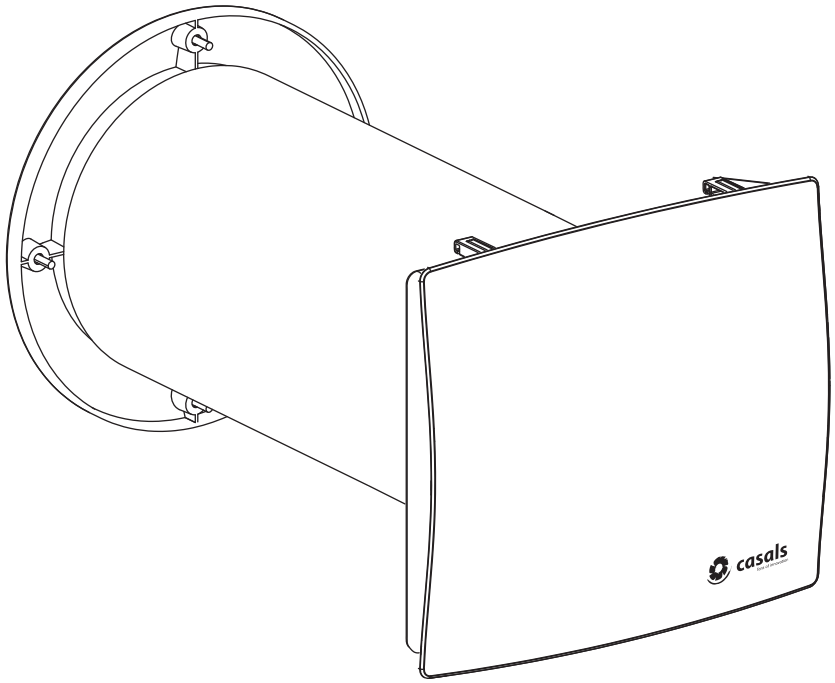
KRISONA 40 EEC DUO

Decentralized ventilation system with heat recovery

User manual



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CV062021-1

Read the instructions contained in this booklet carefully before using the appliance.
Casals cannot assume any responsibility for damage to property or personal injury resulting from failure to abide by the instructions given in this booklet.
Following these instructions will ensure a long service life and overall electrical and mechanical reliability.
Keep this instruction booklet in a safe place.

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ENGLISH

Description and use

Krisona 40 EEC DUO (hereinafter "the appliance") is a non-central ventilation system with heat recovery, which can be installed on perimeter walls of between 285 mm and 700 mm in thickness.
The appliance is controlled via wired Remote Control (external). The Remote Control contains: circuit board, buttons and diagnostics LEDs. The Remote Control can manage up to 6 appliances simultaneously (See "Items supplied" and "Use" for a detailed description of the various components and functions).
These appliances are particularly suitable for continuous operation.
These appliances can also work when connected to optional environmental sensors.
These appliances can also work when connected to others Casals air extractors.
(See the Instructions booklet supplied with the Remote Control: “Remote inputs to connect with environmental sensors and/or others Casals air extractors”).

These appliances have been designed for use in residential and commercial properties.

Safety

Warning:
this symbol indicates that care must be taken to avoid injury to the user

- Follow the safety instructions to prevent any harm to the user.
- Do not use this appliance for purposes other than those described in this manual.
- Having removed the appliance from its packaging, make certain that it is intact and undamaged. If in doubt, consult a professional or contact an authorized Casals Service Centre.
- Do not leave packaging within reach of children or individuals with disabilities.
- Certain basic rules must always be observed when using any electrical appliance: never touch the appliance with wet or damp hands; never touch the appliance when barefoot.
- Do not operate the appliance in the presence of flammable substances or vapours, such as alcohol, insecticides, petrol, etc.
- If the appliance is to be disconnected from the power supply and no longer used, store it out of reach of children and individuals with disabilities.
- Precautions must be taken to prevent gas coming from the gas flue pipe or from other fuel combustion units from entering into the room.
- This appliance can be used by children no less than 8 years of age and by individuals with limited physical, sensory or mental capacities, or by inexperienced or untrained individuals, provided that they are supervised or have been instructed in safe use of the appliance and understand the associated risks. Children must not play with the appliance. Cleaning and maintenance procedures - for which the user is responsible - must not be carried out by children unless supervised.
- Protection against the access to the live parts is exclusively granted by the installation carried out by professional installer or CASALS authorized technical support center, in conformity with installation requirements shown into the Instruction Booklet.

Caution:
this symbol indicates that care must be taken to avoid damaging the appliance

- Do not make modifications of any kind to this appliance.
- The maintenance instructions must be followed to ensure the appliance does not suffer damage and/or excessive wear.
- Do not expose this appliance to the elements (rain, sun, etc.).
- Do not stand objects on the appliance.
- The inside of the appliance must be cleaned only by a skilled professional.
- Inspect the appliance periodically for visible defects. If the appliance is defective in any way, do not use it; contact a Casals authorized Technical Support Centre without delay.
- If the appliance does not function correctly or develops a fault, contact a Casals authorized Technical Support Centre without delay. Ensure that only genuine original Casals spares are used for any repairs.
- Should the appliance be dropped or suffer heavy impact, have it checked without delay by a Casals authorized Technical Support Centre.
- The appliance must be installed in such a way as to ensure that under normal operating conditions, no one can come into contact with any moving parts or live electrical components.
- In the event of: dismantling the appliance with the appropriate tools, removing the heat exchanger or removing the motor module, the appliance must first be switched off and disconnected from the electrical power supply.
- The electrical system to which the appliance is connected must comply with current regulations.
- Connect the appliance to the electrical power supply/socket only if the rated power of the supply is compatible with the

maximum rated power of the appliance. If not, contact a professional electrician without delay.
- Turn off the appliance at the main switch: if the appliance does not function correctly, before cleaning the outside of the appliance, or if the appliance is not going to be used for any length of time.
- The flow of extracted air must be clean (i.e. free of grease, soot, chemical and corrosive agents and explosive or flammable mixtures).
- Keep the air intake and outlet ports of the appliance free of obstructions, to ensure optimum air flow.
- Operating temperature range: -20 ÷ 50°C.
- Specifications for the power supply must correspond to the electrical data on ID plate A (Fig. A).
- The appliance must be installed by a professionally qualified technician.
- An omnipolar switch with a contact opening distance of 3 mm or higher should be provided for installation, enabling complete disconnection under overvoltage category III conditions.

Items supplied

The main parts of the appliance are:
- foamed polypropylene casing.
- inner panel made of self-extinguishing plastic polymer, covered with thermo-insulating material.
- rigid external grille in plastic UV protection plastic, can be assembled externally using dowels.
- insect mesh, which can be inserted in the duct together with the external grille.
- EC fan unit powered at low voltage.
- accumulator heat exchanger, made of ceramic material.
- washable G3 filter.
- washable pre-filter.
- pipe for installation within walls of from 285 to 700 mm in thickness (optional).
- gasket bag for PVC tube.

Installation

Fig 1 ÷ 20

NOTE: before proceeding with the installation, remove the internal protective packaging in the appliance.

NOTE: before carrying out installation, remove the spacers inside the PVC installation pipe and cut the pipe according to the wall thickness.

Installation must be performed in accordance with current safety regulations in the destination country, and with the instructions in this booklet. Minimum mounting height: 2,30 m (referring to finished floor plane).
The appliance must be mounted within a perimeter wall with a thickness of at least 285 mm.

N.B. For the appliance to work properly, it must be installed with the connector socket located at the top, as shown in fig. 17

Adjustable front cover

The front cover (of the appliance) is manually adjustable in 2 positions:
- Airflow ON (permitted): Fig. 20A
- Airflow OFF (not permitted): Fig. 20B

Caution:
this symbol indicates that care must be taken to avoid damaging the appliance

Only for appliances combined with environmental sensors and or others Casals air extractors
If the front cover is closed (Airflow OFF), you have to disconnect appliance from the electric system, in order to avoid involuntary running (of the product).

Use

Fig. 22
Krisona 40 EEC DUO
The appliance is controlled via wired Remote Control.
Buttons:
Ⓐ= button SPEED;
Ⓑ= button MODE;
Ⓒ= button BOOST;

LEDs:
① = LED 1 = SPEED 1 (white);
② = LED 2 = SPEED 2 (white);
③ = LED 3 = SPEED 3 (white);
④ = LED 4 = SPEED 4 (white);
⑤ = LED 5 = LED EXTRACTION (white);
⑥ = LED 6 = LED VENTILATION (white);
⑦ = LED 7 = LED RECOVERY (white);
⑧ = LED 8 = LED FILTER (red);
⑨ = LED 9 = LED BOOST (blue).

(See Instructions Manual provided with the Remote Control: "Remote Control Control Panel").

Below is a list of the main functions of the device:

- Ⓐ **= SPEED button: airflow selector**
  Press repeatedly to select speeds:
  - 0: Stand-by/fans off (LED 1+ LED 2 + LED 3 + LED 4: off);
  - 1: Minimum flow rate (LED 1: on);
  - 2: Average flow rate (LED 1 + LED 2: on);
  - 3: High flow rate (LED 1 + LED 2 + LED 3: on);
  - 4: Maximum flow rate (LED 1 + LED 2 + LED 3 + LED 4: on);

- Ⓑ **= MODE button: fan mode selector**
  Press repeatedly to select modes:
  - RECOVERY (LED RECOVERY: on);
  - VENTILATION (LED VENTILATION: on);
  - EXTRACTION (LED EXTRACTION: on).

- Ⓒ **= BOOST button: max speed selector**
  Press repeatedly to select modes:
  - BOOST on (BOOST LED + LED 1 + LED 2 + LED 3 + LED 4: on);
  - BOOST off (BOOST LED + LED 1 + LED 2 + LED 3 + LED 4: off).

Only for VENTILATION or RECOVERY modes:
In the event that 2,3,4,5,6 units are connected to the Remote Control, these units will be piloted so as to ensure the balance of the overall flow in ventilation mode with heat recovery.
In the case of "ODD Number" connected units (3/5), system balancing may require 2 units to be stopped, in rotation (depending on the speed setting). Further informations about "EVEN/ODD units number": see Instructions Manual provided with the Remote Control: "Setting operating parameters", "Selecting the number of devices to be controlled").

Wiring diagrams

See fig. 22 - 23

A) Appliance: Krisona 40 EEC DUO (See Fig. 22)

① FAN header terminal block;
② FAN plug terminal block;
③ Krisona 40 EEC DUO fan.

B) Remote Control: Control Krisona DUO (See Fig. 23)

① Electronic board (rear view);
② 12 V Electric supply:
  2A electric diagram for wall mounting;
  2B electric diagram for DIN electric panel;
③ Dry contact, without electrical potential (remote switch/relay);
④ Mains 2 poles switch (230V ~ 50Hz).

Maintenance and cleaning

Before commencing any servicing operation, make sure that the appliance is disconnected from the electrical power supply.
Dismantling and assembly are special maintenance operations and must be entrusted to professional technicians.

Filter maintenance

Recommended maintenance intervals: Because levels of air pollution depend typically on geographical location and are variable, the life of the filters will be similarly variable. With this general consideration in mind, the filter maintenance intervals are in any case pre-set as follows:

- 90 days;
- 180 days;
- 365 days.

(See Instructions Manual provided with the Remote Control: "Programming filter replacement").

Warning: filter replacement

After the scheduled amount of filter replacement time (90,180,365 days), the steady LED FILTER light (red) will light up on the remote control display (without locking the device):

- LED FILTER off: filters clean;
- LED FILTER steady on: filters to be cleaned or replaced.

Further informations: see Instructions Manual provided with the Remote Control: paragraph “Setting operating parameters”, under "Programming filter replacement".

Resetting the warning: filter replacement

The filter replacement warning (red steady on LED FILTER) must be reset after filter cleaning/replacement.
To reset the clogged filter counter:

- Simultaneously press the Speed - Mode - Boost buttons;
- Press the buttons Speed - Speed - Mode - Mode - Boost – Boost in sequence;
- Press any button without 30sec;
- The red LED FILTER will flash briefly to indicate reset has occurred and the machine will return to normal operation.

Important: if no button is pressed within 30sec, the LED BOOST (blue) will flash and the machine will return to normal operation without having first reset the filter timer.

Filter cleaning

The G3 filter can be cleaned directly by the user by removing the filter, washing it and then refitting it, ensuring it is correctly secured with the spring clip. (fig.24)

Caution:
this symbol indicates that care must be taken to avoid damaging the appliance

We also recommend calling a Technical Support Centre once a year to have the appliance and its internal filters cleaned.
N.B. Failure to clean or replace filters can affect system efficiency, causing:
- increased loss of pressure in the air circulation system and reduced airflow;
- subsequent drop in system performance and in comfort levels.

ENGLISH

Important information concerning the environmentally compatible disposal

IN CERTAIN EUROPEAN UNION COUNTRIES THIS PRODUCT DOES NOT FALL WITHIN THE REQUIREMENTS OF THE NATIONAL LAWS IMPLEMENTING DIRECTIVE WEEE, AND IN THESE COUNTRIES THE PRODUCT IS NOT SUBJECT TO SEPARATE DISPOSAL OPERATIONS AT THE END OF ITS WORKING LIFE.

This product conforms to EU Directive EU 2012/19/EC.

This appliance bears the symbol of the barred waste bin. This indicates that, at the end of its useful life, it must not be disposed of as domestic waste, but must be taken to a collection centre for waste electrical and electronic equipment, or returned to a retailer on purchase of a replacement.



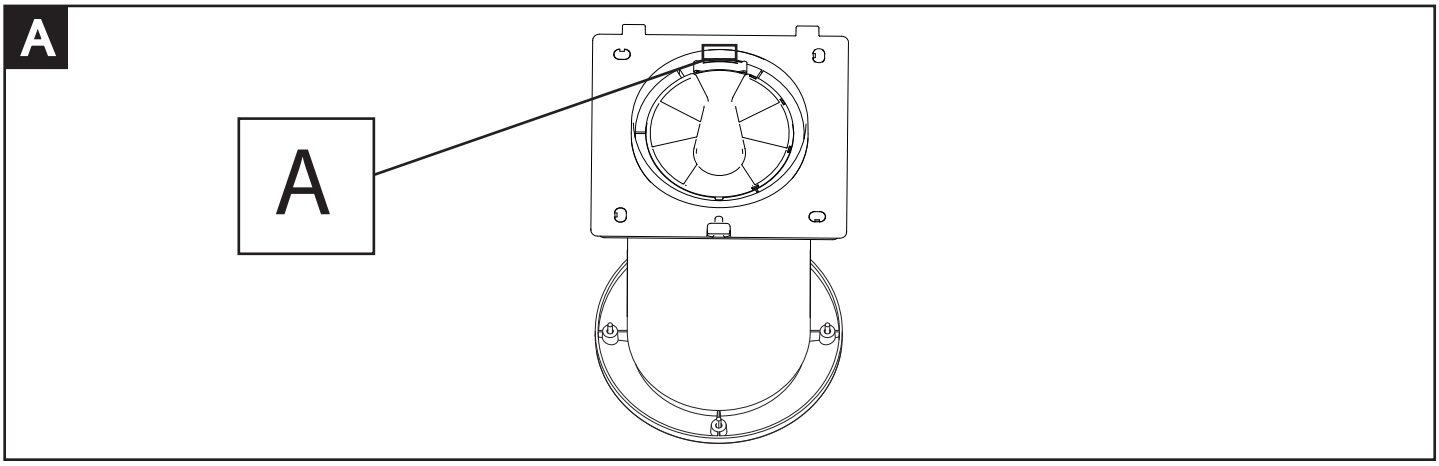
It is the user's responsibility to dispose of this appliance through the appropriate channels at the end of its useful life. Failure to do so may incur the penalties established by laws governing waste disposal.

Proper differential collection, and the subsequent recycling, processing and environmentally compatible disposal of waste equipment avoids unnecessary damage to the environment and possible related healthrisks, and also promotes recycling of the materials used in the appliance.

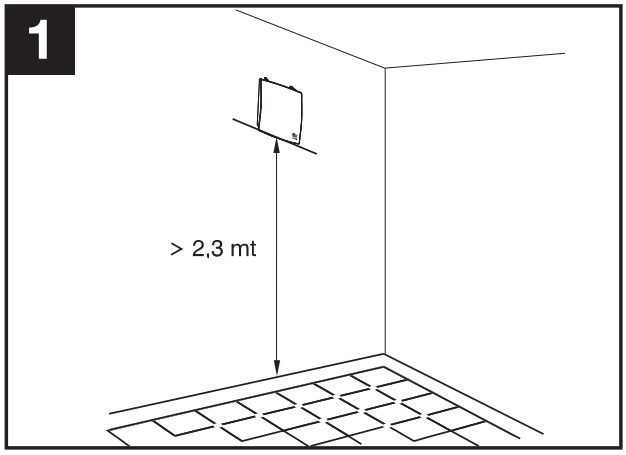
For further information on waste collection and disposal, contact your local waste disposal service, or the shop from which you purchased the appliance.

Manufacturers and importers fulfil their responsibilities for recycling, processing and environmentally compatible disposal either directly or by participating in collective systems.

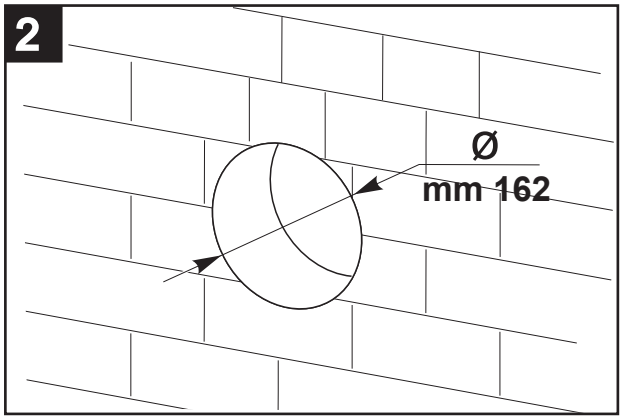
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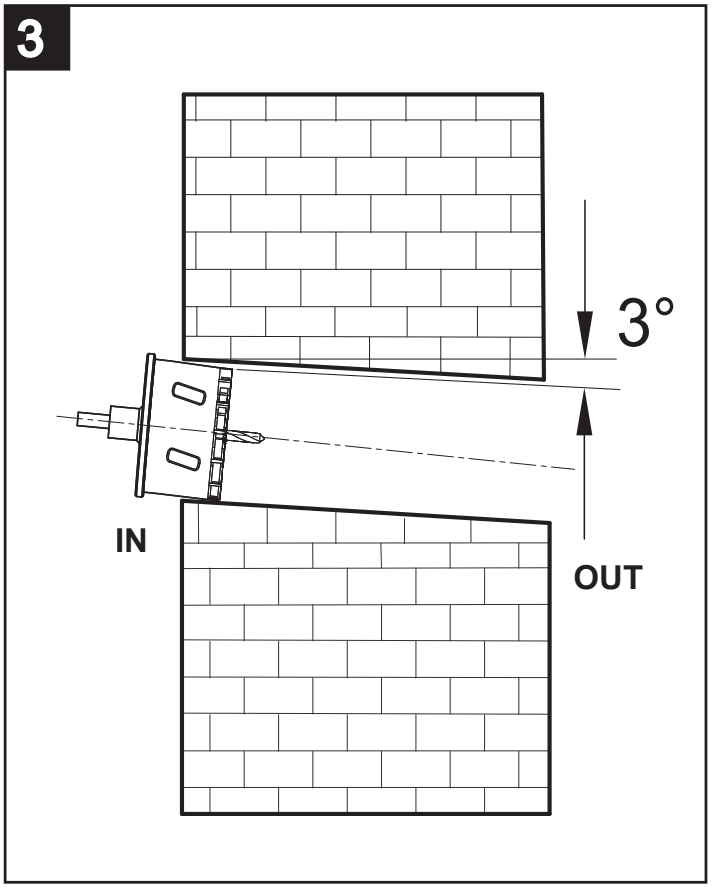
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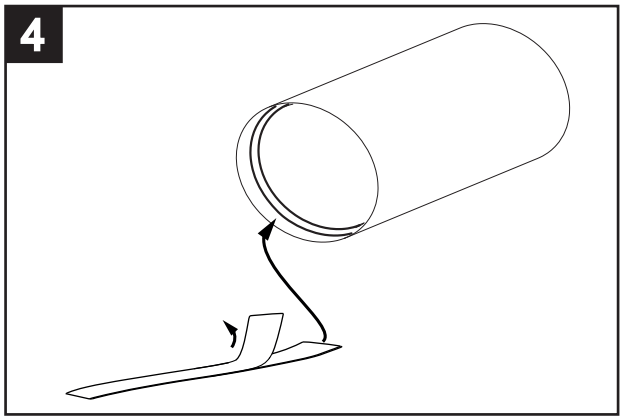
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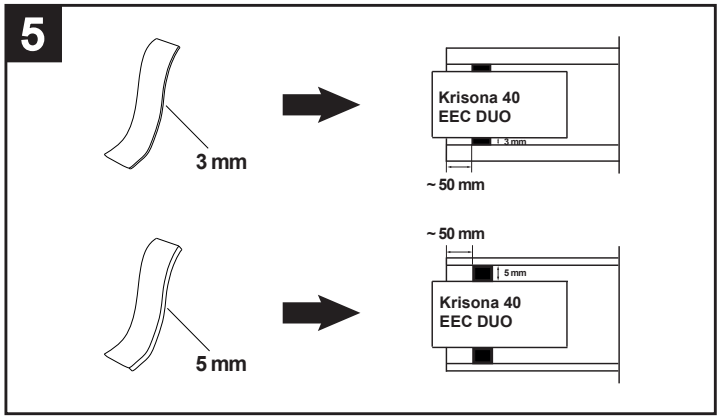
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3°
IN
OUT

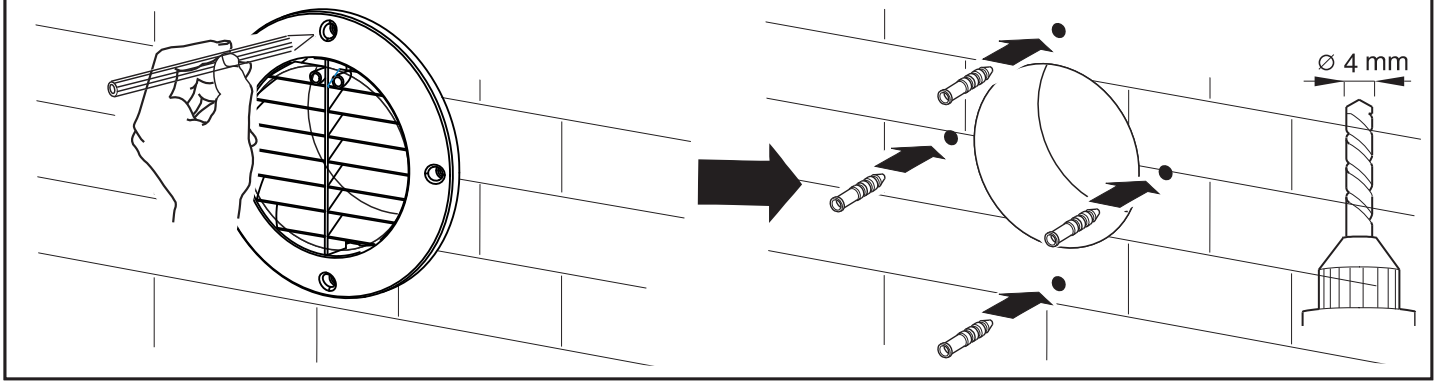
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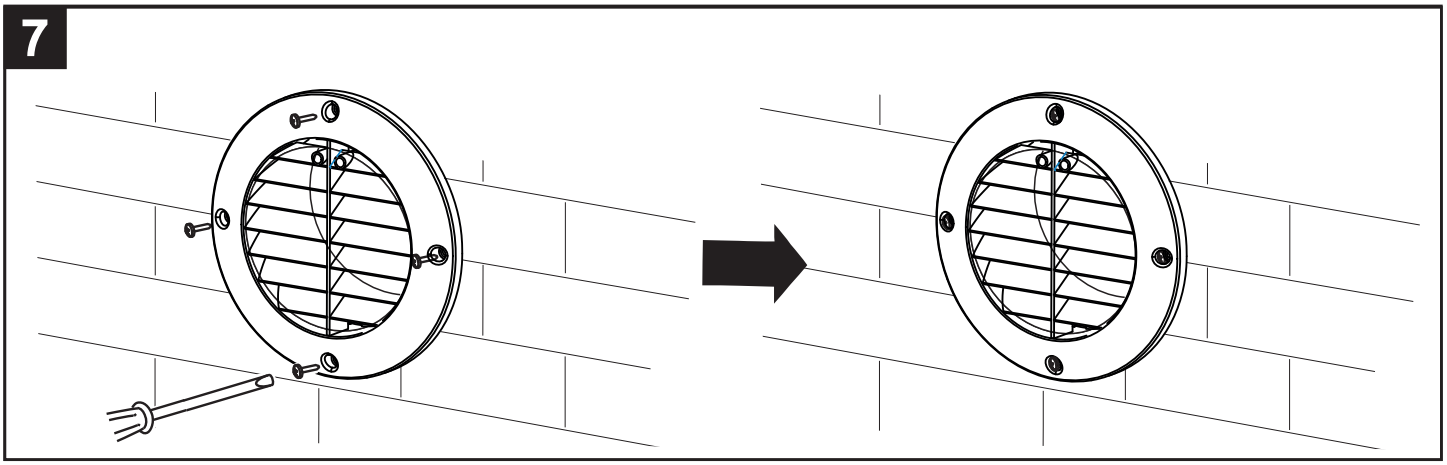
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3 mm
Krisona 40
EEC DUO
3 mm
~ 50 mm
~ 50 mm
5 mm
Krisona 40
EEC DUO
5 mm

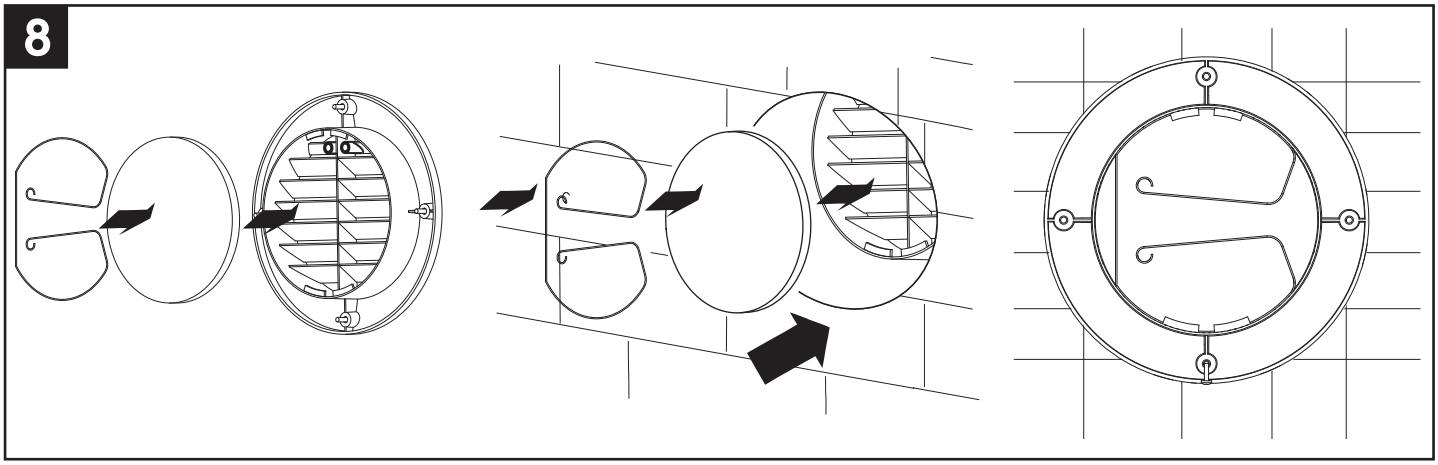
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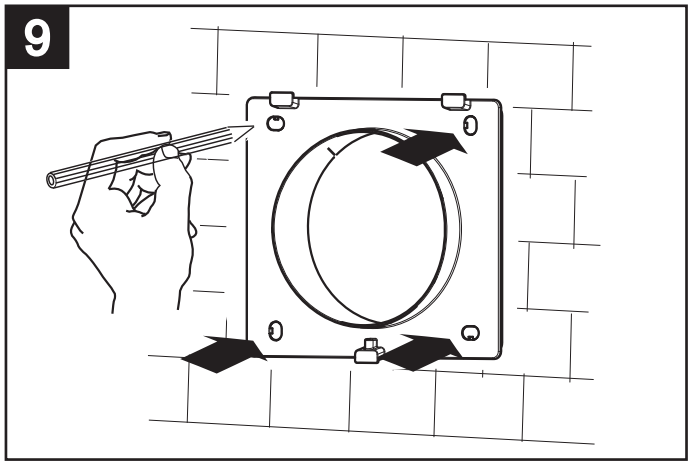
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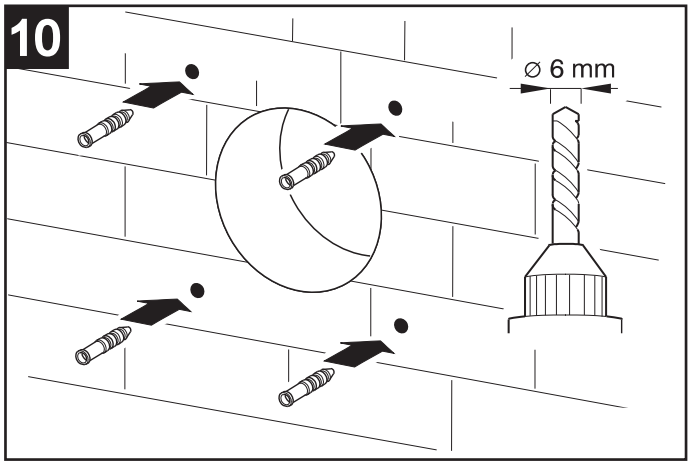
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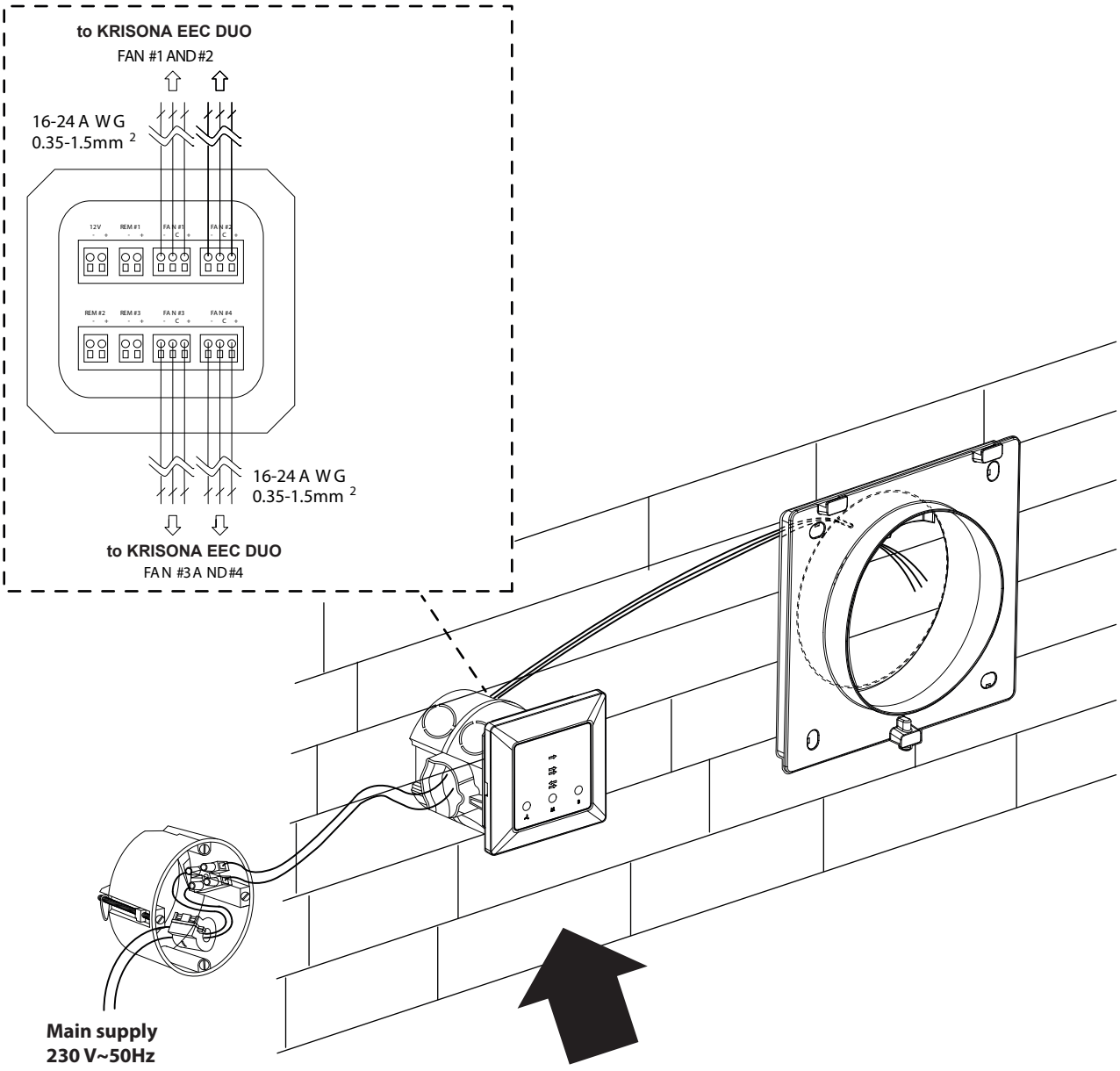
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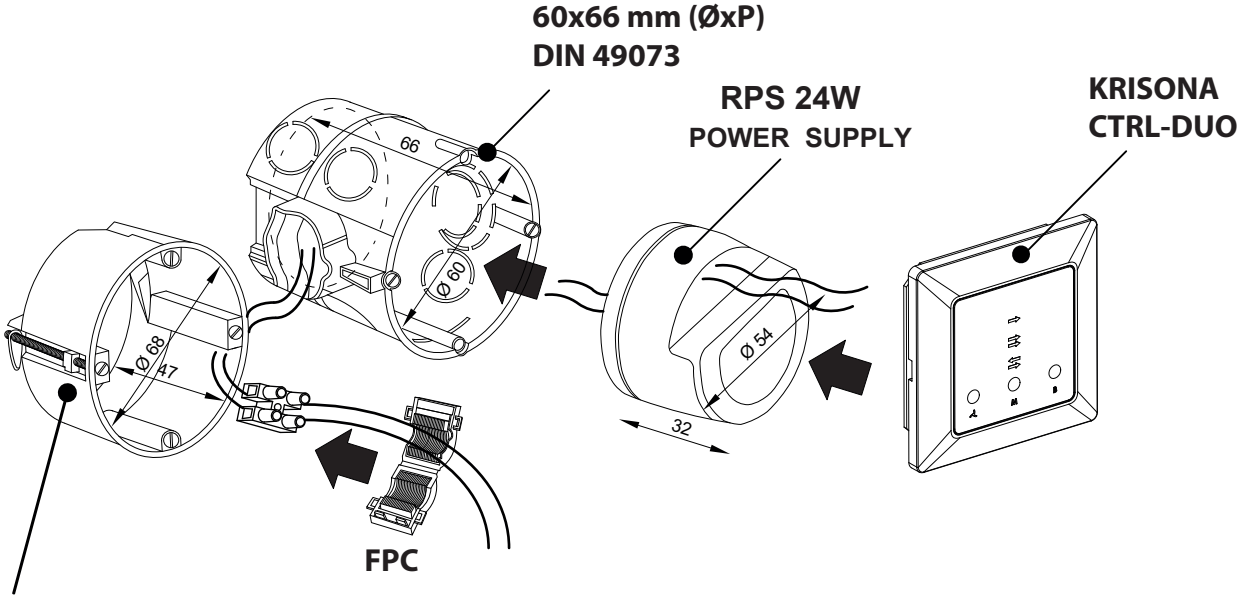


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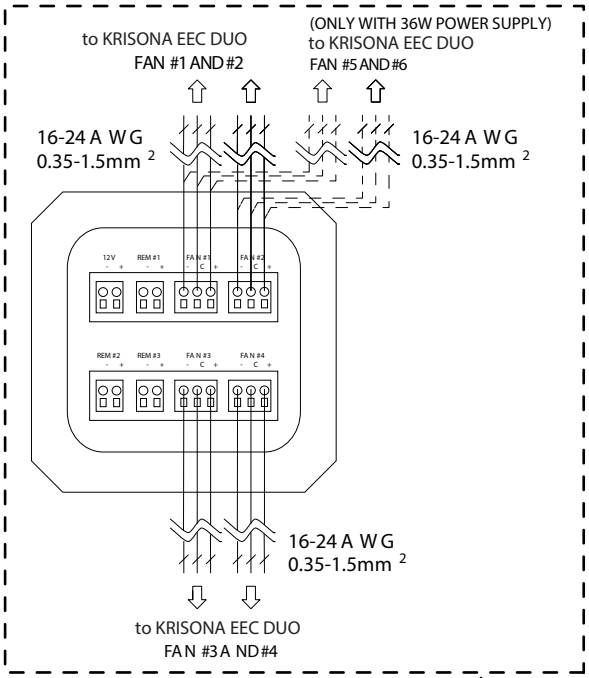


11 A CONNECTION TO REMOTE CONTROL WITH RPS 24W POWER SUPPLY FOR CONNECTION UP TO 4 CONTROLLED UNITS

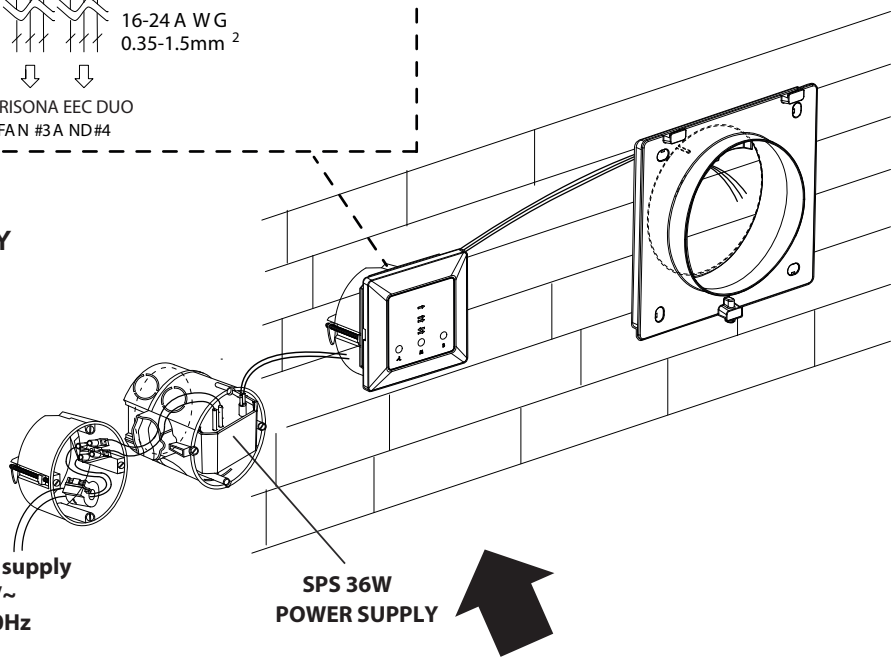


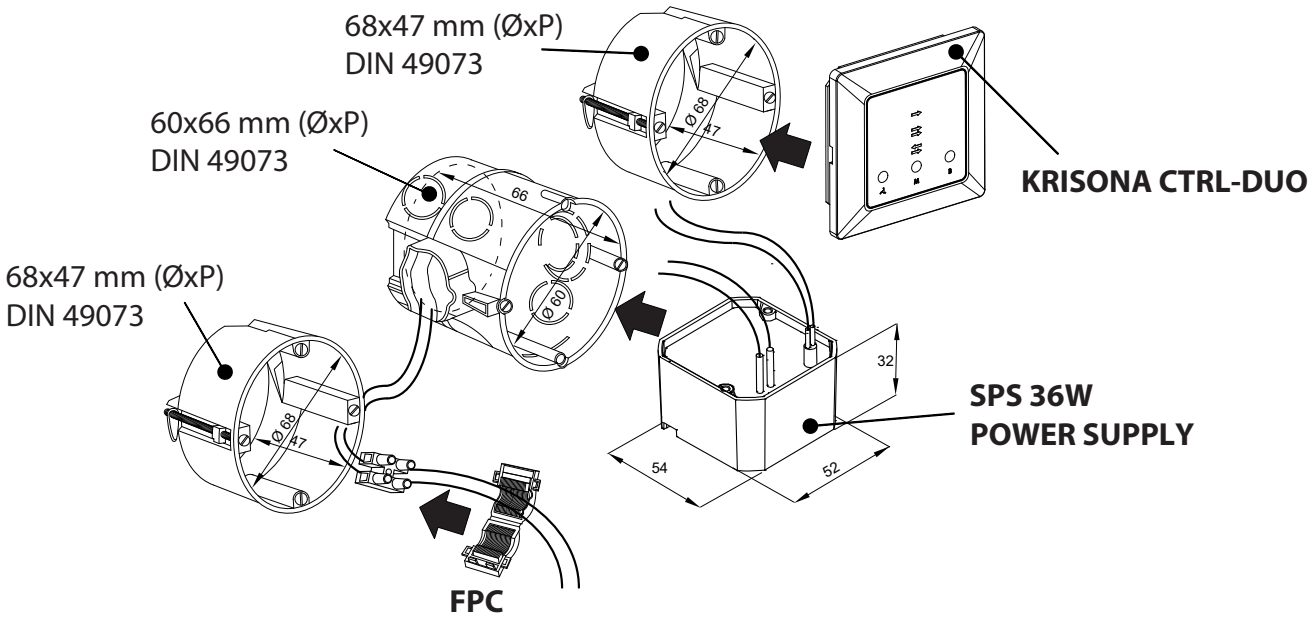


11 B CONNECTION TO REMOTE CONTROL WITH SPS 36W POWER SUPPLY FOR CONNECTION UP TO 6 CONTROLLED UNITS

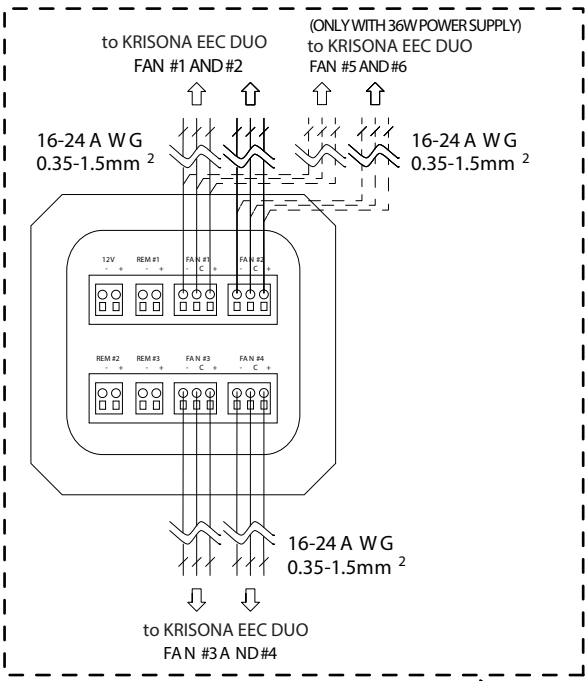


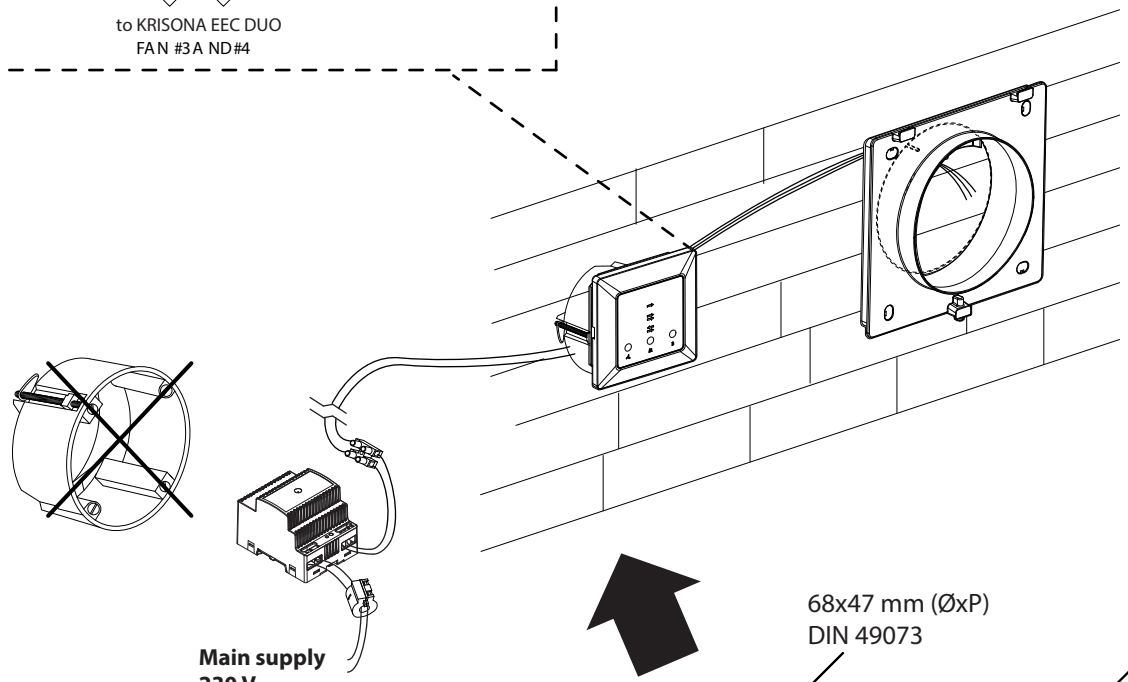
POWER SUPPLY



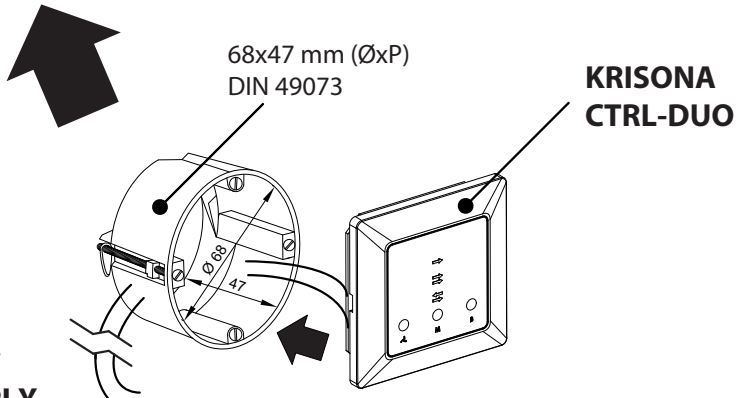


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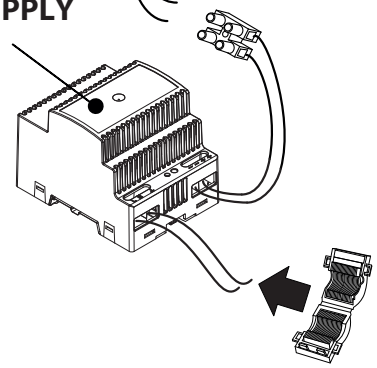




Main supply
230 V~
50Hz

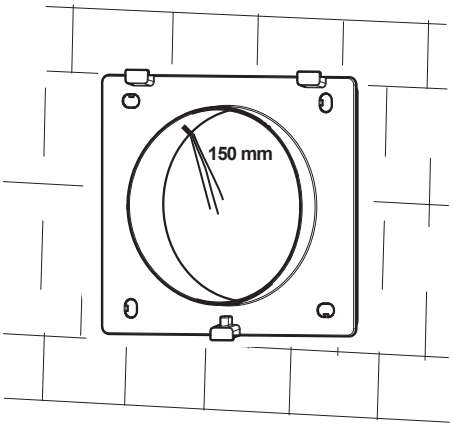


SPS-DIN 36W
POWER SUPPLY

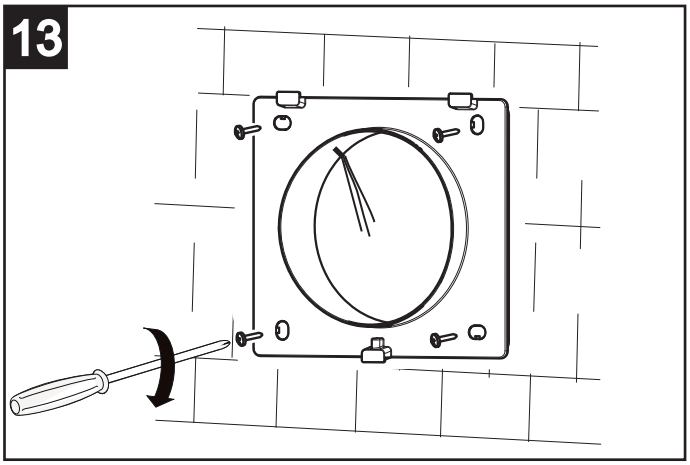


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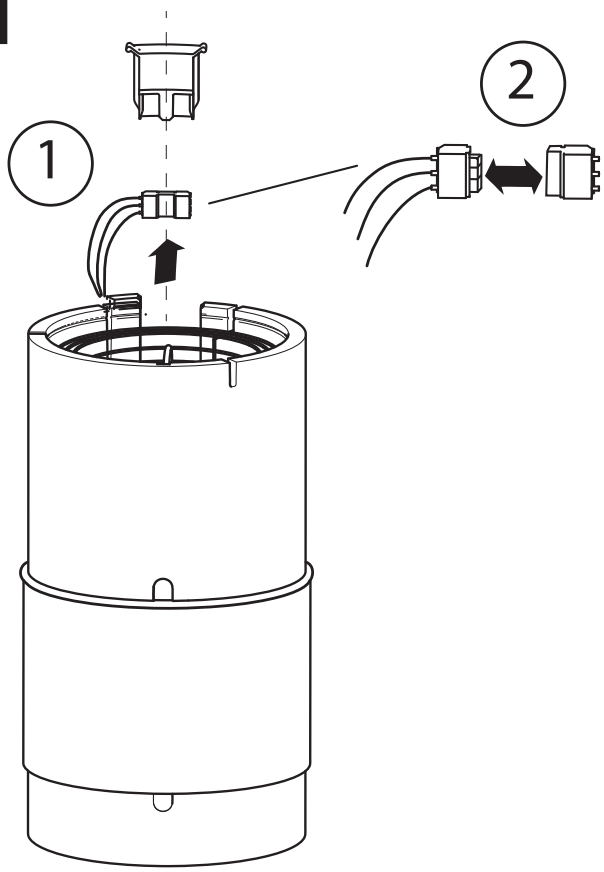
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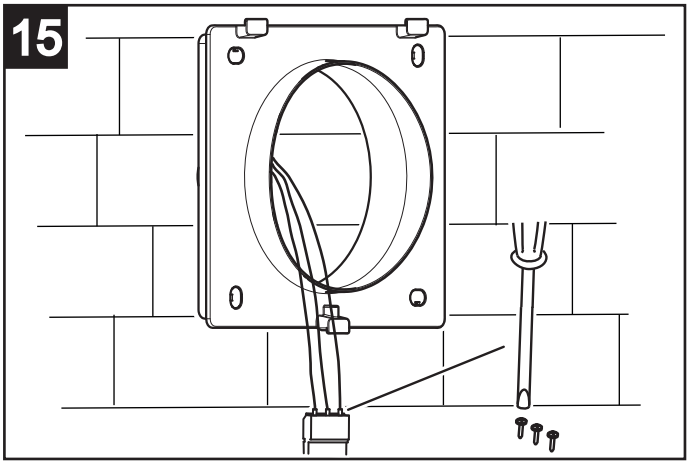
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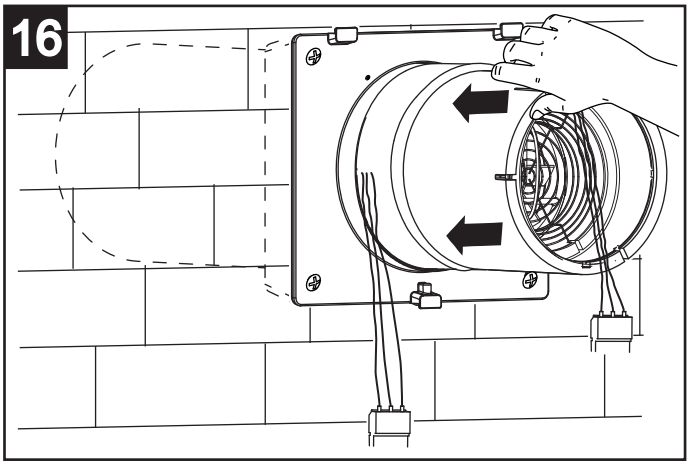
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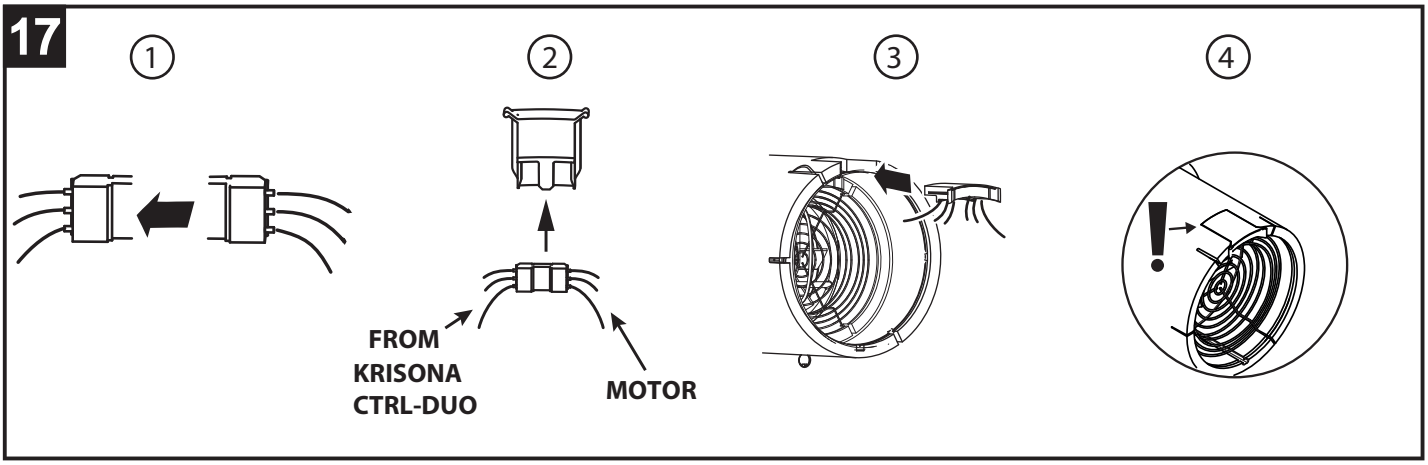
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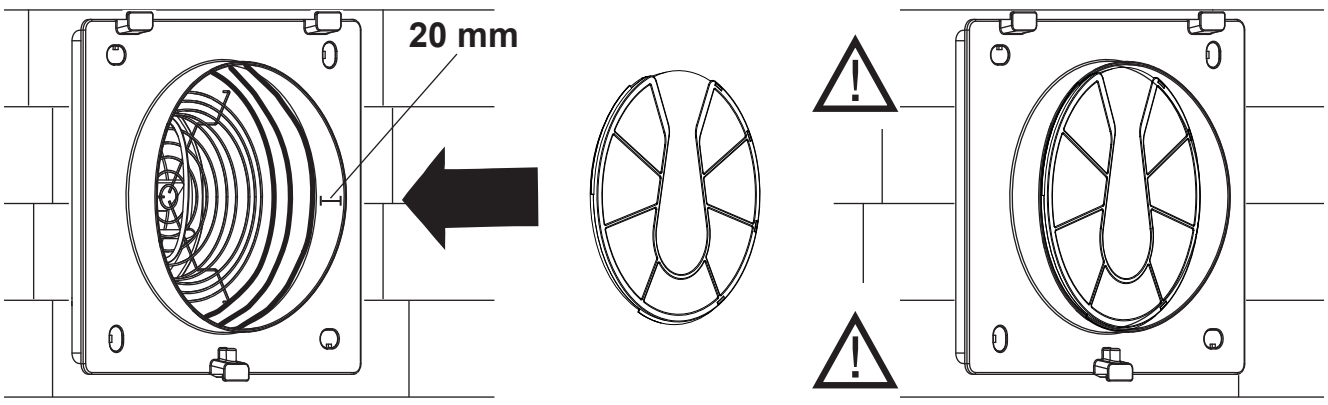
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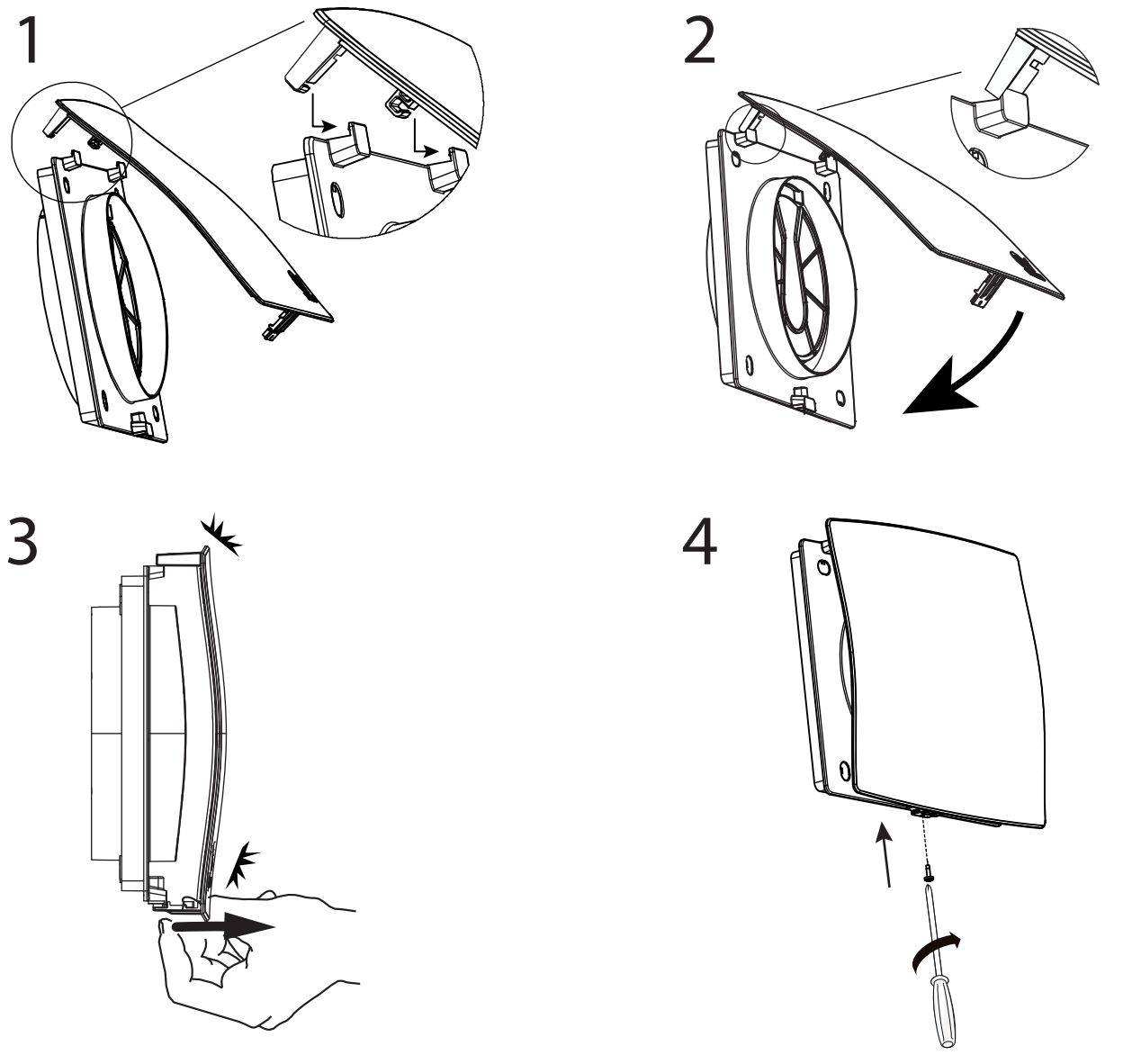
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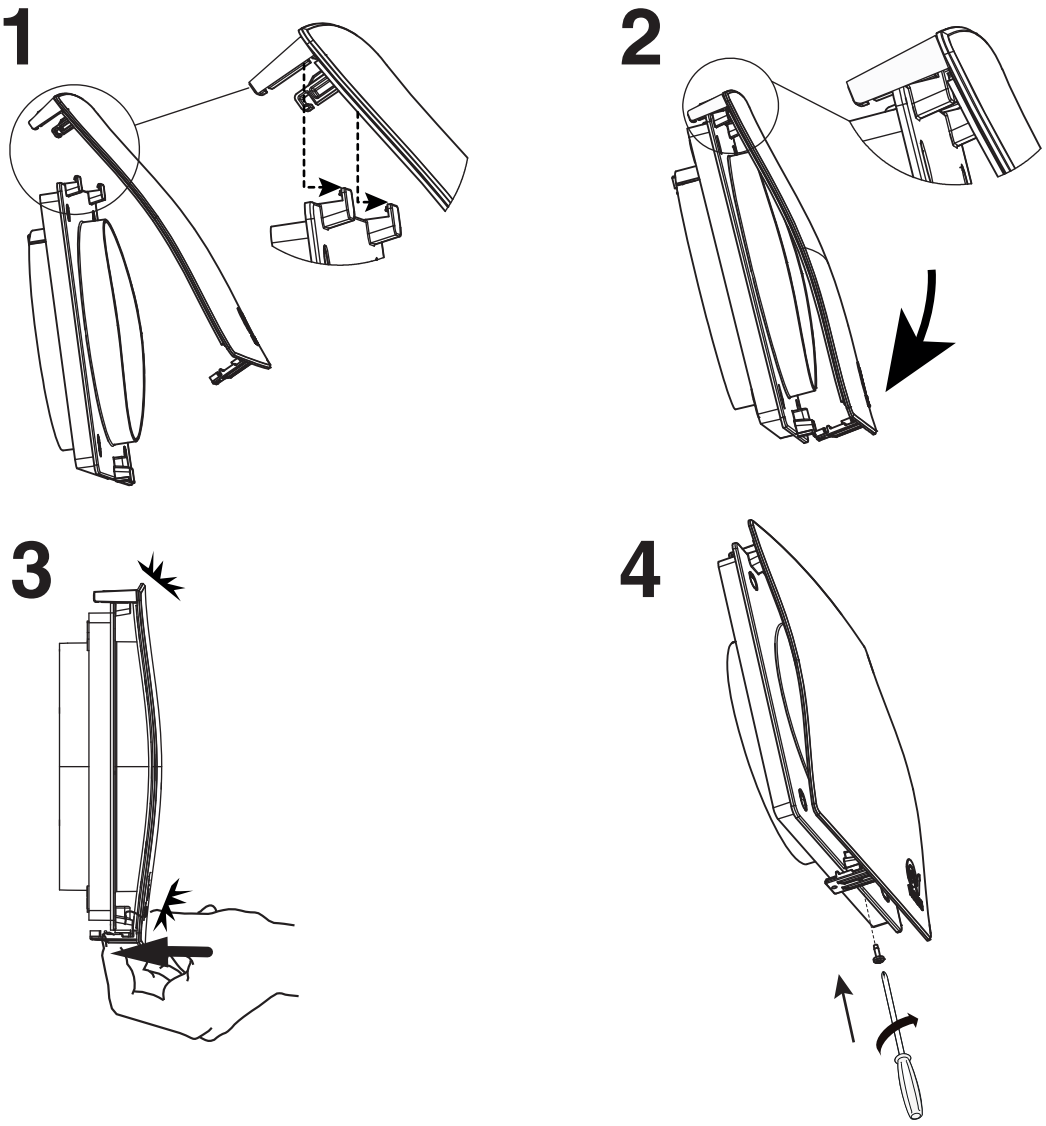
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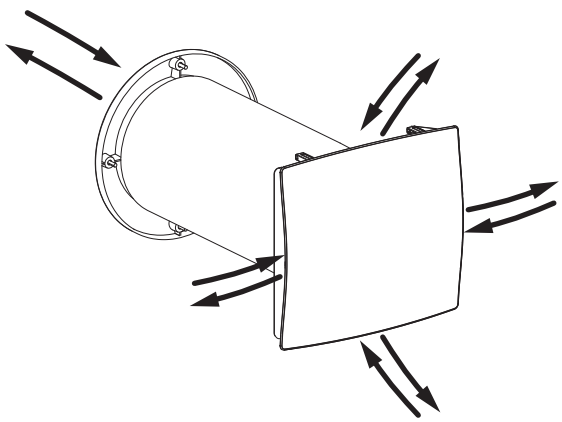
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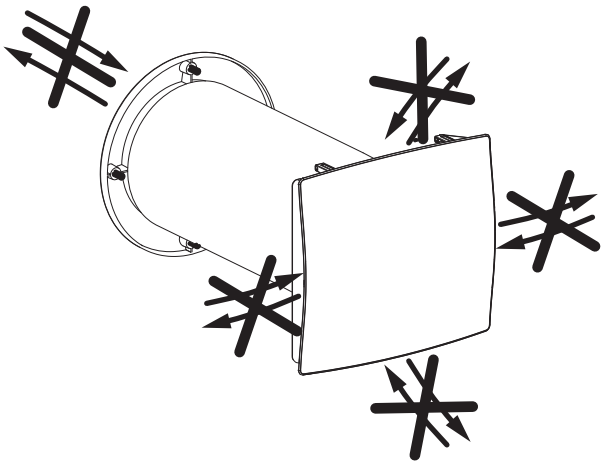
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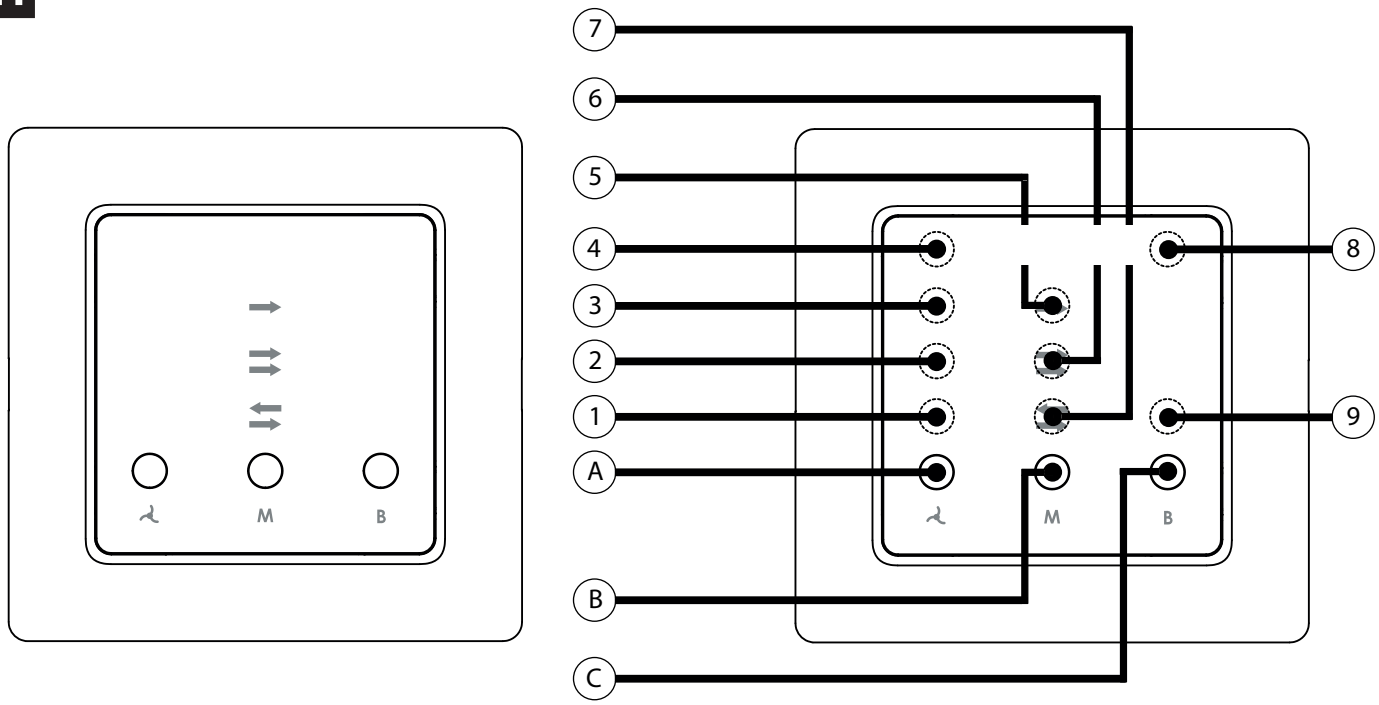
20 A (→19A)



20 B (→19B)



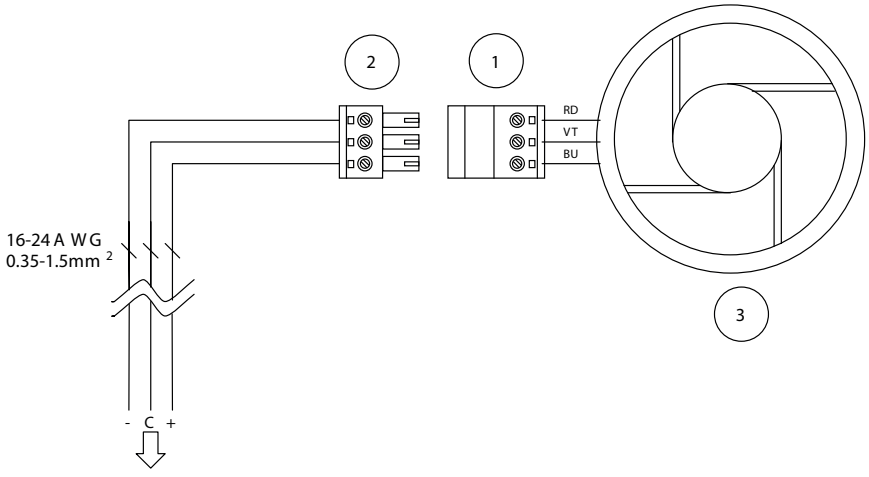
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22 KRISONA 40 EEC DUO

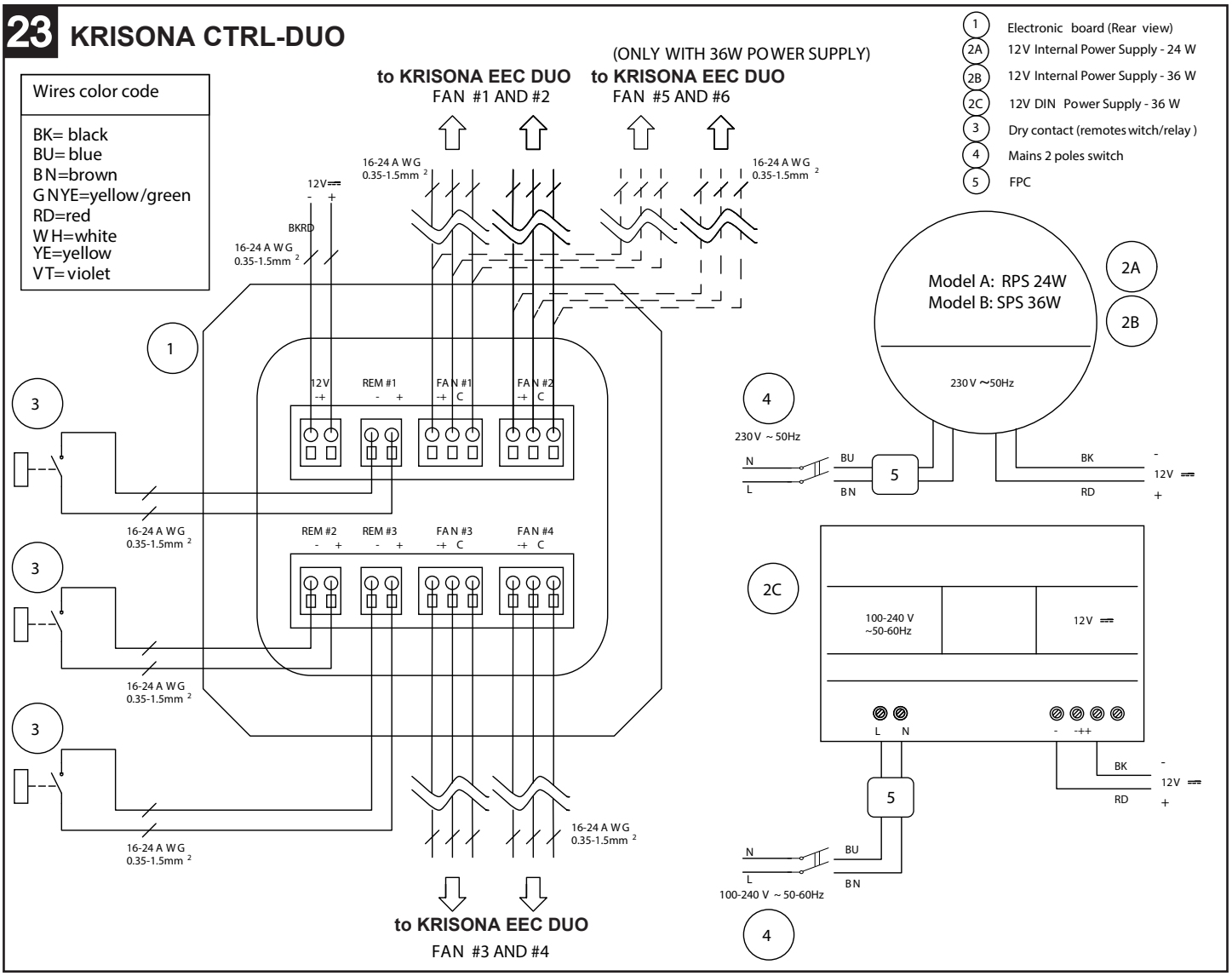
1. **Fan header terminal block**
2. **Fan plug terminal block**
3. **Krisona 40 EEC DUO fan**

Wires color code
BK= black BU= blue BN=brown GNYE=yello w/green RD=red WH=white YE=yello w VT=violet

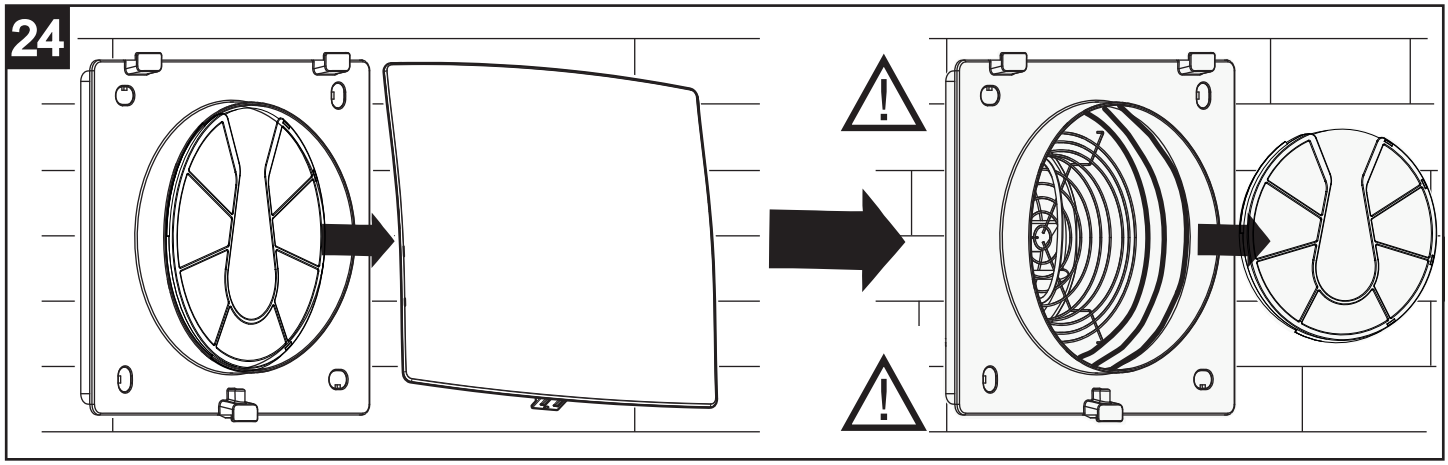


to remote KRISONA CTRL-DUO

23 KRISONA CTRL-DUO



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IMPORTANT: CASALS is exempt of any responsibility of any possible accident caused by the wrong manipula tion of the fan and/or for non compliance of all the warning and security regulations detailed in this manual.

GUARANTEE PERIOD: the fans of the range KRISONA 40 EEC DUO are guaranteed for 2 year after the purcha sing date (keep always the invoice). Such period will expire even if the fan has not been installed nor used im mediately after its acquisition at CASALS.
The guarantee will not be valid if there is any damage or breakdown of the fan or third parties affected by wrong use or inadequate purpose, normal worn out, overcharge or any external manipulation not done by CA SALS technical dept. The obligation inherent in this guarantee is limited to the replacement of defective parts previously examined by our specialists.
Maintenance, possible modifications and repairing services of the fan must always be done by trained spe cialists. During the guarantee period of the fan, repairing can only be done under previous consent from CA SALS and by authorized shops and staff. CASALS WILL ALWAYS DETERMINE WHERE ANY REPAIRING SHOULD BE DONE ON FANS THAT STILL HAVE A VALID GUARANTEE AS WELL AS THE TRANSPORT AGENCY USED FOR THE MOVING IF NEEDED. THIS GUARANTEE DOES NOT COVER THE TRANSPORT COSTS OF ANY SMALL FANS.

Importőr:

MULTIKOMPLEX BUDAPEST KFT.
A páraelszívók szakértője... 1995 óta

H-1211 Budapest Mansfeld Péter utca 27.

tel.: (36-1) 427 0325

www.multikomplex.hu

MULTIKOMPLEX
BUDAPEST KFT
a páraelszívók szakértője
1995 óta