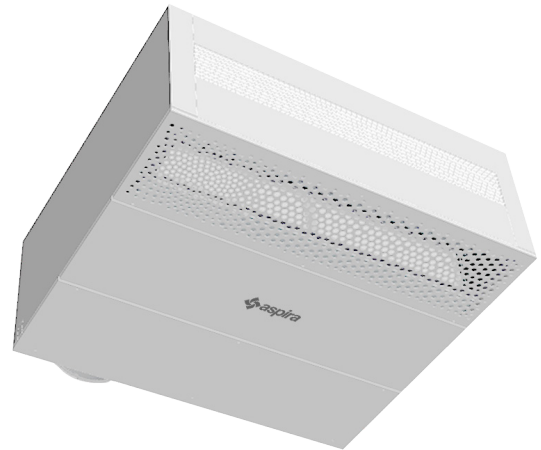


ASPIRCOMFORT CLASS 620H

DECENTRALISED VMC UNIT WITH HEAT RECOVERY

- For commercial applications, schools, offices
- Very high recovery efficiency >90%
- Horizontal installation
- CH193VMC remote panel



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 620H 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.

SPECIFICATIONS

- Self-supporting sheet metal frame with polyethylene insulated interior.
- Very high efficiency polypropylene 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.
- Control of 4 fan speeds, antifreeze, automatic bypass, temperature probes, post-heating coils and automatic dirty filter signal.
- CH193VMC control panel mandatory for unit operation.

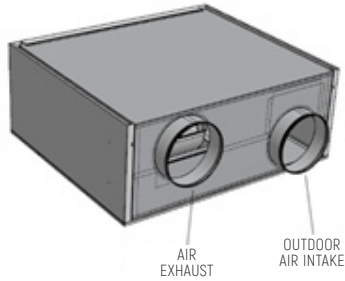
UNIT ORDER CODES

Code	Model	Description
AP20048	Aspiricomfort Class 620H	Heat recovery unit, for horizontal installation with max. flow rate 620 m3/h
CH193VMC		Touch screen remote control (ordered separately)

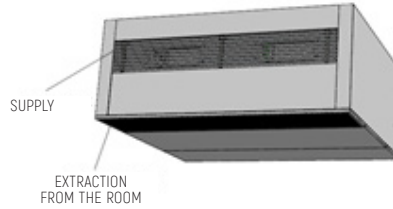
UNIT CONFIGURATION

Code	Maximum flow rate	Installation
AP20048	Up to 620 m ³ /h	horizontal

■ REAR VIEW



■ FRONT VIEW

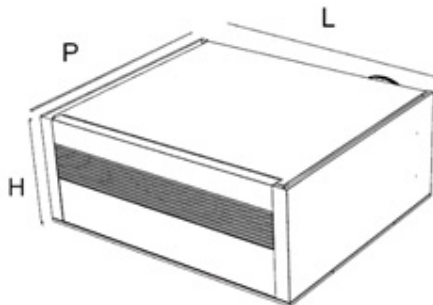


CERTIFICATIONS

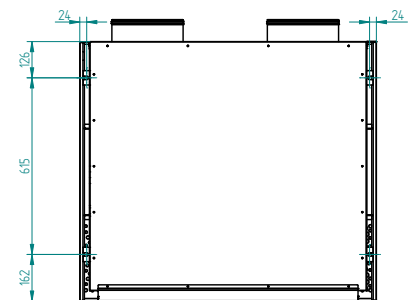
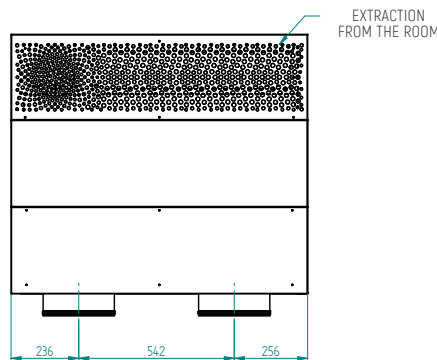
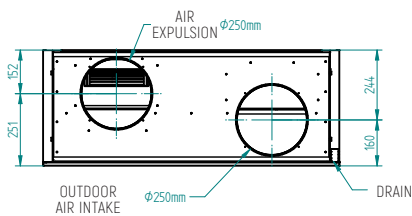
The CE marking (applied on each machine) certifies compliance with the following Community standards:

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

DIMENSIONS AND FUNCTIONAL SPACES



Width L	mm	1040
Depth P	mm	905
Height H	mm	405
Diameter DN	Ø	250
Weight	Kg	71
Condensation	Ø	20



ACCESSORIES SUPPLIED

- No. 2 connections Ø 250 mm
- Insulated mattress
- No. 2 fixed grids Ø 250 mm for external walls
- Pre-wired 10 m cable for connecting remote panel CH193VMC

TECHNICAL FEATURES

Fans

Type of Fans	Centrifugal blades forward directly-coupled electronic motor - 0/10 V signal	
Number of Fans	Nr.	2+1
Air flow rate V3/V2/V1	m3/h	620 / 355 / 165
Useful pressure	Pa	15

Heat exchanger

Type of exchanger	Counter current plates - polypropylene	
Number of Exchangers	Nr.	2
Recovery efficiency EN13141-7	%	86.1
Recovery efficiency EN308	%	91.8

[Data referring 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 generated 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 referring to standard UNI EN 3741 and UNI EN 3744]

Electrical Data

Power supply voltage	V	230 / 1 / 50 Hz.
Absorbed current	A	3,5
Power input	W	340
Protection rating	IP	X0
Power consumption V3 with 15Pa pressure and clean filters	W	165

Dimensional

Width	mm	1040
Depth	mm	905
Height	mm	405
Connection diameter	mm	250
Condensate Discharge	mm	20

ADJUSTMENT (Mandatory)

CH193VMC - REMOTE CONTROL



Semi-recessed touch screen remote control for installation on 503 box;

Speed control and operating modes;

Equipped with temperature, relative humidity and air quality sensor for automatic control of VMC speed. Manual control of the by-pass.

SPECIFICATION ITEM

Fan unit with very high output heat recovery, decentralised, compact dimensions for ceiling or wall installation. Specific unit for commercial applications, schools, offices.

Tested and classified according to Ecodesign European regulation 2009/125EC

CONSTRUCTION FEATURES

Self-supporting sheet metal frame with polyethylene insulated interior.

Very high efficiency polypropylene cross flow counter current heat exchanger with recovery efficiencies of over 90%.

Forward-bladed centrifugal fans with Brushless motors and electronic modulating speed control. Very high efficiency and low noise levels.

Low head loss ePM1 70% class filters.

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

Compact dimensions for straight forward installation with easily accessible lower panel for maintenance and inspection.

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

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

REMOTE CONTROL

Ultra-flat remote panel with glass LCD touchscreen display with negative backlighting. Equipped with temperature, relative humidity and VOC sensors for the control and management of ventilation systems through VMC (Fantini Cosmi models code AP20048-AP20050-AP20052-AP20054- AP20056- AP20058- AP20060- AP20062- AP20064- AP20066); ModBus RTU master communication with the VMC; power supply 9-24Vdc @ 150mA. 6 multifunction buttons for: VMC fan control; manual mode, automatic mode (settable on different weekly profiles per day, 3 speeds + boost + off), OFF; Automatic modulating management of VMC speed via RH or VOC sensors; VMC flow rate setting and modification at various speeds; Management of auxiliary heating coil with setting of temperature profiles; management of summer and winter by-bass; Management of dehumidification and integration of heating and cooling for VMC machines that support it; Management of filter changeover; automatic summer/winter changeover; Activation of UVC lamp management. Communication with multi-zone system (Fantini Cosmi Intellicomfort+ model) for integrated control of the VMC with the heating, cooling and dehumidification system to optimise and speed up the achievement of thermo-hygrometric comfort. Auxiliary alarm input management. Display of indoor air quality, temperature, relative humidity and dew point. Room temperature display scale: -50 - +50°C resolution 0.1°C; . Relative humidity display scale: 0 - 100% resolution 1%; Display of intake and exhaust probes in the VMC. Display of total consumption hours on system. Keypad lock with password. Multilingual management settable between IT/EN/FR/DE/RU/ES; Alarm management display; Semi-recessed mounting, installed on 3-module flush-mounted box type 503. RS485 communication interface, Buffer battery; IP30 degree of protection.

Compliant with EN60730-1 standards and second parts. Compliant with Directive 2014/30/EU (EMC) and Directive 2014/35/EU (LVD).