



indoor air quality and energy saving

TECHNICAL DATA



FAI-ED H/V



VENTILATION UNIT WITH HEAT RECOVERY FOR COMMERCIAL AND INDUSTRIAL BUILDINGS



FAI-ED

Is a Non Residential Ventilation Unit (NRVU)

EQUIPPED

Equipped with medium efficiency counterflow heat exchanger (Eurovent certified) and centrifugal forward blades multi speed fans.

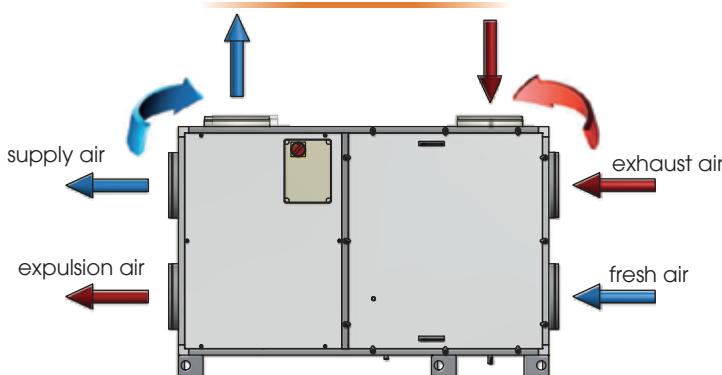
STRUCTURE

The FAI-ED is made of extruded aluminium profiles and double skin Aluzinc® panels, sandwiched on injected polyurethane foam insulation, thickness 25 mm and density 42 Kg/m³. The position of the ducting connections, made with circular spigots, are easily configurable simply by moving the ducting connection panels. Five sizes are available in horizontal configuration, ceiling installation (only for size 1 and 2) and floor installation, or vertical configuration (floor installation), all equipped with automatic total bypass and medium efficiency heat exchanger. Post heating devices (electric or water) and electrical pre heater device are integrated into the unit, post cooling/heating water coil and direct expansion coil, are available as additional external module. The filtering sections are: ePM1 70% (F7) filters for the fresh air flow and ePM10 50% (M5) filters for the extraction air flow.

CONTROLS

The FAI-ED is supplied with control system and easy connection to the power supply. It's also available the versions with simplified CTR08-PH control, the version with EVO-PH control and the version with EVOD-PH-IP control ready for integration in home automation systems (Modbus protocol with Ethernet connection or, upon request , with the addition of the RS485 connection). The new version of our control systems allows the user to shift from one control system to another very quickly and easily by replacing the remote panel even after the installation. The CTR08-PH control allows the user to select three levels of fan speed or the possibility to stop them. It automatically manages the By-pass and prevents the heat exchanger freezing by programming the fan speed or, if specifically required, the electric pre-heater resistance (optional item to install inside the unit).The control advises the user if filters needs to be replaced (the filter clogging is monitored by a pair of differential pressure sensors) or any other fault.

FAI-ED V (vertical) - SIDE VIEW



The EVO-PH control has a colored backlit touch screen interface, it gives an intuitive operating status of the unit and it allows programming the fan speed. This control has a weekly time schedule for automatic unit control, it can be controlled by an external switch to activate the booster and it can automatically adjust the air flow when connected to an air quality sensor. It supports post-air treatment accessories and it advises the user if filters needs to be replaced (the filter clogging is monitored by a pair of differential pressure sensors) or if there is any other fault showing where it comes from.

The EVOD-PH-IP control has the same characteristics of the EVO-PH version with the addition of the Modbus communication protocol and it allows full control of the unit by the Home Automation software system. If the unit is in a Home Automation network, the webserver lets the user interact with it throughout a device connected to an Internet browser.

On request it's also available the version without control system and without electrical cabinet (adjustable pressure switches for filter status and bypass actuator are installed)

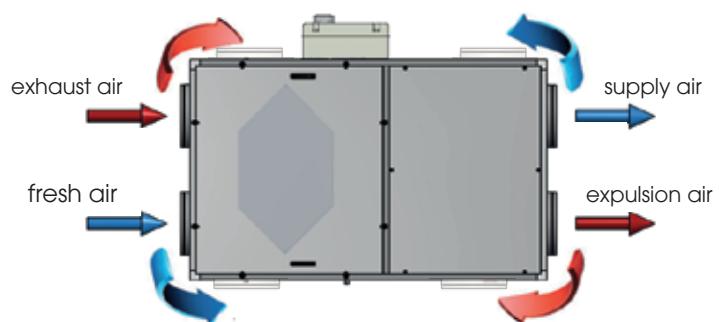
ACCESSORIES

FAI-ED can be equipped with other accessories such as:

- . R.H. of probe, CO₂ or CO₂ / VOC
- . protection roof for outside instalalzione
- . switch speed

For a more complete view of the characteristics of the control panels, please read the specific manuals.

FAI-ED H (horizontal) - TOP VIEW

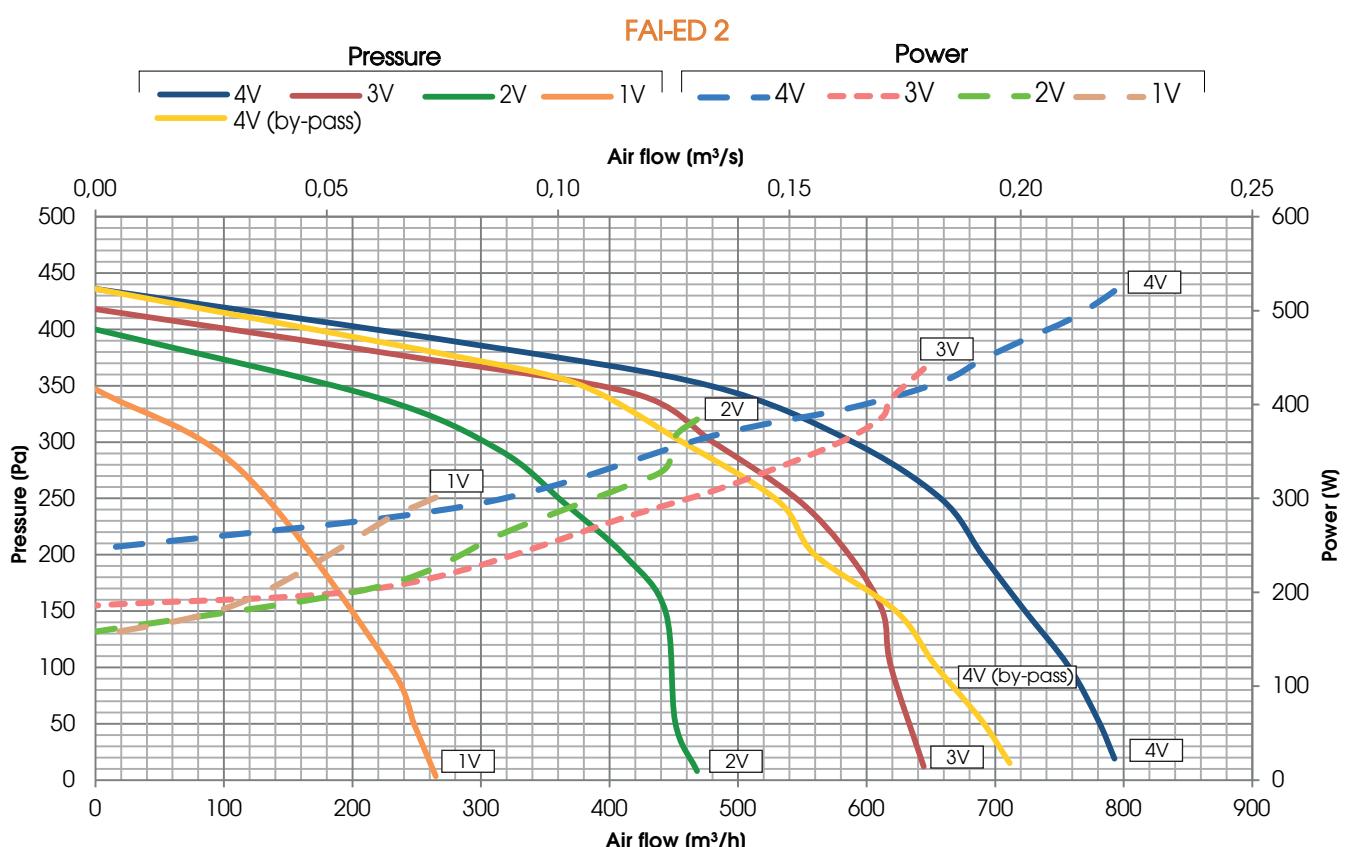
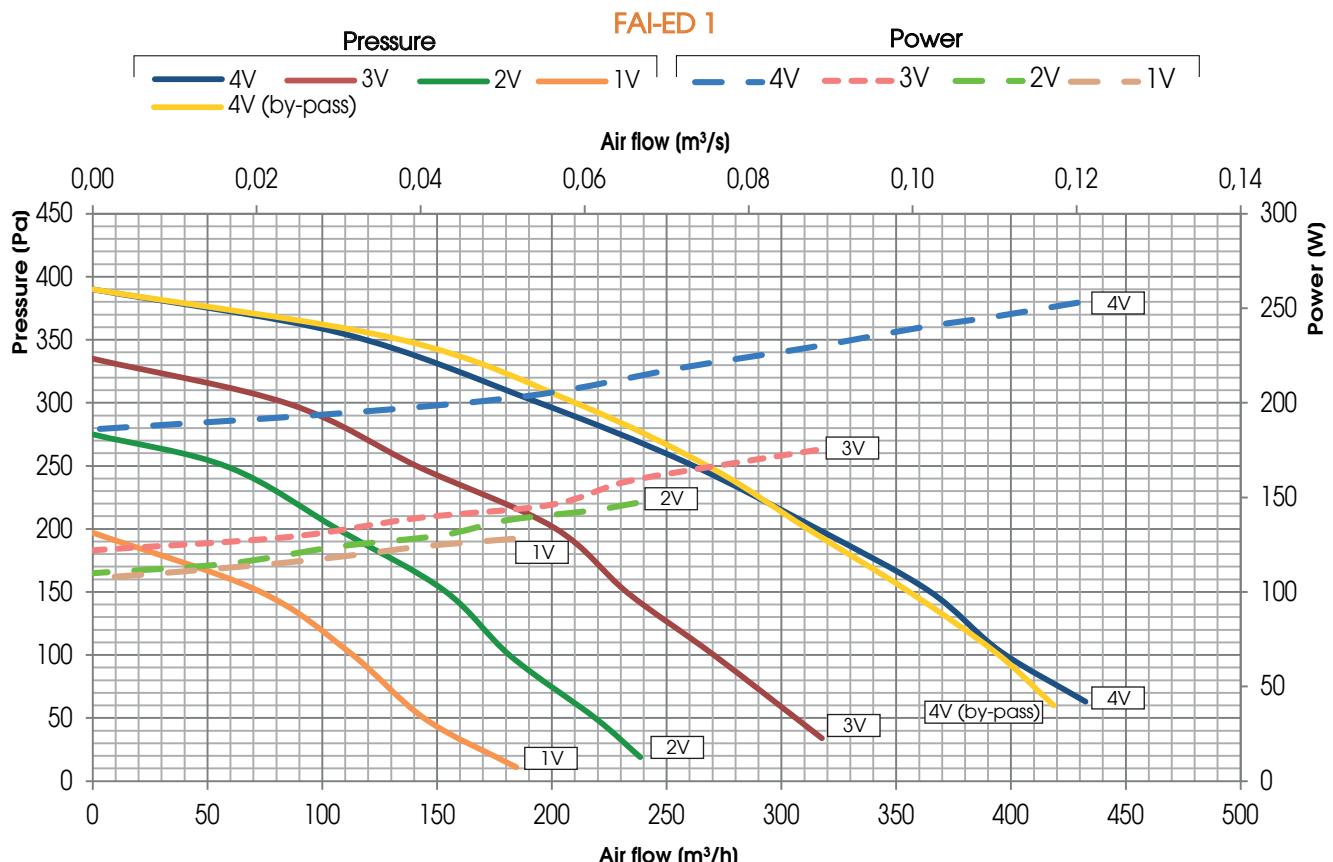


Counterflow heat exchanger made of aluminum manufactured by RECUTECH
RECUTECH participates in the Eurovent Certification Program



PERFORMANCE (UNI EN 13141-7)

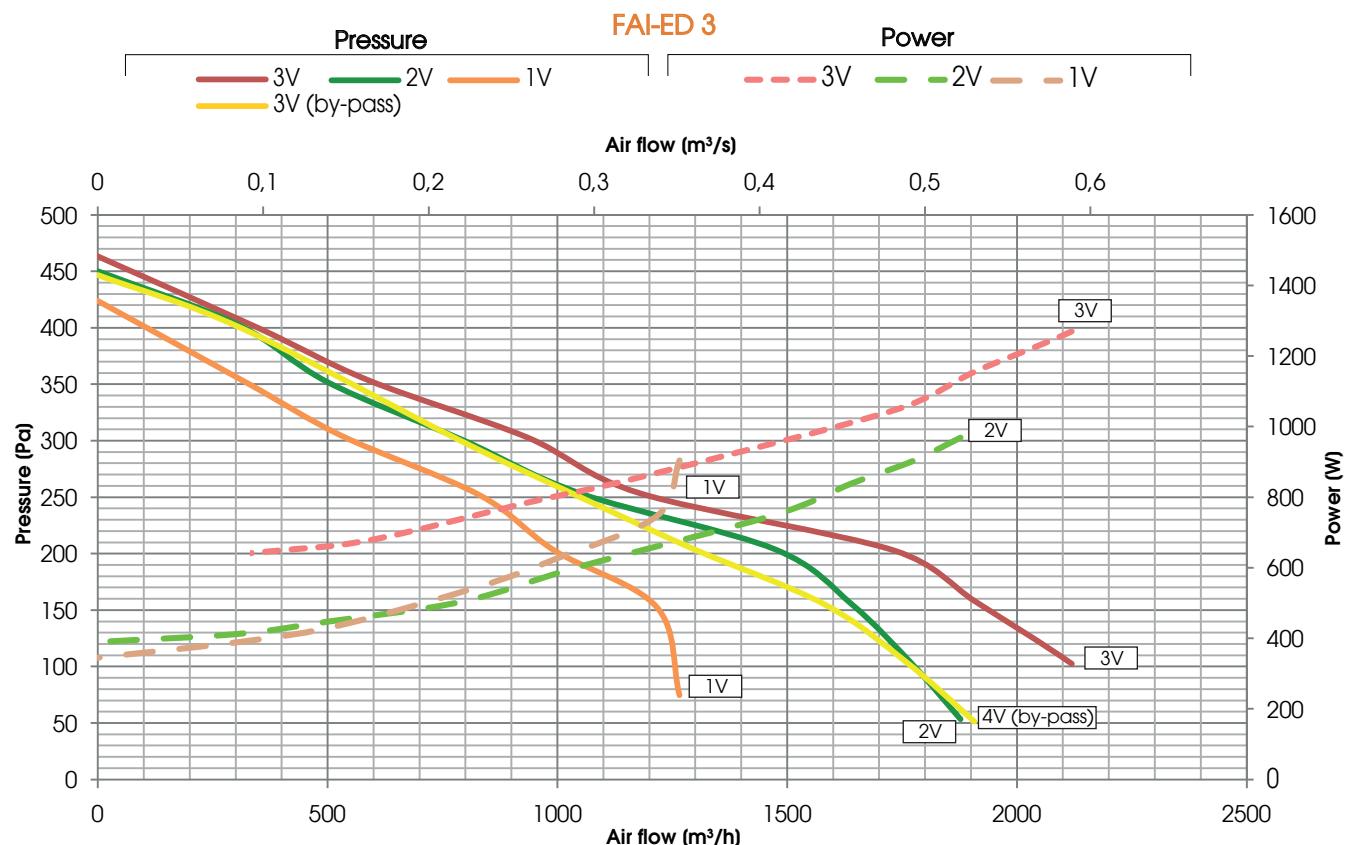
The unit must be ducted properly: UTEK authorizes the use only according to its performance diagram shown into this catalogue
The declared performances are with CLEAN filters, and guaranteed ONLY with the original filters UTEK low pressure drop.



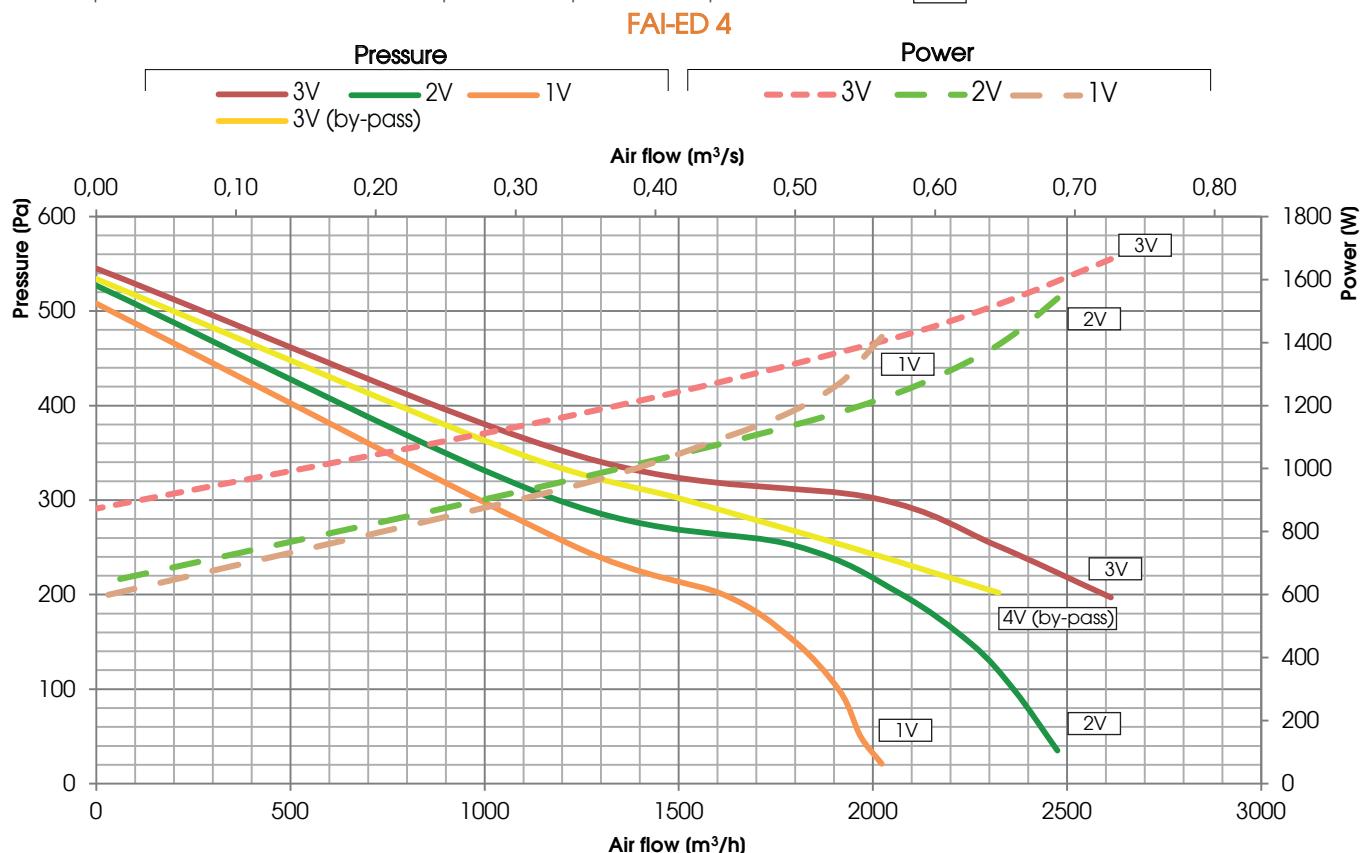


PERFORMANCE (UNI EN 13141-7)

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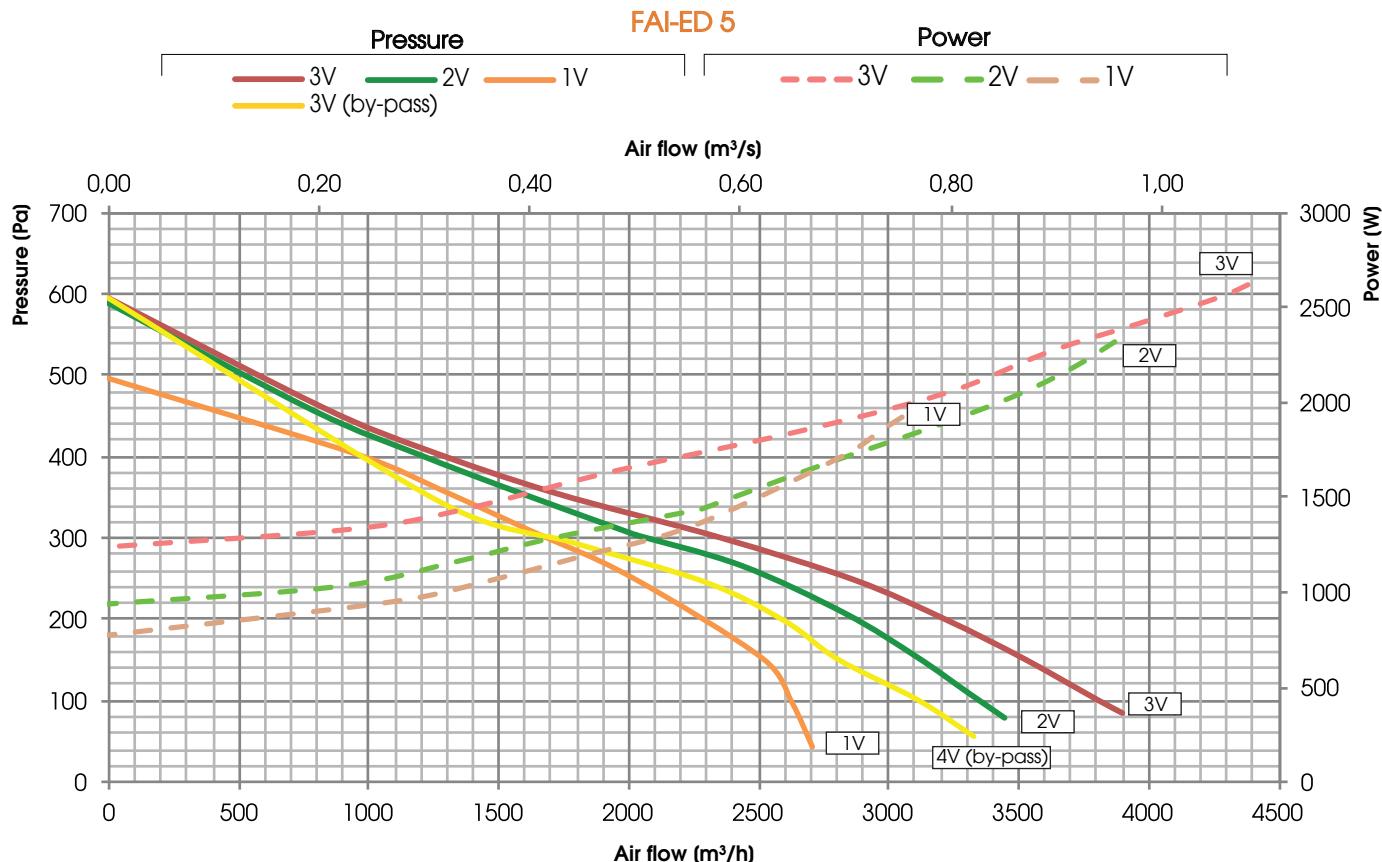
NOTE: for the units FAI-ED 1 and 2, the speed 1V It is NOT wired;
the first speed selectable from the control panel corresponds to the performance curve 2V





PERFORMANCE (UNI EN 13141-7)

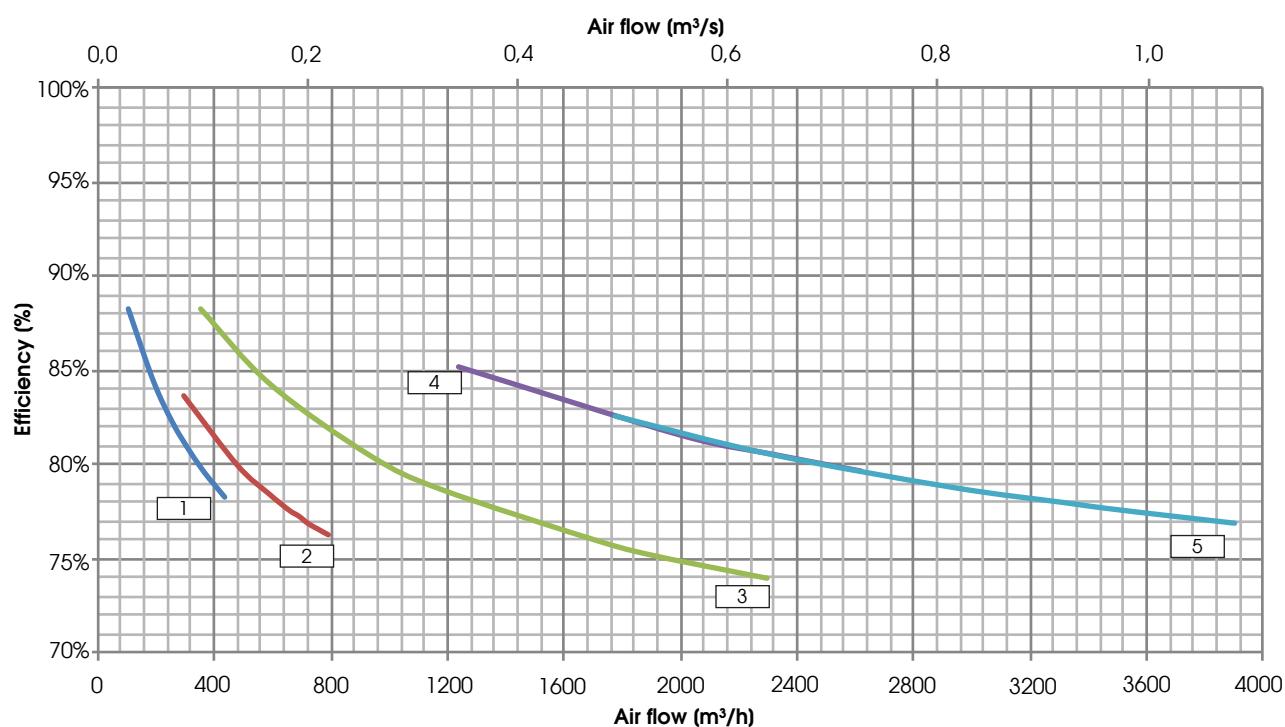
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The declared performances are with CLEAN filters, and guaranteed ONLY with the original filters UTEK low pressure drop.



HEAT RECOVERY PERFORMANCE (sensible efficiency)

Values referred to the following conditions (UNI EN 308:1998): Tbs external air 5°C; U.R. esternal 72%; Tbs enviorment 25°C; U.R. enviorment 38%

— FAI-ED 1 — FAI-ED 2 — FAI-ED 3 — FAI-ED 4 — FAI-ED 5





ECODESIGN

| UNIT | η_{t_nvru} (%) | q_{nom} (m^3/s) | $\Delta p_{s,ext}$ (Pa) | P (kW) | SFPint (W/ (m^3/s)) | SFPint_lim 2016 (W/ (m^3/s)) | SFPint_lim 2018 (W/ (m^3/s)) | FACE VELOCITY(m/s) | $\Delta p_{s,int}$ (Pa) | η_{Fan} (%) | * Internal LEAKAGE (%) | * External LEAKAGE (%) |
|----------|----------------------|-----------------------|-------------------------|--------|---------------------------|------------------------------------|------------------------------------|-----------------------|----------------------------|------------------|------------------------------|------------------------------|
| FAI-ED 1 | 78,9 | 0,1 | 100 | 0,25 | 1099 | 1542 | 1262 | 1,30 | 234 | 19,4% | 9,8% | 6,5% |
| FAI-ED 2 | 76,8 | 0,2 | 150 | 0,47 | 986 | 1464 | 1184 | 1,34 | 270 | 27,7% | 6,8% | 3,5% |
| FAI-ED 3 | 75,8 | 0,4 | 200 | 1,05 | 1067 | 1390 | 1110 | 1,27 | 360 | 34,6% | 5,2% | 2,8% |
| FAI-ED 4 | 80,1 | 0,7 | 200 | 1,66 | 1046 | 1486 | 1206 | 1,15 | 379 | 36,2% | 5,0% | 2,7% |
| FAI-ED 5 | 79,5 | 0,7 | 250 | 2,05 | 1047 | 1457 | 1177 | 1,26 | 376 | 33,8% | 4,6% | 2,5% |

* Percentage of the nominal flow

VALUES ACCORDING UNI EN 1886: 2008

| MOD. | CASING STRENGTH | CASING LEAKAGE | FILTER CLASS | THERMAL TRANSMITTANCE | THERMAL BRIDGE |
|----------|--------------------|-------------------|-----------------|--------------------------|-------------------|
| FAI-ED 1 | D1 (M) | L3 (M) | F7 (M) | T4 (M) | TB4 (M) |
| FAI-ED 2 | D1 (M) | L3 (M) | F7 (M) | T4 (M) | TB4 (M) |
| FAI-ED 3 | D1 (M) | L3 (M) | F7 (M) | T4 (M) | TB4 (M) |
| FAI-ED 4 | D1 (M) | L3 (M) | F7 (M) | T4 (M) | TB4 (M) |
| FAI-ED 5 | D1 (M) | L3 (M) | F7 (M) | T4 (M) | TB4 (M) |

TEST LEAKAGE (UNI EN 13141-7)

| LEAKAGE | TEST CONDITIONS | FAI-ED 1 | FAI-ED 2 | FAI-ED 3 | FAI-ED 4 | FAI-ED 5 |
|---------|----------------------------|----------|----------|----------|----------|----------|
| OUTDOOR | Positive pressure 400 Pa | A3 | A2 | A2 | A2 | A1 |
| OUTDOOR | Negative pressure 400 Pa | A2 | A2 | A1 | A1 | A1 |
| INDOOR | Pressure difference 250 Pa | A3 | A3 | A2 | A2 | A2 |

NOISE LEVEL

Lw Sound power level taken in accordance to UNI EN ISO 3747 - CLASS 3

| NOISE FROM THE CASE (dB) | | | | | | | | | |
|------------------------------------|--------|--------|--------|---------|---------|---------|---------|-------------|------|
| | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | L_w dB(A) | |
| FAI-ED 1 | 4V | 59,0 | 62,5 | 53,5 | 47,4 | 39,9 | 35,7 | 39,6 | 56,6 |
| FAI-ED 2 | 4V | 59,5 | 65,4 | 58,5 | 53,2 | 47,0 | 39,1 | 41,1 | 60,6 |
| FAI-ED 3 | 3V | 74,1 | 71,7 | 65,1 | 61,6 | 52,4 | 46,4 | 46,0 | 67,7 |
| FAI-ED 4 | 3V | 72,0 | 69,0 | 60,3 | 63,0 | 56,6 | 49,3 | 49,9 | 66,8 |
| FAI-ED 5 | 3V | 75,6 | 73,6 | 69,7 | 66,1 | 59,4 | 52,3 | 53,9 | 71,5 |
| NOISE IN THE SUPPLY AIR DUCTS (dB) | | | | | | | | | |
| | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | L_w dB(A) | |
| FAI-ED 1 | 4V | 56,8 | 61,6 | 59,3 | 52,9 | 49,7 | 48,7 | 52,3 | 60,7 |
| | 3V | 53,3 | 57,0 | 53,0 | 46,8 | 42,2 | 37,3 | 40,8 | 54,1 |
| | 2V | 52,3 | 54,9 | 52,1 | 46,3 | 37,9 | 31,3 | 37,8 | 52,6 |
| NOISE IN THE SUPPLY AIR DUCTS (dB) | | | | | | | | | |
| | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | L_w dB(A) | |
| FAI-ED 2 | 4V | 62,9 | 72,3 | 68,8 | 62,7 | 62,8 | 60,6 | 65,8 | 71,7 |
| | 3V | 61,6 | 68,6 | 64,9 | 60,2 | 57,9 | 57,0 | 62,3 | 68,0 |
| | 2V | 58,3 | 61,6 | 58,9 | 56,2 | 51,2 | 50,1 | 53,5 | 61,7 |
| NOISE IN THE SUPPLY AIR DUCTS (dB) | | | | | | | | | |
| | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | L_w dB(A) | |
| FAI-ED 3 | 3V | 73,0 | 77,4 | 72,6 | 76,4 | 68,4 | 67,0 | 69,6 | 79,2 |
| | 2V | 69,8 | 72,8 | 70,4 | 73,1 | 66,1 | 65,0 | 66,5 | 76,2 |
| | 1V | 64,7 | 70,8 | 65,5 | 66,2 | 58,7 | 56,9 | 56,3 | 69,8 |
| NOISE IN THE SUPPLY AIR DUCTS (dB) | | | | | | | | | |
| | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | L_w dB(A) | |
| FAI-ED 4 | 3V | 74,4 | 74,7 | 74,7 | 74,2 | 69,3 | 67,0 | 70,1 | 78,5 |
| | 2V | 72,5 | 71,9 | 74,3 | 70,3 | 63,7 | 63,2 | 66,2 | 75,5 |
| | 1V | 72,0 | 79,6 | 72,2 | 67,2 | 60,4 | 58,9 | 61,2 | 74,7 |
| NOISE IN THE SUPPLY AIR DUCTS (dB) | | | | | | | | | |
| | 125 Hz | 250 Hz | 500 Hz | 1000 Hz | 2000 Hz | 4000 Hz | 8000 Hz | L_w dB(A) | |
| FAI-ED 5 | 3V | 78,7 | 80,9 | 79,9 | 80,3 | 76,1 | 75,5 | 79,6 | 85,4 |
| | 2V | 75,3 | 76,8 | 76,1 | 75,7 | 71,8 | 71,6 | 75,4 | 81,1 |
| | 1V | 69,9 | 70,7 | 71,2 | 69,6 | 65,3 | 64,5 | 66,8 | 74,6 |

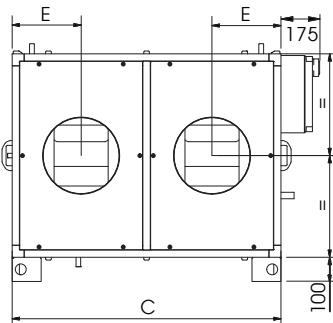
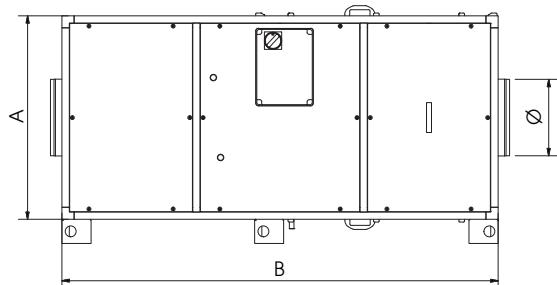


ELECTRICAL DATA

| MATCHING | FANS | | | | UNIT FAI-ED | | |
|----------|-----------|---------------|-----------------|------------------|---------------|-----------------|------------------|
| | Power (W) | Supply | Current max.(A) | Insulation class | Supply | Current max.(A) | Insulation class |
| FAI ED 1 | 2 x 150 | 230V 50 Hz 1F | 2 x 0,7 | IP20 CLASSE F | 230V 50 Hz 1F | 1,4 | IP20 |
| FAI ED 2 | 2 x 290 | 230V 50 Hz 1F | 2 x 1,3 | IP20 CLASSE F | 230V 50 Hz 1F | 2,7 | IP20 |
| FAI ED 3 | 2 x 400 | 230V 50 Hz 1F | 2 x 3,8 | IP20 CLASSE F | 230V 50 Hz 1F | 7,7 | IP20 |
| FAI ED 4 | 2 x 550 | 230V 50 Hz 1F | 2 x 4,8 | IP20 CLASSE F | 230V 50 Hz 1F | 9,7 | IP20 |
| FAI ED 5 | 2 x 750 | 230V 50 Hz 1F | 2 x 9,6 | IP20 CLASSE B | 230V 50 Hz 1F | 19,3 | IP20 |

FAI-ED H

DIMENSIONS (mm) WEIGHT (kg)

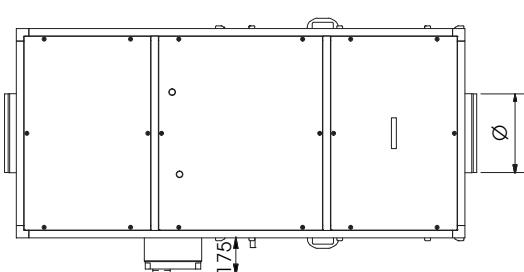
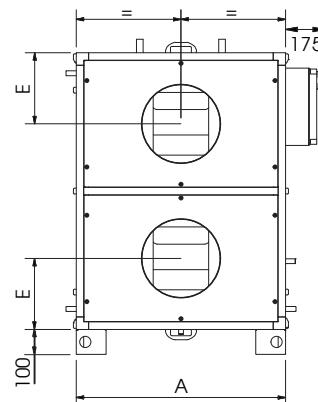
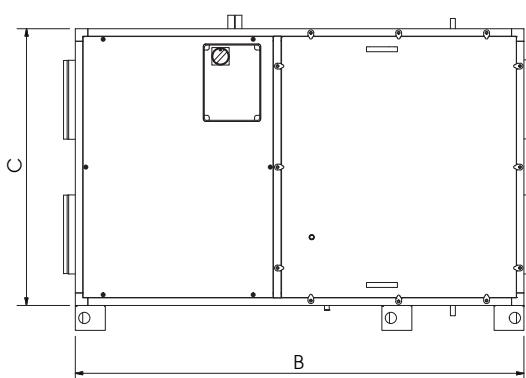


NOTE: for FAI-ED 1 and 2 there are no the feet but the brackets

| UNIT | Dimensions (mm) | | | | | |
|--------------|-----------------|------|------|-----|-----|------------|
| | A | B | C | Ø | E | Weight(kg) |
| FAI-ED H 1 | 450 | 1420 | 900 | 200 | 232 | 99 |
| FAI-ED H 2 | 550 | 1420 | 900 | 250 | 232 | 115 |
| FAI-ED H 3 | 840 | 1800 | 1100 | 315 | 285 | 276 |
| FAI-ED H 4/5 | 1050 | 2180 | 1340 | 400 | 342 | 363/379 |

FAI-ED V

DIMENSIONS (mm) WEIGHT (kg)



| UNIT | Dimensions (mm) | | | | | |
|--------------|-----------------|------|------|-----|-----|------------|
| | A | B | C | Ø | E | Weight(kg) |
| FAI-ED V 1 | 450 | 1420 | 900 | 200 | 232 | 99 |
| FAI-ED V 2 | 550 | 1420 | 900 | 250 | 232 | 115 |
| FAI-ED V 3 | 840 | 1800 | 1100 | 315 | 285 | 276 |
| FAI-ED V 4/5 | 1050 | 2180 | 1340 | 400 | 342 | 363/379 |

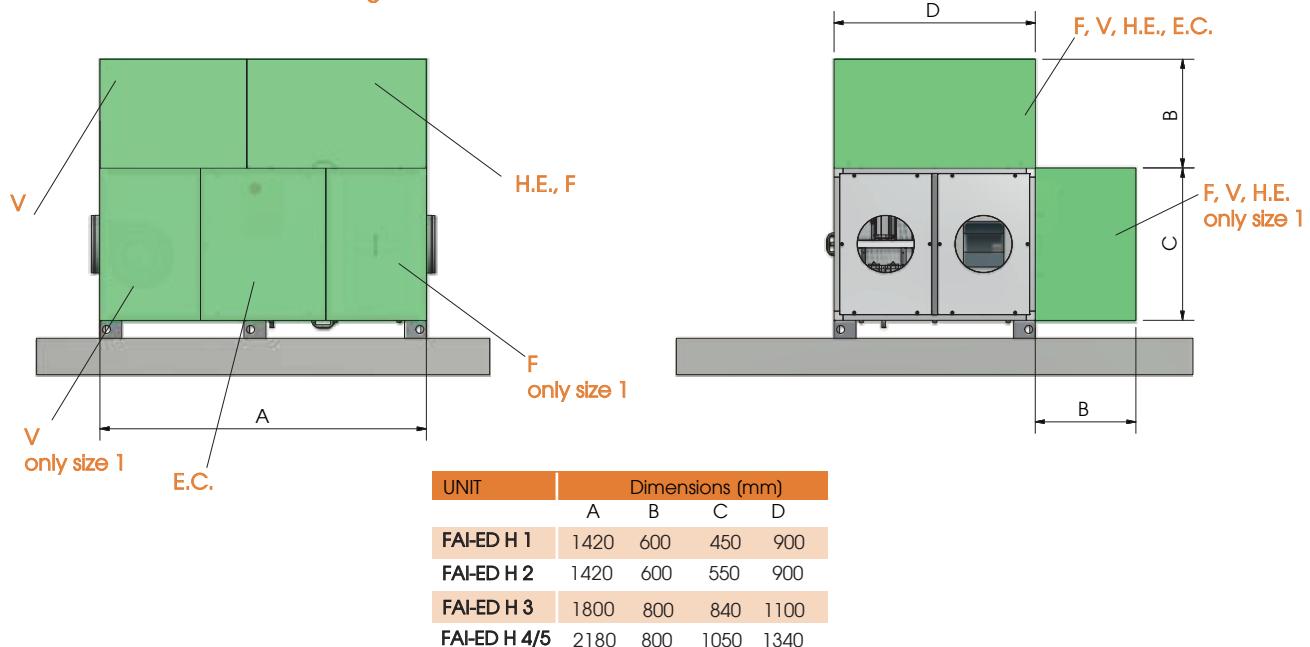


INSTALLATION FAI-ED H

FLOOR INSTALLATION

Minimum required space for maintenance (mm)

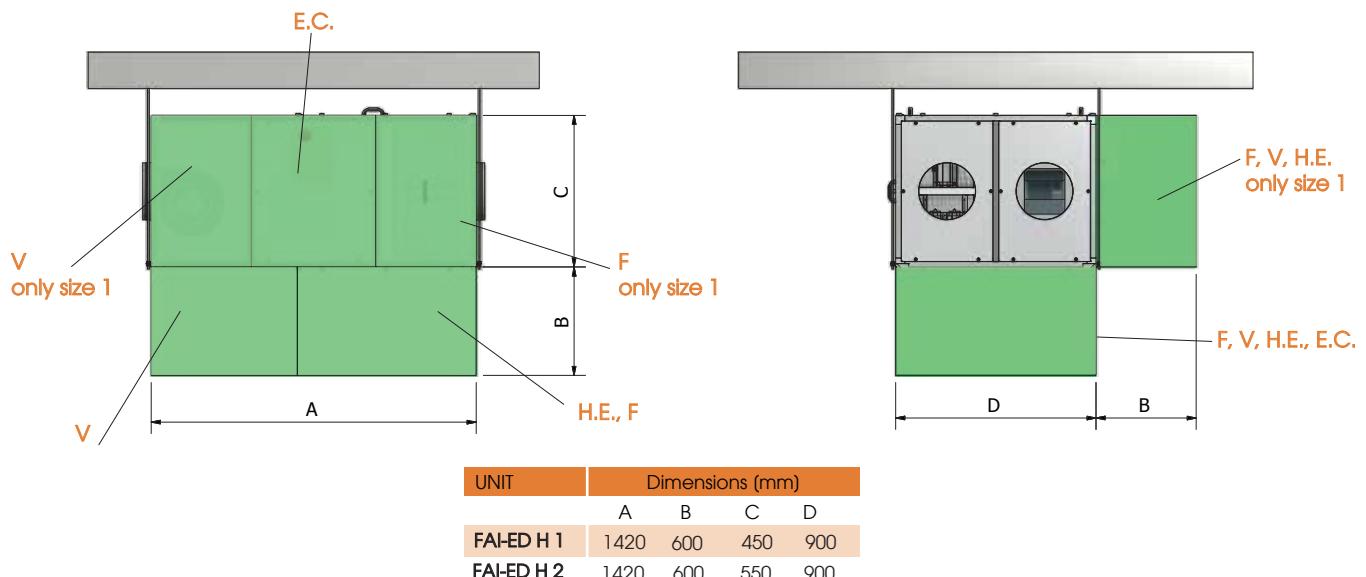
Fl= filters, H.E.=heat exchanger, V=ventilators, E.C.= electrical cabinet



CEILING INSTALLATION

Minimum required space for maintenance (mm)

Fl= filters, H.E.=heat exchanger, V=ventilators, E.C.= electrical cabinet



The ceiling installation for 3-4-5 size of FAI-ED H it is not recommended. The manufacturer is not responsible for injury to persons or damages to things in case of this type of installation. **CAUTION:** The operations of inspection of the heat exchanger for these sizes can not be made manually for the high weight of the same which would result in an unacceptable level of risk.

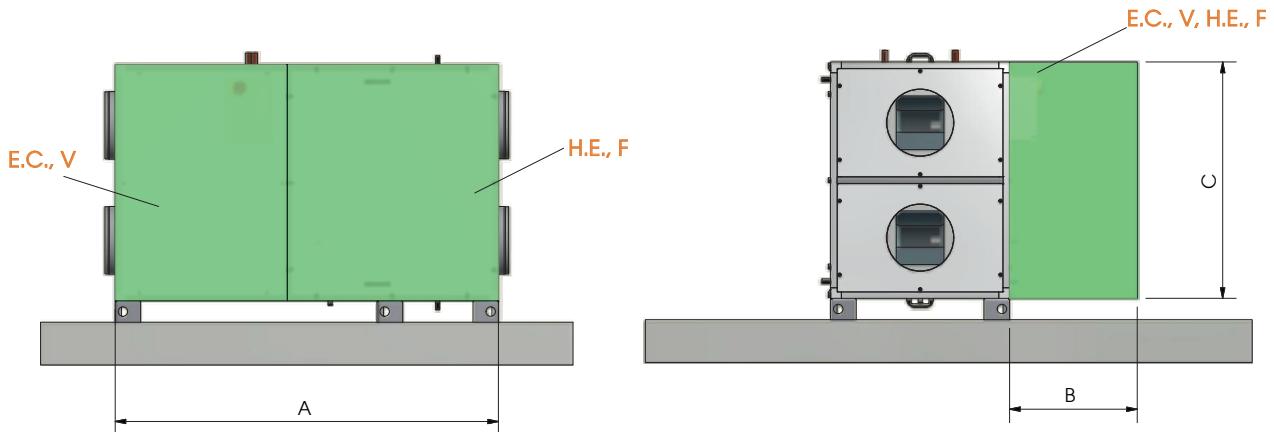


INSTALLATION FAI-ED V

FLOOR INSTALLATION

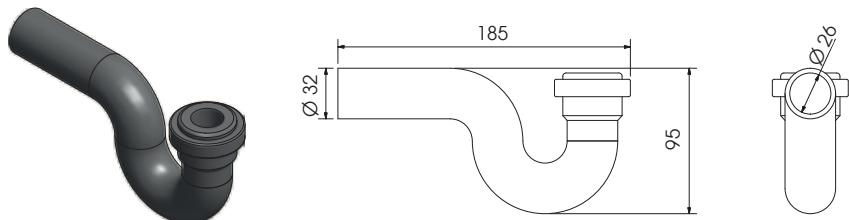
 Minimum required space for maintenance (mm)

F= filters, H.E.=heat exchanger, V=ventilators, E.C.= electrical cabinet



| UNIT | Dimensions (mm) | | |
|--------------|-----------------|-----|------|
| | A | B | D |
| FAI-ED V 1 | 1420 | 600 | 900 |
| FAI-ED V 2 | 1420 | 600 | 900 |
| FAI-ED V 3 | 1800 | 800 | 1110 |
| FAI-ED V 4/5 | 2180 | 800 | 1340 |

STANDARD SIPHON (mm)



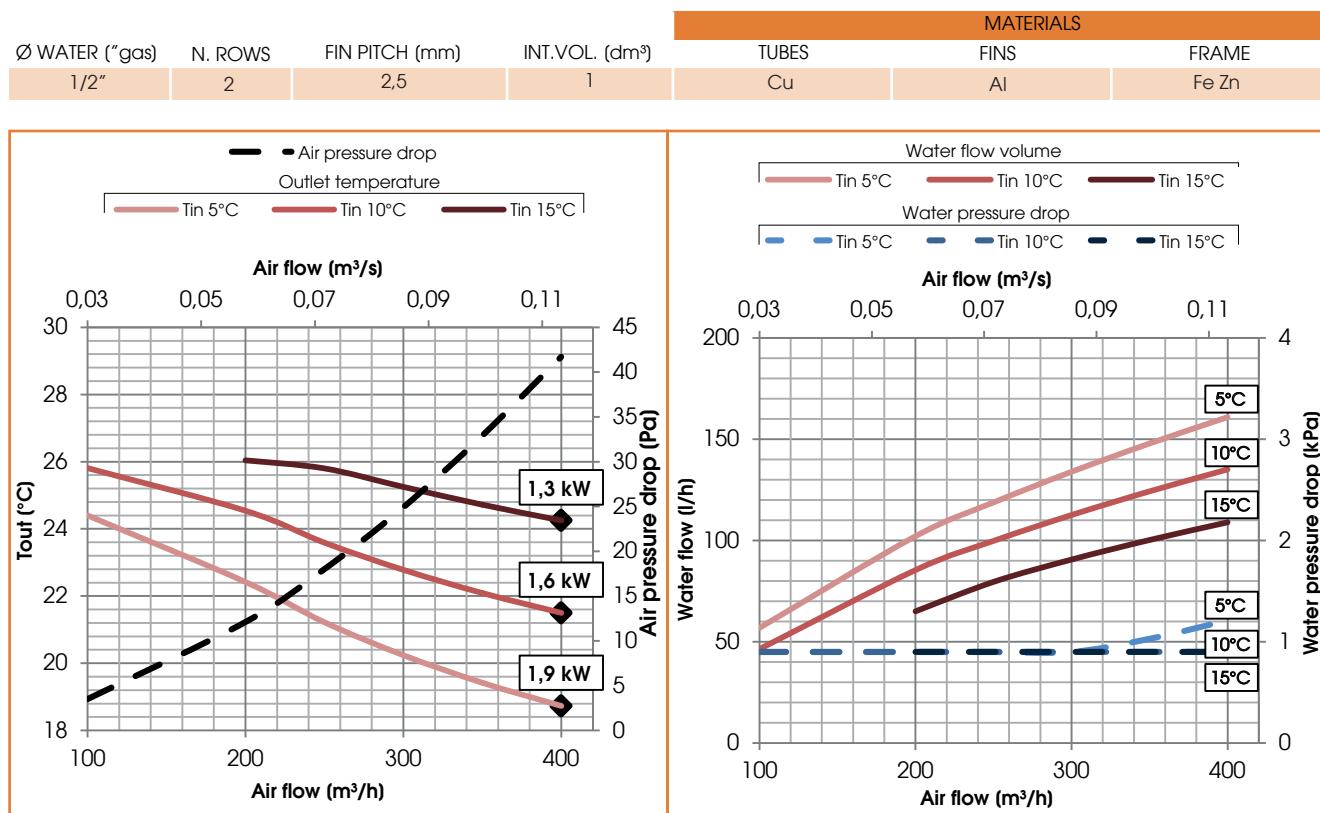
N.B.: predict 1 additional siphon if there is the cold water coil BA-AF / AC or DX gas (duct)



The way to read the graphs is specified within the accessories technico-list

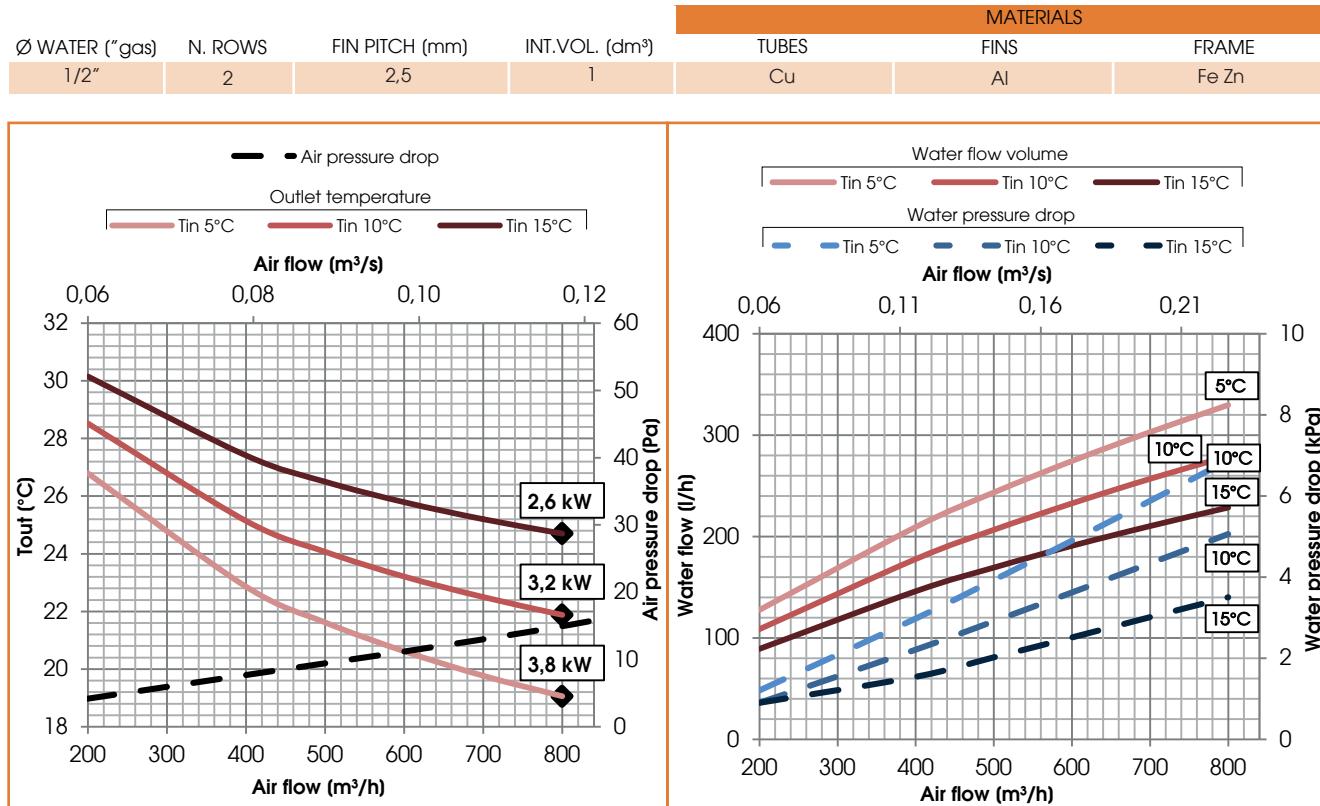
COILS FAI-ED 1

Heating water coil (45°C/35°C)



COIL FAI-ED 2

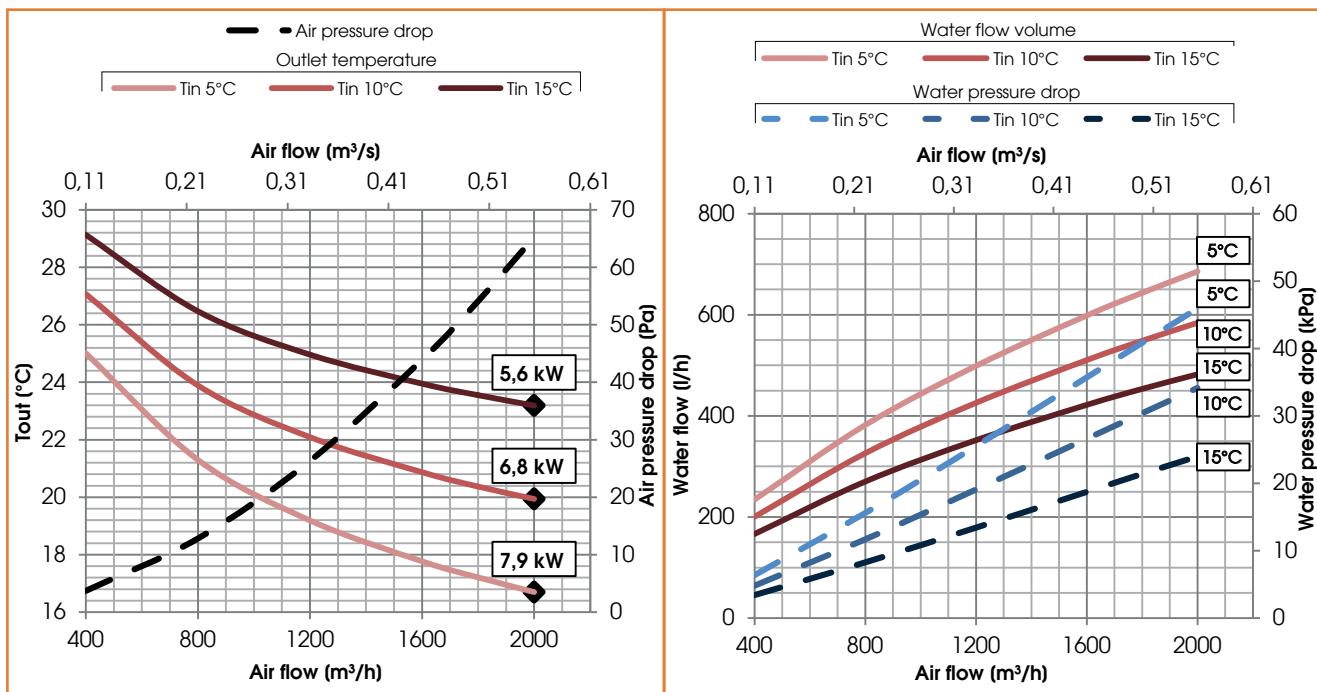
Heating water coil (45°C/35°C)





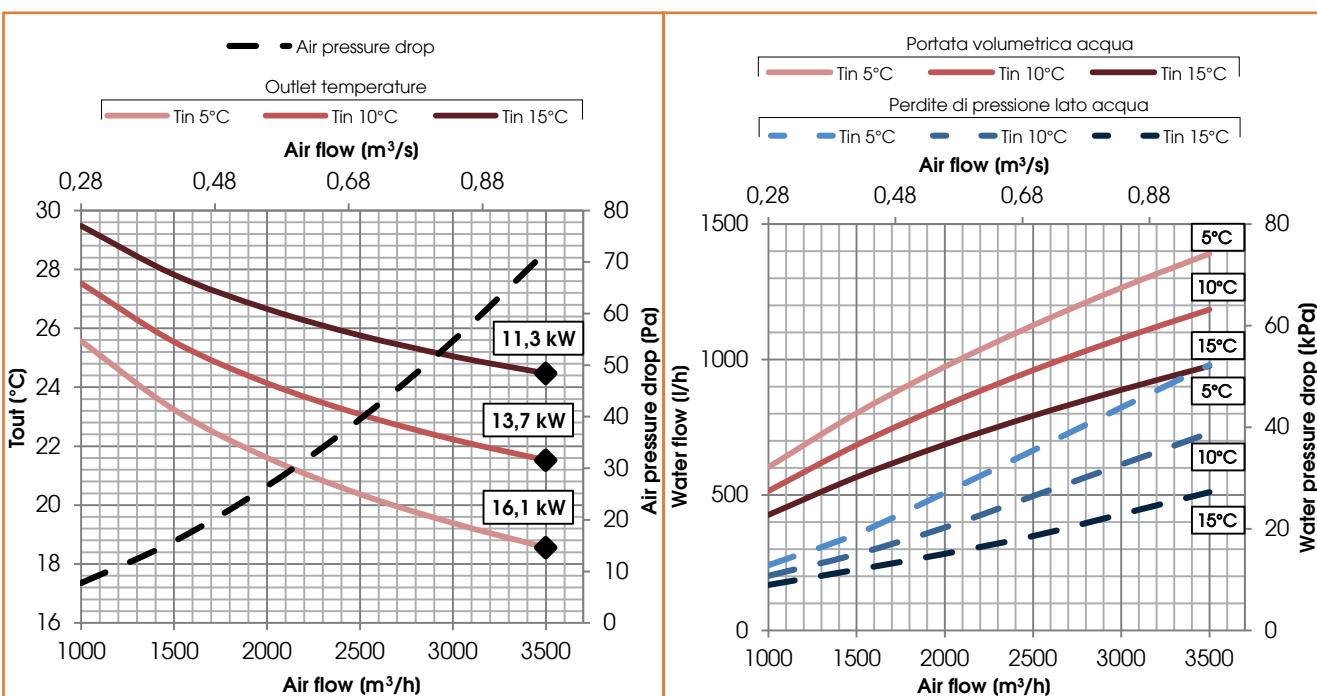
COILS FAI-ED 3
Heating water coil (45°C/35°C)

| | | | | MATERIALS | | |
|----------------|---------|----------------|----------------|-----------|------|-------|
| Ø WATER ("gas) | N. ROWS | FIN PITCH (mm) | INT.VOL. (dm³) | TUBES | FINS | FRAME |
| 1/2" | 2 | 3,0 | 2 | Cu | Al | Fe Zn |



COILS FAI-ED 4 e FAI-ED 5
Heating water coil (45°C/35°C)

| | | | | MATERIALS | | |
|----------------|---------|----------------|----------------|-----------|------|-------|
| Ø WATER ("gas) | N. ROWS | FIN PITCH (mm) | INT.VOL. (dm³) | TUBES | FINS | FRAME |
| 3/4" | 2 | 2,5 | 3 | Cu | Al | Fe Zn |





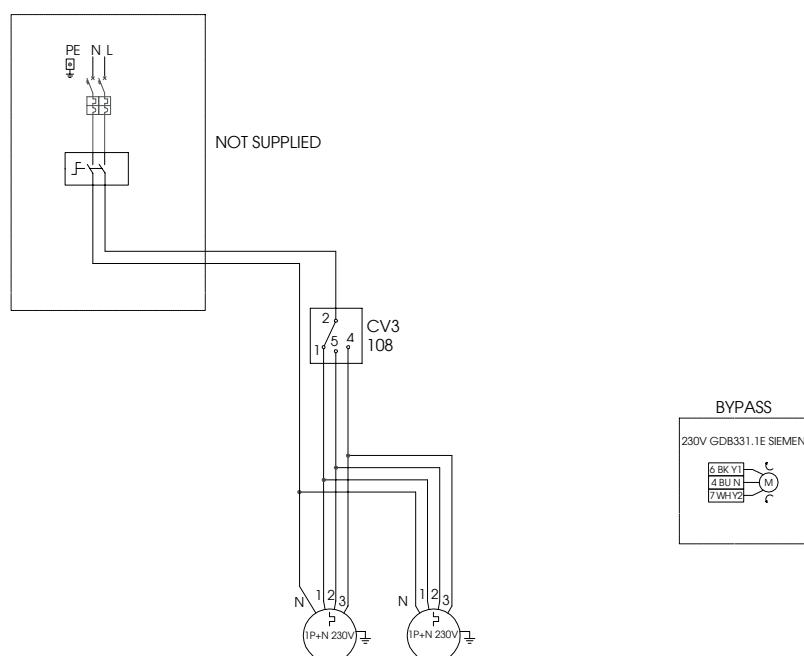
Electrical heater

ELECTRICAL DATA RESISTANCE OF PRE / POST HEATING

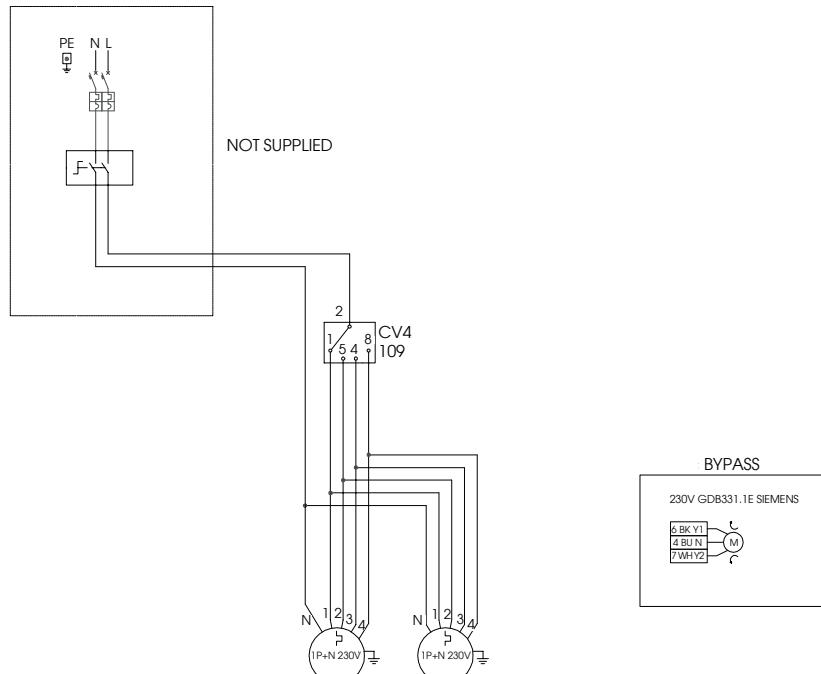
| Unit | Power Supply | Power (kW) | Current (A) | N. stages |
|----------|----------------|------------|-------------|-----------|
| FAI-ED 1 | 230V, 50Hz, 1F | 2 | 8,7 | 1 |
| FAI-ED 2 | 230V, 50Hz, 1F | 4 | 17,4 | 1 |
| FAI-ED 3 | 230V, 50Hz, 1F | 6 | 26,1 | 1 |
| FAI-ED 4 | 230V, 50Hz, 1F | 8 | 34,8 | 1 |
| FAI-ED 4 | 400V, 50Hz, 3F | 8 | 11,6 | 1 |
| FAI-ED 5 | 400V, 50Hz, 3F | 12 | 17,4 | 1 |

N.B. – for other batteries PRE or POST treatment see the Techno-list of ACCESSORIES

CV3



CV4





DX coil- FAI-ED 1

| DIRECT EXPANSION COIL (R410A) | | | | | | |
|-------------------------------|----------------|-------------|---------------|-------------|--------------|------------------------|
| Air flow (m³/h) | Tin (°C) | R.H. in (%) | Power (kW) | Tout (°C) | R.H. out (%) | Air pressure drop (Pa) |
| 396 | 25 | 50 | 1,96 | 13,6 | 86 | 16 |
| Ø connection(mm) | Fin pitch (mm) | N. Rows | Int.Vol.(dm³) | T evap (°C) | T cond (°C) | |
| 22-16 | 3,0 | 3 | 1,0 | 5 | 50 | |

DX coil- FAI-ED 2

| DIRECT EXPANSION COIL (R410A) | | | | | | |
|-------------------------------|----------------|-------------|---------------|-------------|--------------|------------------------|
| Air flow (m³/h) | Tin (°C) | R.H. in (%) | Power (kW) | Tout (°C) | R.H. out (%) | Air pressure drop (Pa) |
| 828 | 25 | 50 | 3,59 | 15,4 | 78,7 | 53 |
| Ø connection(mm) | Fin pitch (mm) | N. Rows | Int.Vol.(dm³) | T evap (°C) | T cond (°C) | |
| 18-12 | 2,5 | 3 | 1,1 | 5 | 50 | |

DX coil- FAI-ED 3

| DIRECT EXPANSION COIL (R410A) | | | | | | |
|-------------------------------|----------------|-------------|---------------|-------------|--------------|------------------------|
| Air flow (m³/h) | Tin (°C) | R.H. in (%) | Power (kW) | Tout (°C) | R.H. out (%) | Air pressure drop (Pa) |
| 1260 | 25 | 50 | 6,18 | 14,1 | 83,6 | 50 |
| Ø connection(mm) | Fin pitch (mm) | N. Rows | Int.Vol.(dm³) | T evap (°C) | T cond (°C) | |
| 18-12 | 2,5 | 3 | 2,3 | 5 | 50 | |

DX coil- FAI-ED 4

| DIRECT EXPANSION COIL (R410A) | | | | | | |
|-------------------------------|----------------|-------------|---------------|-------------|--------------|------------------------|
| Air flow (m³/h) | Tin (°C) | R.H. in (%) | Power (kW) | Tout (°C) | R.H. out (%) | Air pressure drop (Pa) |
| 1980 | 25 | 50 | 8,01 | 15,9 | 77,3 | 32 |
| Ø connection(mm) | Fin pitch (mm) | N. Rows | Int.Vol.(dm³) | T evap (°C) | T cond (°C) | |
| 18-12 | 2,5 | 2 | 2,6 | 5 | 50 | |

DX coil- FAI-ED 5

| DIRECT EXPANSION COIL (R410A) | | | | | | |
|-------------------------------|----------------|-------------|---------------|-------------|--------------|------------------------|
| Air flow (m³/h) | Tin (°C) | R.H. in (%) | Power (kW) | Tout (°C) | R.H. out (%) | Air pressure drop (Pa) |
| 2700 | 25 | 50 | 10,93 | 16 | 76,7 | 36 |
| Ø connection(mm) | Fin pitch (mm) | N. Rows | Int.Vol.(dm³) | T evap (°C) | T cond (°C) | |
| 22-12 | 2,5 | 2 | 3,2 | 5 | 50 | |

| | | | | | | | | | |
|---|--|----------|---------------------------------|--|---------------------------------|--|---------------------------------|--|---------------------------------|
| A | Manufacturer's name | UTEK srl | | | | | | | |
| B | Manufacturer's model identifier | | FAIED 1 BP EVO-PH SH | | FAIED 2 BP EVO-PH SH | | FAIED 3 BP EVO-PH SH | | FAIED 4 BP EVO-PH SH |
| C | Declared typology | | UV/NR / UVB | | UV/NR / UVB | | UV/NR / UVB | | UV/NR / UVB |
| D | Type of drive installed | | Multiple speeds | | Multiple speeds | | Multiple speeds | | Multiple speeds |
| E | Type of HRS | | other | | other | | other | | other |
| F | Thermal efficiency of heat recovery (%) | | 78,9 | | 76,8 | | 75,8 | | 80,1 |
| G | Nominal NRVU flow rate (m ³ /s) | | 0,111 | | 0,201 | | 0,484 | | 0,721 |
| H | Effective electric power input (kW) | | 0,25 | | 0,47 | | 1,05 | | 1,66 |
| I | SFPint (W/(m ³ /s) | | 1099 | | 986 | | 1067 | | 1048 |
| J | Face velocity at design flow rate (m/s) | | 1,3 | | 1,3 | | 1,3 | | 1,2 |
| K | Nominal external pressure (Pa) | | 100 | | 150 | | 200 | | 200 |
| L | Internal pressure drop of ventilation components (Pa) | | 234 | | 270 | | 360 | | 379 |
| M | Optional: internal pressure drop of non-ventilation components | | - | | - | | - | | - |
| N | Static efficiency of fans used in accordance with Regulation (EU) No 327/2011 (%) | | 19,4 | | 27,7 | | 34,6 | | 36,2 |
| O | Declared maximum external leakage rate of the casing of ventilation units (%) | | 6,5 | | 3,5 | | 2,8 | | 2,7 |
| P | Declared maximum internal leakage rate of bidirectional ventilation units or carry over (for regenerative heat exchangers only) (%) | | 9,8 | | 6,8 | | 5,2 | | 5,0 |
| Q | Energy performance, preferably energy classification, of the filters (declared information about the calculated annual energy consumption) | | ePM1 70% (F7) ePM10 50% (M5) | | ePM1 70% (F7) ePM10 50% (M5) | | ePM1 75% (F7) ePM10 50% (M5) | | ePM1 70% (F7) ePM10 50% (M5) |
| R | Casing sound power level (LWA) (dB) | | 57 | | 61 | | 68 | | 67 |
| S | Internet address for pre-/dis-assembly instructions | | | | | | | | www.utek.it |

Filter warning is signalled on the display of the control system: the flashing writing "DirtyFilters" will appear. "To preserve the energy efficiency of the NRVU, it's recommended to replace the filters when signated." Positioned near the filters inspection

| | | | |
|---|--|---------------------------------|--|
| A | Manufacturer's name | UTEK srl | |
| B | Manufacturer's model identifier | FAIED 5 BP EVO-PH SH | |
| C | Declared typology | UVNR / UVB | |
| D | Type of drive installed | multi speeds | |
| E | Type of HRS | other | |
| F | Thermal efficiency of heat recovery (%) | 79,5 | |
| G | Nominal NRVU flow rate (m ³ /s) | 0,816 | |
| H | Effective electric power input (kW) | 2,05 | |
| I | SFPint (W/(m ³)/s) | 1047 | |
| J | Face velocity at design flow rate (m/s) | 1,2 | |
| K | Nominal external pressure (Pa) | 250 | |
| L | Internal pressure drop of ventilation components (Pa) | 376 | |
| M | Optional: internal pressure drop of non-ventilation components | - | |
| N | Static efficiency of fans used in accordance with Regulation (EU) No 327/2011 (%) | 33,8 | |
| O | Declared maximum external leakage rate of the casing of ventilation units (%) | 2,5 | |
| P | Declared maximum internal leakage rate of bidirectional ventilation units or carry over (for regenerative heat exchangers only) (%) | 4,6 | |
| Q | Energy performance, preferably energy classification, of the filters (declared information about the calculated annual energy consumption) | ePMI 70% (F7) ePM10 50% (M5) | |
| R | Casing sound power level (LWA) (dB) | 72 | |
| S | Internet address for pre-/dis-assembly instructions | www.utek.it | |

CLA & UTEK reserves the right to at any time the necessary changes to improve products without prior notice .

Dear Customer

Thanks for your attention to the product UTEK , designed and manufactured to ensure the real values to the User : Quality, Safety and Savings on working.



**COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV GL
ISO 9001**

ISO 9001



the Dealer

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VENTILATION UNIT WITH HEAT RECOVERY FOR COMMERCIAL AND INDUSTRIAL BUILDINGS