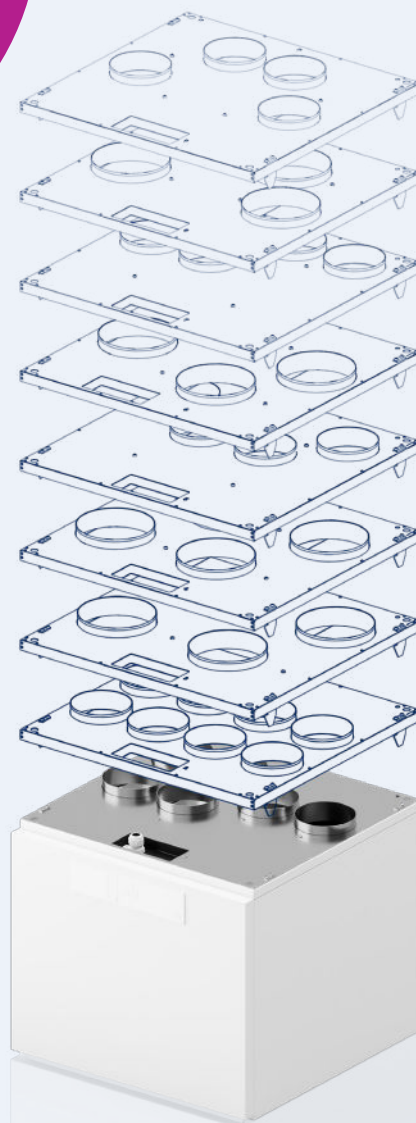




Renovation projects



Airfi Refit

**All Airfi innovations
now in one high-performance
replacement air handling unit**



MORE THAN PURE AIR

Airfi Refit redefines air handling unit retrofits

Airfi Refit is suitable for use in place of up to hundreds of existing air handling unit models. The solution consists of one air handling unit and a range of different connection modules. No adapters or other separate parts are required.

Duct connections ready in the right positions

Airfi Refit is suitable for use in place of the existing air handling unit, either without any ductwork modifications or with only minor ductwork changes, depending on the existing unit. Simply select the connection module and the unit body.



Replacement unit selector:
short.airfi.eu/selector

Modern, intelligent ventilation

Replacing an existing air handling unit with a new one significantly improves indoor air quality and reduces energy consumption. Modern heat recovery efficiently recovers heat energy from the extract air and improves energy efficiency. At the same time, more effective ventilation removes moisture and contaminants while supplying clean, filtered outdoor air. Intelligent ventilation adapts to the actual demand in the space, keeping indoor air fresh while saving energy.

Excellent filtration

High-performance ISO ePM1 65% supply air filter.

Better performance

Lower pressure drop than with separate retrofit adapters.

Energy-efficient counterflow heat exchanger and heat recovery

Airfi Refit features a counterflow heat exchanger, which is more energy-efficient than crossflow heat exchangers. The unit has an exceptionally energy-efficient heat exchanger. Efficiency up to 85%.

Patented AFPS™ frost protection technology

AI-controlled, self-learning technology improves energy-efficiency and user comfort.

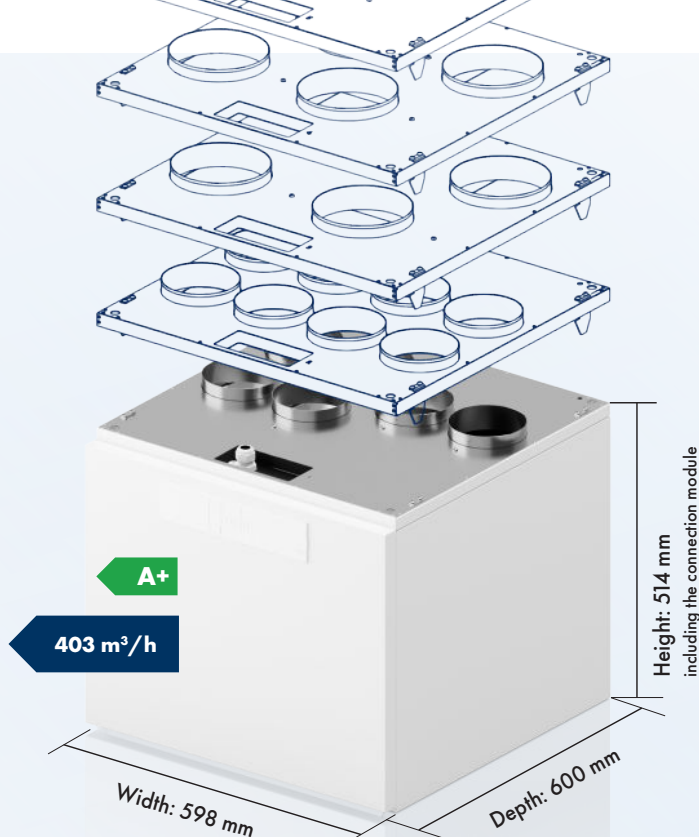


A wholesaler's dream product

One air handling unit is suitable for use in place of up to hundreds of models. Simply select the connection module and the unit body. The solution saves valuable warehouse space for wholesalers.

CO₂ and humidity sensors as standard

The unit's CO₂ sensor boosts ventilation automatically when needed, for example during parties when many people are present. The humidity sensor also boosts ventilation as needed, for example in response to seasonal changes.



EC fans

The EC fans used in the solution consume less energy than AC fans.

2+4 YEARS

WARRANTY
+EXTRA WARRANTY
AIR HANDLING UNITS

Extremely easy installation and commissioning

Installation is extremely easy and fast. The connection module can first be installed in the ductwork, after which the air handling unit is lifted into place. Ducts can also be routed through the module.

Living comfort

The unit can be controlled using the control panel or the Airfi app. Connectivity to the most common home and building automation systems is included as standard. The unit's sound level in the room is in a class of its own.

Low installation height

Airfi Refit requires no additional space, as the module is designed as an integral part of the unit. Another advantage is the exceptionally low overall installation height. No ceiling mounting bracket is required, as the connection module replaces it. The floating installation also eliminates vibration.

Patent pending

A patent application has been filed for the Airfi Refit solution.



Points to consider when replacing an air handling unit



Correct airflow for current needs

The airflow of the existing unit may no longer be suitable for current needs, for example if the building has been extended or additional wet rooms have been added. A ventilation professional will determine and balance the airflow rates correctly.



Ductwork insulation and sound attenuation

The ductwork insulation should be checked and it should be assessed whether sound attenuation needs to be improved. The exhaust air duct must be insulated against condensation inside the vapour barrier. Attention should also be paid to the insulation of the exhaust air duct in general.



Unit handedness and ducts

Check the handedness (R/L) of the existing unit and the number and size of the ducts. Also check the airflow rates. Selecting the handedness: Check the duct locations and dimensions. Note: R/L designations may vary between manufacturers.



Unit dimensions

Check the dimensions of the existing unit and make sure the new unit will fit in its place. Sufficient space must also be left for installation and maintenance.



Installation

Airfi Refit is easy to install thanks to the low-profile connection module, which forms an integral part of the unit body. The module is installed in the ductwork first, after which the unit is lifted into place. No separate ceiling mounting bracket is required. If necessary, the unit can also be wall-mounted.



Connection to building automation

Airfi Refit can be connected to most building automation systems, allowing you to get the full benefit from your air handling unit. When connected to a network, the unit can also be easily controlled using the app and connected to Airfi Cloud service.



Condensate

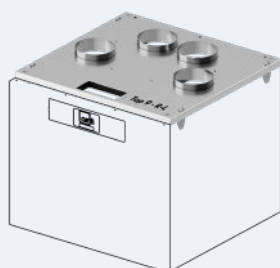
The new unit has a higher heat recovery efficiency, so it produces more condensate than the previous unit. Make sure the condensate is properly drained.



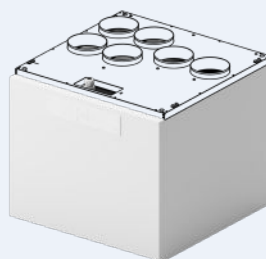
Hydronic post-heating coil

Some existing air handling units may have a hydronic post-heating coil, but Airfi Refit no longer requires one thanks to its high energy efficiency.

Airfi Refit



1+1



**Select the connection
module (Top)**

+

**unit body according
to handedness**



Replacement unit selector:
short.airfi.eu/selector

On the following pages, you
will also find comprehensive
compatibility tables for existing
air handling units.

Airfi Refit product codes

Connection modules

Model	Code	
Airfi Refit -Top1 (R)	30 001 111	Top1 Connection module R-handed
Airfi Refit -Top1 (L)	30 001 121	Top1 Connection module L-handed
Airfi Refit -Top2 (R-L)	30 002 191	Top2 Connection module R-L handed
Airfi Refit -Top3 (R-L)	30 003 191	Top3 Connection module R-L handed
Airfi Refit -Top4 (R-L)	30 004 191	Top4 Connection module R-L handed
Airfi Refit -Top5 (R-L)	30 005 191	Top5 Connection module R-L handed
Airfi Refit -Top6 (R)	30 006 111	Top6 Connection module R-handed
Airfi Refit -Top6 (L)	30 006 121	Top6 Connection module L-handed
Airfi Refit -Top7 (R)	30 007 111	Top7 Connection module R-handed
Airfi Refit -Top7 (L)	30 007 121	Top7 Connection module L-handed
Airfi Refit -Top8 (R-L)	30 008 191	Top8 Connection module R-L-handed
Airfi Refit -Top9 (R-L)	30 009 191	Top9 Connection module R-L-handed

Unit body

Model	Code	
Airfi Refit 10 (R)	10 910 011	Unit body (R)
Airfi Refit 10 (L)	10 910 021	Unit body (L)

Compatibility tables

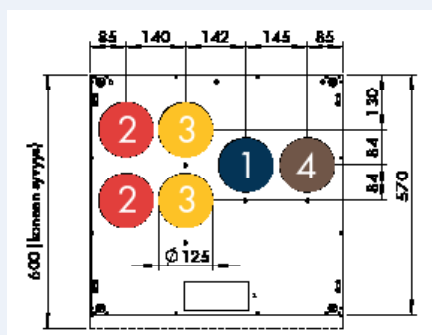
Airfi solutions for use in place of existing air handling unit models from other manufacturers. First select the connection module (Top). The unit body is determined by the handedness.

Airfi Refit Top1 (R)

30 001 111

+ Airfi Refit 10 (R) unit body

10 910 011

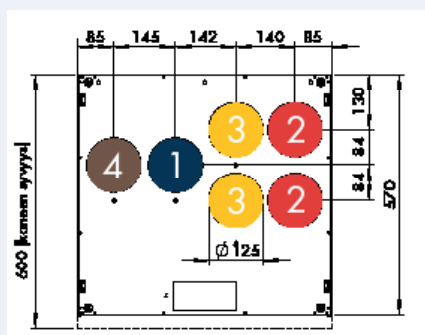


Airfi Refit Top1 (L)

30 001 121

+ Airfi Refit 10 (L) unit body

10 910 021



Duct connections in the same positions

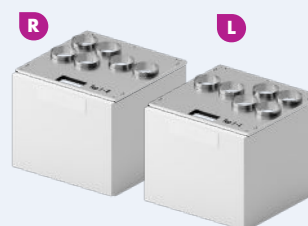
Model	Type number
MUH Ilmava	3461, B3461
MUH Ilmava OK	3462, B3462
MUH Ilmava VKL	3463, B3463
MUH Ilmava VKL OK	3464, B3464
MUH Ilmava 100	B3461, C3461
MUH Ilmava 100 OK	B3462, C3462
MUH Ilmava 100 VKL	B3463, C3463
MUH Ilmava 100 VKL OK	B3464, C3464
MUH Ilmava 120	B3461, B3462, B3463, B3464, C3461, C3462, C3463, C3464
MUH Ilmava 120 VKL	B3461, B3462, B3463, B3464, C3461, C3462, C3463, C3464
Vallox 121 MC	3561
Vallox 121 SE	3560, A3560

Minor changes to duct connections

Model
Onnline 100
Onnline 120
Deekax Talteri DIVK 290 Asennussarja 2
Deekax Talteri DIVK 290 DEM Asennussarja 3
Ilto 300
Ilto 350
Ilto 400
Haato LTO 11
Haato LTO 21
Haato LTO 25

More extensive changes to duct connections

Model
Deekax Talteri DIVK 280 (vm 1994–2002)
Deekax Talteri DIVK 290 Asennussarja 1
Deekax Talteri DIVK 290 DEM Asennussarja 1
Deekax Talteri DIVK 400
Parmair ExSO
Parmair ExVO
Parmair ExS kt
Parmair ExV kt



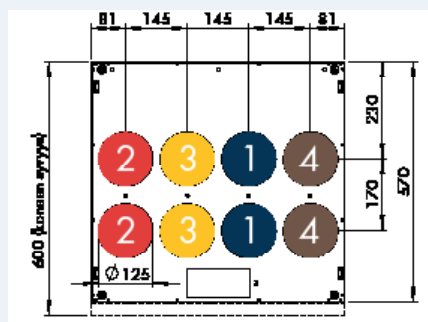
● Outdoor air (1) ● Supply air (2) ● Extract air (3) ● Exhaust air (4)

Airfi Refit Top2 (R-L)

30 002 191

+ Airfi Refit 10 (R) unit body

10 910 011

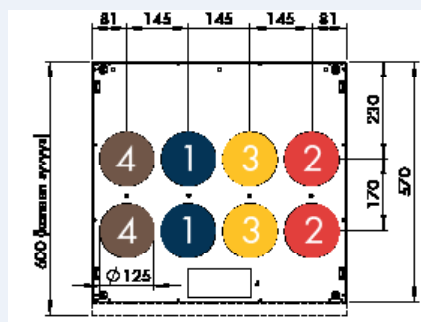


Airfi Refit Top2 (R-L)

30 002 191

+ Airfi Refit 10 (L) unit body

10 910 021



Duct connections in the same positions

Model	Type number	Model	Type number
Ilmava Digit	3465	Ilmava Digit S VKL	3465 S
Ilmava Digit VKL	3465	Ilmava 130	3465
Ilmava Digit S	3465 S	Ilmava 130 VKL	3465

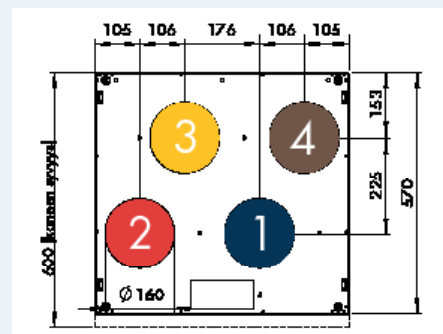


Airfi Refit Top3 (R-L)

30 003 191

+ Airfi Refit 10 (R) unit body

10 910 011

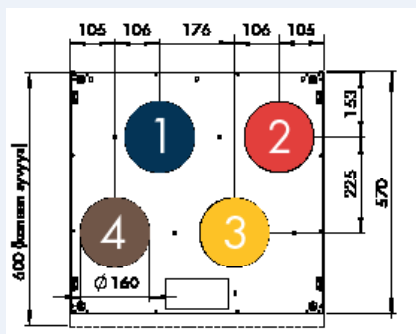


Airfi Refit Top3 (R-L)

30 003 191

+ Airfi Refit 10 (L) unit body

10 910 021

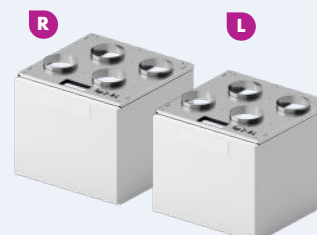


Duct connections in the same positions

Model	Type number
Vallox Digit SE	3500 SE, A 3500 SE, B 3500 SE
Vallox 130 E	3500 E
Uponor Vent SE	3500 SE, A 3500 SE, B 3500 SE

Minor changes to duct connections

Model
Mer-Air 21C



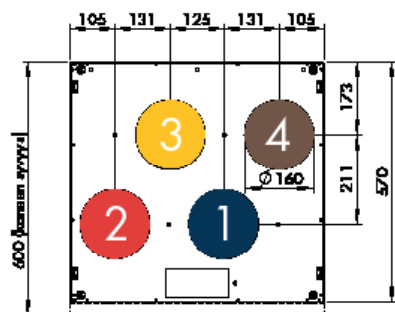
● Outdoor air (1) ● Supply air (2) ● Extract air (3) ● Exhaust air (4)

Airfi Refit Top4 (R-L)

30 004 191

+ Airfi Refit 10 (R) unit body

10 910 011



Duct connections in the same positions

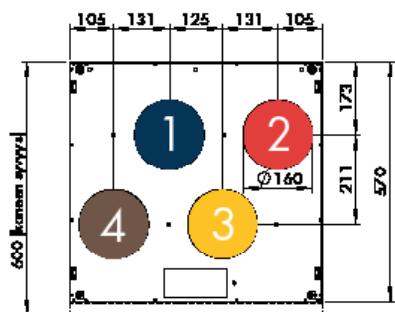
Model	Type number
Vallox Digit2 SE	3500 SE, A 3500 SE, B 3500 SE
Vallox Digit2 SE VKL	3500 E
Vallox Digit2 SE MLV	3500 SE, A 3500 SE, B 3500 SE
Vallox Digit2 SE MLV VKL	
Vallox 132 E	
Vallox 132 E VKL	

Airfi Refit Top4 (R-L)

30 004 191

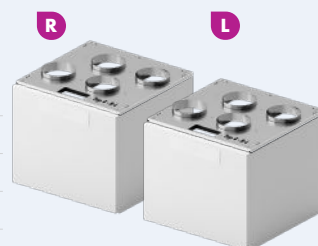
+ Airfi Refit 10 (L) unit body

10 910 021



Minor changes to duct connections

Model
Deekax Talteri DIVK 430
Deekax Talteri DIVK 435
Deekax Talteri DIVK 440

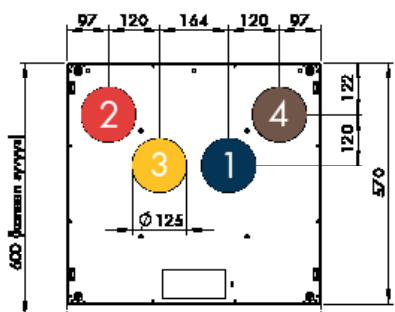


Airfi Refit Top5 (R-L)

30 005 191

+ Airfi Refit 10 (R) unit body

10 910 011



Duct connections in the same positions

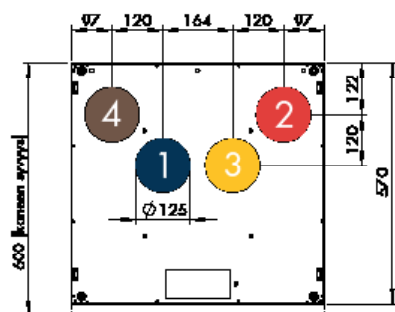
Model	Type nr	Model	Type nr
Vallox 75	3510	Vallox 95 Silent	3510
Vallox 75 Silent	3510	Vallox 95 EC	3512
Vallox 95	3510	Vallox 95 EC VKL	3512

Airfi Refit Top5 (R-L)

30 005 191

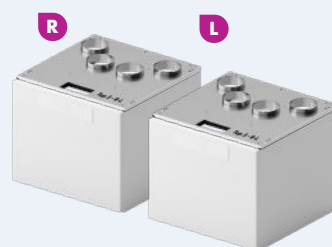
+ Airfi Refit 10 (L) unit body

10 910 021



Minor changes to duct connections

Model
Online 105



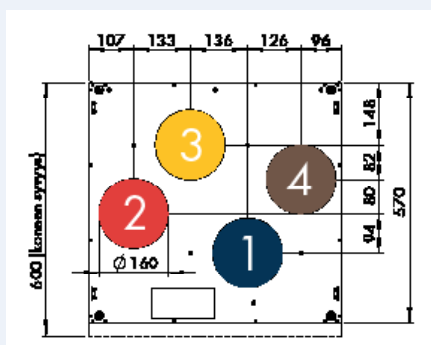
● Outdoor air (1) ● Supply air (2) ● Extract air (3) ● Exhaust air (4)

Airfi Refit Top6 (R)

30 006 111

+ Airfi Refit 10 (R) unit body

10 910 011



Duct connections in the same positions

Model

Ilto 430

Ilto 440 Control

Ilto 440 Premium

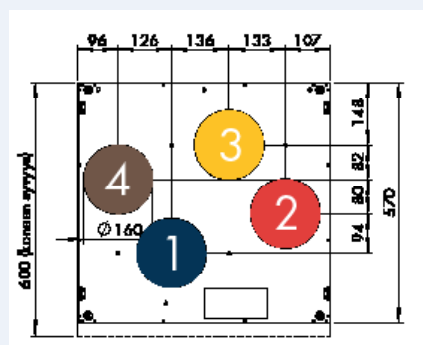
Online 130

Airfi Refit Top6 (L)

30 006 121

+ Airfi Refit 10 (L) unit body

10 910 021



R

L

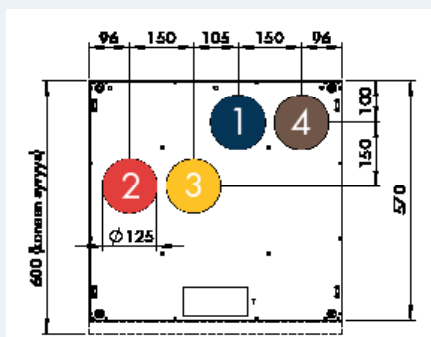


Airfi Refit Top7 (R)

30 007 111

+ Airfi Refit 10 (R) unit body

10 910 011



Duct connections
in the same positions

Model

Ilto 270

Ilto 280

Ilto 290

Minor changes to
duct connections

Model

Ilto 250

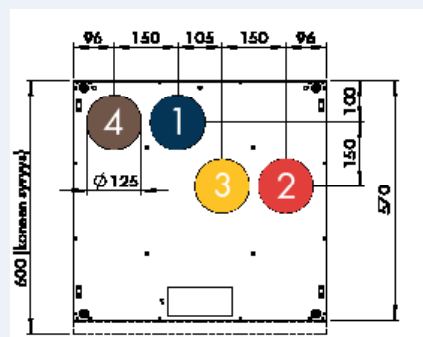
Ilto 260

Airfi Refit Top7 (L)

30 007 121

+ Airfi Refit 10 (L) unit body

10 910 021



R

L



● Outdoor air (1) ● Supply air (2) ● Extract air (3) ● Exhaust air (4)

Airfi Refit Top8 (R-L)

30 008 191

+ Airfi Refit 10 (R) unit body

10 910 011



Duct connections in the same positions

Model

Ilox 97

Ilox Mosaik

Ilox 99

Ilox 99 Optima

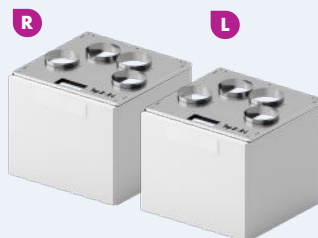
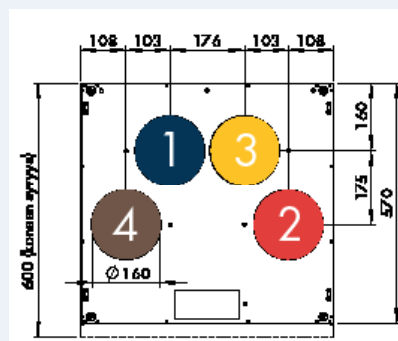
Can't find your
current model?
Contact: info@airfi.fi.

Airfi Refit Top8 (R-L)

30 008 191

+ Airfi Refit 10 (L) unit body

10 910 021

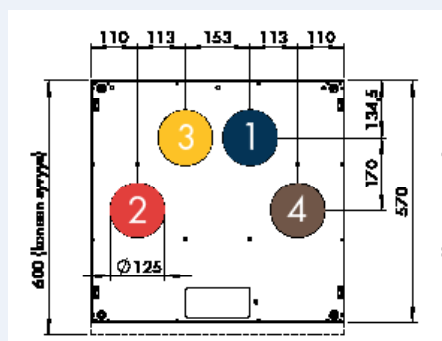


Airfi Refit Top9 (R-L)

30 009 191

+ Airfi Refit 10 (R) unit body

10 910 011



Duct connections in the same positions

Model

Ilox 77

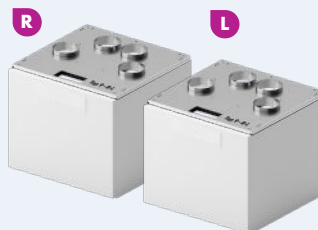
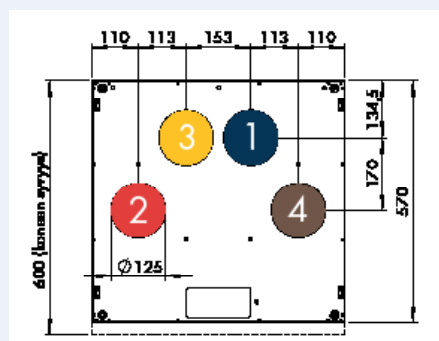
Ilox 77 EC

Airfi Refit Top9 (R-L)

30 009 191

+ Airfi Refit 10 (L) unit body

10 910 021



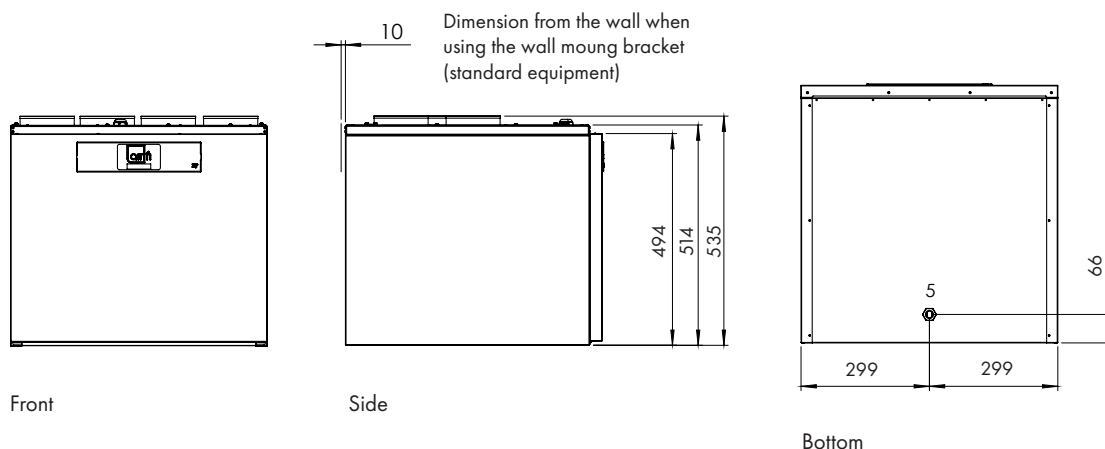
● Outdoor air (1) ● Supply air (2) ● Extract air (3) ● Exhaust air (4)

Airfi Refit (R&L) technical specifications

Dimensions (width x height x depth) with the connection module	598 x 514 x 600 mm
Weight	55 kg
Duct outlets	125 / 160 (according to the selection)
Condensate fitting	Centre 66 mm from rear edge
Condensation water tray	Tilted condensation water tray
Max. extract air flow rate (100 Pa)	403 m ³ /h
Max. supply air flow rate (100 Pa)	396 m ³ /h
Specific energy consumption (SEC) in a cold climate	A+
Specific energy consumption (SEC) in an average climate	A
Annual heat recovery efficiency class of exhaust air heat recovery	A+/A
Air handling unit's specific electrical power class at rated air flow	A
Electricity	230 V, 50 Hz, 6,9 A, max. 1590 W: Plug
Apartment size max m ² *	200 m ²
Summer/winter function	
Automatic, adjustable	Standard equipment
Defrosting automation	
Continuous supply air , AFPS	Standard equipment

Post heater	
	1250 W (electricity)
Equipment	
Ceiling mount bracket	Standard equipment
Wall mount bracket	Standard equipment
Floor stand	Accessory
Humidity transmitter (internal)	Standard equipment
Humidity transmitter (external)	Accessory
Carbon-dioxide transmitter (internal)	Standard equipment
Carbon-dioxide transmitter (external)	Accessory
Cooling radiators	Accessory
Filter guard	Accessory
Constant pressure control	Accessory
Spring return damper	Accessory
Airfi KNX adapter	Accessory
Controller options (controllers as accessory)	
Uno, Sento, Mille-Wire, Mille-Wifi	Standard equipment
Control hoods	Standard equipment
VAK, DDC, 10VDC, Transmitter controls Modbus RTU/TCP, Ethernet	Standard equipment

*Implementation according to designer's ventilation plan.



Total height with the connection module 514 mm

Our sales team



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A pioneer in ventilation

Airfi is a Finnish ventilation company that develops and manufactures intelligent air handling units and cooker hoods. Product development focuses on energy efficiency, reliability and user-friendliness. Airfi innovations include the patented, self-learning AFPS™ frost protection system. Airfi is Finland's largest fully Finnish-owned manufacturer of compact air handling units. All Airfi products are developed and manufactured at the company's factory in Raisio, Finland.

Airfi.eu



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