Heat recovery ventilation unit with counterflow exchanger

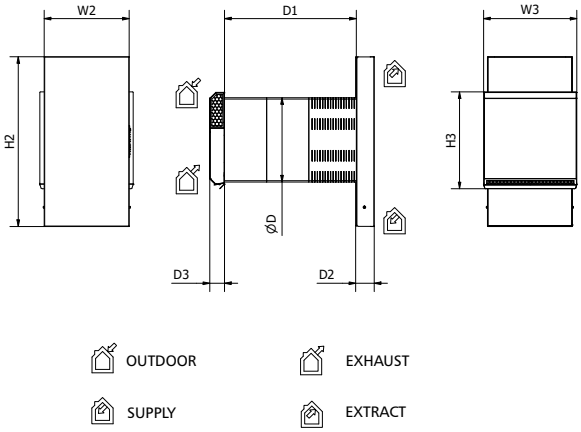
HRU-MaistAIR

works with Loxone



Dimensions

HRU-MaistAIR-70E-P



	ØD [mm]	D1 [mm]	W2 [mm]	H2 [mm]	D2 [mm]	W3 [mm]	H3 [mm]	D3 [mm]
HRU-MaistAIR	315	320-500	322	644	70	354	368	56

Description

HRU-MaistAIR is an advanced decentralized heat recovery unit designed for maximum efficiency and user comfort. The heart of the device is a counterflow enthalpy exchanger. The recuperator ensures a constant air exchange rate of 70m3/h, effectively removing excess CO2 and other pollutants while recovering heat and moisture. HRU-MaistAIR is ideal for small apartments, without the need for extensive ductwork. Built-in filters ensure effective air filtration inside the building and protect the most important components of the recuperator. Filter replacement and full device servicing are carried out from inside the apartment. The body casing made of lightweight and durable EPP plastic ensures durability and excellent insulation. The soundproof casing in the room ensures quiet operation and comfort of use.

The HRU-MaistAIR comes with a round body as standard. Depending on the preferred installation method, the device can be optionally equipped with an additional HRQ-MaistAIR-Q accessory, which changes the body to a square shape. The automatic damper closing system in the event of a power failure prevents uncontrolled inflow of outside air. An intuitive touch panel and remote control via a mobile app ensure full control over the device's operation.

Heat recovery selector

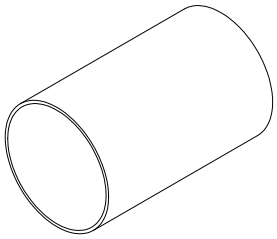
Product code example

Product Code: **HRU-MaistAIR-70E-P-9016-9016**

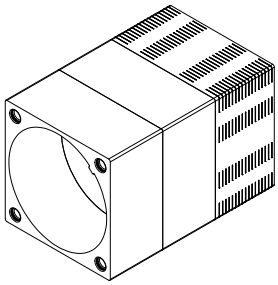
- type
- air flow
- enthalpic heat exchanger
- wired control
- RAL colour of the inner casing
- RAL colour of the outer casing

Complementary accessories

Depending on your preferred installation method, you will need to fit the unit with the additional HRQ-MaistAIR-O accessory for circular installation, or the HRQ-MaistAIR-Q, which converts the housing to a square shape.



Round housing
HRQ-MaistAIR-O



Square housing
HRQ-MaistAIR-Q

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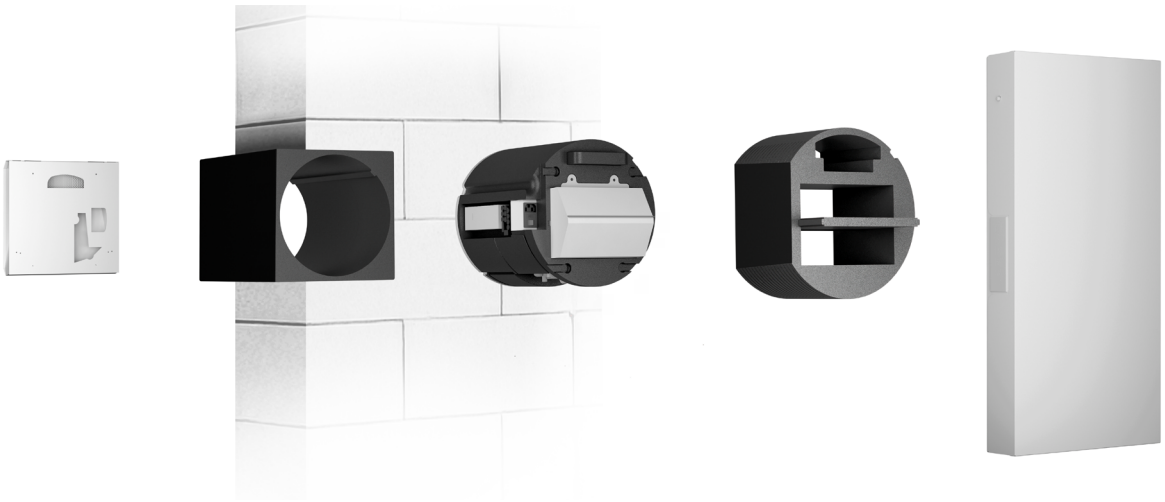
Heat recovery ventilation unit with counterflow exchanger

HRU-MaistAIR

Installation



Installation / Model	MaistAIR-70
Vertical	√



Technical data

	HRU-MaistAIR-70E
Air flow [m³/h] @ 100 Pa	70
Maximal efficiency %	82,5
Efficiency % (acc. 1254/2014)	76
Maximal moisture efficiency %	67,0
Heat exchanger	Enthalpy
Voltage [V/Hz]	230 / 50
Maximum power consumption [W]	34
Sound level LpA [dB (A)], at 50 m³/h[1]	34 / 31
Sound power level L_{WA} [dB (A)]	46
Weight [kg]	15
Filters	ISO Coarse 70% / ISO Coarse 70%
Built-in RH sensor	√

Acoustic data

range / setting [m³/h]	direction	sound level[1] LpA [dB (A)]	
		1 m	3 m
21	housing	21	16
35	housing	29	24
50	housing	34	31
70	housing	41	37

Noise through the enclosure in accordance with ISO 13347-3, below 'background' (whisper).
[1]Sound level at distances of 1 and 3 m above the reflecting surface (point source).

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Heat recovery ventilation unit with counterflow exchanger

HRU-MaistAIR

Filters



Alnor's heat recovery unit code	Filters code	ISO filtration class 16890	Filtration class in accordance with EN 779:2012	Dimensions [mm]
HRU-MaistAIR-70E	HRF-MaistAIR-G4-155-125-20	ISO coarse 70%	G4	155x125x20
HRU-MaistAIR-70E	HRF-MaistAIR-G4-316-60-20	ISO coarse 70%	G4	316x60x20

ISO coarse 70% filters according to ISO 16890 (formerly G4) have a pleated design, which provides a larger filtration area and low pressure drops.

Wired control

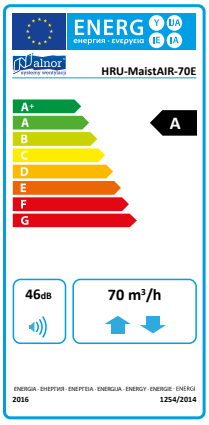


LOXONE
SMART HOME

Heat recovery selector

Energy efficiency class

Model	Sound power level L_{WA} dB(A) [dB]	Air flow rate [m³/h]	Energy efficiency class
			Local demand control
HRU-MaistAIR-70E	46	70	A



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Heat recovery ventilation unit with counterflow exchanger

HRU-MaistAIR

Product fiche HRU-MaistAIR-70E

Commission Regulation (UE) Nr 1253/2014, 1254/2014, Annex IV

Supplier's name or trade mark	ALNOR Ventilation Systems											
Model identifier	HRU-MaistAIR-70E											
Control	Manual control			Clock control			Central demand control			Local demand control		
Control facotr	1			0,95			0,85			0,65		
Climat	Cold	**Average**	Warm	Cold	**Average**	Warm	Cold	**Average**	Warm	Cold	**Average**	Warm
Specific energy consuption (SEC) [kWh/(m2.a)]	-61,64	-28,19	-6,41	-63,63	-29,78	-7,76	-67,43	-32,77	-10,29	-74,30	-38,04	-14,64
SEC class	A+	**B**	F	A+	**B**	F	A+	**B**	E	A+	**A**	E
The annual electricity consumption (AEC) [kWh/a/100m²]	1017	**480**	435	974	**437**	392	896	**359**	314	766	**229**	184
The annual heating saved (AHS) [kWh/a/100m²]	7941	**4060**	1836	8024	**4102**	1855	8188	**4186**	1893	8517	**4354**	1969
Declared typology	Bidirectional											
Type of drive	Variable											
Type of heat recovery system	Recuperative											
Thermal efficiency[1]	76,0%											
Maximum flow rate [m³/h][2]	70											
Maxium electric power input [W]	34											
Sound power LWA [dB(A)]	46											
Reference flow rate [m³/s][3]	0,014											
Reference pressure difference [Pa][4]	0											
SPI [W/m³/h][5]	0,35											
Declared maxiumum leakages[6]	External: 3,00% Internal: 3,00%											
Position and description of visual filter warning	Visual on status LED light on unit and on status LED light on controller											
Internet address	www.ventilation-alnor.co.uk											

[1] According to EN 13141-8:2023
[2] According to EN 13141-8:2023 at pressure diference 100Pa
[3] According to EN 13141-8:2023 at 70% of maximum flow at static pressure diference 50Pa
[4] According to EN 13141-8:2023
[5] According to EN 13141-8:2023 at reference point - 70% of maxiumum air flow
[6] According to EN 13141-8:2023

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