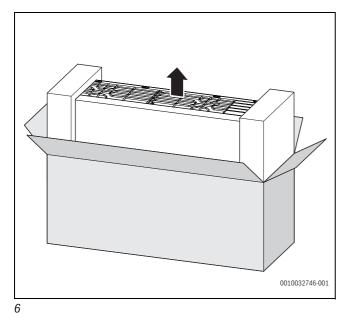


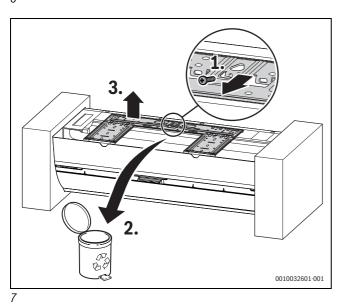
	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]
CL3000i 26 E	790	720	452	270	495	255
CL3000i 35 E	790	720	452	270	495	255
CL3000i 53 E	874	805	511	330	554	317
CL3000i 70 E	955	890	663	342	673	354

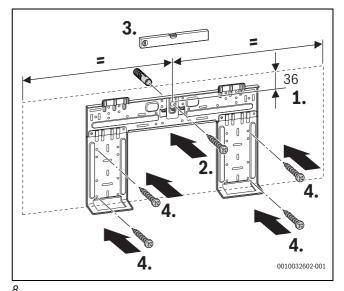


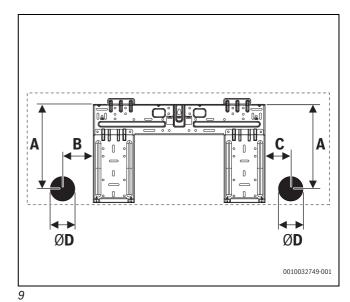
BOSCH





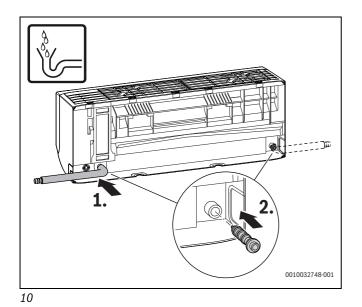


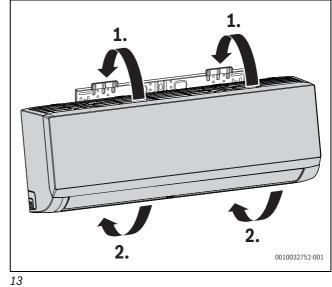


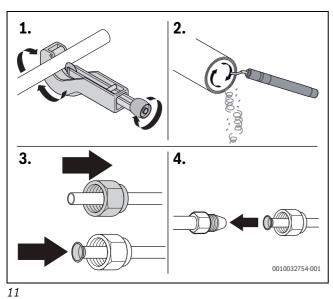


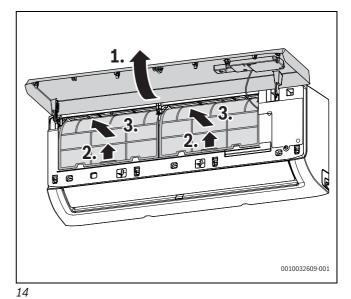
	A [mm]	B[mm]	C[mm]	D[mm]
CL3000iU W 26 E	240	45	80	65
CL3000iU W 35 E	250	135	65	65
CL3000iU W 53 E	270	50	80	65
CL3000iU W 70 E	280	70	115	90

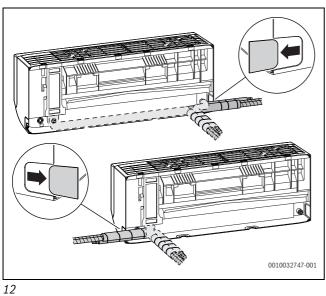


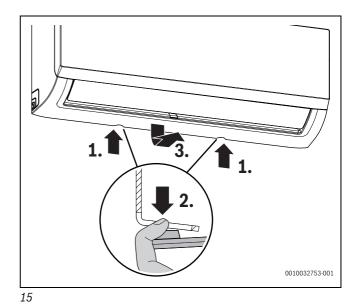




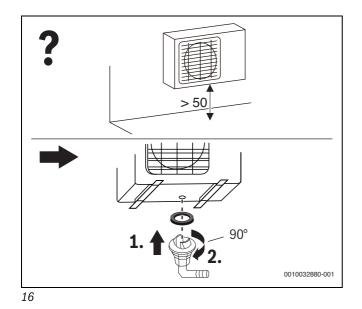


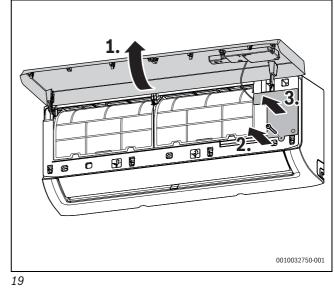






BOSCH





3.

COR

0010032916-001

