

INSTALLATION AND OPERATION MANUAL

AERO SOLO

Single-room heat recovery unit with a ceramic exchanger.

AERO SOLO 50 · AERO SOLO 100



CONTENTS

CONTENTS

01 SAFETY AND INTENDED USE

- 1.1 Safety instructions
- 1.2 Intended use
- 1.3 Scope of delivery

02 TECHNICAL DATA

- 2.1 Parameters
- 2.2 Dimensions
- 2.3 Performance by speed

03 DESIGN AND FUNCTION

- 3.1 Unit description
- 3.2 Operating principle
- 3.3 Multiple units working together

04 MOUNTING

- 4.1 Location
- 4.2 Wall opening
- 4.3 Installation procedure

05 ELECTRICAL CONNECTION

- 5.1 Power supply and protection

06 CONTROL

- 6.1 Control panel
- 6.2 Remote control
- 6.3 Mobile app

07 MAINTENANCE AND TROUBLESHOOTING

- 7.1 Maintenance schedule
- 7.2 Troubleshooting
- 7.3 Storage and transport

08 WARRANTY

- 8.1 Warranty terms

01

SAFETY AND INTENDED USE

Read this entire manual carefully before installation and commissioning, and keep it for future reference.

1.1 Safety instructions

WARNING Installation, electrical connection and servicing may only be carried out by a qualified person. Disconnect the unit from the mains before any work on it.

OPERATION

- The unit may be used by children aged 8 and over and by persons with reduced capabilities only under supervision or after instruction on its safe use.
- Children must not play with the unit. Cleaning and maintenance must not be carried out by children without supervision.
- Do not insert objects into the unit and do not cover the indoor panel or the outer hood.
- Do not touch the unit with wet hands.

INSTALLATION

- Install the unit only after construction work in the room is complete.
- Before installation, check the unit for damage.
- Modifications to the unit and interference with the internal wiring are prohibited.
- When drilling the opening, watch out for services in the wall.

COMBUSTION APPLIANCES

The unit may affect the operation of gas or solid-fuel appliances that draw air from the room. After installation, a specialist must verify that there is no backdraft of flue gases.

POWER CABLE

A damaged power cable may only be replaced by the manufacturer, a service technician or a similarly qualified person.

NOTE The conveyed air must not contain dust, flammable or explosive mixtures or sticky substances. At the end of its service life, take the unit to a separate collection point – it does not belong in household waste.

1.2 Intended use

AERO SOLO is a single-room heat recovery unit for ventilating one room – a living room, bedroom, children's room or office. It is installed in an external wall and needs no ductwork. It transfers the heat of the extract air to the fresh air via a ceramic exchanger.

- The unit is designed for continuous operation.
- Not intended for swimming pools, saunas or rooms with permanently high humidity.
- Best results are achieved with two units in a room or apartment operating in counter-phase.

1.3 Scope of delivery

ITEM	QTY
Indoor panel with controls	1 pcs
Cartridge with ceramic exchanger, fan and filters	1 pcs
Duct Ø160 mm with outer hood	1 pcs
Remote control	1 pcs
Installation and operation manual	1 pcs

02

TECHNICAL DATA

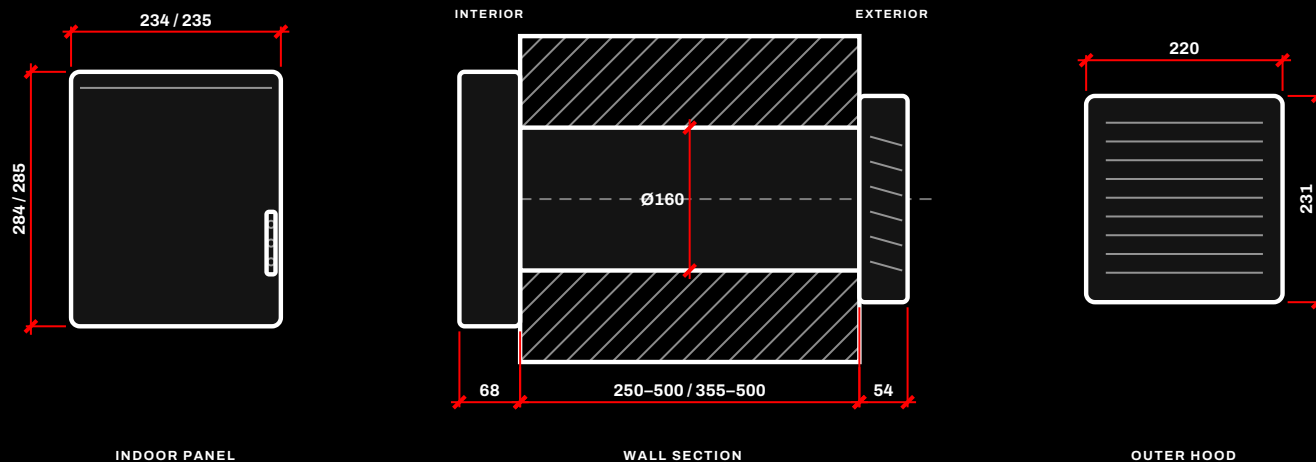
Parameters, performance by speed and dimensions of both AERO SOLO sizes.

2.1 Parameters

PARAMETER	UNIT	AERO SOLO 50	AERO SOLO 100
Airflow – ventilation (max.)	m³/h	50	108
Airflow – heat recovery (max.)	m³/h	25	54
Heat recovery efficiency	%	up to 93	up to 87
Energy efficiency class		A	A
Power supply	V / Hz	100–240 / 50	100–240 / 50
Power input	W	4,45 – 7,06	3,2 – 18
Sound pressure at 3 m	dB(A)	11 – 21	13 – 42
Outdoor noise attenuation	dB	42	42
Filters		G3	G3
Conveyed air temperature	°C	–20 to +40	–20 to +40
Duct diameter	mm	Ø160	Ø160
Wall thickness	mm	250 – 500	355 – 500
Protection rating		IP24	IP24

2.2 Dimensions

AERO SOLO 50 / AERO SOLO 100 · DIMENSIONS IN mm



2.3 Performance by speed

AERO SOLO 50

SPEED	I	II	III
Airflow – ventilation (m³/h)	15	30	50
Airflow – heat recovery (m³/h)	8	15	25
Power input (W)	4,45	5,08	7,06
Sound pressure at 3 m (dB(A))	11	18	21

AERO SOLO 100

SPEED	I	II	III	MAX
Airflow – ventilation (m³/h)	18	30	58	108
Airflow – heat recovery (m³/h)	9	15	29	54
Power input (W)	3,2	4	6,6	18
Sound pressure at 3 m (dB(A))	13	18	30	42

MAX speed (AERO SOLO 100) is activated in the mobile app.

03

DESIGN AND FUNCTION

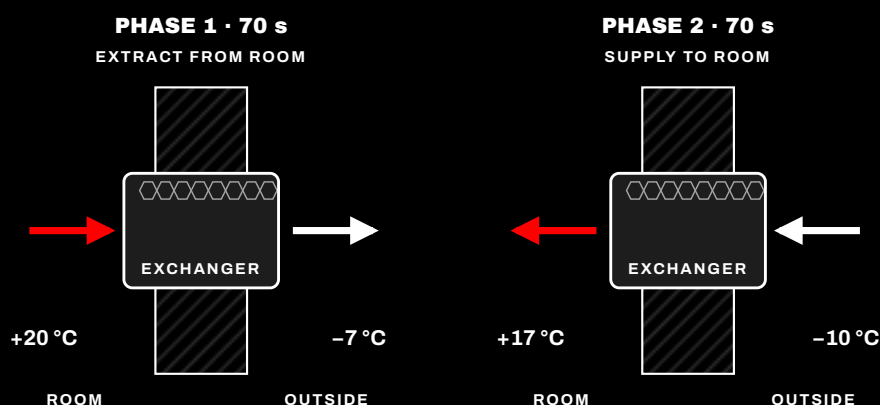
What the unit consists of and how it works.

3.1 Unit description

PART	DESCRIPTION
Indoor panel	decorative cover with control panel, Wi-Fi module and humidity sensor; closable flaps
Cartridge	ceramic exchanger, reversing EC fan and two G3 filters
Duct Ø160 mm	with damping insert, runs through the full wall thickness
Outer hood	protects the opening from rain and birds

3.2 Operating principle

In **heat recovery** mode, the unit reverses the airflow direction every 70 seconds. During extraction, warm room air heats up the ceramic exchanger; during supply, fresh outdoor air takes this heat back. In **ventilation** mode, the unit continuously supplies or extracts air without heat recovery – used in summer.



3.3 Multiple units working together

Via Wi-Fi, the units are combined into a group. One unit is the **Master** (main unit) – it receives commands from the remote control and controls the other **Slave** units. Paired units operate in counter-phase: while one supplies, the other extracts, so ventilation is balanced.

04

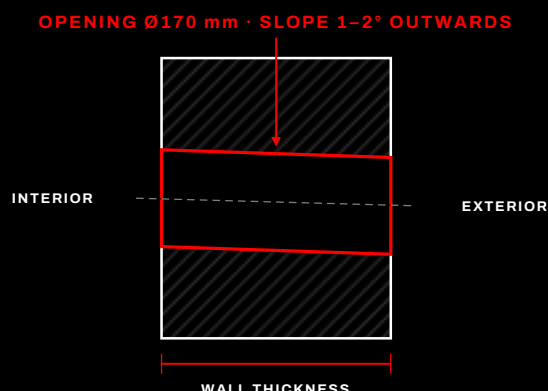
MOUNTING

Unit location, opening preparation and installation procedure.

4.1 Location

- Install the unit in an external wall with a thickness of 250–500 mm (AERO SOLO 50) or 355–500 mm (AERO SOLO 100).
- The recommended mounting height is min. 2 m above the floor, clear of furniture and curtains.
- Leave min. 0,3 m from the room corner and ceiling so that the cover can be opened.
- Place paired units as far apart as possible.
- The outer hood must not open into an enclosed space, near a source of odours or under a gutter.

4.2 Wall opening



- Drill a Ø170 mm opening, ideally with a core drill.
- Make the opening with a 1–2° slope towards the outside so that water cannot run in.
- In new buildings, prepare the opening before plastering and insulation.

4.3 Installation procedure

- 1 Cut the duct to the wall thickness (including insulation and plaster).
- 2 Insert the duct into the opening, align it with a slope towards the outside and fix it with mounting foam. Once cured, trim the foam flush.
- 3 Fit the outer hood on the outside and seal around it.
- 4 Push the cartridge with the exchanger and fan into the duct as far as it will go.
- 5 Connect the power cable (chapter 5) and fit the indoor panel – it clicks into the latches.
- 6 Switch on the unit and pair it with the other units in the app (chapter 6).

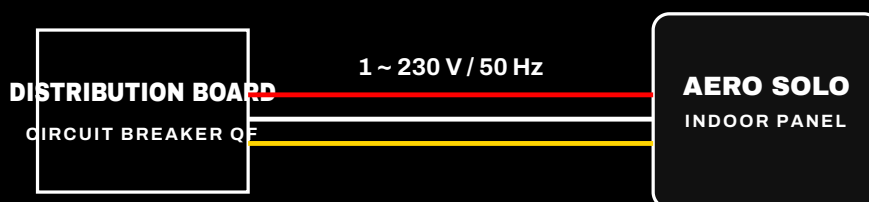
WARNING When foaming, no foam may get inside the duct – it would block the cartridge.

05

ELECTRICAL CONNECTION

Connection to the mains may only be made by a licensed electrician.

5.1 Power supply and protection



L – PHASE · N – NEUTRAL · PE – PROTECTIVE CONDUCTOR

PARAMETER	AERO SOLO 50	AERO SOLO 100
Power supply	100–240 V / 50 Hz	100–240 V / 50 Hz
Power input (max.)	7 W	18 W
Recommended circuit breaker	B6	B6
Cable	CYKY-J 3×1,5	CYKY-J 3×1,5

- 1 Disconnect the power supply at the distribution board.
- 2 Connect the cable at the opening to the unit terminals L, N, PE.
- 3 Fit the indoor panel and switch on the circuit breaker.

NOTE Several units can be connected to one circuit breaker. Control and cooperation of the units are wireless – no other cables are needed.

06

CONTROL

Control the unit with the buttons on the panel, the remote control or the mobile app.

6.1 Control panel

On the side of the indoor panel there are touch buttons and indicators:

INDICATOR	MEANING
Filter	time to clean or replace the filters
Alarm	unit fault – see chapter 7.2
Master	the unit is set as the main unit (Master)

6.2 Remote control

Point the remote control at the Master unit – it passes the command on to the other units.

BUTTON	FUNCTION
On / off	switches the unit (group of units) on or off
I · II · III	speed selection
Ventilation	continuous supply or extract, without heat recovery
Heat recovery	alternating supply and extract with heat recovery
Night mode	low speed for 8 hours
Party mode	high speed for 4 hours

6.3 Mobile app

Download the mobile app, pair the unit in it and set it as Master or Slave.

Control via Wi-Fi at home and remotely via the cloud	Speeds and modes including MAX speed	Weekly schedule automatic changes by time
Humidity sensor at high humidity the unit speeds up to III	Unit groups Master / Slave setting	Smart home integration into a smart home system

07

MAINTENANCE AND TROUBLESHOOTING

Regular maintenance keeps the unit highly efficient and quiet.

7.1 Maintenance schedule

WARNING Before maintenance, switch off the unit and disconnect it from the mains.

WHAT	WHEN	HOW
G3 filters	every 3 months	Pull out the cartridge, vacuum the filters or wash them in warm water and let them dry. Replace damaged filters.
Ceramic exchanger	1× per year	Vacuum it or rinse it with warm water and let it dry completely.
Fan	1× per year	Clean the blades with a soft brush.
Outer hood	1× per year	Remove leaves, cobwebs and dirt.
Indoor panel	as needed	Wipe with a damp cloth, without solvents.

7.2 Troubleshooting

PROBLEM	POSSIBLE CAUSE	SOLUTION
Unit does not respond	No power supply.	Check the circuit breaker and connection.
Low airflow	Dirty filters or exchanger.	Clean the filters and exchanger.
	Closed flaps or clogged grille.	Open the flaps, clean the grille.
Cold supply air	The unit is in ventilation mode.	Switch to heat recovery mode.
	Dirty exchanger.	Clean the exchanger.
Units do not work together	Weak Wi-Fi signal or incorrect group setting.	Check Wi-Fi and the Master / Slave setting in the app.
Increased noise	Dirt on the fan, loose cartridge.	Clean the fan, push the cartridge fully in.
Alarm is lit	Unit fault.	Switch off the unit and contact N2N service.

7.3 Storage and transport

- Store in the original packaging in a dry place at a temperature of +5 to +40 °C.
- Protect from impacts and moisture.

08

WARRANTY

N2N provides a 5-year warranty on AERO SOLO units.

8.1 Warranty terms

The product complies with the requirements of the EU directives on electromagnetic compatibility and low voltage and bears the CE mark. The warranty period is **5 years** from the date of sale, provided that the installation, operation and maintenance instructions are followed. Detailed warranty terms are available at n2n.sk.

THE WARRANTY DOES NOT COVER

- routine maintenance and cleaning
- filters as consumables
- damage caused by the user or by incorrect installation
- unprofessional repairs and modifications of the unit

THE WARRANTY IS VOID IN CASE OF

- connection to a voltage other than that stated in the manual
- damage caused by overvoltage or force majeure
- interference with the internal wiring
- missing proof of purchase

NOTE To make a warranty claim, present the unit, the proof of purchase and this manual. Service can be ordered at n2n.sk or via the customer line +421 41 5000 500.

N2N s.r.o.

Slovak HVAC manufacturer

ŽILINA

Kamenná 4

010 01 Žilina

Tel.: +421 41 5000 500

OPENING HOURS

Mon – Fri: 8:00 – 16:00