

ASPIRCOMFORT CLASS H WI-FI

SINGLE ROOM HEAT RECOVERY VENTILATION UNIT

- For commercial applications, schools, offices
- Very high recovery efficiency >90%
- Horizontal installation
- Wi-Fi wall control unit
(code 1591008 - supplied separately)



ASPIRCOMFORT CLASS is a fan unit complete with heat recovery unit dedicated to air renewal without wasting energy. The unit is particularly suitable for single rooms where ducted systems are not possible. Thanks to its construction features and components, ASPIRCOMFORT CLASS H WI-FI is able to reach recovery efficiency of more than 90%.

In the winter and summer seasons there is considerable energy recovery of the renewal air introduced into the room.

FEATURES

- Self-supporting sheet metal frame with polyethylene insulated interior.
- Polypropylene high efficiency cross flow counter current exchanger. Low freezing temperatures and operation down to -25°.
- Brushless forward curved centrifugal fans with electronic motor and modulating control. Very high efficiency and low noise levels.
- ePM1 70% filters with low head loss. Easily removable by removing the lower outer panels.
- Free cooling inside the unit with generous air flow and damper with motorised actuator.
- Management of 3 fan speeds + Auto.
- WI-FI control unit with the possibility of management via App, equipped with sensors for monitoring temperature, relative humidity (RH%), volatile organic compound (VOC) concentration and carbon dioxide (CO₂) concentration. Mandatory for operation (supplied separately).
- The unit is equipped with a power cable with Shuko plug.

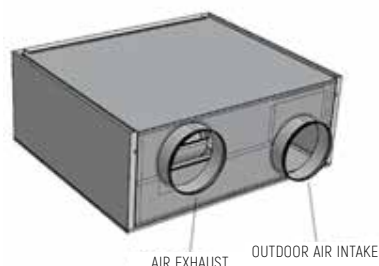
UNIT ORDERING CODES

Code	Model	Description
AP20048W	ASPIRCOMFORT CLASS 620H WI-FI	Heat recovery unit for horizontal installation with max. air flow rate of up to 620 m ³ /h with Wi-Fi control
AP200481W	ASPIRCOMFORT CLASS 1200H WI-FI	Heat recovery unit for horizontal installation with max. air flow rate of up to 1150 m ³ /h with Wi-Fi control
1591008		Wi-Fi control unit (to be ordered separately)

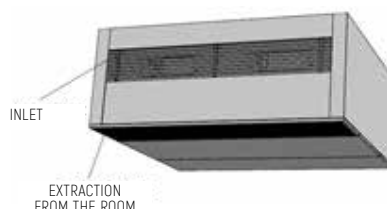
UNIT CONFIGURATION

Code	Maximum air flow rate	Installation
AP20048W	Up to 620 m ³ /h	horizontal
AP200481W	Up to 1150 m ³ /h	horizontal

■ REAR VIEW



■ FRONT VIEW

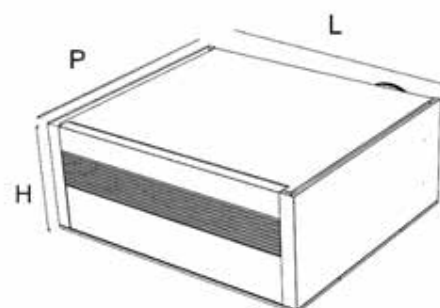


CERTIFICATIONS

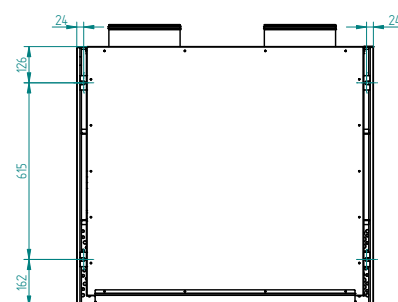
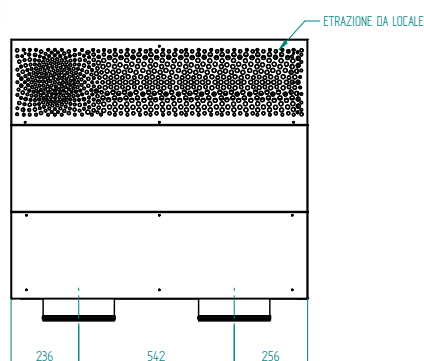
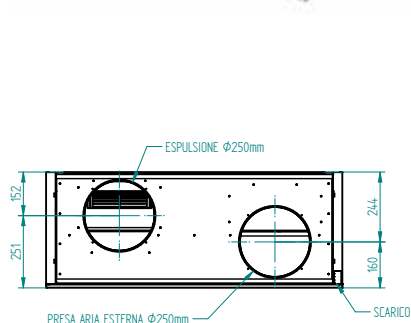
The CE marking (on each machine) certifies conformity with the following Community standards:

- Low Voltage Directive 2014/35/EC
- Electromagnetic Compatibility Directive 2014/30/EC
- Ecodesign 2009/125/EC

DIMENSIONS AND FUNCTIONAL SPACES



		AP20048W	AP200481W
Width L	mm	1040	1433
Depth D	mm	904	904
Height H	mm	403	403
Diameter DN	Ø	250	250
Weight	Kg	71	88
Condensation	Ø	20	20



ACCESSORIES

- 2 connections Ø 250 mm
- Insulated pad
- 2 fixed grids Ø 250 mm for outside wall
- Pre-wired 10 m cable for connecting Wi-Fi control

TECHNICAL FEATURES

Fans

Type of fans	Centrifugal blades forward directly coupled electronic motor - 0/10 V signal	
Number of fans	No	2+1
Air flow rate V3/V2/V1	m3/h	620 / 355 / 165
Useful pressure	Pa	15

Heat exchanger

Type of exchanger	Countercurrent plates – polypropylene material	
Number of exchangers	No	2
Recovery efficiency EN13141-7	%	86.1
Recovery efficiency EN308	%	91.8

[Data according to EN 13141-7 Indoor temp. 20° - Indoor humidity 28% - Outdoor temp. 7° - Outdoor humidity 72%]

Filters

Type of filters	Pleated filters	
Filtration class	ePM1 70	

Acoustic data

Sound power Lw transmitted by the structure	dB(A)	59
Sound pressure at 3 m V1 (low)	dB(A)	33
Sound pressure at 3 m V2 (average)	dB(A)	36
Sound pressure at 3 m V3 (high)	dB(A)	41
Sound pressure at 4 m V1 (low)	dB(A)	30.5
Sound pressure at 4 m V2 (average)	dB(A)	33.5
Sound pressure at 4 m V3 (high)	dB(A)	38.5

[Data according to UNI EN 3741 and UNI EN 3744]

Electrical Data

Supply voltage	V	230 / 1 / 50 Hz.
Absorbed current	A	3.5
Power consumption	W	340
Protection rating	IP	X0
Power consumption V3 with 15Pa pressure and clean filters	W	165

Dimensions

Width	mm	1040
Depth	mm	905
Height	mm	405
Diameter Connections	mm	250
Condensation discharge	mm	20

TECHNICAL FEATURES

Fans

Type of fans	Centrifugal blades forward directly coupled electronic motor - 0/10 V signal	
Number of fans	No	3+2
Air flow rate V3/V2/V1	m3/h	1150 / 750 / 255
Useful pressure	Pa	15

Heat exchanger

Type of exchanger	Countercurrent plates – polypropylene material	
Number of exchangers	No	2
Recovery efficiency EN13141-7	%	84,9
Recovery efficiency EN305	%	90,4

[Data according to UNI EN 13141-7 Indoor temp. 20° - Indoor humidity 28% - Outdoor temp. 7° - Outdoor humidity 72%]

Enthalpy heat exchanger

Type of exchanger	Countercurrent plates – polypropylene material	
Number of exchangers	No	2
Air flow rate V3/V2/V1	m3/h	1150
Recovery efficiency EN13141-7	%	74,0% Sensibile; 60% Entalpico

[Data according to UNI EN 13141-7 Indoor temp. 20° - Indoor humidity 28% - Outdoor temp. 7° - Outdoor humidity 72%]

Filters

Type of filters	Pleated filters	
Filtration class	ePM1 70	

Acoustic data

Sound power Lw transmitted by the structure	dB(A)	62
Sound pressure at 3 m V1 (low)	dB(A)	34
Sound pressure at 3 m V2 (average)	dB(A)	37
Sound pressure at 3 m V3 (high)	dB(A)	43

[Data according to UNI EN 3741 and UNI EN 3744]

Electrical Data

Supply voltage	V	230 / 1 / 50 Hz.
Absorbed current	A	3.5
Power consumption	W	340
Maximum absorbed power with electric heater	kW	2,12
Absorbed current with electric heater	A	11,3
Power consumption V3 with 15Pa pressure and clean filters	W	165
Protection rating	IP	X0

Dimensions

Width	mm	1033
Depth	mm	413
Height (with feet)	mm	928
Connections Diameter (DN)	mm	250
Condensation discharge	mm	20

ADJUSTMENT (Mandatory)

1591008 - CONTROL UNIT FOR ASPIRCOMFORT CLASS WI-FI

- Smart Touch
- Management of 3 fan speeds + Auto
- WI-FI control unit and App
- On-board sensors for temperature monitoring, relative humidity (RH%), volatile organic compound (VOC) concentration and carbon dioxide (CO₂) concentration
- Season setting
- Temperature set point

NOTE: supplied separately.

SPECIFICATIONS

Very high efficiency, decentralised heat recovery fan unit, with compact dimensions for ceiling installation.

Specific unit for commercial applications, schools, offices.

Tested and classified according to the European Ecodesign Regulation 2009/125/EC

Remote control panel with WIFI and APP, to be purchased separately.

CONSTRUCTION FEATURES

Self-supporting sheet metal frame with polyethylene insulated interior.

Polypropylene very high efficiency cross flow counter current exchanger with recovery efficiencies of more than 90%.

Brushless forward curved centrifugal fans with electronic motor and modulating control. Very high efficiency and low noise levels.

ePM1 70% filters with low head loss.

Free cooling inside the unit with generous air flow and damper with motorised actuator.

Compact dimensions for simplified installation with easily accessible bottom panel for maintenance and serviceability.

160 mm diameter circular inlets with sealing gasket for easy installation.

Quick filter inspection and double discharge for condensation evacuation with trap supplied.

ECODESIGN AP20048W ERP DATA

A	Supplier's name or trademark		Fantini Cosmi
B	Model identifier		Aspircomfort Class 620H WI-FI
C	Declared type		UVNR
D	Type of drive installed		Variable speed
E	Heat recovery system		Recovery
F	Thermal efficiency of heat recovery	%	86.1
H	Nominal flow rate	M3/s	0.172
I	SPF int	W / (m3/s)	634
J	Frontal speed	M/s	1.19
K	External pressure rating (Dps , ext)	Pa	15
L	Internal pressure drop (Dps , int)	Pa	194
M	Internal pressure drop	Pa	/
N	to components outside the ventilation (Dps , int)	%	31
O	Fan static efficiency as per	%	2.5 ext / 2.9 int
P	Energy classification of filters		F7/F7
Q	Position and description of the filter signal		Displayed on the control panel
R	Sound power level	Lwa	59
S	Internet address disassembly instructions		www.fantinicosmi.it

ECODESIGN AP200481W ERP DATA

A	Supplier's name or trademark		Fantini Cosmi
B	Model identifier		ASPIRCOMFORT CLASS 1150H WI-FI
C	Declared type		UVNR
D	Type of drive installed		Variable speed
E	Heat recovery system		Recovery
F	Thermal efficiency of heat recovery	%	85.3
H	Nominal flow rate	M3/s	0.313
I	SPF int	W / (m3/s)	651
J	Frontal speed	M/s	1.21
K	External pressure rating (Dps , ext)	Pa	15
L	Internal pressure drop (Dps , int)	Pa	199
M	Internal pressure drop	Pa	/
N	to components outside the ventilation (Dps , int)	%	37
O	Fan static efficiency as per	%	2.1 ext / 2.5 int
P	Energy classification of filters		F7/F7
Q	Position and description of the filter signal		Displayed on control panel
R	Sound power level	Lwa	57
S	Internet address disassembly instructions		www.fantinicosmi.it