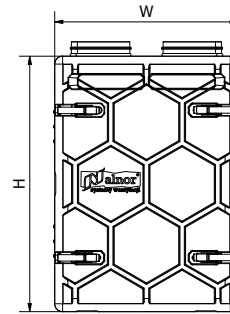


Heat recovery ventilation unit with counterflow exchanger **HRU-MinistAIR**



works with Loxone

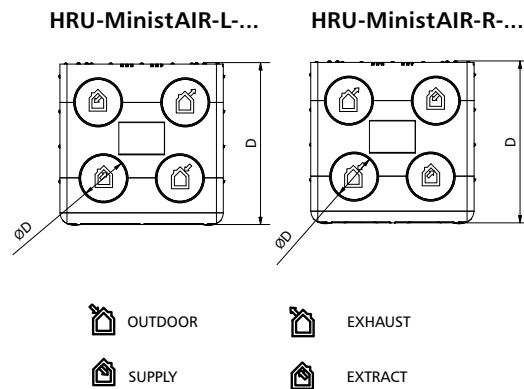
Dimensions



Description

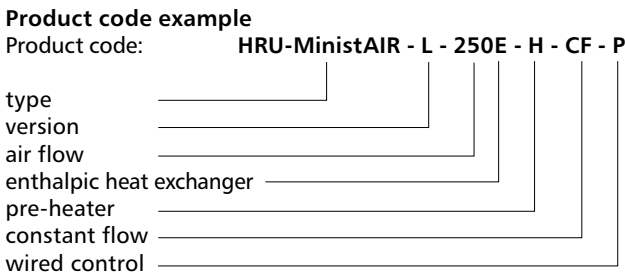
HRU-MinistAIR residential heat recovery units are a new version of a well recognized model, based on a completely new design. Airflows of 250, 325 or 350 m³/h and self-supporting casing made of EPP, acting as thermal and acoustic insulation at the same time. Counter-flow heat exchangers, made of PET, are responsible for heat recovery and enthalpic exchangers (E) recover moisture. In addition, the built-in RH sensor will take care of moisture level in the building. Left and Right version, together with horizontal installation, will allow you to adapt the unit to almost each project. Moreover, 56 cm width will allow installation in narrow spaces or wardrobes.

HRU-MinistAIR units can be equipped with a Constant Flow (CF) module. Wireless communication is used, likewise other series, both for controllers and IAQ sensors. Control is possible also via a mobile application. The electric pre-heater will provide an additional frost protection for the heat exchanger.



| | ØD [mm] | W [mm] | H [mm] | D [mm] |
|---------------|---------|--------|--------|--------|
| MinistAIR-250 | 160 | 560 | 780 | 550 |
| MinistAIR-325 | 160 | 560 | 780 | 550 |
| MinistAIR-350 | 160 | 560 | 780 | 550 |

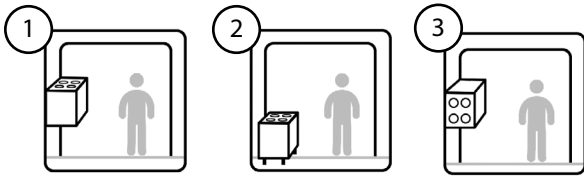
Heat recovery selector



Heat recovery ventilation unit with counterflow exchanger

HRU-MinistAIR

Installation



| Installation / Model | HRU-MinistAIR-250-H | HRU-MinistAIR-325-H | HRU-MinistAIR-350-H |
|----------------------|---------------------|---------------------|---------------------|
| Vertical | ✓ | ✓ | ✓ |
| Horizontal | ✓ | ✓ | ✓ |

Technical data

| | HRU-MinistAIR-250-H | HRU-MinistAIR-250E-H | HRU-MinistAIR-325-H | HRU-MinistAIR-325E-H | HRU-MinistAIR-350-H | HRU-MinistAIR-350E-H |
|---------------------------------------------------------------------------------------|---------------------------------|----------------------|---------------------|----------------------|---------------------|----------------------|
| Air flow [m ³ /h] @ 100 Pa | 250 | 250 | 325 | 325 | 350 | 350 |
| Maximal efficiency % ¹ | 96,0 | 92,0 | 95,5 | 88,0 | 93,7 | 87,3 |
| Efficiency % (acc. 1254/2014) ² Efficiency % (acc. 1254/2014) ² | 91 | 82,4 | 91,4 | 80,1 | 88,1 | 79,7 |
| Maximal moisture efficiency % | - | 77,8 | - | 74,8 | - | 74 |
| Heat exchanger | counterflow PET | enthalpy | counterflow PET | enthalpy | counterflow PET | enthalpy |
| Voltage [V/Hz] | 230 / 50 | 230 / 50 | 230 / 50 | 230 / 50 | 230 / 50 | 230 / 50 |
| Maximum power consumption [W] | 106 | 94 | 160 | 160 | 177 | 177 |
| Sound power level L _{WA} [dB (A)] | 48 | 48 | 49 | 49 | 53 | 53 |
| Weight [kg] | 25 | 25 | 25 | 25 | 25 | 25 |
| Filters | ISO Coarse 70% / ISO Coarse 70% | | | | | |
| Built-in pre-heater | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Pre-heater | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
| Built-in RH sensor | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

¹ Maximal thermal efficiency acc. to EN13141-7 at minimum air flow

² Recovery efficiency at the reference point, that is, about 70% of the maximum flow according to EN 13141-7, according to EU 1253/2014 and EU 1254/2014

Heat recovery ventilation unit with counterflow exchanger

HRU-MinistAIR

Wireless control



HRQ-SW3-I 

HRQ-BUT-LM11 

HRQ-BUT-LM04 

HRQ-BUT-LCD 

HRQ-MODBUS  

 works with Loxone

HRQ-SENS-CO2 

HRQ-SENS-I-CO2 

HRQ-SENS-RH 


HRQ-SENS-PIR 



HRQ-GATE 



HRQ-2ZONE 




Wired control





HRQ-BUT-PG15  


HRQ-BUT-LCD-P5  


HRQ-SENS-CO2RH-P









 works with Loxone

LOXONE
SMART HOME

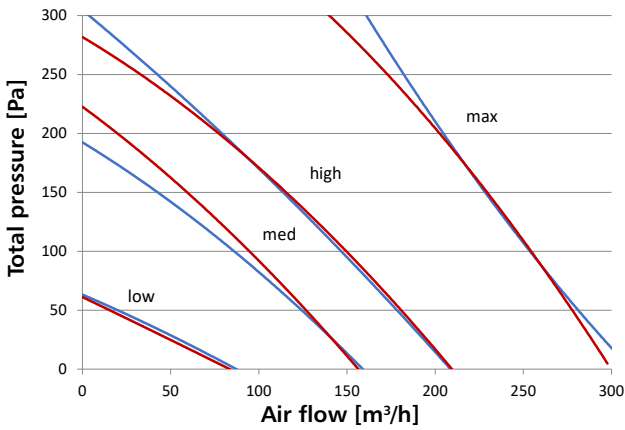
Heat recovery selector 

Heat recovery ventilation unit with counterflow exchanger

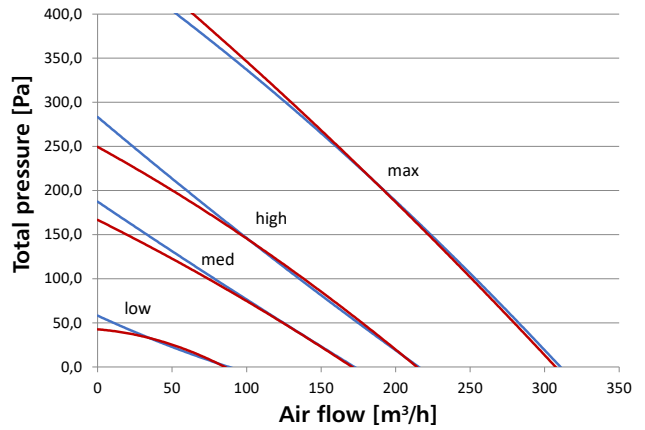
HRU-MinistAIR

Air flow and efficiency

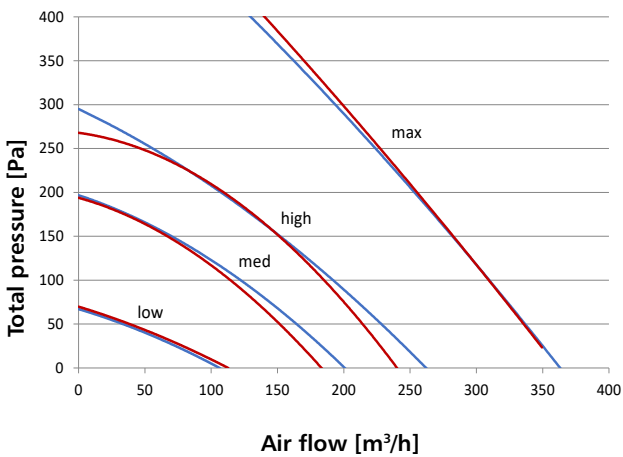
HRU-MinistAIR-250-H — SUPPLY — EXHAUST



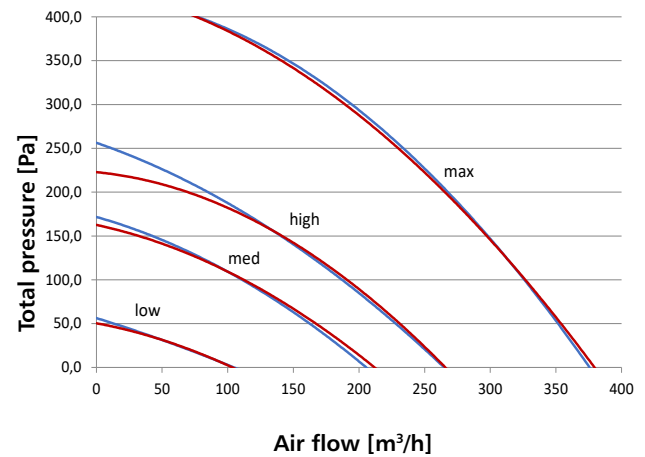
HRU-MinistAIR-250E-H — SUPPLY — EXHAUST



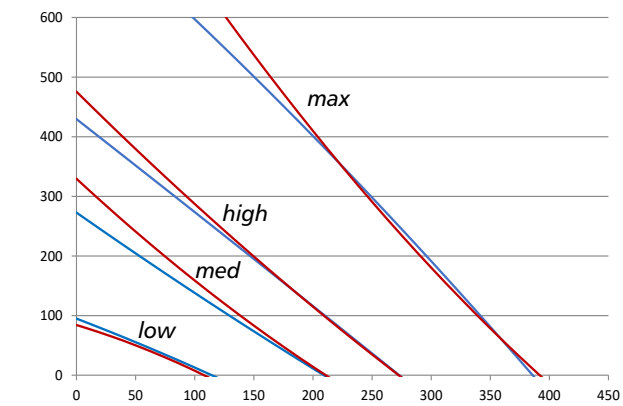
HRU-MinistAIR-325-H — SUPPLY — EXHAUST



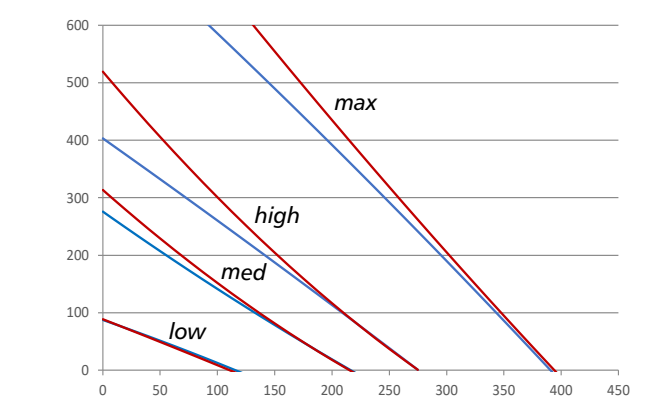
HRU-MinistAIR-325E-H — SUPPLY — EXHAUST



HRU-MinistAIR-350-H — —



HRU-MinistAIR-350E-H — —



Heat recovery ventilation unit with counterflow exchanger

HRU-MinistAIR

Filtres



| Alnor's heat recovery unit code | Filters code | ISO filtration class 16890 | Filtration class in accordance with EN 779:2012 | Dimensions [mm] |
|---------------------------------|-----------------------------|----------------------------|-------------------------------------------------|-----------------|
| HRU-MinistAIR-250/325/350 | HRF-MinistAIR-G4-280-182-23 | ISO coarse 70% | G4 | 280x182x23 |
| HRU-MinistAIR-250/325/350 | HRF-MinistAIR-F7-280-182-23 | ISO ePM1 55% | F7 | 280x182x23 |

HRQ-MinistAIR-FILT-C70 (standard)
HRQ-MinistAIR-MinistAIR-FILTFePM155 (option)

ISO coarse 70% filters according to ISO 16890 (former G4) and ISO ePM1 55% according to ISO 16890 (former F7) standard with pleated design, resulting in greater filtration area and low pressure drops.

Additional devices



The HRQ-REPEATER signal booster is used to increase the communication range between the air handling unit and wireless controllers and sensors.

Cooperation with the kitchen hood

The cooker hood can be connected to the MVHR system via the X25 contact on the main board of the MinistAIR heat recovery units. It is a potential-free contact. Short-circuits of contact inputs will result in an exhaust fan stopping completely during the period the contact is closed.

Constant Flow (CF)

MinistAIR air handling units optionally can be equipped with the Constant Flow system, whose task is to maintain a constant air flow in the installation. CF works by reading the difference between the dynamic pressure around the fan and the static pressure in the duct in front of the fan. The CF system constantly monitors the pressure in the ducts and if the resistance increases, it increases the speed of the fans to maintain a constant flow, such as on the first day when the ventilation unit was commissioned. During exploitation, the installation pressure is naturally disrupted (dirty filters, condensation of water in the heat exchanger, temperature difference changing the air mass). CF counteracts to those changes, thanks to which the airflows remain sustainable, and only a sustainable system takes full advantage of the air handling unit's capabilities.

Connecting the ground heat exchanger

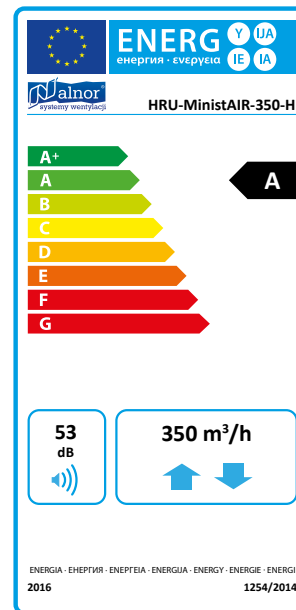
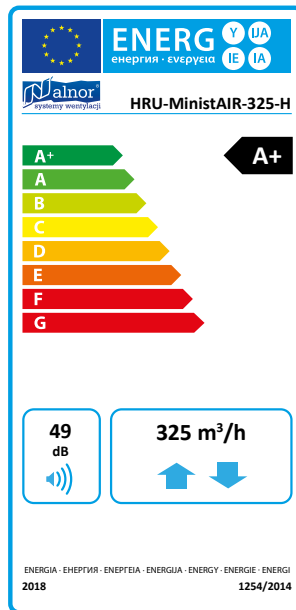
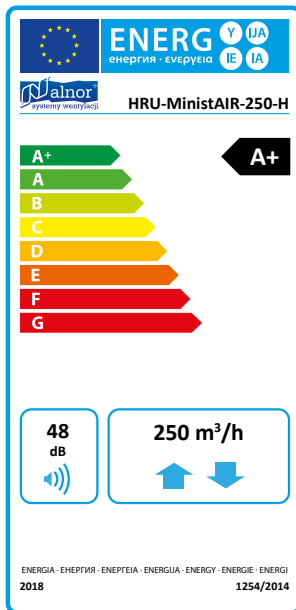
Heat recovery unit has a possibility to connect the ground heat exchanger. This function allows you to control a valve that optionally supply air through the ground-to-air heating system. To do this, install a dedicated damper with the actuator (DATVTML).

Heat recovery ventilation unit with counterflow exchanger

HRU-MinistAIR

Energy class

| Model | Sound power level L_{WA} dB(A)* [dB] | Air flow rate [m ³ /h] | Energy class | | | |
|-------------------------|----------------------------------------------|--------------------------------------|----------------|---------------|-----------------------------------|----------------------------------|
| | | | Manual control | Clock control | Central demand control (1 sensor) | Local demand control (2 sensors) |
| HRU-MinistAIR-250-H | 48 | 250 | A | A | A | A+ |
| HRU-MinistAIR-250-H-CF | 48 | 250 | A | A | A | A+ |
| HRU-MinistAIR-250E-H | 48 | 250 | A | A | A | A |
| HRU-MinistAIR-250E-H-CF | 48 | 250 | A | A | A | A |
| HRU-MinistAIR-325-H | 49 | 325 | A | A | A | A+ |
| HRU-MinistAIR-325-H-CF | 49 | 325 | A | A | A | A+ |
| HRU-MinistAIR-325E-H | 49 | 325 | A | A | A | A |
| HRU-MinistAIR-325E-H-CF | 49 | 325 | A | A | A | A |
| HRU-MinistAIR-350-H | 53 | 350 | A | A | A | A+ |
| HRU-MinistAIR-350-H-CF | 53 | 350 | A | A | A | A+ |
| HRU-MinistAIR-350E-H | 53 | 350 | B | A | A | A |
| HRU-MinistAIR-350E-H-CF | 53 | 350 | B | A | A | A |



Heat recovery ventilation unit with counterflow exchanger

HRU-MinistAIR

Product fiche HRU-MinistAIR-250

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

| | | | | | | | | | | | | |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------|---------------|---------------|--------|------------------------|---------------|--------|----------------------|---------------|--------|
| Supplier's name or trade mark | ALNOR Ventilation Systems | | | | | | | | | | | |
| Model identifier | HRU-MinistAIR-L-250-H, HRU-MinistAIR-LS-250-H HRU-MinistAIR-R-250-H, HRU-MinistAIR-RS-250-H HRU-MinistAIR-L-250-H-CF, HRU-MinistAIR-LS-250-H-CF HRU-MinistAIR-R-250-H-CF, HRU-MinistAIR-RS-250-H-CF | | | | | | | | | | | |
| 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 consumption (SEC) [kWh/(m ² .a)] | -76,38 | -37,63 | -12,81 | -77,45 | -38,56 | -13,66 | -79,46 | -40,30 | -15,24 | -83,00 | -43,29 | -17,91 |
| SEC class | A+ | A | E | A+ | A | E | A+ | A | E | A+ | A+ | E |
| The annual electricity consumption (AEC) [kWh/a/100m ²] | 904 | 367 | 322 | 873 | 336 | 291 | 815 | 278 | 233 | 718 | 181 | 136 |
| The annual heating saved (AHS) [kWh/a/100m ²] | 9026 | 4614 | 2086 | 9054 | 4628 | 2093 | 9110 | 4657 | 2106 | 9222 | 4714 | 2132 |
| Declared typology | Bidirectional | | | | | | | | | | | |
| Type of drive | Variable | | | | | | | | | | | |
| Type of heat recovery system | Recuperative | | | | | | | | | | | |
| Thermal efficiency ¹ | 91% | | | | | | | | | | | |
| Maximum flow rate [m ³ /h] ² | 250 | | | | | | | | | | | |
| Maxium electric power input [W] | 106 | | | | | | | | | | | |
| Sound power LWA [dB(A)] | 48 | | | | | | | | | | | |
| Reference flow rate [m ³ /s] ³ | 0,049 | | | | | | | | | | | |
| Reference pressure difference [Pa] ⁴ | 50 | | | | | | | | | | | |
| SPI [W/m ³ /h] ⁵ | 0,26 | | | | | | | | | | | |
| Declared maximum leakages ⁶ | External: 1,3% Internal: 2,98% | | | | | | | | | | | |
| 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 13141-7:2021+A1:2025

² According to EN 13141-7:2021+A1:2025 at pressure difference 100Pa

³ According to EN 13141-7:2021+A1:2025 at 70% of maximum flow at static pressure difference 50Pa

⁴ According to EN 13141-7:2021+A1:2025

⁵ According to EN 13141-7:2021+A1:2025 at reference point - 70% of maximum air flow

⁶ According to EN 13141-7:2021+A1:2025

Heat recovery ventilation unit with counterflow exchanger

HRU-MinistAIR

Product fiche HRU-MinistAIR-250E

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

| | | | | | | | | | | | | |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------|---------------|---------|--------|------------------------|---------|--------|----------------------|---------|--------|
| Supplier's name or trade mark | ALNOR Ventilation Systems | | | | | | | | | | | |
| Model identifier | HRU-MinistAIR-L-250E-H, HRU-MinistAIR-LS-250E-H HRU-MinistAIR-R-250E-H, HRU-MinistAIR-RS-250E-H HRU-MinistAIR-L-250E-H-CF, HRU-MinistAIR-LS-250E-H-CF HRU-MinistAIR-R-250E-H-CF, HRU-MinistAIR-RS-250E-H-CF | | | | | | | | | | | |
| Control | Manual control | | | Clock control | | | Central demand control | | | Local demand control | | |
| Control factor | 1 | | | 0,95 | | | 0,85 | | | 0,65 | | |
| Climat | Cold | Average | Warm | Cold | Average | Warm | Cold | Average | Warm | Cold | Average | Warm |
| Specific energy consumption (SEC) [kWh/(m ² .a)] | -71,38 | -35,25 | -11,93 | -72,68 | -36,28 | -12,81 | -75,16 | -38,23 | -14,44 | -79,67 | -41,66 | -17,26 |
| SEC class | A+ | A | E | A+ | A | E | A+ | A | E | A+ | A | E |
| The annual electricity consumption (AEC) [kWh/a/100m ²] | 890 | 353 | 308 | 860 | 323 | 278 | 804 | 267 | 222 | 712 | 175 | 130 |
| The annual heating saved (AHS) [kWh/a/100m ²] | 8490 | 4340 | 1962 | 8545 | 4368 | 1975 | 8654 | 4424 | 2000 | 8874 | 4536 | 2051 |
| Declared typology | Bidirectional | | | | | | | | | | | |
| Type of drive | Variable | | | | | | | | | | | |
| Type of heat recovery system | Recuperative | | | | | | | | | | | |
| Thermal efficiency ¹ | 82,4% | | | | | | | | | | | |
| Maximum flow rate [m ³ /h] ² | 250 | | | | | | | | | | | |
| Maximum electric power input [W] | 94 | | | | | | | | | | | |
| Sound power LWA [dB(A)] | 48 | | | | | | | | | | | |
| Reference flow rate [m ³ /s] ³ | 0,049 | | | | | | | | | | | |
| Reference pressure difference [Pa] ⁴ | 50 | | | | | | | | | | | |
| SPI [W/m ³ /h] ⁵ | 0,25 | | | | | | | | | | | |
| Declared maximum leakages ⁶ | External: 1,30% Internal: 2,80% | | | | | | | | | | | |
| 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 13141-7:2021+A1:2025

² According to EN 13141-7:2021+A1:2025 at pressure difference 100Pa

³ According to EN 13141-7:2021+A1:2025 at 70% of maximum flow at static pressure difference 50Pa

⁴ According to EN 13141-7:2021+A1:2025

⁵ According to EN 13141-7:2021+A1:2025 at reference point - 70% of maximum air flow

⁶ According to EN 13141-7:2021+A1:2025

Heat recovery ventilation unit with counterflow exchanger

HRU-MinistAIR

Product fiche HRU-MinistAIR-325

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

| | | | | | | | | | | | | |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------|---------------|---------------|--------|------------------------|---------------|--------|----------------------|---------------|--------|
| Supplier's name or trade mark | ALNOR Ventilation Systems | | | | | | | | | | | |
| Model identifier | HRU-MinistAIR-L-325-H, HRU-MinistAIR-LS-325-H HRU-MinistAIR-R-325-H, HRU-MinistAIR-RS-325-H HRU-MinistAIR-L-325-H-CF, HRU-MinistAIR-LS-325-H-CF HRU-MinistAIR-R-325-H-CF, HRU-MinistAIR-RS-325-H-CF | | | | | | | | | | | |
| Control | Manual control | | | Clock control | | | Central demand control | | | Local demand control | | |
| Control factor | 1 | | | 0,95 | | | 0,85 | | | 0,65 | | |
| Climat | Cold | Average | Warm | Cold | Average | Warm | Cold | Average | Warm | Cold | Average | Warm |
| Specific energy consumption (SEC) [kWh/(m ² .a)] | -75,48 | -36,61 | -11,72 | -76,65 | -37,65 | -12,68 | -78,84 | -39,58 | -14,44 | -82,67 | -42,89 | -17,47 |
| SEC class | A+ | A | E | A+ | A | E | A+ | A | E | A+ | A+ | E |
| The annual electricity consumption (AEC) [kWh/a/100m ²] | 950 | 413 | 368 | 914 | 377 | 332 | 848 | 312 | 266 | 738 | 201 | 156 |
| The annual heating saved (AHS) [kWh/a/100m ²] | 9051 | 4626 | 2092 | 9077 | 4640 | 2098 | 9131 | 4668 | 2111 | 9238 | 4722 | 2135 |
| Declared typology | Bidirectional | | | | | | | | | | | |
| Type of drive | Variable | | | | | | | | | | | |
| Type of heat recovery system | Recuperative | | | | | | | | | | | |
| Thermal efficiency ¹ | 91,4% | | | | | | | | | | | |
| Maximum flow rate [m ³ /h] ² | 325 | | | | | | | | | | | |
| Maximum electric power input [W] | 160 | | | | | | | | | | | |
| Sound power LWA [dB(A)] | 49 | | | | | | | | | | | |
| Reference flow rate [m ³ /s] ³ | 0,064 | | | | | | | | | | | |
| Reference pressure difference [Pa] ⁴ | 50 | | | | | | | | | | | |
| SPI [W/m ³ /h] ⁵ | 0,29 | | | | | | | | | | | |
| Declared maximum leakages ⁶ | External: 0,9% Internal: 2,9% | | | | | | | | | | | |
| 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 13141-7:2021+A1:2025

² According to EN 13141-7:2021+A1:2025 at pressure difference 100Pa

³ According to EN 13141-7:2021+A1:2025 at 70% of maximum flow at static pressure difference 50Pa

⁴ According to EN 13141-7:2021+A1:2025

⁵ According to EN 13141-7:2021+A1:2025 at reference point - 70% of maximum air flow

⁶ According to EN 13141-7:2021+A1:2025

Heat recovery ventilation unit with counterflow exchanger

HRU-MinistAIR

Product fiche HRU-MinistAIR-325E

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

| | | | | | | | | | | | | |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------|---------------|---------------|--------|------------------------|---------------|--------|----------------------|---------------|--------|
| Supplier's name or trade mark | ALNOR Ventilation Systems | | | | | | | | | | | |
| Model identifier | HRU-MinistAIR-L-325E-H, HRU-MinistAIR-LS-325E-H HRU-MinistAIR-R-325E-H, HRU-MinistAIR-RS-325E-H HRU-MinistAIR-L-325E-H-CF, HRU-MinistAIR-LS-325E-H-CF HRU-MinistAIR-R-325E-H-CF, HRU-MinistAIR-RS-325E-H-CF | | | | | | | | | | | |
| Control | Manual control | | | Clock control | | | Central demand control | | | Local demand control | | |
| Control factor | 1 | | | 0,95 | | | 0,85 | | | 0,65 | | |
| Climat | Cold | Average | Warm | Cold | Average | Warm | Cold | Average | Warm | Cold | Average | Warm |
| Specific energy consumption (SEC) [kWh/(m ² .a)] | -69,27 | -33,84 | -10,91 | -70,70 | -34,97 | -11,87 | -73,45 | -37,11 | -13,67 | -78,44 | -40,89 | -16,74 |
| SEC class | A+ | B | E | A+ | A | E | A+ | A | E | A+ | A | E |
| The annual electricity consumption (AEC) [kWh/a/100m ²] | 917 | 380 | 335 | 884 | 347 | 302 | 824 | 288 | 242 | 724 | 187 | 142 |
| The annual heating saved (AHS) [kWh/a/100m ²] | 8347 | 4267 | 1929 | 8409 | 4298 | 1944 | 8533 | 4362 | 1972 | 8781 | 4488 | 2030 |
| Declared typology | Bidirectional | | | | | | | | | | | |
| Type of drive | Variable | | | | | | | | | | | |
| Type of heat recovery system | Recuperative | | | | | | | | | | | |
| Thermal efficiency ¹ | 80,1% | | | | | | | | | | | |
| Maximum flow rate [m ³ /h] ² | 325 | | | | | | | | | | | |
| Maximum electric power input [W] | 160 | | | | | | | | | | | |
| Sound power LWA [dB(A)] | 49 | | | | | | | | | | | |
| Reference flow rate [m ³ /s] ³ | 0,064 | | | | | | | | | | | |
| Reference pressure difference [Pa] ⁴ | 50 | | | | | | | | | | | |
| SPI [W/m ³ /h] ⁵ | 0,27 | | | | | | | | | | | |
| Declared maximum leakages ⁶ | External: 0,9% Internal: 2,2% | | | | | | | | | | | |
| 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 13141-7:2021+A1:2025

² According to EN 13141-7:2021+A1:2025 at pressure difference 100Pa

³ According to EN 13141-7:2021+A1:2025 at 70% of maximum flow at static pressure difference 50Pa

⁴ According to EN 13141-7:2021+A1:2025

⁵ According to EN 13141-7:2021+A1:2025 at reference point - 70% of maximum air flow

⁶ According to EN 13141-7:2021+A1:2025

Heat recovery ventilation unit with counterflow exchanger

HRU-MinistAIR

Product fiche HRU-MinistAIR-350

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

| | | | | | | | | | | | | |
|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------|---------------|---------------|--------|------------------------|---------------|--------|----------------------|---------------|--------|
| Supplier's name or trade mark | ALNOR Ventilation Systems | | | | | | | | | | | |
| Model identifier | HRU-MinistAIR-L-350-H, HRU-MinistAIR-LS-350-H HRU-MinistAIR-R-350-H, HRU-MinistAIR-RS-350-H HRU-MinistAIR-L-350-H-CF, HRU-MinistAIR-LS-350-H-CF HRU-MinistAIR-R-350-H-CF, HRU-MinistAIR-RS-350-H-CF | | | | | | | | | | | |
| Control | Manual control | | | Clock control | | | Central demand control | | | Local demand control | | |
| Control factor | 1 | | | 0,95 | | | 0,85 | | | 0,65 | | |
| Climat | Cold | Average | Warm | Cold | Average | Warm | Cold | Average | Warm | Cold | Average | Warm |
| Specific energy consumption (SEC) [kWh/(m ² .a)] | -73,73 | -35,87 | -11,55 | -74,97 | -36,92 | -12,50 | -77,31 | -38,90 | -14,27 | -81,47 | -42,33 | -17,29 |
| SEC class | A+ | A | E | A+ | A | E | A+ | A | E | A+ | A+ | E |
| The annual electricity consumption (AEC) [kWh/a/100m ²] | 938 | 401 | 356 | 903 | 366 | 321 | 839 | 302 | 257 | 732 | 195 | 150 |
| The annual heating saved (AHS) [kWh/a/100m ²] | 8845 | 4521 | 2045 | 8882 | 4540 | 2053 | 8956 | 4578 | 2070 | 9105 | 4654 | 2104 |
| Declared typology | Bidirectional | | | | | | | | | | | |
| Type of drive | Variable | | | | | | | | | | | |
| Type of heat recovery system | Recuperative | | | | | | | | | | | |
| Thermal efficiency ¹ | 88,1% | | | | | | | | | | | |
| Maximum flow rate [m ³ /h] ² | 350 | | | | | | | | | | | |
| Maximum electric power input [W] | 177 | | | | | | | | | | | |
| Sound power LWA [dB(A)] | 53 | | | | | | | | | | | |
| Reference flow rate [m ³ /s] ³ | 0,068 | | | | | | | | | | | |
| Reference pressure difference [Pa] ⁴ | 50 | | | | | | | | | | | |
| SPI [W/m ³ /h] ⁵ | 0,28 | | | | | | | | | | | |
| Declared maximum leakages ⁶ | External: 0,84% Internal: 2,90% | | | | | | | | | | | |
| 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 13141-7:2021+A1:2025

² According to EN 13141-7:2021+A1:2025 at pressure difference 100Pa

³ According to EN 13141-7:2021+A1:2025 at 70% of maximum flow at static pressure difference 50Pa

⁴ According to EN 13141-7:2021+A1:2025

⁵ According to EN 13141-7:2021+A1:2025 at reference point - 70% of maximum air flow

⁶ According to EN 13141-7:2021+A1:2025

Heat recovery ventilation unit with counterflow exchanger

HRU-MinistAIR

Product fiche HRU-MinistAIR-350E

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

| | | | | | | | | | | | | |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|--------|---------------|---------------|--------|------------------------|---------------|--------|----------------------|---------------|--------|
| Supplier's name or trade mark | ALNOR Ventilation Systems | | | | | | | | | | | |
| Model identifier | HRU-MinistAIR-L-350E-H, HRU-MinistAIR-LS-350E-H HRU-MinistAIR-R-350E-H, HRU-MinistAIR-RS-350E-H HRU-MinistAIR-L-350E-H-CF, HRU-MinistAIR-LS-350E-H-CF HRU-MinistAIR-R-350E-H-CF, HRU-MinistAIR-RS-350E-H-CF | | | | | | | | | | | |
| Control | Manual control | | | Clock control | | | Central demand control | | | Local demand control | | |
| Control factor | 1 | | | 0,95 | | | 0,85 | | | 0,65 | | |
| Climat | Cold | Average | Warm | Cold | Average | Warm | Cold | Average | Warm | Cold | Average | Warm |
| Specific energy consumption (SEC) [kWh/(m ² .a)] | -68,81 | -33,50 | -10,65 | -70,28 | -34,66 | -11,63 | -73,09 | -36,85 | -13,47 | -78,19 | -40,72 | -16,63 |
| SEC class | A+ | B | E | A+ | A | E | A+ | A | E | A+ | A | E |
| The annual electricity consumption (AEC) [kWh/a/100m ²] | 926 | 389 | 344 | 892 | 355 | 310 | 830 | 293 | 248 | 727 | 190 | 145 |
| The annual heating saved (AHS) [kWh/a/100m ²] | 8322 | 4254 | 1924 | 8385 | 4286 | 1938 | 8511 | 4351 | 1967 | 8764 | 4480 | 2026 |
| Declared typology | Bidirectional | | | | | | | | | | | |
| Type of drive | Variable | | | | | | | | | | | |
| Type of heat recovery system | Recuperative | | | | | | | | | | | |
| Thermal efficiency ¹ | 79,7% | | | | | | | | | | | |
| Maximum flow rate [m ³ /h] ² | 350 | | | | | | | | | | | |
| Maximum electric power input [W] | 177 | | | | | | | | | | | |
| Sound power LWA [dB(A)] | 53 | | | | | | | | | | | |
| Reference flow rate [m ³ /s] ³ | 0,068 | | | | | | | | | | | |
| Reference pressure difference [Pa] ⁴ | 50 | | | | | | | | | | | |
| SPI [W/m ³ /h] ⁵ | 0,27 | | | | | | | | | | | |
| Declared maximum leakages ⁶ | External: 0,84% Internal: 2,05% | | | | | | | | | | | |
| 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 13141-7:2021+A1:2025

² According to EN 13141-7:2021+A1:2025 at pressure difference 100Pa

³ According to EN 13141-7:2021+A1:2025 at 70% of maximum flow at static pressure difference 50Pa

⁴ According to EN 13141-7:2021+A1:2025

⁵ According to EN 13141-7:2021+A1:2025 at reference point - 70% of maximum air flow

⁶ According to EN 13141-7:2021+A1:2025