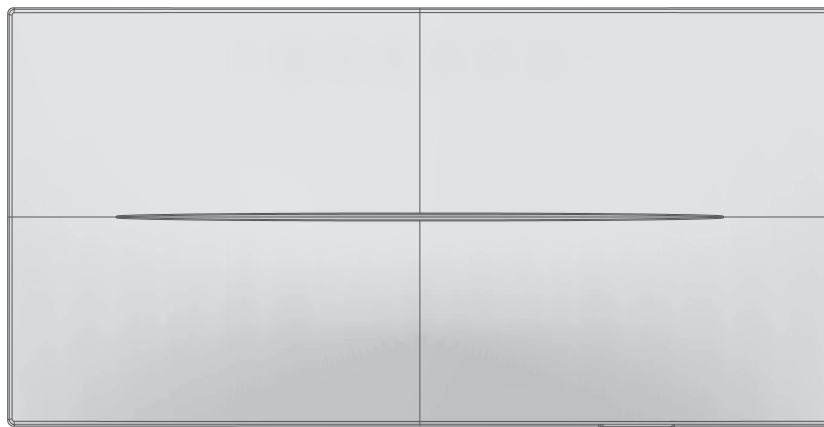


HELTY



FlowPLUS - ELITE

Wall installation

INSTALLER MANUAL



Dear Technician,

Thank you for proposing one of our devices. A modern product that guarantees outstanding reliability, efficiency, quality and safety.

This booklet is intended to provide you with useful information to facilitate correct installation without wishing to detract from your expertise or technical capacity in any way.

Thank you once again.

HELTYS.r.l.



Scan the QR code for translated
versions of this manual.

Contents

1	GENERAL INFORMATION.....	P. 4
1.1	Using this Manual.....	p. 4
1.2	General warnings.....	p. 7
1.3	Basic safety rules.....	p. 7
2	PRODUCT INTRODUCTION.....	P. 8
2.1	identification.....	p. 8
2.2	Regulatory framework.....	p. 8
2.3	Intended use.....	p. 8
2.4	Description.....	p. 9
3	INSTALLATION.....	P. 11
3.1	Precautions.....	p. 11
3.2	Installation site.....	p. 11
3.3	Receipt.....	p. 12
3.4	Handling.....	p. 13
3.5	Storage.....	p. 13
3.6	General assembly diagram.....	p. 14
3.7	Recommended minimum distances.....	p. 15
3.8	Preparation of the support wall.....	p. 16
3.9	Installation of the HRV unit.....	p. 18
3.10	Electrical connections.....	p. 20
3.11	Finishing.....	p. 24
4	COMMISSIONING.....	P. 26
4.1	Precautions.....	p. 27
4.2	Procedure.....	p. 27
5	MAINTENANCE.....	P. 28
5.1	Precautions.....	p. 28
5.2	Cleaning.....	p. 28
5.3	Air filter replacement.....	p. 29
6	DISPOSAL.....	P. 31
7	TECHNICAL INFORMATION.....	P. 32
7.1	Technical data.....	p. 32
7.2	Energy efficiency declarations.....	p. 34
7.3	Dimensional drawings.....	p. 35
8	ACCESSORIES.....	P. 36
8.1	Weak wall plate kit.....	p. 36
8.2	Ducting kit diameter 100.....	p. 39
8.3	Window-side output air duct kit.....	p. 41

1 GENERAL INFORMATION

1.1 Using this Manual



This manual is an integral and essential part of the product. It must be carefully stored and always accompany the HRV system including in case of sale to another owner or user.



The intended recipients of the instructions contained in the manual are indicated in the chapter "Recipients", the chapter "Organisation of the document" assigns each section to the relevant recipients. The relevant recipients are required to read the instructions and warnings contained in this manual, as these provide important indications regarding safe installation, use and maintenance.



HELTY s.r.l. assumes no responsibility for harm or damage to persons or property resulting from failure to observe the instructions contained in this manual. Failure to comply with the instructions in this manual shall render the warranty null and void.



HELTY s.r.l. reserves the right to modify or improve this documentation or the machines themselves without prior warning, including machines of the same model as that referred to in this manual but having a different order number.



We recommend that you always check the latest version of the manual available on our website **www.heltyair.com**.



This manual contains reserved proprietary information. All rights reserved. The manual may not be reproduced or copied, in whole or in part, without the prior written consent of **HELTY s.r.l.**

1.1.1 Symbols

The pictograms shown in the following chapter are used in the manual and on the product and provide a quick, clear reference for safe and proper use.

Safety pictograms



Hazard: this symbol indicates that non-compliance with warnings may result in serious injury or death.



Caution: this symbol indicates that non-compliance with warnings may cause irreparable damage to the product or damage to the environment.



Prohibition: this symbol indicates actions that must not be carried out under any circumstances.



Note: This symbol indicates important information.

Drafting pictograms

- **In text**

- ▶ This symbol indicates required actions

- This symbol indicates the expected outcome of an action

- This symbol indicates lists

- **In images**

- ① Indicates a specific component

- A Indicates a group of components

- ➊ Indicates a sequence of actions



In the images the dimensions are expressed in millimeters unless otherwise indicated.

Pictograms on the appliance

The following symbols are used in some parts of the product:



User Instructions: Please read the User Manual carefully before using the product.



Instructions for the Installer: Please read the Installer Manual carefully before installing the product.



Technical Support Service instructions: Please read the Technical Support Service Manual carefully before performing any operations on the product.

1.1.2 Recipients

User

Unskilled person capable of: operating the product in a way that is safe for people, for the product itself and for the environment; providing a basic analysis of faults and abnormal operating conditions; performing simple adjustments, checks and maintenance.

Installer

Expert individual qualified, by explicit or implicit assignment of the buyer, to render the operating product safe for people, for the product itself and for the environment, providing the user with the essential information for safe use and maintenance indicated in this manual and pursuant to current national legislation. The installer must be in compliance with the provisions of Ministerial Decree 37/2008 letters A, B, C.

Technical Support Service

Expert person qualified and authorised directly by the manufacturer to diagnose faults and abnormal product behaviour (including using the information provided by the user) and to remedy any faults and provide for the necessary repairs, replacements and adjustments to return the product to proper operating status that is safe for people, for the product itself and for the environment.

The technical support service must be in compliance with the provisions of Ministerial Decree 37/2008 letters A, B, C.

1.1.3 Organisation of the document

The manual is divided into sections; each section is intended for one or more recipients.



Each chapter of the manual contains specific warnings that must be read before proceeding with operations.

General information

For all recipients.

Contains general information and important warnings that must be known before installing and using the product.

Product Introduction

For all recipients.

Contains general information relating to product, identification, regulatory framework, descriptions and component list.

Installation

It is intended solely and exclusively for the Installer.

Contains the specific warnings and all the information necessary for the positioning, assembly and connection of the product.

Commissioning

Intended for the Installer and the Technical Support Service

Contains the specific warnings and the information necessary for the first commissioning of the product.

Maintenance

For all recipients.

Contains specific safety notices and all information required for routine maintenance of the product.

Disposal

For all recipients.









Contains information on correct disposal of the product.

Technical Information

For all recipients.








Contains the detailed technical information of the product.

1.2 General warnings

-  Read the chapter carefully 1.1 *p. 4* before proceeding with any operation.
-  All personnel must be aware of the operations and potential hazards when starting any product installation operation.
-  Installations performed contrary to the warnings provided by this manual and the use of the product outside the indicated temperature limits will render the warranty null and void.
-  There shall be no contractual or non-contractual liability for damage caused to persons, animals or property caused by to errors in installation, adjustment or maintenance or by improper use. Any use not expressly indicated in this manual is not permitted.
-  Do not modify or tamper with the product; doing so may be create hazardous situations.
-  Use appropriate safety clothing and equipment during installation and/or maintenance. The manufacturer declines any responsibility for failure to comply with applicable safety and accident prevention regulations.
-  Use only original spare parts when replacing components.
-  The manufacturer reserves the right to modify its products for the purposes of improvement at any time without prejudice to the essential specifications described in this manual. The company is not obliged to add these modifications to previously manufactured products, products already delivered or products under construction.

1.3 Basic safety rules

Products that use electricity and water must be operated in accordance with some basic safety rules including:

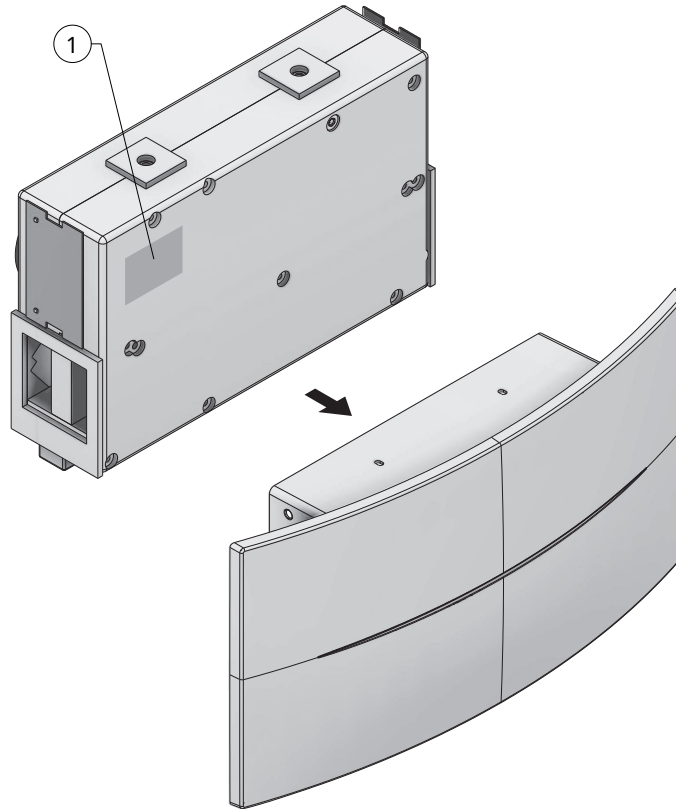
-  The product may not be used by children or unassisted disabled persons.
-  Do not touch the product with wet or damp body parts.
-  Do not perform any operation without disconnecting the product from the mains power supply by turning the main system switch to "off".
-  Do not alter the safety or regulating devices without prior receipt of authorisation and indications from the manufacturer.
-  Do not pull, disconnect, or twist the electric cables attached to the device even if disconnected from the mains power supply.
-  Do not introduce objects and substances into the and air suction and delivery grilles.
-  Do not open the access doors to the internal parts of the product without disconnecting the product from the mains power supply by setting the main system switch to "off".

2 PRODUCT INTRODUCTION

2.1 identification

The product is identifiable through the technical data plate:

2.1



1 Technical data plate

Technical data plate

Contains the product technical and performance data.



Tampering with or removal or non-presence of the identification plates means the product cannot be safely identified through its serial number.

2.2 Regulatory framework

The units of the series FlowPLUS - ELITE are designed and manufactured in accordance with the following directives, regulations and reference standards:

- Standard EN 60335-1.
- Standard EN 60335-2-80.
- Standard EN 62233.
- Standards EN55014-1, EN55014-2, EN61000-3-2 and EN61000-3-3.
- Directive 2014/35/EU (Low voltage directive)
- 2014/30/EC Electromagnetic Compatibility (EMC) Directive
- Directive 2009/125/EC EP and Regulation 2012/206/EC.
- Directive 2011/65/EU RoHSM.
- WEEE directive 2012/19/EU

2.3 Intended use

FlowPLUS - ELITE is an HRV air renewal and purification unit with dual-flow heat recovery for point-wise ventilation of individual environments. The unit is designed for the installation inside rooms.

2.4 Description

• **The main components of the system are:**

HRV unit: to extract stale air from the room and feed in fresh, oxygenated, clean air thanks to the single special F7/G2 filter supplied as standard. It is equipped with an enthalpy heat exchanger able to recover up to 91% of the heat from the outgoing air and thus preheat the flow of fresh air.

Available in 2 versions:

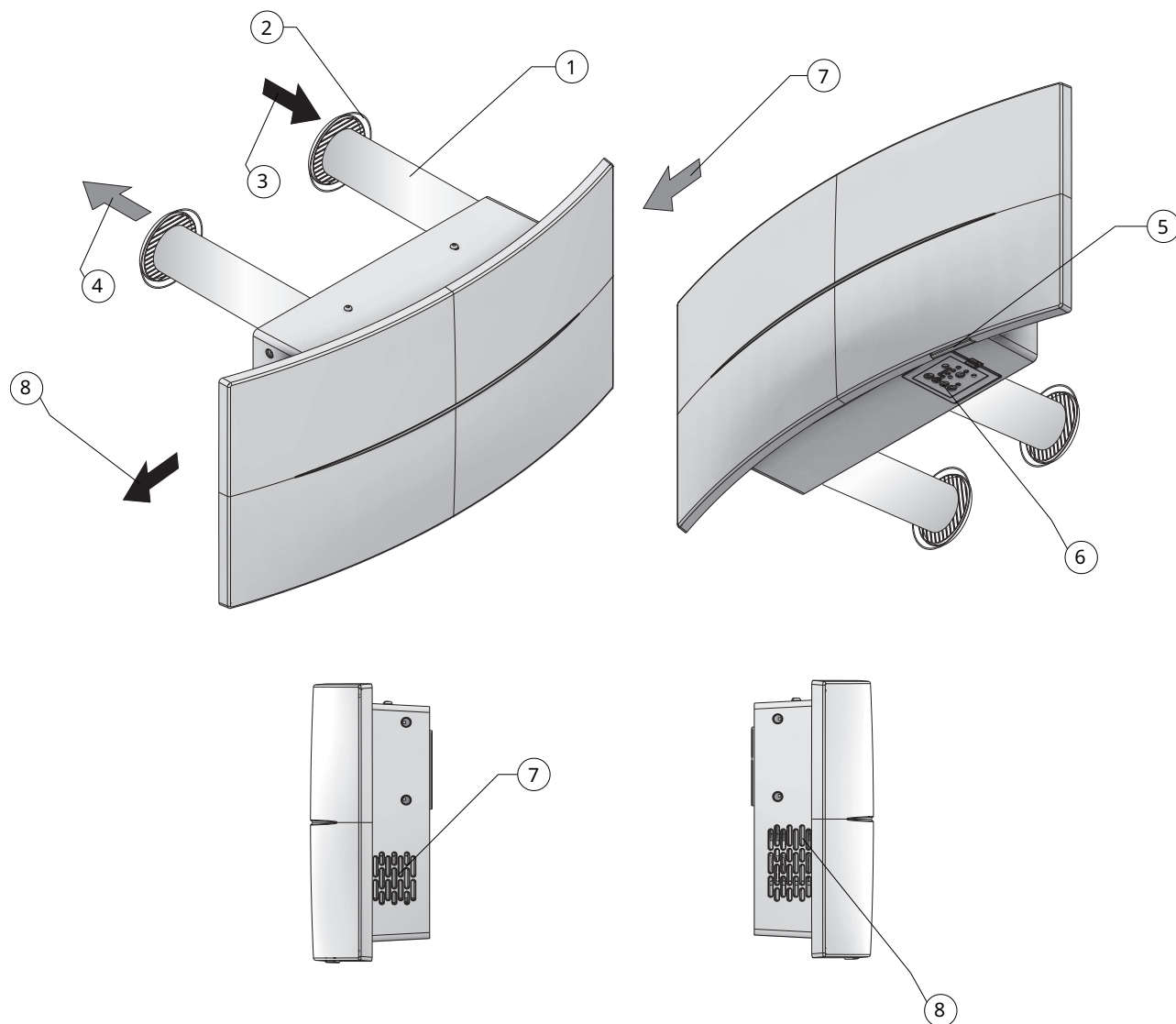
- Plus: with Humidity Sensor and Color Trust technology
- Elite: with humidity sensor, CO2 and VOC sensor, Color Trust technology and LED lighting

Cover: to allow proper diffusion of fresh air and extraction of stale air.

Cover control panel: supplied as standard, allows the management of the HRV unit.

Remote control: supplied as standard, allows management of the HRV unit via infrared commands.

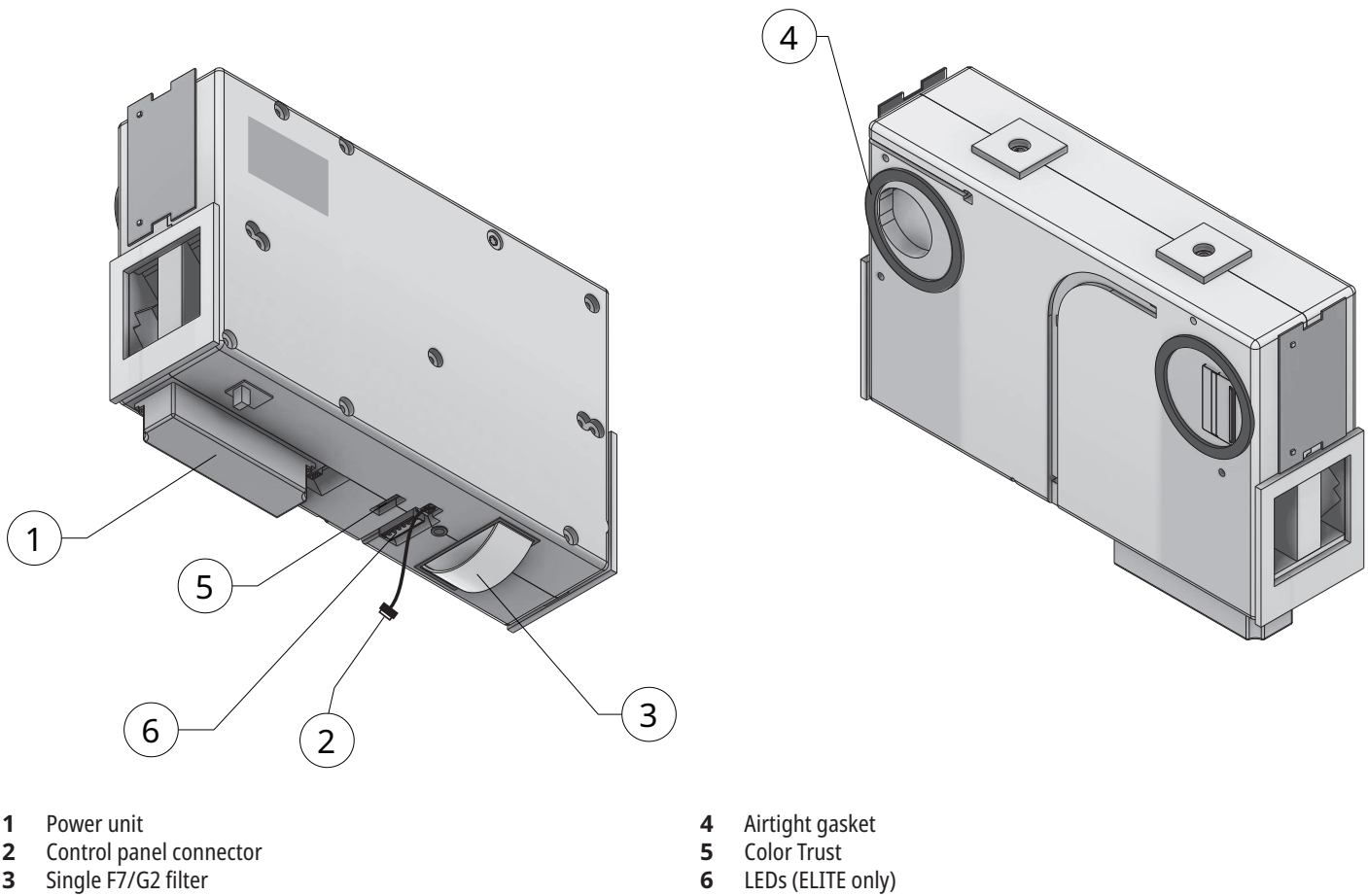
2.2 EXTERNAL COMPONENTS



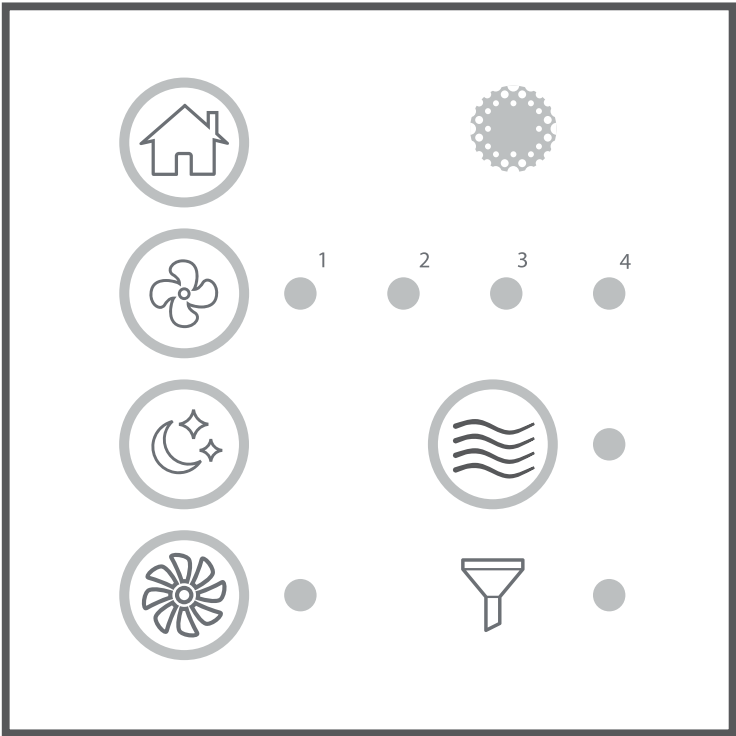
- 1 Air duct
- 2 External grille
- 3 Fresh external air
- 4 Stale air removal
- 5 Color Trust

- 6 Control panel
 - 7 Stale air extraction
 - 8 Indoor air intake
- Black Arrow: outdoor renewal air
Grey arrow: stale air extraction and exhaust

2.3 INTERNAL COMPONENTS







2.4 COVER CONTROL PANEL














3 INSTALLATION

3.1 Precautions

-  **The recipients of the following section are defined in chapter 1.1 p. 4. Carefully check that you have the necessary experience, skills and certifications before proceeding.**
-  For detailed product information, please refer to chapter 7 p. 32.
-  During installation, observe the precautions indicated in this manual and on the labels affixed inside the appliances, as well as any precautions dictated by common sense and the safety regulations in force at the installation site.
-  Failure to adhere to the indicated standards may cause equipment malfunction and shall relieve the company from any form of warranty and liability for any damage caused to people, animals or property.

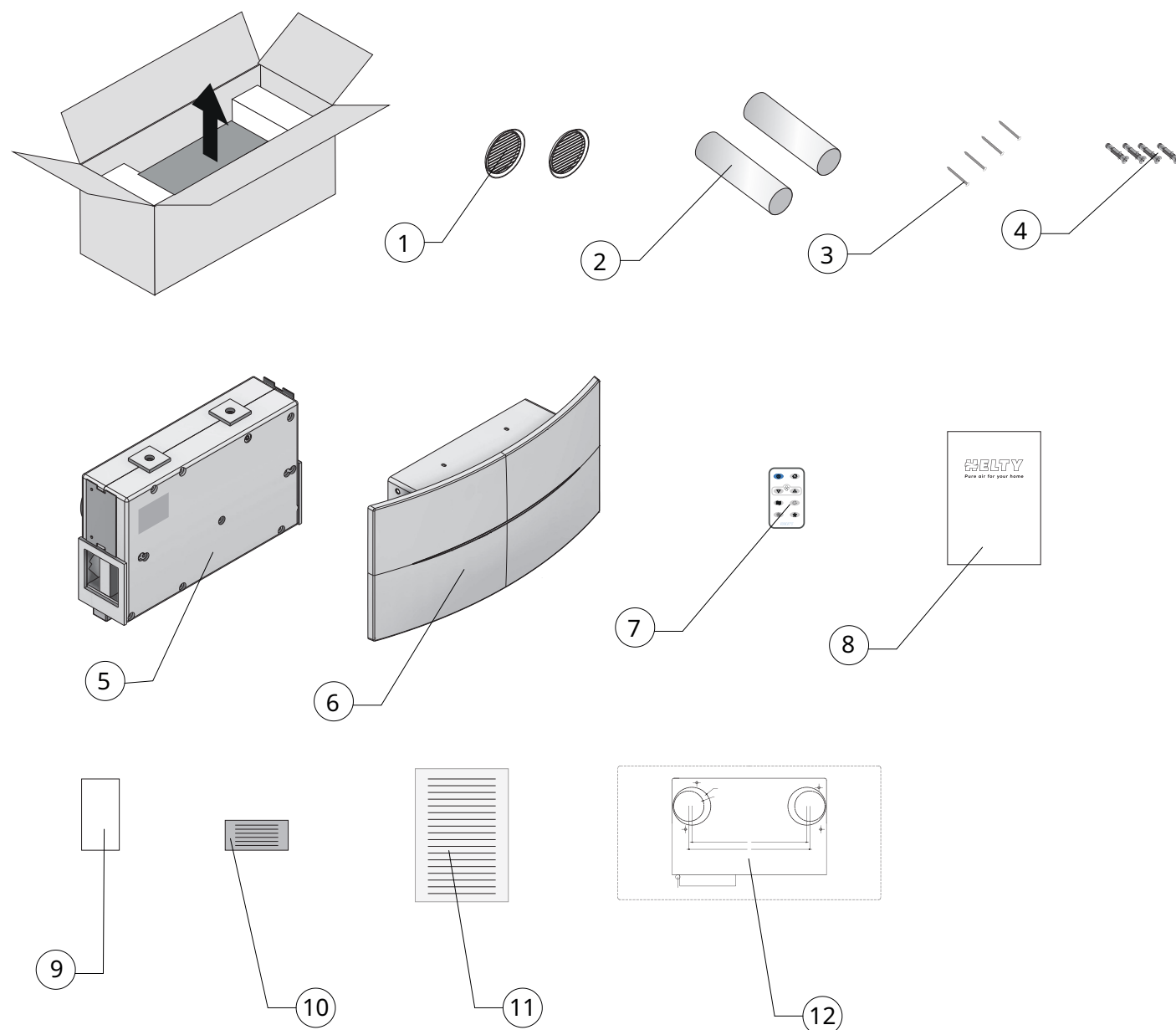
3.2 Installation site

3.2.1 Precautions

-  The installation site must be established by the plant designer or another competent person and must take into account both the technical requirements and any applicable local laws.
-  For improved air distribution and better acoustic comfort, the optimal installation position is a central point of a wall of the room to be ventilated, as high as possible, compatibly with the minimum recommended distances.
-  Wall-mounted HRV units are classified as “non-ducted” under Regulation (EU) no. 1254/2014. However, if necessary the ducts can be extended beyond those supplied with the unit, at the expense of a reduced air flow. The ducting must be properly installed under the installer’s own responsibility.
-  Check that the chosen installation position allows the unit to be controlled using the remote control or cover control panel.
-  Install horizontal if possible.
-  Do not install in recesses.
-  Make sure there are no obstacles near the air inlet and outlet points.
-  Do not place the system near sources of oil or grease (such as cooking plates, grills or fireplaces).
-  Install the HRV system in buildings with room temperatures between 0 °C and +40 °C.
-  Avoid placing the unit within 1 metre of radio and video equipment.
-  To install the product in the following types of environment, please contact Helyt:
 - sites with atmospheric oil mist or in the presence of steam or soot;
 - salt air environments, such as coastal areas
 - sites where sulphide gas is present (e.g. close to thermal springs)
 - sites where the outside vents may be obstructed by snow;
 - other sites with special conditions






3.3 Receipt

3.1 COMPOSITION OF SUPPLY



- | | | | |
|---|-------------------------------|----|-------------------------------|
| 1 | External grilles | 7 | Remote control |
| 2 | Air ducts ø 80 | 8 | Manual |
| 3 | Fixing screws | 9 | Energy label |
| 4 | Expansion anchors | 10 | Duplicate technical dataplate |
| 5 | HRV unit complete with filter | 11 | Declaration of conformity |
| 6 | Cover | 12 | Installation template |

3.3.1 Precautions







-  Each individual product is checked prior to shipping.
-  When you receive the product, please check to ensure it has not been damaged during transport. If this is the case, a complaint must be registered with the carrier. The carrier is liable for any damage caused during transport.
-  The packaging must be transported upright, otherwise notify the carrier immediately.
-  After removing the product from its packaging, check that all components are present and intact. If in doubt, please contact Hely. **Hely**.
-  Packaging may be hazardous to children; do not dispose of or leave packaging material within reach of children.

3.3.2 Description of packaging

The product is packed inside self-supporting cardboard boxes and may be packed on pallets and fixed by straps and protective wrap.

3.4 Handling

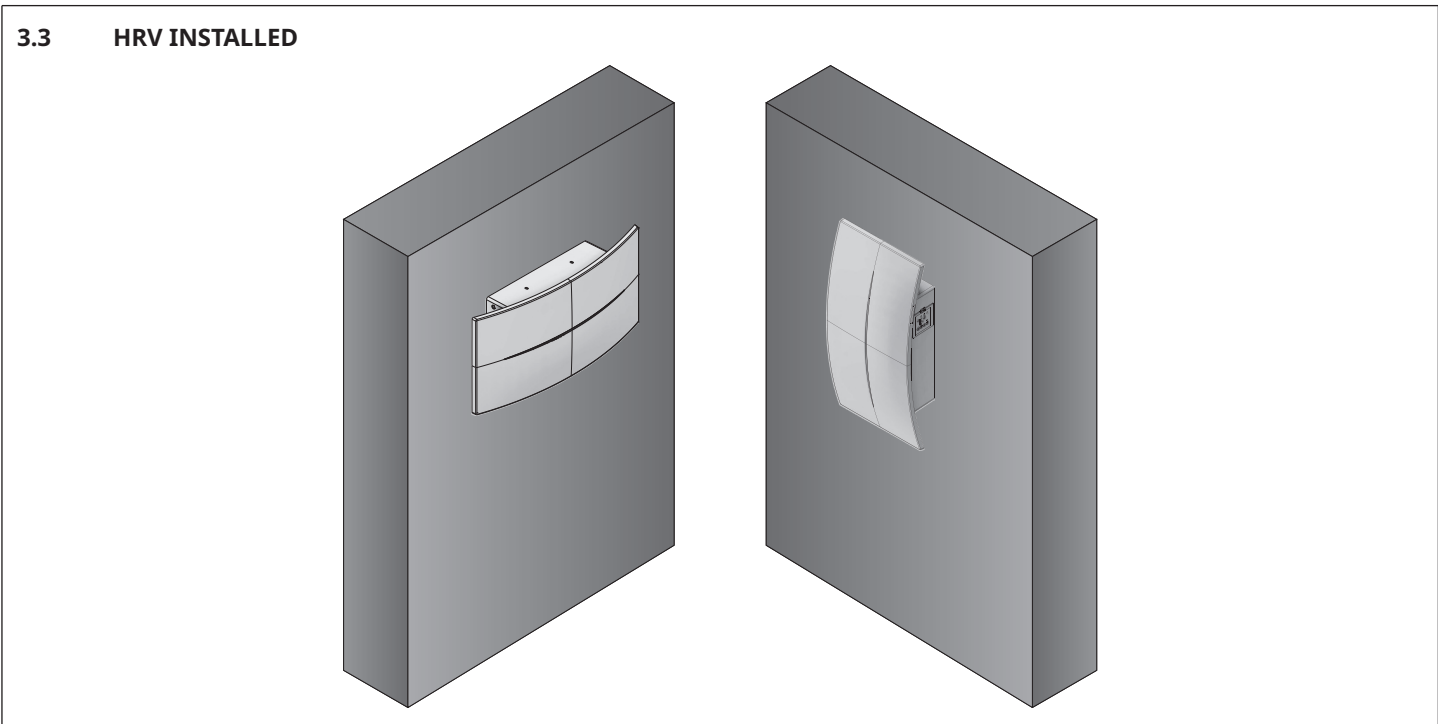
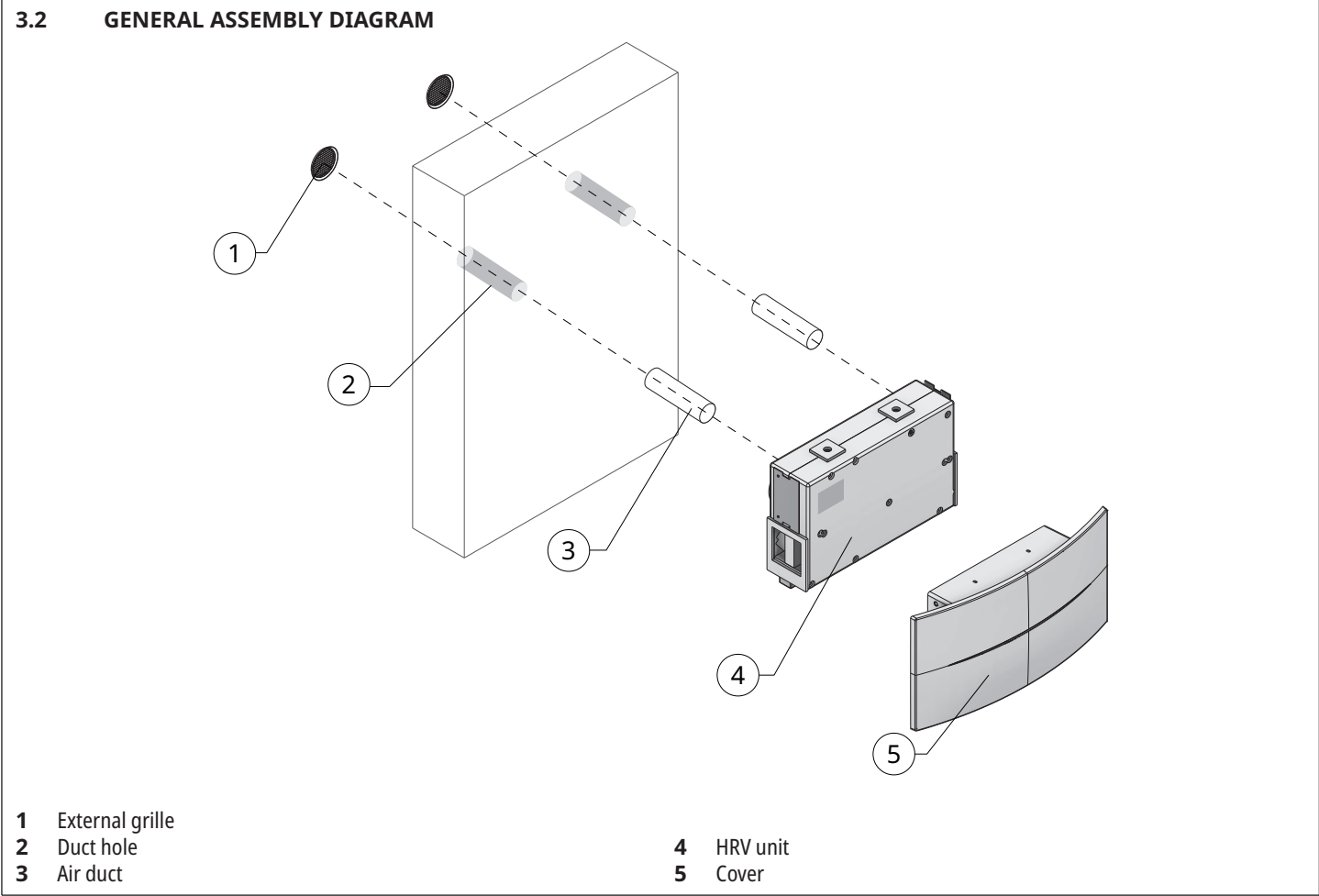
3.4.1 Precautions


-  The product may only be handled by qualified, adequately equipped personnel using equipment that is appropriate to the weight and size of the product.
-  Before any product handling, check the lifting capacity of the machinery used and follow the instructions on the packaging.
-  Use a forklift truck to lift pallets.
-  **Keep away from the area below and around a raised load.**
-  Avoid hazardous situations when using a hoist to lift the product.
-  In the case of lifting by hand, the maximum permitted weight is specified in standard 89/391/EEC and following. A weight of 20 kg below the shoulder but above ground level is generally acceptable.

3.5 Storage

Store in a sheltered place with a temperature between 0 °C and 45 °C and a relative humidity between 30% and 85%.

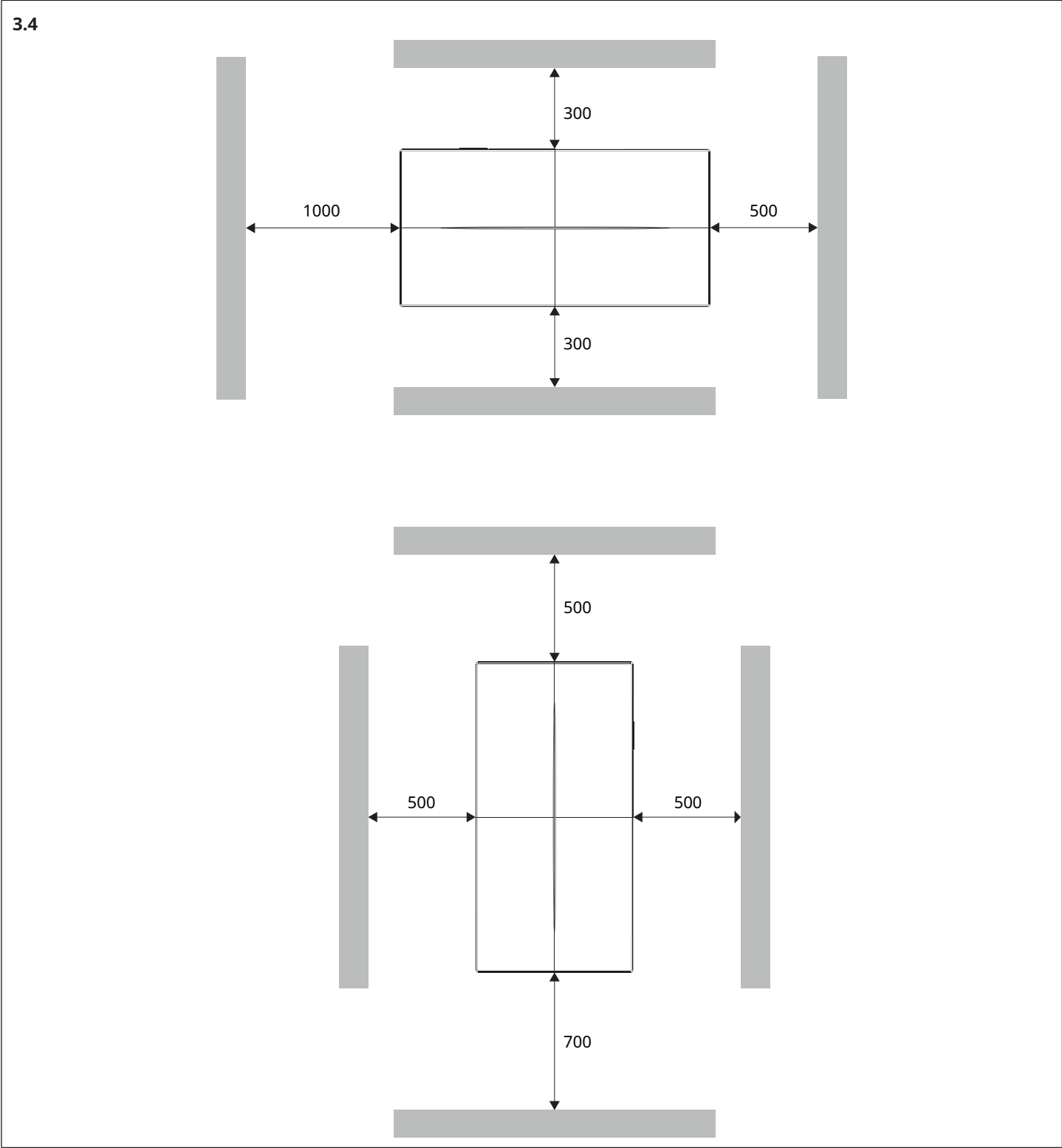
3.6 General assembly diagram



 The instructions which follow refer to horizontal installation. The same method is also used for vertical installation.

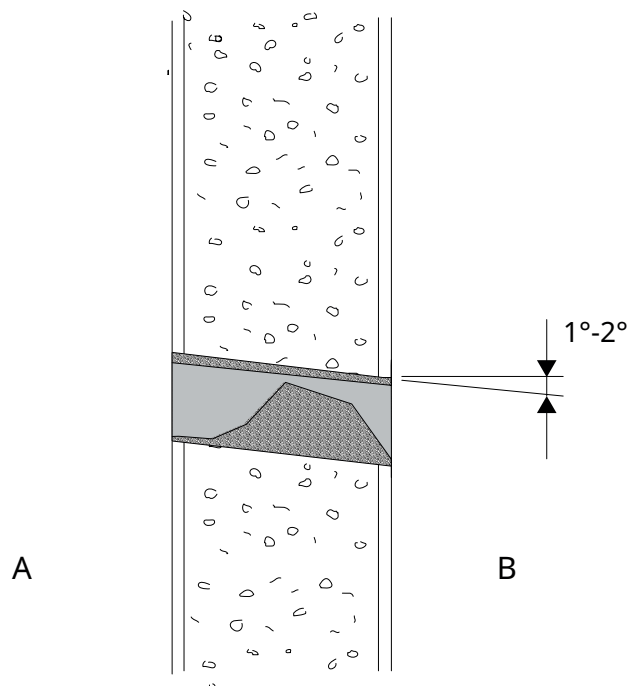
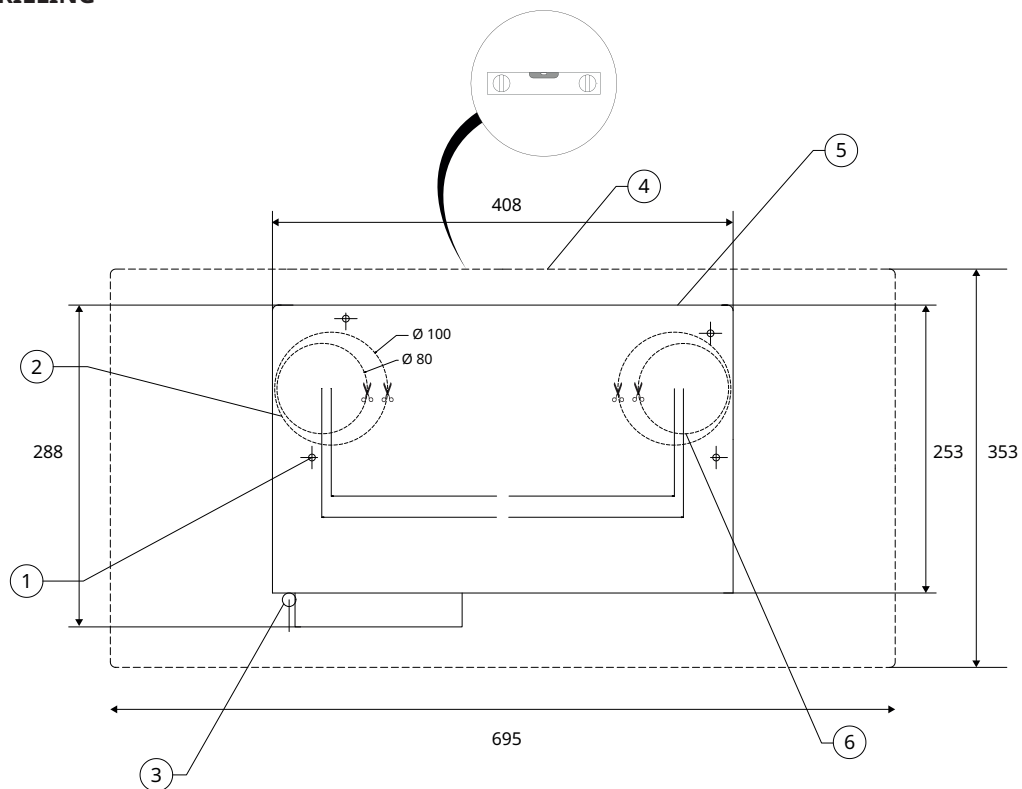
3.7 Recommended minimum distances

The minimum distances for the assembly and maintenance of the appliance are shown in the figure. The established spaces are necessary to prevent barriers to air flow and to allow for normal cleaning and maintenance operations.



3.8 Preparation of the support wall

3.5 WALL DRILLING



- 1 HRV unit fastening screw holes
- 2 Coring hole for air duct $\varnothing 100$
- 3 Hole for electrical connections
- 4 Cover overall dimensions

- 5 HRV unit overall dimensions
- 6 Coring hole for air duct $\varnothing 80$
- A Inner side
- B Outer side

3.8.1 Precautions



Before tracking and drilling, check that the wall section does not contain pipes or electrical lines and that load-bearing elements are not compromised.



Check that the support surface is level and smooth.



Check that the screws and expansion anchors supplied are suitable for the characteristics of the support surface and the supported load.

3.8.2 Procedure

- **To drill the holes in the supporting wall:**

- ▶ use the paper template



Supplied as standard.

- ▶ place it on the installation point
- ▶ tape it in position
- ▶ mark the position of the fixing holes
- ▶ mark the position of the coring holes
- ▶ mark the position of the electrical connections
- ▶ make the fixing holes in the marked positions
- ▶ drill through core holes in the wall



Keep slanted down by 1° - 2° towards the outside.



Air ducts ø 80 mm supplied with unit.



Air ducts ø 100 mm supplied as accessory.

3.9 Installation of the HRV unit

3.6

POSITIONING

The diagram illustrates the positioning of the HRV unit. It shows the installation of air ducts (1) and expansion anchors (2) into a wall. The HRV unit (3) is then mounted using fastening screws. A cover (4) is also shown being attached to the unit. A warning symbol is present near the unit mounting step.

1

Air ducts

2

Expansion anchors

3

HRV unit fastening screw

4

Cover

3.9.1 Precautions

3.9.2 Procedure

- **Installation of air ducts:**

- ▶ cut the air ducts to size
- ▶ insert the air ducts inside the previously drilled core holes
- ▶ seal the air ducts inside the drilled core holes



Air ducts must not protrude from the finished wall.

If necessary:

- ▶ restore masonry with plaster, gypsum or suitable cement

- **Preparing the HRV unit:**

- ▶ unscrew the fixing screws
- ▶ remove the cover



Before completely removing the cover, disconnect the control panel.

- **Installation of the HRV unit:**

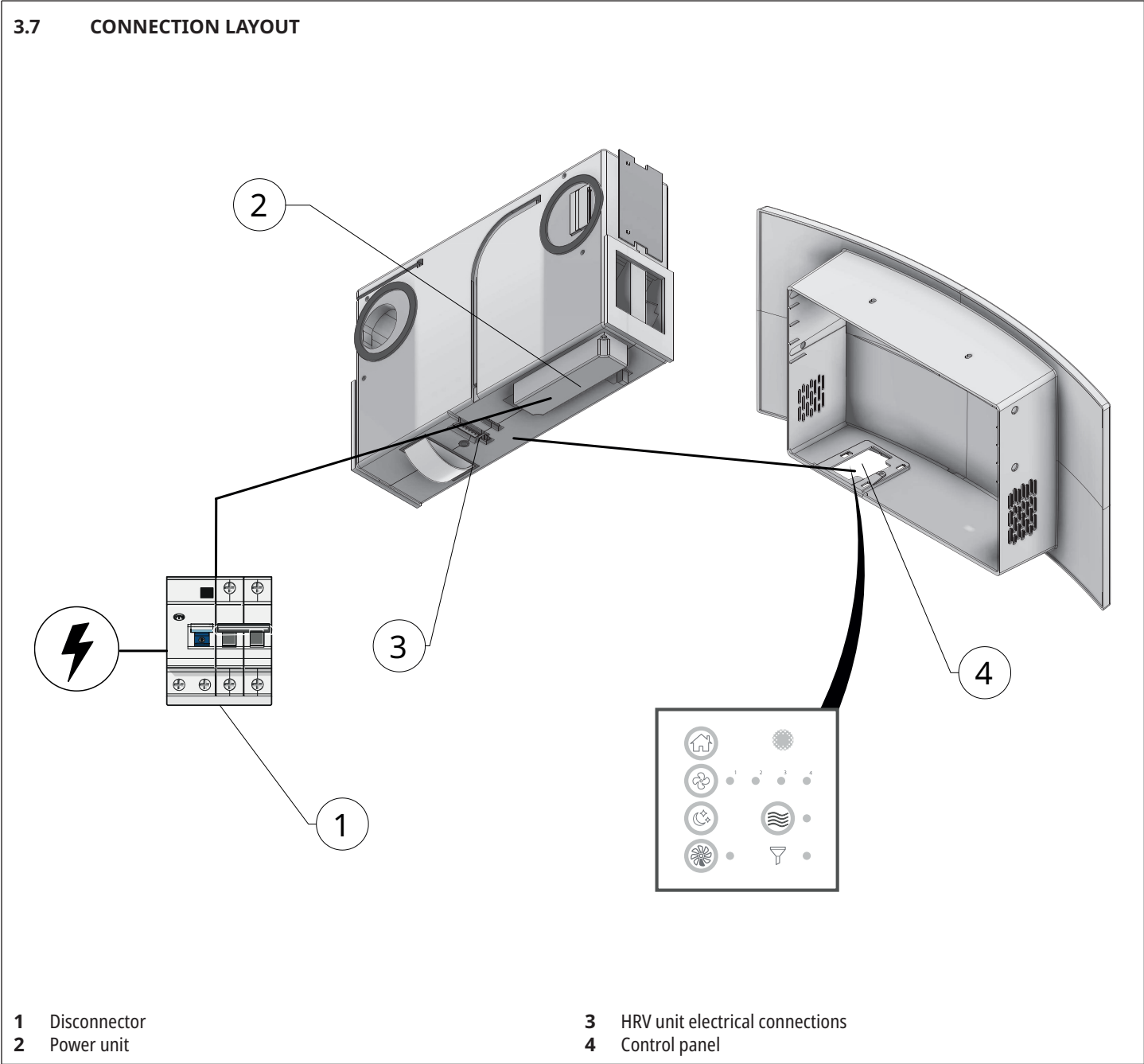
- ▶ fit the expansion anchors into the fixing holes
- ▶ position the HRV unit
- ▶ fix the fastening screws by adhering the gaskets to the wall



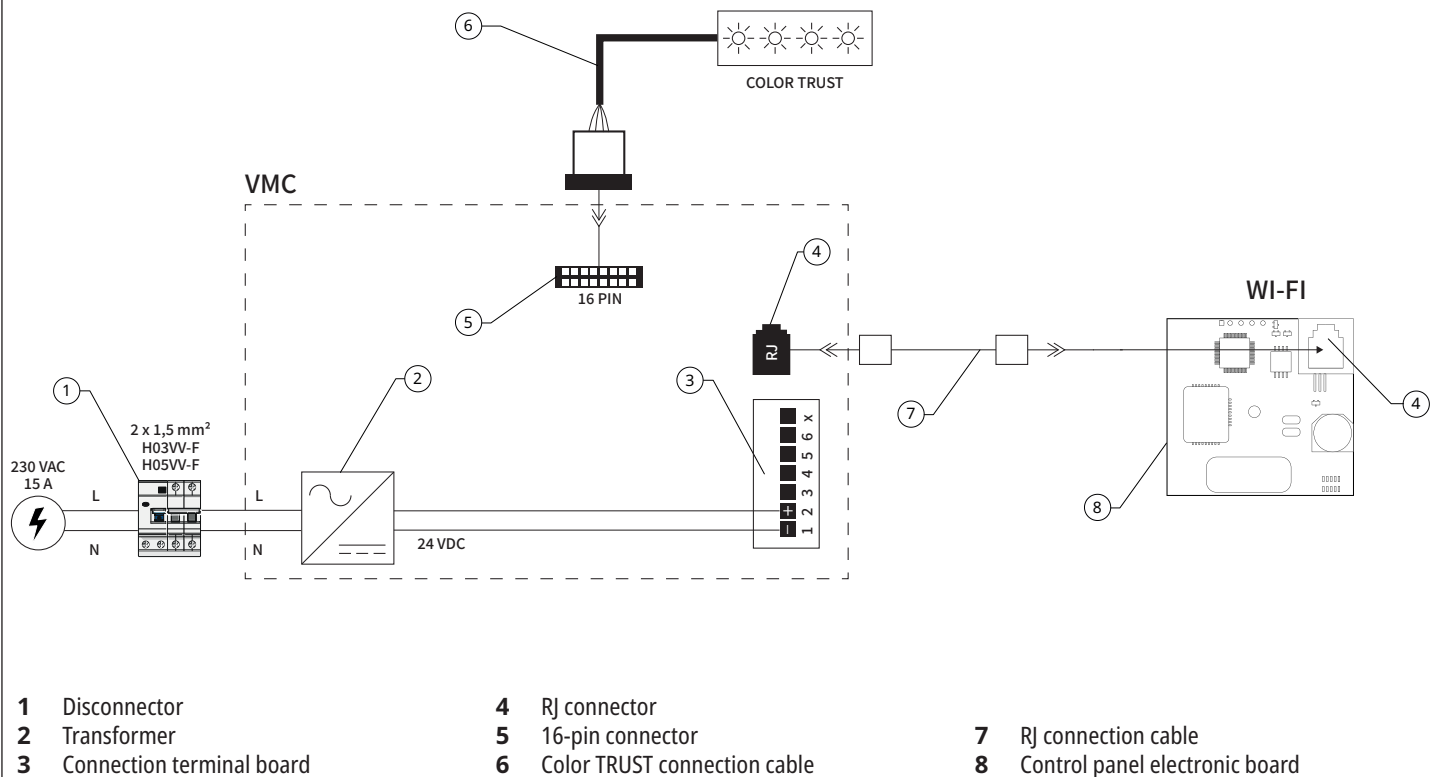
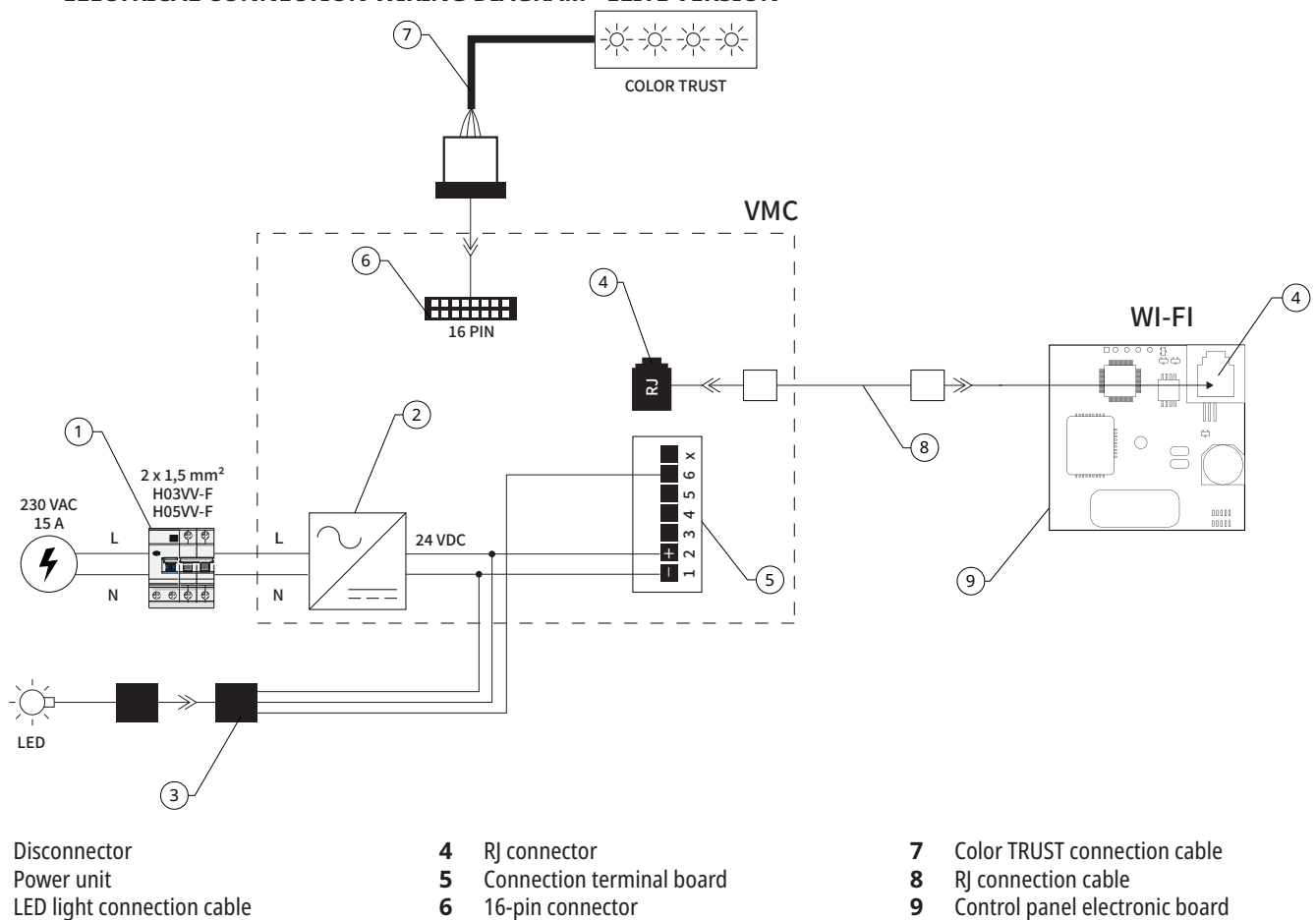
Air-tightness is ensured by compressed gaskets between machine and wall.

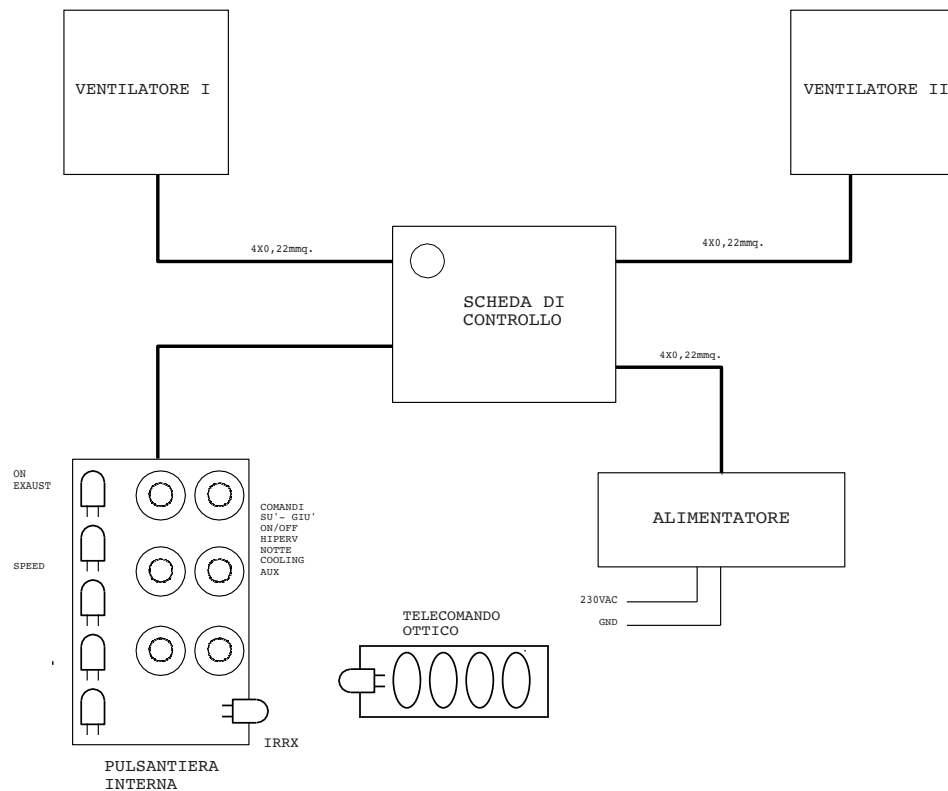
3.10 Electrical connections

3.10.1 Electrical connections



Connect the control panel during finishing operations, see 3.11 *p. 24*, at the same time as positioning the cover.

3.8 ELECTRICAL CONNECTION WIRING DIAGRAM - PLUS VERSION**3.9 ELECTRICAL CONNECTION WIRING DIAGRAM - ELITE VERSION**

3.10 WIRING DIAGRAM**3.10.2 Precautions**

Electrical wiring and installation must only be performed by qualified individuals possessing the technical and professional expertise regarding the installation, modification, extension and maintenance of the unit, and who are capable of checking said elements for safety and operational purposes.



Before proceeding, check that:

- the power supply line to the mains is equipped with an omnipolar disconnecter with a contact opening distance of at least 3 mm
- the electrical system connected to the product complies with applicable regulations
- the plastic corrugated conduit for the electrical power cables is provided in the setup box
- the data on the HRV unit technical data plate correspond to the electrical distribution network data
- the power supply is disconnected

3.10.3 Procedure

- **Electrical wiring of the HRV unit:**

- ▶ follow the instructions on the wiring diagram



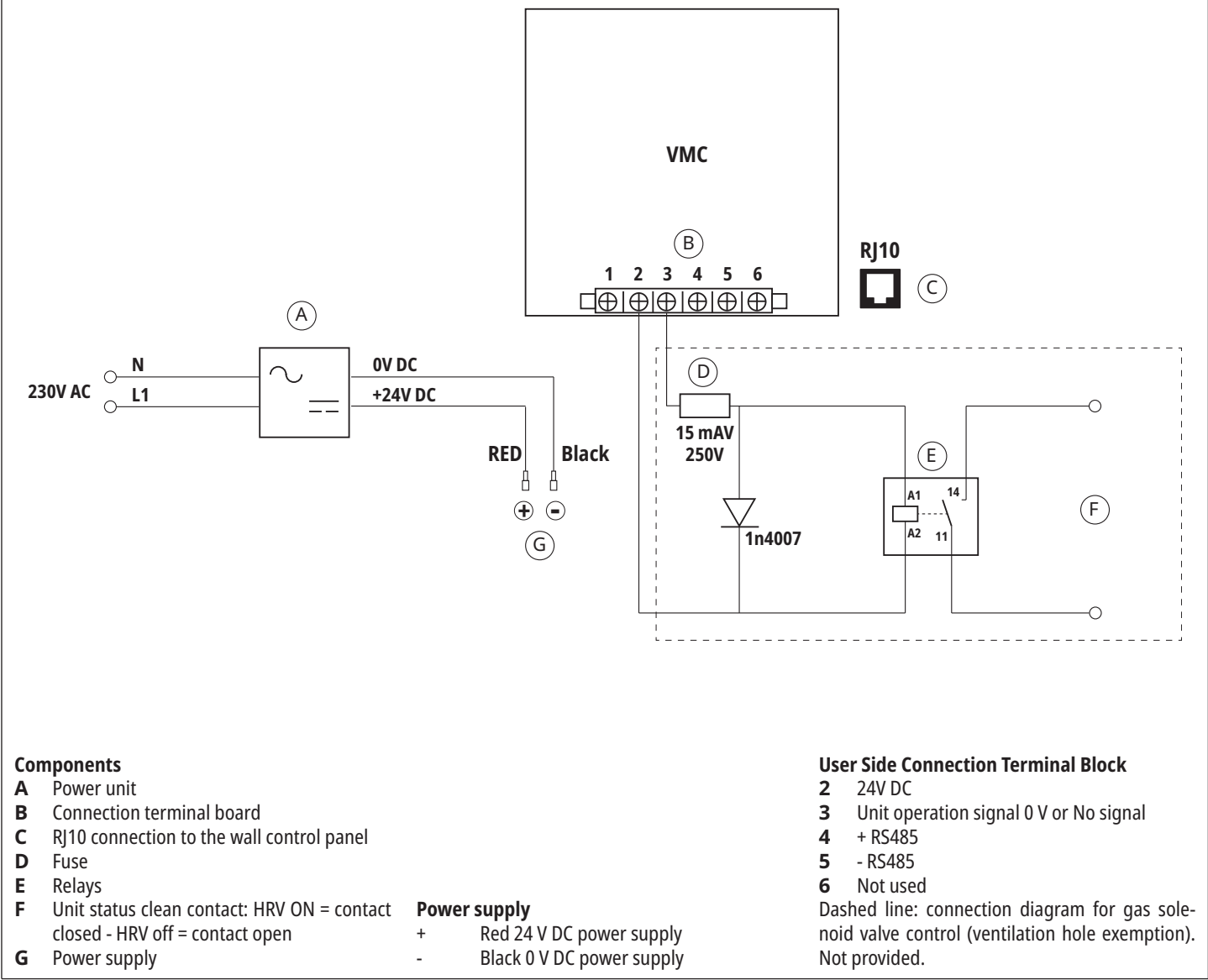
Connect the control panel during finishing operations, see 3.11 *p. 24*, at the same time as positioning the cover.



It is forbidden to connect or disconnect the control panel with the power supply on.

3.10.4 Ventilation hole exemption

3.11



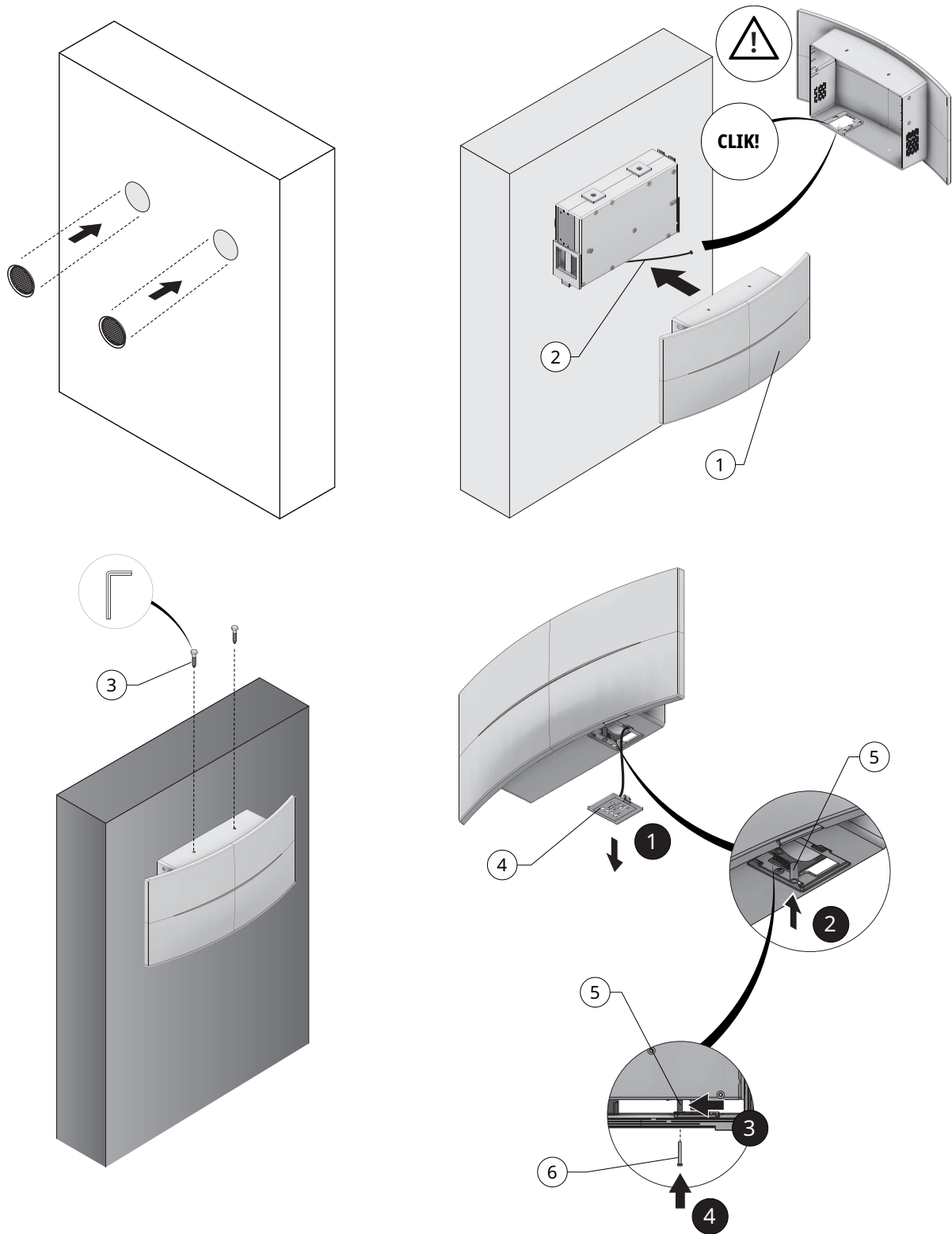
The HRV system has an output signal providing presence and operating information which can be used for interlocked devices on utility systems (gas circuits in particular). Under the UNI 7129- 2 2008 standard APPENDIX B.2, if these devices are installed the provision of permanent openings (natural ventilation holes) in kitchens is not compulsory. The signal supplied to the terminal block is connected to the fan motors for the use of power on/off information. If this information is used, a suitable connection must be provided to carry the signal to the terminal block of the safety device of the solenoid valve installed in the circuit.



The installer is responsible for deciding the type of solenoid valve, the type of system used (open or closed circuit) and the rearm method (manual or automatic).

3.11 Finishing

3.12



- 1 Cover
- 2 Connecting the cover control panel
- 3 Cover fixing screw

- 4 Control panel
- 5 Spacer
- 6 Fastening screw

3.11.1 Precautions



Finishing operations must be carried out after all connections have been made.



Before proceeding, check that:

- the power supply is disconnected
- all safety conditions are complied with

3.11.2 Procedure

- **Connecting the control panel**



The control panel is on the right-hand side of the cover.

- ▶ connect the cover control panel connection cable to the connector provided on the control board electronic board



See chapter 3.10 *p. 20*.



It is forbidden to connect or disconnect the control panel with the power supply on.

- **Installation of the cover:**

- ▶ position the cover
- ▶ secure with the fixing screws

- **Installing the spacer:**

- ▶ release the control panel from the cover
- ▶ fit the spacer through the opening in the control panel
- ▶ align the spacer with the hole provided
- ▶ insert the fixing screw through the spacer
- ▶ tighten the screw without pressing too hard



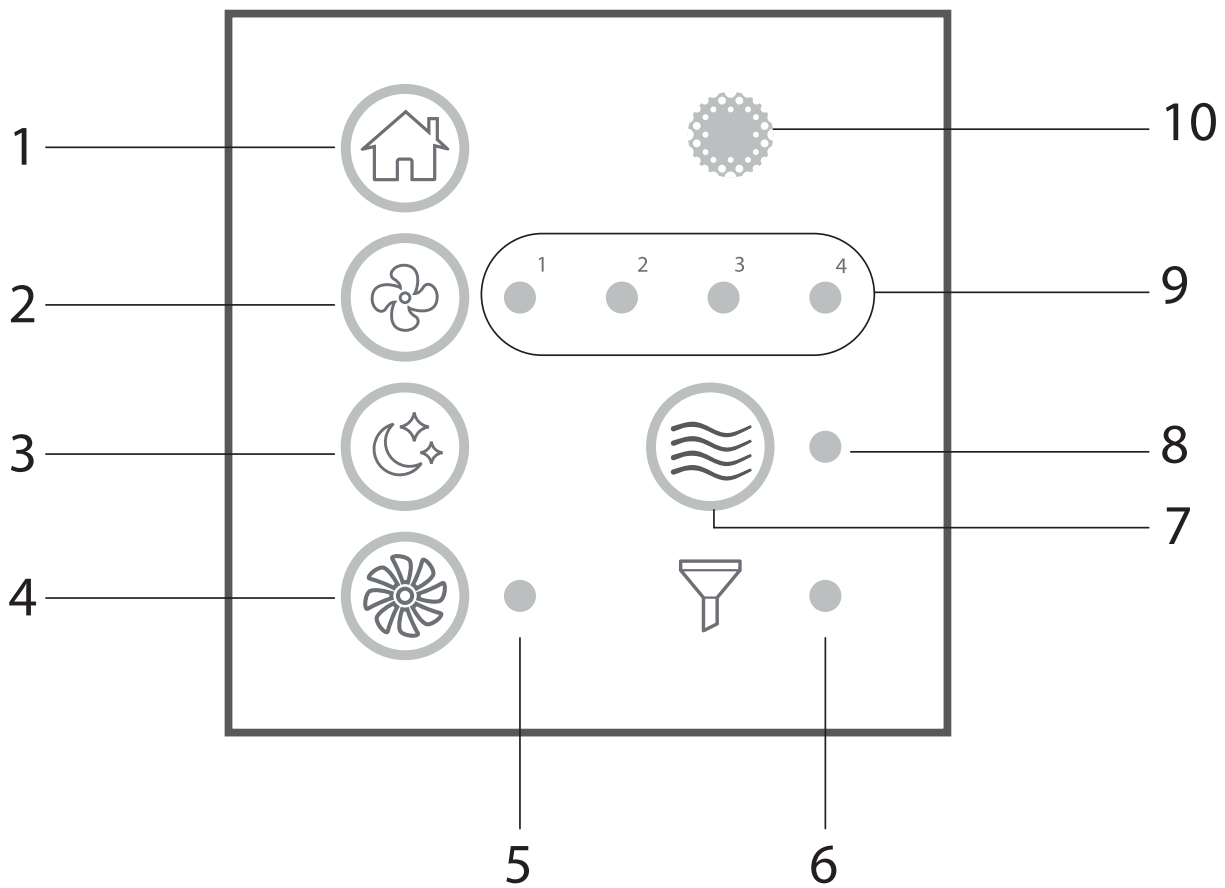
Overtightening the fixing screw may press the cover out of shape.

- **Fitting the air grilles:**

- ▶ fit the air grilles on the outlet holes of the air ducts

4 COMMISSIONING

4.1 COVER CONTROL PANEL



4.1 Key

	ELITE - PLUS
1	LED light ON/OFF and dimmer (for Elite only)
2	Ventilation regulation
3	Night mode
4	High-speed ventilation
5	Flashing blue
6	Flashing
7	Freecooling
8	On (flashing if autofreecooling)
9	Running at the set speed
10	Remote Control IR Receiver

4.1 Precautions



The first commissioning must be carried out by the Installer.



The customer must be present to test appliance function and must be informed about the contents of the manual and about procedures. The manual must be delivered to the customer once commissioning is complete.



All works must be completed before start-up.



Before proceeding, check that:

- all safety conditions are complied with
- the HRV is correctly positioned
- minimum distances have been observed
- the general power supply cables are of suitable section and able to withstand the total power draw of the product
- the electrical connections are properly completed
- the supply voltage corresponds to the product plate data
- the air ducts are correctly connected

4.2 Procedure

• Activating the unit:



Please refer to the control panel user manual for operating information.

- ▶ set the main switch to ON.
- ▶ use the control panel
- ▶ start the HRV

• Checks to running HRV:

- ▶ check correct operation in all modes
- ▶ check that the air flows circulate freely without impediment
- ▶ check for abnormal vibrations











Condensate may form on the surface of the cover in winter. In this case:



- ▶ dry with a cloth
- ▶ reduce speed temporarily
- ▶ bring ambient conditions to a temperature between 20 and 23 °C and humidity between 40 and 60%
- ▶ ventilate the room by opening the windows for a short time

5 MAINTENANCE

5.1 Precautions

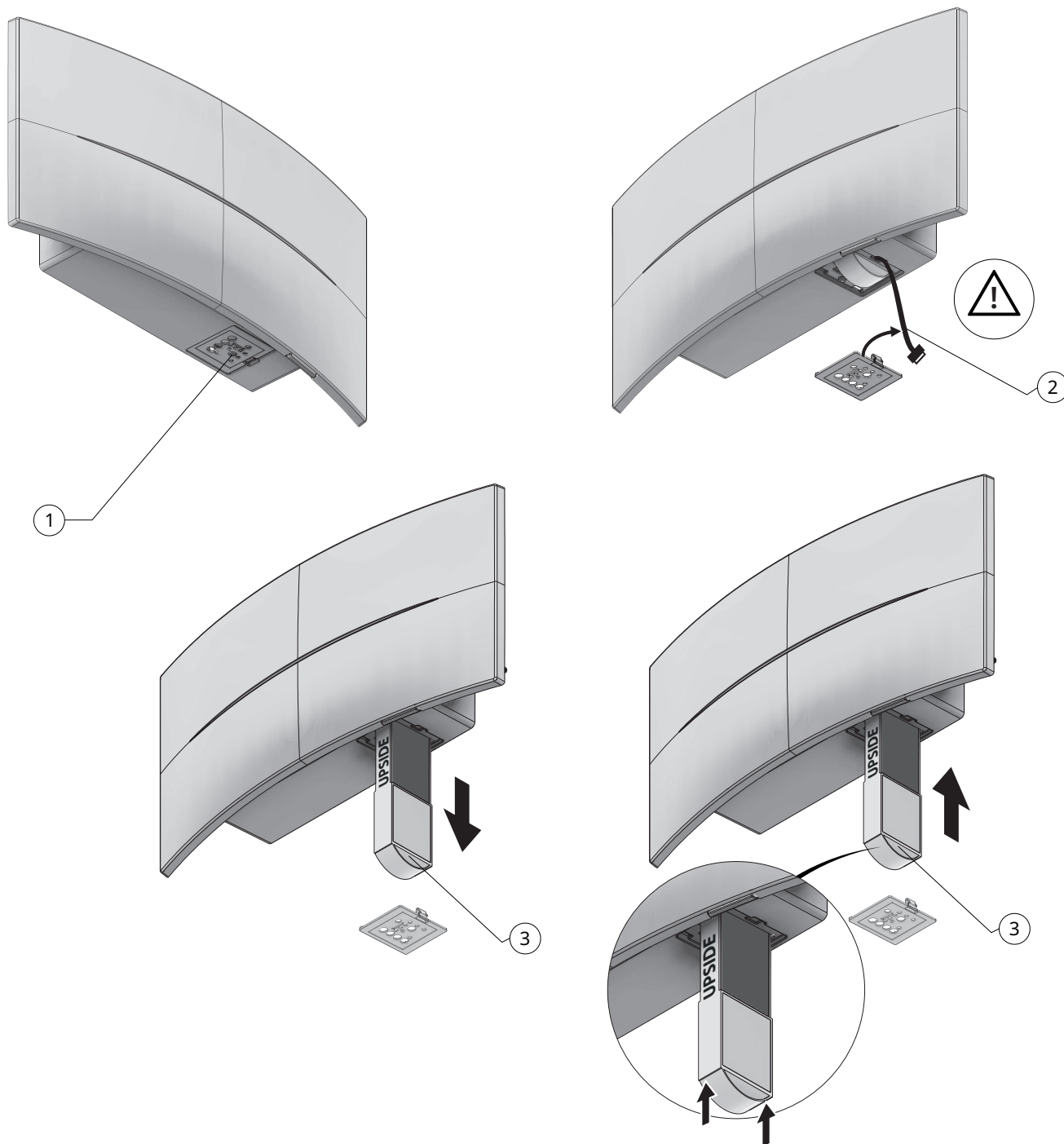
-  Periodic maintenance is essential to maintain the long-term efficiency, safety and reliability of the appliance.
-  Use only original spare parts when replacing components.
-  To purchase original filters, contact your dealer or Helyt.
-  **Always turn off the electrical system's main switch for cleaning, maintenance or filter replacement.**
-  Restore all original operating conditions once maintenance is completed.
-  In the event of malfunction or breakdown, do not perform any improvised work in an attempt to repair, dismantle or modify the product. Contact Helyt.
-  Do not perform any maintenance or cleaning before disconnecting the unit from the mains power supply.
-  Before proceeding, check that:
 - the power supply is disconnected
 - all safety conditions are complied with

5.2 Cleaning

- **Cover cleaning:**
 - ▶ use a damp, soft cloth
 - ▶ gently clean the external surface
- **In case of stains:**
 - ▶ use lukewarm water with a small amount of neutral detergent
-  Do not use water above 40 °C, solvents, petrochemicals or other aggressive chemical composites, talcum powder and brushes that could damage the surface or colour of the cover.
-  **Do not pour water directly onto the product; this may damage the internal components or cause a short circuit.**

5.3 Air filter replacement

5.1



- 1** Cover control panel
2 Cover control panel connection cable

3 Single F7/G2 filter







Before completely removing the cover, disconnect the control panel.






It is forbidden to connect or disconnect the control panel with the power supply on.

5.3.1 Precautions

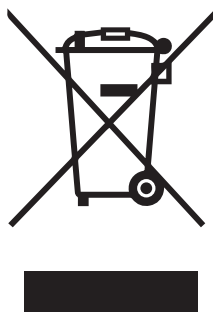
-  Operate the unit only with the filters installed. If removed, dust and dirt can accumulate inside the heat exchanger which may lead to failure or reduced performance.
-  To ensure efficient operation, periodic filter replacement is necessary.
-  Maintenance frequency for the filter will depend on the working environment and the unit's running time.
-  If you suspect contamination (e.g. from COVID-19) of the extracted air, replace the filters without attempting to clean them. Wear personal protective equipment (e.g. FFP2 masks, gloves, etc.) when replacing the filters and treat the replaced filters as special waste.

5.3.2 Procedure

- **To access the filter:**
 - ▶ undo the fixing screw
 - ▶ remove the cover hatch
-  Disconnect the control panel before removing the cover hatch.
- **To replace the F7/G2 filter**
 - ▶ pull the knob provided
 - ▶ replace with a new filter
 - ▶ take care to position correctly
-  The word Upside must be facing upward.
 - ▶ press on the sides to facilitate insertion
- **At the end:**
 - ▶ assemble the components in reverse order
 - ▶ switch on the power supply
-  Please refer to the control panel user manual for resetting the filter alarm.

6 DISPOSAL

6.1



Pursuant to Directives 2011/65/EU and 2012/19/EU concerning the reduction of the use of hazardous substances in electrical and electronic equipment as well as waste disposal. The crossed bin symbol on the appliance indicates that the HRV system must be disposed of separately from other waste at the end of its life. At the end of HRV life, the user must take the system to an appropriate waste collection centre for electronic and electrical waste or return it to the retailer when purchasing a new appliance of the same type on a one-for-one basis.

Adequate separate collection for the future use of the decommissioned HRV system for environmentally compatible recycling, treatment and disposal helps to prevent any negative impact on the environment and health and promotes the reuse and/or recycling of the HRV's component materials.



Illegal disposal by the user may result in the application of administrative penalties provided by the laws in force.



Dispose of the used filter unit in non-recyclable waste.



For disassembling the appliance, contact only the authorised Technical Support Service.

7 TECHNICAL INFORMATION

7.1 Technical data

Characteristic	u. m.	FlowPLUS	FlowELITE
Balanced air exhaust and intake flow			
Superlow speed (night)	m ³ /h	8	8
Speed 1	m ³ /h	10	10
Speed 2	m ³ /h	17	17
Speed 3	m ³ /h	26	26
Speed 4	m ³ /h	37	37
High-speed ventilation	m ³ /h	42	42
Electrical power consumption			
Superlow speed (night)	W	-	-
Speed 1	W	4	4 ⁽¹⁾
Speed 2	W	6	6 ⁽¹⁾
Speed 3	W	9	9 ⁽¹⁾
Speed 4	W	18	18 ⁽¹⁾
High-speed ventilation	W	20	20 ⁽¹⁾
Specific Power Input			
Superlow speed (night)	W/m ³ /h	-	-
Speed 1	W/m ³ /h	0,35	0,35 ⁽²⁾
Speed 2	W/m ³ /h	0,32	0,32 ⁽²⁾
Speed 3	W/m ³ /h	0,35	0,35 ⁽²⁾
Speed 4	W/m ³ /h	0,47	0,47 ⁽²⁾
High-speed ventilation	W/m ³ /h	0,48	0,48 ⁽²⁾
Sound power level ⁽³⁾			
Superlow speed (night)	dB(A)	-	-
Speed 1	dB(A)	29,5	29,5
Speed 2	dB(A)	39,9	39,9
Speed 3	dB(A)	42,0	42,0
Speed 4	dB(A)	50,7	50,7
High-speed ventilation	dB(A)	-	-
Sound pressure (3 m) ⁽⁴⁾			
Superlow speed (night)	dB(A)	-	-
Speed 1	dB(A)	18,0	18,0
Speed 2	dB(A)	23,4	23,4
Speed 3	dB(A)	30,5	30,5
Speed 4	dB(A)	39,2	39,2
Specifications			
Flow adjustment		Night + 4 settings + high-speed ventilation	
Power supply	V AC	230	
Operating voltage	V DC	24	
Maximum absorbed current	A	0,17	0,35

⁽¹⁾ Does not include current draw of LED lights (10W)⁽²⁾ Not including LEDs⁽³⁾ Pursuant to UNI 3744:2010⁽⁴⁾ Measured in a semi-anechoic environment of 30 m² at a distance of 3 m.⁽⁵⁾ In this case the control panel is excluded.

Characteristic	u. m.	FlowPLUS	FlowELITE
Heat recovery system		Enthalpy heat exchanger	
Heat recovery efficiency	%	91	91
Bypass (freecooling / freeheating)		Manual electronics	
Outdoor air intake filtration class		F7+G4	
Indoor air exhaust filtration class		G2	
Modbus RTU rs485 ⁽⁵⁾		yes	

(1) Does not include current draw of LED lights (10W)

(2) Not including LEDs

(3) Pursuant to UNI 3744:2010

(4) Measured in a semi-anechoic environment of 30 m² at a distance of 3 m.

(5) In this case the control panel is excluded.

Characteristic	u. m.	FlowPLUS	FlowELITE
LED Data			
Quantity	No	-	4
Totale power input	W	-	10
Luminous Efficiency	lm/W	-	100
Color Temperature	K	-	4000

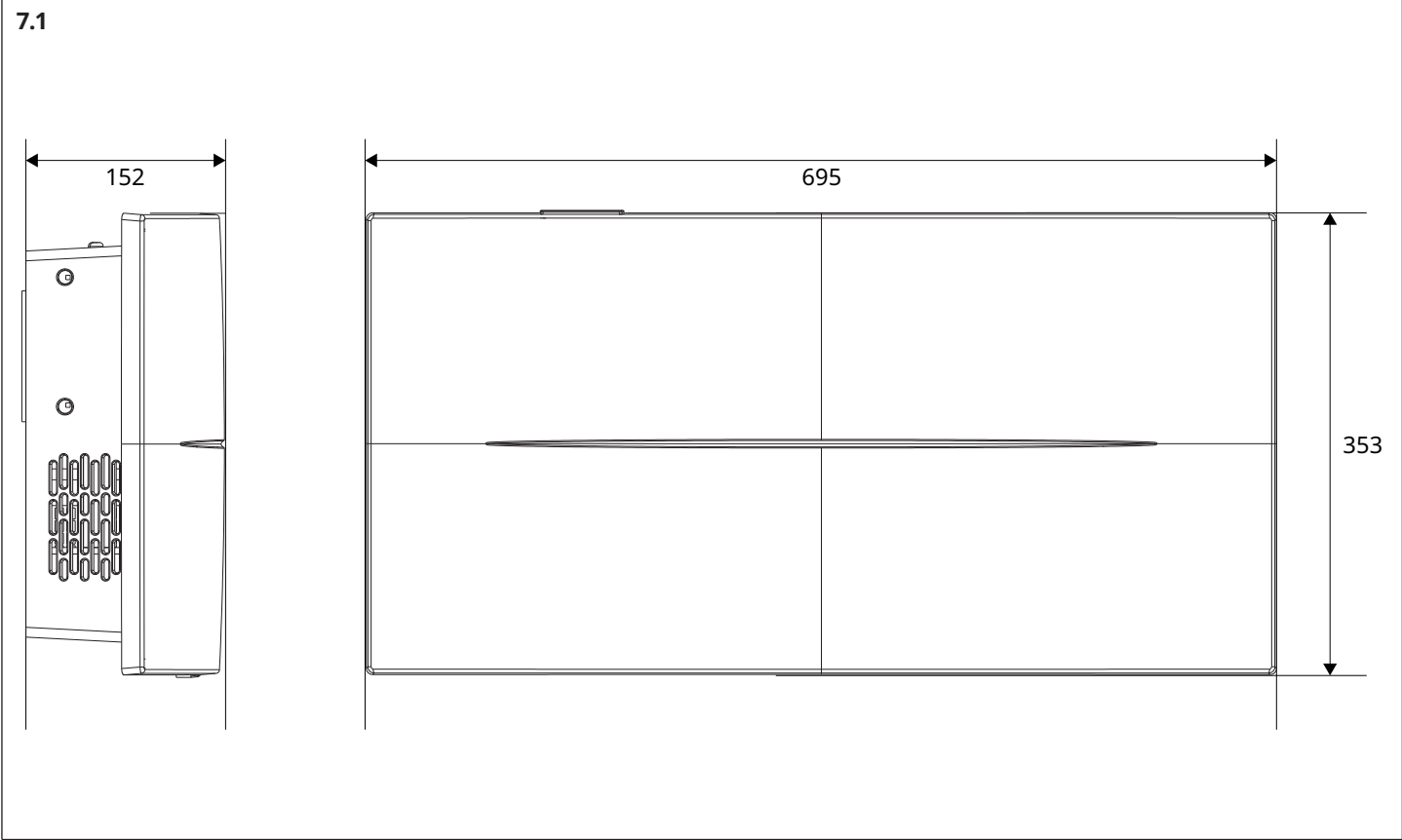
Characteristic	u. m.	FlowPLUS	FlowELITE
Dimensions			
Base	mm	695	695
Height	mm	353	353
Depth	mm	152	152
Weight	kg	8	8

7.2 Energy efficiency declarations

7.4 Pursuant to EU regulation 1253/2014 - annex IV

Characteristic	u. m.	FlowPLUS	FlowELITE
Energy efficiency			
Trade name of manufacturer		Helly	
Unit type		UVR-B bidirectional	
Driving		Multi-speed	
Heat recovery system		Enthalpy heat exchanger	
Heat efficiency	%	76	76
Maximum flow rate	m³/h	37	37
Electrical power input at maximum flow rate	W	18	18
Sound power level	Lwa	42	42
Reference flow rate	m³/h	26	26
Pressure differential	Pa	0	0
Specific power input SPI	W/m³/h	0,35	0,35
Control factor (CTRL)		Local	
Internal leakage	%	1	1
External leakage	%	1	1
Description of filter exhausted alarm		Illuminating on unit	
Internet link with assembly instructions		www.hellyair.com	
Energy class			
Cold		A+	
Average		A	
Warm		E	
SEC			
Cold	kWh/m²a	-74,1	-74,1
Average	kWh/m²a	-37,9	-37,9
Warm	kWh/m²a	-14,6	-14,6

7.3 Dimensional drawings



8 ACCESSORIES

8.1 Weak wall plate kit

8.1.1 Description

The weak wall plate kit is a solution designed to enable installation of the Heat Recovery Ventilation (HRV) unit in contexts where the supporting wall does not have sufficient structural strength for standard installation. This kit is particularly useful in historic buildings, in premises with walls in lightweight materials or in any situation where the condition of the wall limits the installation of HRV systems.

8.1.2 Supply composition

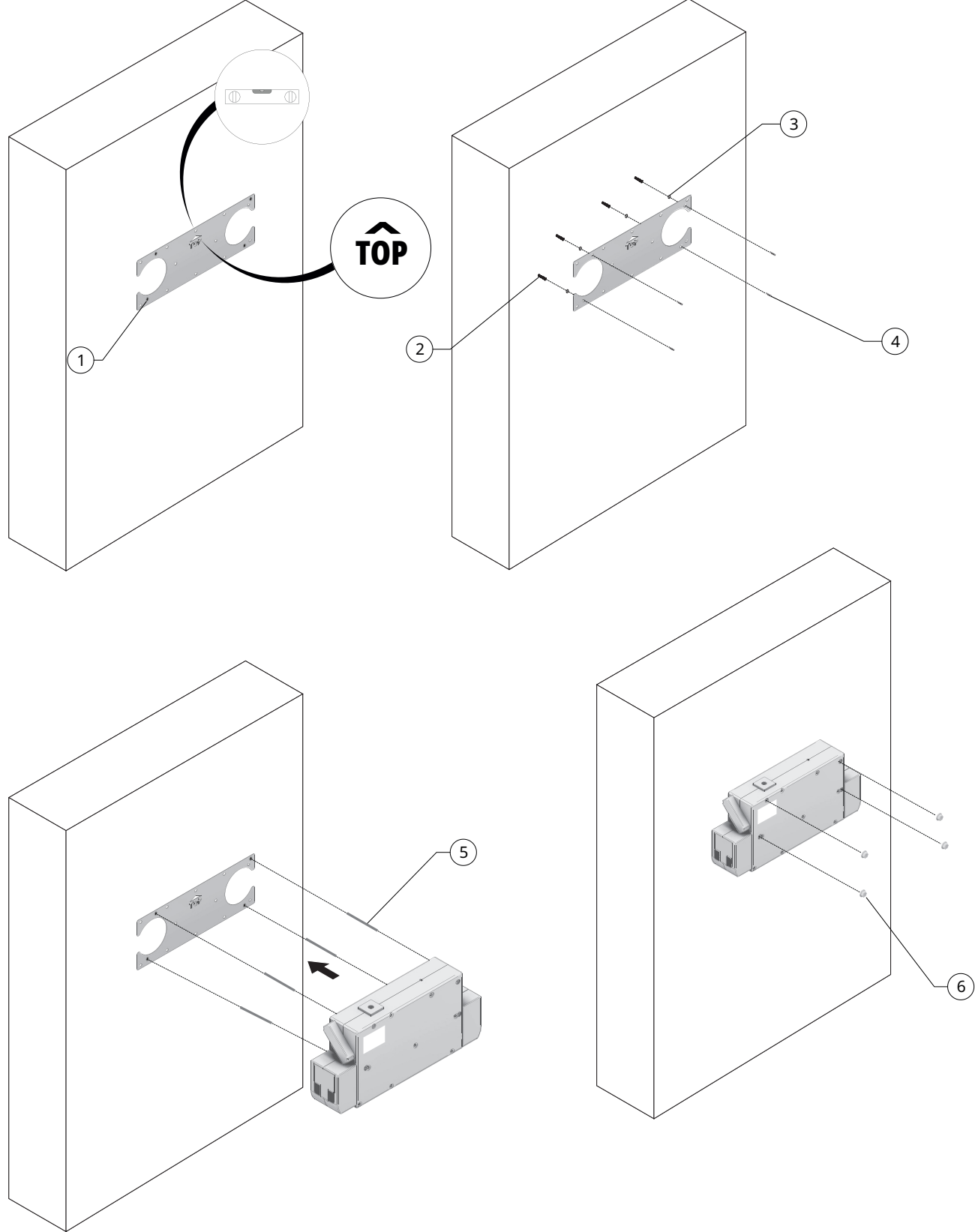
8.1 SUPPLY COMPOSITION

The diagram shows an exploded view of the weak wall plate kit components. A central metal plate (2) with a 'TCP' logo and two large circular cutouts is the main component. It is surrounded by various fasteners: rivets (1) for the top and bottom edges, threaded pins (3) for the top and bottom edges, flange nuts (4) for the top and bottom edges, flat washers (5) for the top and bottom edges, fastening screws (6) for the top and bottom edges, and expansion anchors (7) for the top and bottom edges. The components are arranged in a way that shows how they fit together to form a secure mounting system.

1	Rivet	4	Flange nut	7	Expansion anchor
2	Central plate	5	Flat washer		
3	Threaded pin	6	Fastening screw		

8.1.3 Assembly

8.2 INSTALLING THE CENTRAL PLATE



- 1 Drilled hole
2 Expansion anchor

- 3 Flat washer
4 Screw

- 5 Threaded pin
6 Flange nut

Precautions



Before tracking and drilling, check that the wall section does not contain pipes or electrical lines and that load-bearing elements are not compromised.



Check that the support surface is level and smooth.



Check that the screws and expansion anchors supplied are suitable for the characteristics of the support surface and the supported load.

Procedure

- **Installing the central plate:**

- ▶ use the central plate as a template
- ▶ place it on the installation point



Position the template with the word TOP at the top.

- ▶ use a spirit level and check that the plate is horizontal
- ▶ mark the position of the fixing holes
- ▶ drill the holes in the wall
- ▶ insert the plastic expansion anchors supplied
- ▶ fit the washers over the expansion anchors, between the wall and the plate
- ▶ fix the central plate to the wall using the fixing screws
- ▶ fully hand-tighten the threaded screws on the rivets provided
- ▶ fit the HRV unit, centring it on the threaded pins
- ▶ tighten the flange nuts on their respective pins



Do not overtighten the flange nuts

8.2 Ducting kit diameter 100

8.2.1 Description

The kit of air grilles diameter 100 must be used if it is not possible to fit the grilles from the outside.
The grilles supplied in the kit can be folded and inserted from inside the room.

Supply composition

8.3

The diagram illustrates the components of the ducting kit. It includes two external grilles (1) with locking cords (2). There are spare gaskets for ducting (3) and rear gaskets (4). The kit also includes two air ducts (5) with a diameter of 100 mm.

1 External grille

2 External grille locking cord

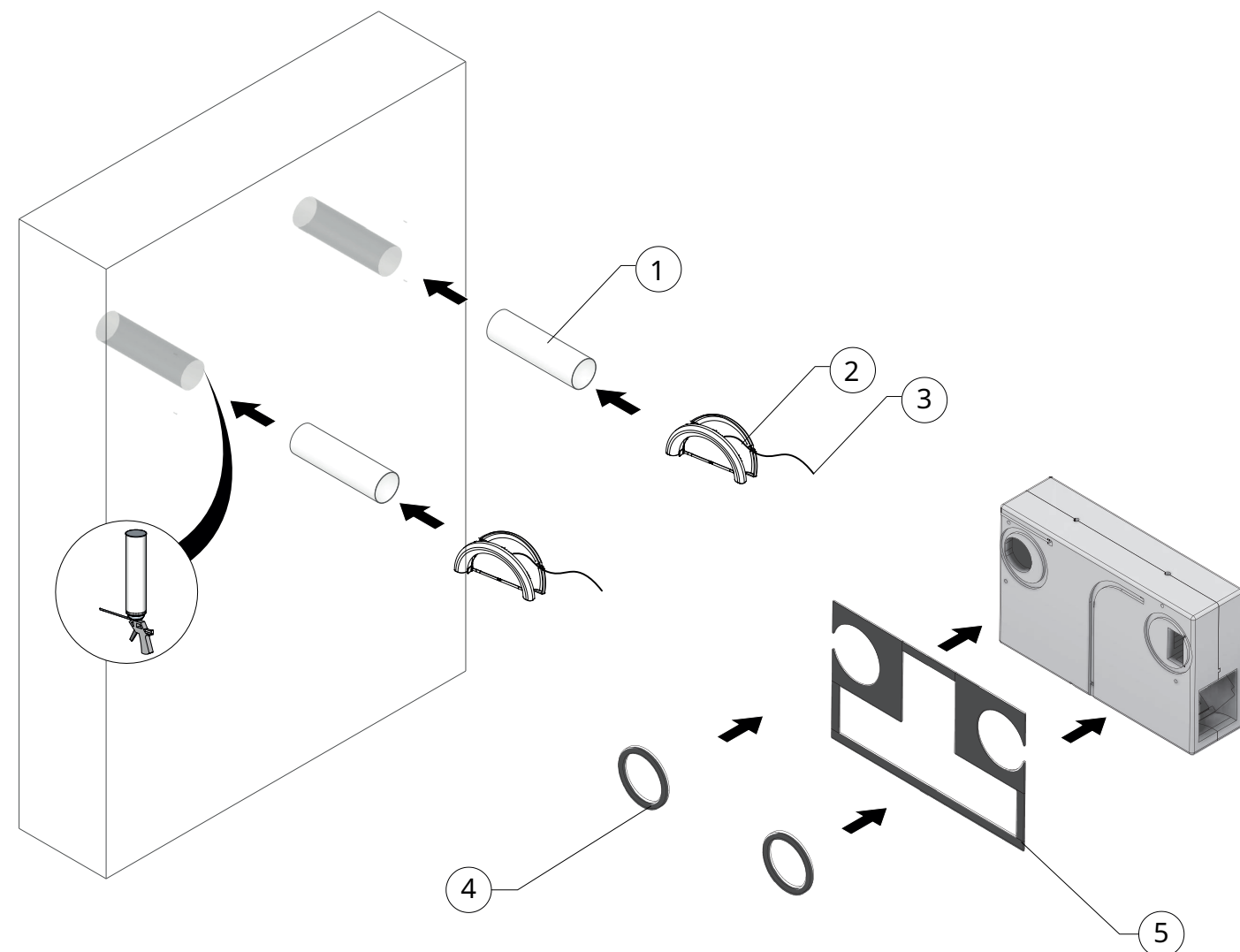
3 Spare gaskets for ducting

4 Rear gaskets

5 Air ducts Ø 100

8.2.2 Assembly

8.4 AIR GRILLE DIAMETER 100



- 1 Air ducts
2 External grille

- 3 External grille locking cord
4 Spare gaskets for ducting

- 5 Rear gaskets

Procedure

- **Installing the external grilles:**
 - ▶ insert the grilles in the air ducts
 - ▶ make them come out of the outer wall
 - ▶ pull the locking cord towards you to engage them
- **Installing the rear grilles:**
 - ▶ remove the protective film
 - ▶ apply the gaskets to the rear of the HRV unit



The kit includes two spare gaskets for the ducting, for use if those supplied as standard on the HRV unit are damaged.

- **Installing the HRV unit:**
 - ▶ proceed as described in point 3.9

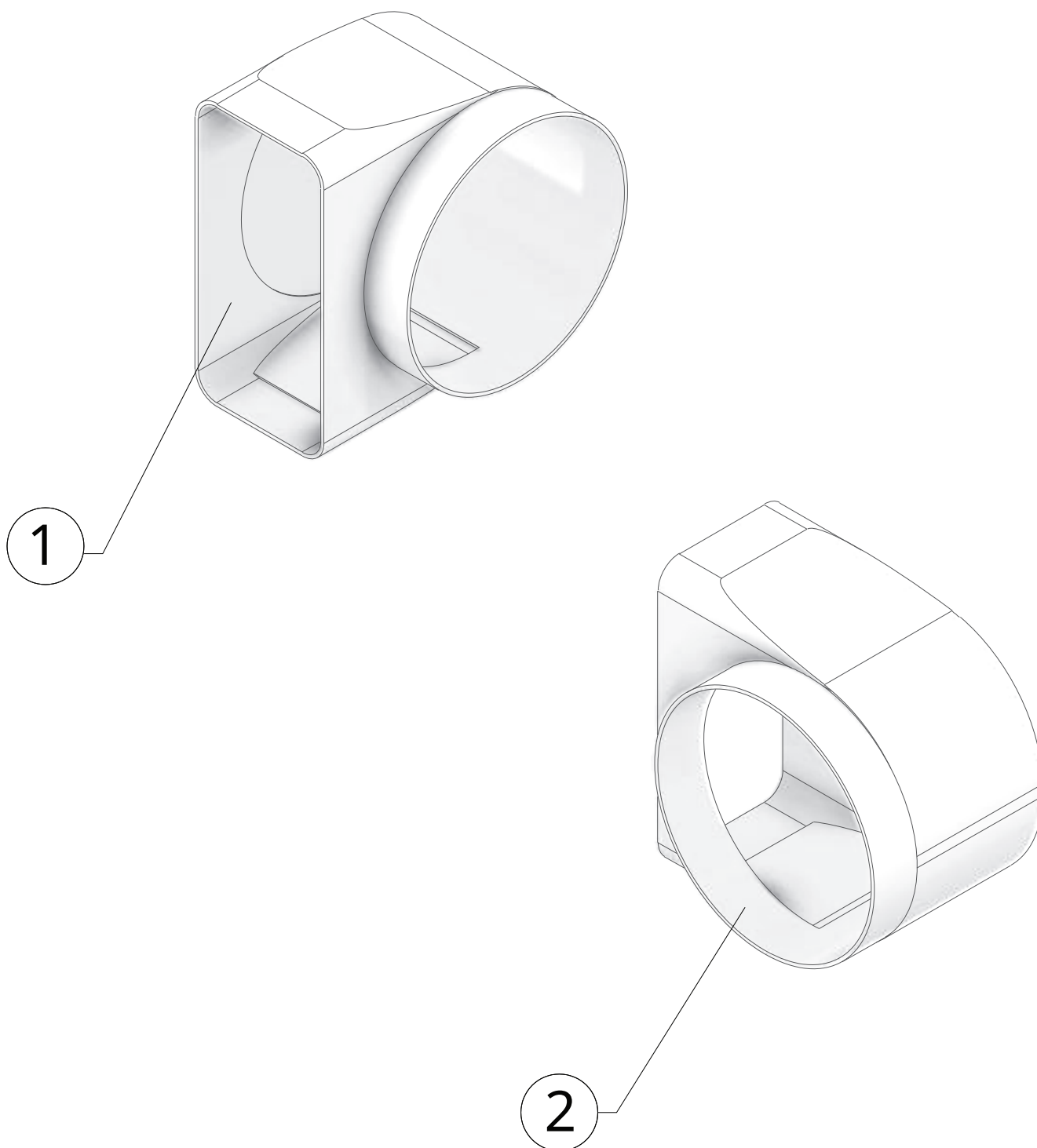
8.3 Window-side output air duct kit

8.3.1 Description

Window-side output air duct kit is a system designed to reduce the impact of the grilles on the building's facade. This kit comprises a number of components which allow the air to be ducted to the outside through an opening next to a window.

Supply composition

8.5

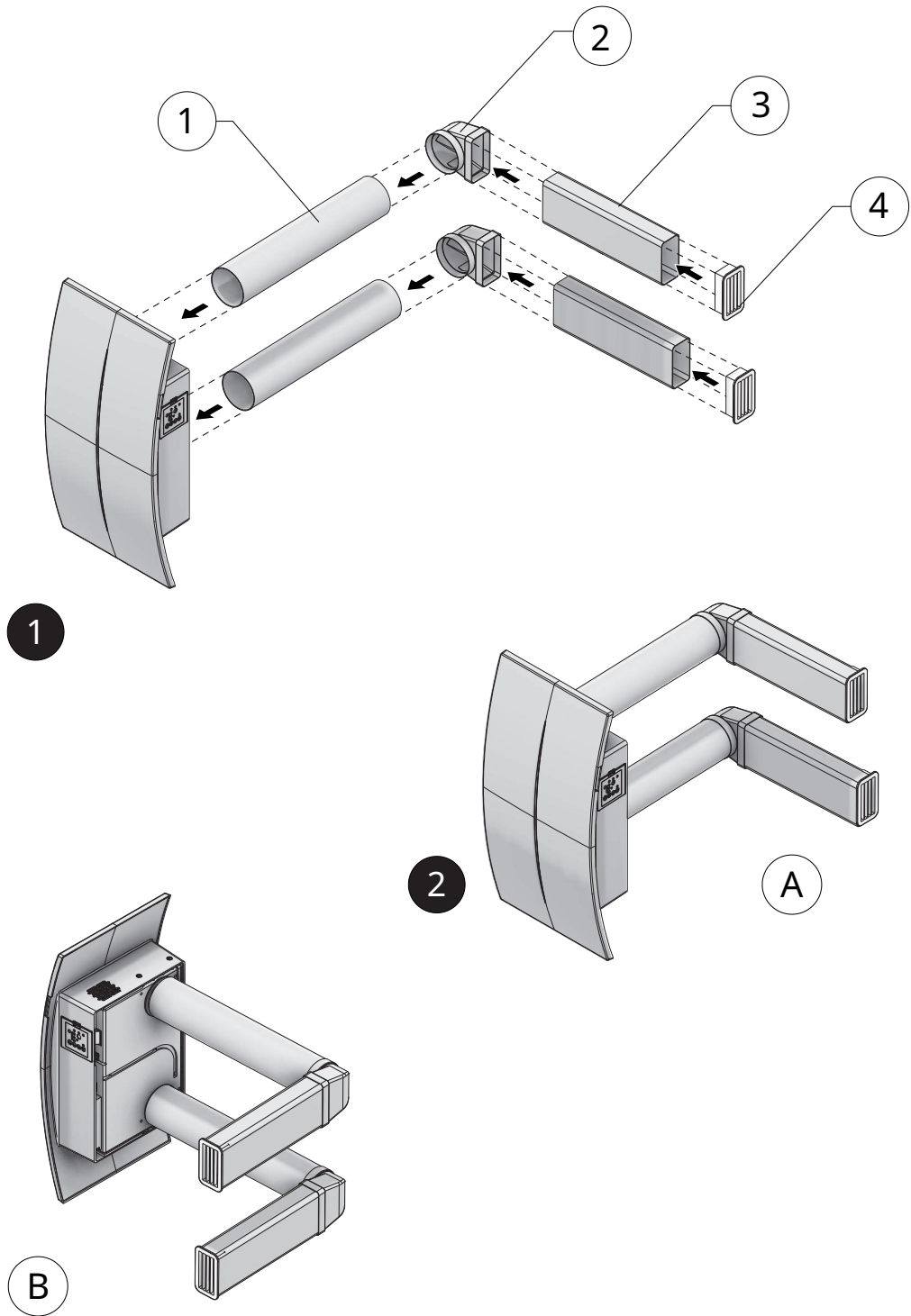


1 Rectangular connection side

2 Round connection side

8.3.2 Assembly

8.6



- | | | | |
|---|-------------------------------------|---|----------------------|
| 1 | Round air duct Ø 100 | 3 | Rectangular air duct |
| 2 | Window-side output air duct adapter | 4 | Air vent |

8.3.2.1 Safety notes and preliminaries



Take care to comply with local and regional regulations regarding the installation of external ventilation devices.



Check that the kit is compatible with the existing ventilation system prior to installation.



When positioning the output, take care to avoid interference with other building structures or pedestrian pathways.



To guarantee safe, effective installation, only use the accessories and materials supplied in the kit.



Make sure that installation is performed by skilled personnel.

Procedure

- **Installing the air vent kit:**

- ▶ connect the round air ducts Ø 100 to the connections provided on the HRV unit
- ▶ connect the adapters to the round and rectangular pipes
- ▶ fit the air vents into the rectangular pipes
- ▶ make sure that the air vents are firmly secured



The following instructions refer to the vertical installation. The horizontal installation follows the same logic.

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