VMC

SMART MEV / VMC
(MECHANICAL VENTILATION SYSTEMS)
ALSO CONTROLLING AIR QUALITY

25 - 475 m³/h

650 - 8500 m³/h

FantiniCosmi
Industrie

WHY VENTILATE

Air renewal, prevents mould and humidity and saves on heating and cooling costs!

Recent regulatory provisions and the consequent progress in construction materials and techniques have drastically reduced the energy demand of buildings.

The side effect of this important breakthrough is the complete absence of natural ventilation which, if not appropriately compensated with a mechanical ventilation system, makes any building/environment unhealthy within a few hours after moving in.

Installing a CONTROLLED MECHANICAL VENTILATION SYSTEM WITH HEAT RECOVERY ensures constant air renewal in the environments, at the same time extracting stale and contaminated air, over 90% of the thermal energy of which is reused to preheat the fresh air.

This way the presence of a CMV system guarantees healthy environments throughout the day, with the lowest possible energy costs, thanks to the clean/filtered air and regulation humidity levels, conditions which prevent the formation of mould and the onset of pathologies owing to living in unhealthy environments.

A VALID COUNTERMEASURE AGAINST EPIDEMICS

Air renewal in the environments is one of the countermeasures recommended by the ISS - Istituto Superiore di Sanità (Italian National Institute of Health) to reduce the likelihood of contagion from COVID-19. A recent report stated that all confined spaces where people live should be provided with an adequate air renewal.

Indoor pollution can be up to 5 times higher* than outdoor pollution

* Source: SOCIETÀ ITALIANA DI MEDICINA AMBIENTALE

MULTIFUNCTION **INTEGRATED CONTROL**

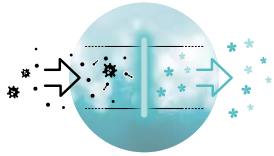
The mechanical ventilation system is managed by the environment control device CH193VMC, which allows the installer to set the functional parameters necessary to activate the system and to schedule the weekly ventilation program.
In daily operation, the device shows the user the current operating mode, any warnings to control/change filters and, by means of the fitted sensors, indicates the air quality level.

CH193VMC
Centralised control unit for mechanical ventilation systems

INDOOR AIR QUALITY SENSORS

The Indoor Air Quality (IAQ) depends on several factors which can be objectively detected thanks to available technologies.
In Aspira ventilation systems, temperature, relative humidity (RH%) and concentration of volatile organic compounds (VOC) are constantly monitored by the sensors of the environment control device CH193VMC which, based on the values detected, adjust the fresh air flow rate according to real needs.

SANITISATION IN PIPELINE



To make the environments even healthier, a sanitisation box can be installed "in-line", on the fresh air delivery pipe, with UV-C ultraviolet lamps with their universally renowned germicidal effectiveness.
There are four box models available containing one or more germicidal lamps to be used depending on the flow rate of the air to be processed. They sanitise the air in a safe and silent way.

UNITS WITH **DEHUMIDIFICATION** AND **INTEGRATION**

Some plant engineering solutions, in addition to ventilation with heat recovery, require special functions provided by the Aspircomfort "PRO dH" series units, regarding **dehumidification and cooling integration in radiant systems** and by Aspircomfort "PRO iH" series units, regarding **integration for heating/cooling of high energy efficiency apartments**.

ENTHALPIC HEAT EXCHANGER

All ventilation units are equipped with sensitive counter current heat exchangers, as these are highly recommended for the type of climate in our country. Nonetheless the enthalpic heat recovery unit is available for various units (except for Aspirlight BP and Aspircomfort models).

OUTDOOR RECESSED INSTALLATION

Space is normally hard to come by in new buildings. Therefore being able to install the ventilation unit outdoors means meeting one of the customer's primary needs. Now the recessed/wall-mounted Aspirlight 140HV and Aspirlight 200HV units can be installed outdoors thanks to the **Cabinet kit** AP20375 and to the **Outdoor air grille kit** AP20376 which adequately insulate the entire structure.

The cabinet kit includes the delivery/return plenum with fittings to connect the six delivery pipes and six return pipes. This greatly simplifies installation, drastically reducing time and ensuing costs.

SMART MEV / VMC

Thanks to the integrated sensors and the Artificial Intelligence, the ECOCOMFORT 2.0 SMART single room heat recovery unit constantly monitors the indoor air quality and is able to **act autonomously** for an optimal comfort without waste of energy.

Its multi-connectivity system is integrated in the *Intelliclima+* app, a real "hub" where it is possible to set all the Fantini Cosmi programmable thermostats installed in the house, in order to facilitate the home comfort management, as an "integrated" Smart Home System.

Thanks to the Intelliclima+ app, the unit can be controlled at any time and from anywhere, being also compatible with Google Home™ and Amazon Alexa™ smart speakers.

UNIQUE **INNOVATION**

Choose to live in a purified environment at home, in the office, and wherever you spend your time. **Rhinocomfort** is the fi rst heat recovery fan that sanitises and changes the air that comes in from outside, breaking down the harmful substances present in incoming air, making them harmless. Rhinocomfort guarantees a healthy microclimate in any area, at home or in the offi ce, as it drastically reduces bacteria, breaks down pollutants and prevents the formation of mould.

Rhinocomfort combines the advantages of mechanical ventilation with heat recovery, with the benefits of sanitizing and air purification, disintegrating and not leaving residues of pollutants and bacteria. Rhinocomfort through a natural phenomenon called PHOTOCATALYSIS, disrupts toxic substances and pollutants at the molecular level. A LED light that illuminates the conduit through which the air and the water vapor contained in it passes through, RHINOCOMFORT decomposes the harmful substances present in the introduced air, transforming them into harmless substances.

>99%
BACTERIAL LOAD

>50%
MOULDS AND YEASTS

Certifi ed by the "Laboratorio Chimico Emiliani Giovanni"

>40%
VOC
Volatile Organic Compounds

Certifi ed by the "Laboratorio Analisi Sperimentale"

THE VENTILATION **SYSTEM**

DECENTRALISED MEV / VMC

The **ECOCOMFORT** and **ECOCOMFORT RF** alternate flow MEV/VMC units with heat recovery guarantee continuous environmental air renewal, recovering up to 90% of the heat contained in the expelled air.

ECOCOMFORT RF
Single room heat recovery unit
with radiofrequency remote control

Ø160 up to 50 m²*
Ø100 up to 22 m²*

A ECO design

mm (B x H x P max)	Kg
180 x 180 x 570	4

CODE	MODEL	Ø TUBE	MAX ROOM DIMENSIONS	m³/h max	m³/h *in-out* cycle	SPI W/(m³/h)	dB(A) 1.5 m
MASTER							
AP19981	ECOCOMFORT 160 RF	160 mm	50 m² *	68	34	0.096	38
AP19987	ECOCOMFORT 100 RF	100 mm	22 m² *	30	15	0.22	28
ADDITIONAL FAN UNITS							
AP19982	ECOCOMFORT SAT 160 RF	160 mm	50 m² *	68	34	0.096	38
AP19988	ECOCOMFORT SAT 100 RF	100 mm	22 m² *	30	15	0.22	28

- "Master" unit complete with control unit to which one or more additional ventilation units can be connected for a multiple-room system;
- Diameters Ø100 and Ø160;
- Membrane remote control;
- Simultaneous control of up to 64 fan units;
- Temperature, humidity and brightness sensors when using in automatic mode;
- 4 speeds: minimum, medium, high and night ventilation;
- External expansion grille that can be installed from inside;
- Quick and easy application telescopic tube;
- Flow rectifier for higher performance (160 mm diameter versions);
- Compliant with Reg. (EU) 1254/2014.

* value calculated on: air renewal equal to 0.5 Vol/h and room height 2.70 with one master unit and one slave unit.
Calculation example: room surface x 2.70 metres x 0.5 Vol/h
Increasing the amount of slave units can also increase coverage in m².

ECOCOMFORT
Single room heat recovery unit
with wall-mounted control

Ø160 up to 44 m²*
Ø100 up to 20 m²*

A ECO design

mm (B x H x P max)	Kg
180 x 180 x 570	4

CODE	MODEL	Ø TUBE	MAX ROOM DIMENSIONS	m³/h max	m³/h *in-out* cycle	SPI W/(m³/h)	dB(A) 1.5 m
MASTER							
AP19980	ECOCOMFORT 160	160 mm	44 m² *	60	30	0.07	34
AP19984	ECOCOMFORT 100	100 mm	20 m² *	25	12.5	0.08	24
ADDITIONAL FAN UNITS							
AP19979	ECOCOMFORT SAT 160	160 mm	44 m² *	60	30	0.07	34
AP19985	ECOCOMFORT SAT 100	100 mm	20 m² *	25	12.5	0.08	24

- "Master" unit complete with control unit to which one or more additional ventilation units can be connected for a multiple-room system;
- Diameters Ø100 and Ø160;
- Simultaneous control of up to 4 fan units;
- 3 speeds: maximum and minimum ventilation;
- External expansion grille that can be installed from inside;
- Quick and easy application telescopic tube;
- Flow rectifier for higher performance (160 mm diameter versions);
- Compliant with Reg. (EU) 1254/2014.

* value calculated on: air renewal equal to 0.5 Vol/h and room height 2.70 with one master unit and one slave unit.
Calculation example: room surface x 2.70 metres x 0.5 Vol/h
Increasing the amount of slave units can also increase coverage in m².

RHINOCOMFORT combines the advantages of mechanical ventilation with heat recovery and the **air sanitization**. Thanks to its unique innovation, RHINOCOMFORT breaks down the pollutants present in incoming air, making them harmless.

RHINOCOMFORT
Single room heat recovery unit with **air sanitization**

Ø160 up to 50 m²*

A ECO design

mm (B x H x P max)	Kg
180 x 180 x 570	4

CODE	MODEL	DN Ø TUBE	MAX ROOM DIMENSIONS	m³/h max	m³/h *in-out* cycle	SPI W/(m³/h)	dB(A) 1.5 m
MASTER							
AP19990	RHINOCOMFORT 160 RF	160 mm	50 mq *	68	34	0,096	38
ADDITIONAL FAN UNITS							
AP19991	RHINOCOMFORT SAT 160 RF	160 mm	50 mq *	68	34	0,096	38

ACCESSORIES		
AP19986		Preparation kit
AP19978	FR004	Replacement filter
AP1984	FR007	Replacement filter
AP1612	GAP 150	Rainproof and windproof grille
AP19880	SLF 150	Sound absorbing silencer

- "Master" unit complete with control unit to which one or more additional ventilation units can be connected for a multiple-room system;
- Thanks to the photocatalysis process, it breaks down the noxious substances present in incoming air, making them harmless;
- Ø160 nominal diameter;
- Membrane remote control;
- Simultaneous control of up to 64 fan units;
- Temperature, humidity and brightness sensors when using in automatic mode;
- 4 speeds: min, med, high and night ventilation;
- External expansion grille that can be installed from inside;
- Quick and easy application telescopic tube;
- Flow rectifier for higher performance (160 mm diameter versions);
- Compliant with Reg. (EU) 1254/2014.

* value calculated on: air renewal equal to 0.5 Vol/h and room height 2.70 with one master unit and one slave unit.
Calculation example: room surface x 2.70 metres x 0.5 Vol/h
Increasing the amount of slave units can also increase coverage in m².

Thanks to the integrated sensors and the Artificial Intelligence, the **ECOCOMFORT 2.0 SMART** single room heat recovery unit constantly **monitors the indoor air quality** and is able to act autonomously for an optimal comfort without waste of energy.

ECOCOMFORT 2.0 SMART
Single room heat recovery unit with **smart sensors and remote control by App**

Ø160 up to 36 m²*

A+ ECO design

mm (B x H x P max)	Kg
230 x 250 x 570	4

CODE	MODEL	DN Ø TUBE	MAX ROOM DIMENSIONS	m³/h max	m³/h *in-out* cycle	SPI W/(m³/h)	dB(A) 1.5 m
AP19992	ECOCOMFORT 2.0 SMART	160 mm	36 mq *	48	24	0,12	32,5

ACCESSORIES		
AP1984	FR 007	ISO COARSE replacement filter
AP1985	FR 008	Replacement insulation panel
AP1612	GAP 150	Rainproof and windproof grille
AP19881	SLF 160	External noise reduction kit

- Remote control by App for iOS and Android devices;
- Weekly programmable functioning also compatible with Google Home™ and Amazon Alexa™ smart speakers;
- More additional ventilation units can be connected for a multiple-room system;
- Temperature, humidity, brightness and VOC sensors when using in AUTO SMART SENSOR mode;
- BLE 5.0 and WIFI communication system;
- 4 speeds: min, med, high and night ventilation;
- Facade insulation (D2mnTw) 40dB;
- External expansion grille that can be installed from inside;
- Quick and easy application telescopic tube;
- Removable cover with magnets for easy maintenance and cleaning;
- Compliant with 2009/125/CE Energy Related Products (ERP) - Ecodesign 2018.

* value calculated on: air renewal equal to 0.5 Vol/h and room height 2.70 with one master unit and one slave unit.
Calculation example: room surface x 2.70 metres x 0.5 Vol/h
Increasing the amount of slave units can also increase coverage in m².

CENTRALISED MEV / VMC

An advanced centralised ventilation system that allows the **extraction of stale air from "humid" rooms,** i.e. those with the highest concentration of pollutants, such as kitchens and toilets and simultaneously **introducing fresh air into so-called "noble" rooms**, such as bedrooms and living room.

ASPIRLIGHT BP
Dual flow ventilation unit with high-efficiency heat recovery

210 m³/h

A

Dimensions (L x H x D) mm	Kg
597 x 786 x 280	12.5

CODE	MODEL	m³/h max	m³/h [100 Pa]	SPI W/(m³/h)	dB(A)
AP19802	ASPIRLIGHT BP	210	170	0.264	53

CONTROL DEVICES

AP19972	RDV-M	3-speed manual control (4-wire connection)
AP19969	RDV-RLF	Radio frequency remote control (3 speeds, timer function, filter status LED)
AP19970	RDV-RF	Radio frequency remote control (3 speeds, timer function)
AP19872	SRF-H	Wall-mounted radiofrequency remote control with room RH% detection probe
AP19870	SRF-CO2	Wall-mounted radiofrequency remote control with room CO_2 detection probe

ACCESSORIES

AP20380	UVC-200	UVC sanitisation kit (lamp and power supply) max 200 m³/h
AP20385	UVC-200B	Air flow box + UVC sanitisation kit max 200 m³/h

- Suitable for apartments with a surface up to 130 m²;
- Automatic summer By-pass feature and anti-freeze function
- Cross flow counter current "sensitive" heat exchanger in very high efficiency (> 90%) polyethylene (PE);
- Vertical/horizontal type of installation: wall, false ceiling and floor
- Built-in radio receiver to control unit via remote control and environmental probes (RH% and CO_2) up to a maximum of 20 devices.
- Automatic operation in presence of RH% and/or CO_2 probes
- Filtering: Coarse filters (ISO 16890)
- "Filter cleaning warning" on remote control LED
- Motor life expectancy > 70,000 hours

ASPIRLIGHT HV SERIES
Dual flow ventilation unit with high-efficiency heat recovery

210-230 m³/h

A ASPIRLIGHT 140 HV
B ASPIRLIGHT 200 HV

Dimensions (L x H x D) mm	Kg
580 x 580 x 254	19

CODE	MODEL	m³/h max	m³/h [100 Pa]	SPI W/(m³/h)	dB(A) [1m]	dB(A) [3m]
AP20050	ASPIRLIGHT 140 HV	210	136	0.448	42.1	34.7
AP20052	ASPIRLIGHT 200 HV	230	198	0.468	43.8	36

CONTROL DEVICE

CH193VMC	Multi function LCD panel with temperature, VOC and RH% detection

ACCESSORIES

AP20375	CEX-70	Cabinet kit for outdoor installation
AP20376	GEX-70	Outdoor air grille kit (for AP20375)
AP20377	PAL	Decorative panel
AP20380	UVC-200	UVC sanitisation kit (lamp and power supply) max 200 m³/h
AP20385	UVC-200B	Air flow box + UVC sanitisation kit max 200 m³/h
AP20390	RCH-366/160	Enthalpic heat exchanger for AP20050-AP20052-AP20060-AP20064

- Suitable for apartments with surface up to 100 m² (140HV) and 150m² (200V)
- Automatic "summer by-pass" feature and "anti-freeze" function
- Cross flow counter current "sensitive" heat exchanger in very high efficiency (> 90%) polyethylene (PE)
- Possibility of installation with "enthalpic" heat exchanger
- Vertical/horizontal type of installation: wall, false ceiling
- Motors with built-in "constant flow" control "centrifugal" fans
- Motors life expectancy > 40,000 hours at minimum speed
- "Modbus" line for room control connection
- Multi function LCD room control with built-in RH% and VOC detection, weekly operating time scheduling, filter control warning, etc.
- Filtering: ePM1 efficiency 80%
- Condensate trap supplied
- Decorative panel (optional) for indoor and visible installation
- Insulated cabinet kit (optional) for wall-mounting/ recessed installation, even outdoors

ASPIRCOMFORT

Dual flow ventilation unit with high-efficiency heat recovery

390 m³/h

A

Dimensions (L x H x D) mm	Kg
730 x 848 x 477	25

CODE	MODEL	m³/h max	m³/h [100 Pa]	SPI W/(m³/h)	dB(A)
AP19825	ASPIRCOMFORT	390	350	0.284	52

CONTROL DEVICES

AP19972	RDV-M	3-speed manual control (4-wire connection)
AP19969	RDV-RLF	Radio frequency remote control (3 speeds, timer function, filter status LED)
AP19970	RDV-RF	Radio frequency remote control (3 speeds, timer function)
AP19872	SRF-H	Wall-mounted radiofrequency remote control with room RH% detection probe
AP19870	SRF-CO2	Wall-mounted radiofrequency remote control with room CO_2 detection probe

- Suitable for apartments with a surface up to 240 m²;
- Automatic summer By-pass feature and anti-freeze function
- Cross flow counter current "sensitive" heat exchanger in very high efficiency (> 90%) polyethylene (PE)
- Vertical wall-mounting
- Built-in radio receiver to control unit via remote control and environmental probes (RH% and CO_2)
- Automatic operation in presence of RH% and/or CO_2 probes
- Filtering: Coarse filters (ISO 16890)
- "Filter cleaning warning" on remote control LED
- Motors life expectancy > 70,000 hours

ASPIRCOMFORT SERIES

Dual flow ventilation unit with high-efficiency heat recovery

380 - 520 m³/h

B ASPIRCOMFORT 300 HV

A ASPIRCOMFORT 350 H

A ASPIRCOMFORT 550 V

CODE	Dimensions (L x H x D) mm	Kg
AP20054	902 x 592 x 345	41
AP20056	1350 x 650 x 288	56
AP20058	786 x 751 x 676	65

CODE	MODEL	m³/h max	m³/h [100 Pa]	SPI W/(m³/h)	dB(A) [1m]	dB(A) [3m]
AP20054	ASPIRCOMFORT 300 HV	380	302	0.476	49.5	41.5
AP20056	ASPIRCOMFORT 350 H	440	352	0.379	50.3	42.6
AP20058	ASPIRCOMFORT 550 V	520	472	0.343	51.9	44.4

CONTROL DEVICE

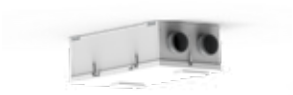
CH193VMC	Multi function LCD panel with temperature, VOC and RH% detection

ACCESSORIES

AP20381	UVC-300	UVC sanitisation kit (lamp and power supply) max 300 m³/h
AP20382	UVC-500	UVC sanitisation kit (lamp and power supply) max 500 m³/h
AP20386	UVC-300B	Air flow box + UVC sanitisation kit max 300 m³/h
AP20387	UVC-500B	Air flow box + UVC sanitisation kit max 500 m³/h
AP20391	RCH-366/270	Enthalpic heat exchanger for AP20054-AP20062-AP20066
AP20392	RCH-232/490	Enthalpic heat exchanger for AP20056
AP20393	RCH-366/400	Enthalpic heat exchanger for AP20058

- Suitable for apartments with surface up to 220 m² (300HV), 250m² (350H) and 350m² (550V)
- Automatic "summer by-pass" feature and "anti-freeze" function
- Cross flow counter current "sensitive" heat exchanger in very high efficiency (> 90%) polyethylene (PE)
- Possibility of installation with "enthalpic" heat exchanger
- Vertical/horizontal type of installation: wall, false ceiling (300HV)
- Horizontal type of installation: false ceiling (350H)
- Vertical type of installation: wall (550V)
- Motors with "forward blade" fans, motor life expectancy > 40.000 hours at minimum speed
- "Modbus" line for room control connection
- Multi function LCD room control with built-in RH% and VOC detection, weekly operating time scheduling, filter control warning, etc.
- Filtering: ePM1 efficiency 80%
- Condensate trap supplied

ASPIRCOMFORT 300 HV
Horizontal/vertical installation

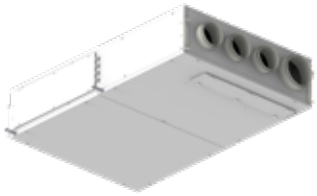


ASPIRCOMFORT 350 H
Horizontal installation

ASPIRCOMFORT 550 V
Vertical installation

MEV / VMC WITH DEHUMIDIFICATION AND INTEGRATION

The **Aspircomfort "PRO dH"** series units are applied for ventilation with heat recovery of rooms with floor radiant heating and cooling systems. In summer mode, these units, in addition to standard air renewal, also dehumidify the air to counter the formation of superficial condensation on the floor, providing even a minimum integration to room cooling.



ASPIRCOMFORT Series PRO dH
Ventilation unit with heat recovery, equipped with cooling circuit consisting of compressor, air evaporation coil and air/water condenser supplied by radiant system.

150 - 250 m³/h

B ASPIRCOMFORT PRO 350dH

A ASPIRCOMFORT PRO 550dH

ECO design

CODE	Dimensions (L x H x D) mm	Kg
AP20060	1220 x 255 x 820	72
AP20062	1220 x 330 x 960	91

CODE	MODEL	TOTAL FLOW RATE m³/h [@100 Pa]	RENEWED AIR FLOW RATE m³/h [@100 Pa]	SPI W/(m³/h)	dB(A) [1m]	dB(A) [3m]
AP20060	ASPIRCOMFORT PRO 350dH	300	150	0.69	48.4	40.7
AP20062	ASPIRCOMFORT PRO 550dH	500	250	0.47	52.7	45

CONTROL DEVICE

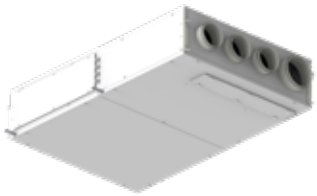
CH193VMC	Multi function LCD panel with temperature, VOC and RH% detection

ACCESSORIES

AP20381	UVC-300	UVC sanitisation kit (lamp and power supply) max 300 m³/h
AP20382	UVC-500	UVC sanitisation kit (lamp and power supply) max 500 m³/h
AP20386	UVC-300B	Air flow box + UVC sanitisation kit max 300 m³/h
AP20387	UVC-500B	Air flow box + UVC sanitisation kit max 500 m³/h
AP20390	RCH-366/160	Enthalpic heat exchanger for AP20050-AP20052-AP20060-AP20064
AP20391	RCH-366/270	Enthalpic heat exchanger for AP20054-AP20062-AP20066

- Suitable for apartments with surface up to 100 m² (350DH) and 150m² (550DH)
- Summer dehumidification function and cooling integration
- Automatic By-pass (Free-cooling, Free-heating) and "anti-freeze" function
- Cross flow counter current "sensitive" heat exchanger in very high efficiency (> 90%) polyethylene (PE)
- Possibility of installation with "enthalpic" heat exchanger
- Horizontal type of installation: false ceiling
- Motors with "centrifugal" fans, motor life expectancy > 40,000 hours
- "Modbus" line for room control connection
- Multi function LCD room control with built-in RH% and VOC detection, weekly operating time scheduling, filter control warning, etc.
- Filtering: ePM1 efficiency 80%
- Recycle filtering: ISO coarse
- Condensate trap supplied

The **Aspircomfort "PRO iH"** series is recommended for applications in buildings with high energy efficiency, where the ventilation unit, in addition to guaranteeing constant air renewal, also meets the thermal/cooling energy demand for the heating/cooling of the entire apartment.



ASPIRCOMFORT Series PRO iH
Ventilation unit with heat recovery, equipped with hydronic coil for dehumidification and heating and cooling integration.

150 - 250 m³/h

B ECO design

CODE	Dimensions (L x H x D) mm	Kg
AP20064	1220 x 255 x 820	74
AP20066	1220 x 330 x 960	89

CODE	MODEL	TOTAL FLOW RATE m³/h [@100 Pa]	RENEWED AIR FLOW RATE m³/h [@100 Pa]	SPI W/(m³/h)	dB(A) [1m]	dB(A) [3m]
AP20064	ASPIRCOMFORT PRO 650iH	600	150	0.781	49.8	42.8
AP20066	ASPIRCOMFORT PRO 950iH	900	250	0.602	53.6	46.2

CONTROL DEVICE

CH193VMC	Multi function LCD panel with temperature, VOC and RH% detection

ACCESSORIES

AP20382	UVC-500	UVC sanitisation kit (lamp and power supply) max 500 m³/h
AP20383	UVC-900	UVC sanitisation kit (lamp and power supply) max 900 m³/h
AP20387	UVC-500B	Air flow box + UVC lamp suitable up to 500 m³/h
AP20388	UVC-900B	Air flow box + UVC lamp suitable up to 900 m³/h
AP20390	RCH-366/160	Enthalpic heat exchanger for AP20050-AP20052-AP20060-AP20064
AP20391	RCH-366/270	Enthalpic heat exchanger for AP20054-AP20062-AP20066

- Suitable for apartments with surface up to 100 m² (350IH) and 150m² (550IH)
- Winter function with heating integration
- Summer function and cooling integration and dehumidification
- Automatic "summer by-pass" and "anti-freeze" function
- Cross flow counter current "sensitive" heat exchanger in very high efficiency (> 90%) polyethylene (PE)
- Possibility of installation with "enthalpic" heat exchanger
- Horizontal type of installation: false ceiling
- Motors with "centrifugal" fans, motor life expectancy > 40,000 hours
- "Modbus" line for room control connection
- Multi function LCD room control with built-in RH% and VOC detection, weekly operating time scheduling, filter control warning, etc.
- Filtering: ePM1 efficiency 80%
- Recycle filtering: ISO coarse
- Condensate trap supplied

MEV / VMC FOR TERTIARY SECTOR

The units of the UVR-HE series are expressly designed for ventilation with heat recovery in small and midsize commercial and tertiary businesses, laboratories, recreation rooms, bars, school rooms, gyms, etc. The UVR-HE series includes 13 different models with nominal flow rates from 600 to 6500 m³/h.

UVR-HE
Dual flow ventilation unit with high-efficiency cross flow heat recovery unit.

230 V~ 50/60HZ - 1Ph

650 - 8500 m³/h

CODE	Dimensions (L x H x D) mm	Kg
AP20071	910 x 380 x 850	55.0
AP20073	1060 x 380 x 1000	64.0
AP20075	1060 x 380 x 1000	80.0
AP20077	1260 x 525 x 1200	110.0
AP20079	1260 x 525 x 1200	124.0
AP20081	1410 x 575 x 1350	161.0
AP20083	1410 x 675 x 1350	178.0
AP20085	1410 x 675 x 1350	188.0
AP20087	1410 x 775 x 1350	215.0
AP20089	1710 x 775 x 1650	302.0
AP20091	1710 x 775 x 1650	302.0
AP20093	2210 x 1100 x 2150	500.0
AP20095	2210 x 1100 x 2150	500.0

CODE	MODEL	m³/h max	Pa max	Flow rate nom. Qnom	Rated output Pnom [W]	Nom absorp. Inom [A]	dB(A) [1m]	dB(A) [3m]
AP20071	UVR 500 MF HE	650	470	620	2x160	2x1,18	51	46
AP20073	UVR 700 MF HE	750	470	720	2x140	2x1,07	51	46
AP20075	UVR 1200 MF HE	1200	600	1120	2x240	2x1,5	51	46
AP20077	UVR 1600 MF HE	1600	750	1580	2x360	2x2,2	59	53
AP20079	UVR 2300 MF HE	2300	500	1780	2x1070	2x4,6	60	55
AP20081	UVR 2800 MF HE	2800	650	2160	2x1070	2x4,6	61	56
AP20083	UVR 3200 MF HE	3200	650	2540	2x1040	2x4,5	62	56
AP20085	UVR 3800 MF HE	3800	800	2760	2x1040	2x4,5	62	56
AP20087	UVR 4500 MF HE	4500	650	2680	2x2200	2x5,6	63	57
AP20089	UVR 5400 MF HE	5400	830	4780	2x2200	2x8,6	64	59
AP20091	UVR 6500 MF HE	6500	1200	4880	2x2310	2x9,4	63	61
AP20093	UVR 7100 MF HE	7100	1100	5140	2x2370	2x9,3	65	62
AP20095	UVR 8500 MF HE	8500	830	6460	2x2380	2x9,8	66	63

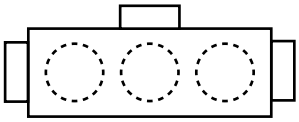
- Ceiling, false ceiling or floor installation;
- Backward blade centrifugal fans (models UVRHE 500, UVR-HE 700, UVR-HE 1200);
- Forward blade centrifugal fans (models from UVRHE 1600 to UVR-HE 8500);
- Equipped with heat exchangers with efficiency ranging from 73% to 88%;
- External structure in galvanised steel sheeting with an expanded polyurethane thermo-acoustic insulating panel with a thickness of 23 mm and a density of 40 kg/m³;
- Complies with Directive 2009/125/EC and Regulation no. 1253/2014 (Eco Design 2018);
- Possibility of progressively adjusting the speed of each fan, independently from the other;
- Two temperature probes, one for delivery air and one for return air;
- Motorised bypass damper controlled both manually and automatically;
- Equipped with pressure switch to control clogging of the delivery filters;
- Control board already set up for connection of a CO^2 or humidity probe (both optional);
- LCD control panel included, 4-wire connection to the Modbus communication interface of the unit.
- The panel allows you to set the daily programs to switch the unit on and off automatically.
- The units are equipped with Modbus RTU RS485 communication interface; with a control device, up to seven units can be managed and controlled.

SYSTEM **COMPONENTS**

DISTRIBUTION AND ADJUSTMENT SYSTEMS

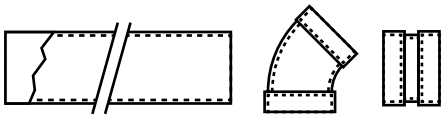
Adjustment and balancing modules

- Fixed control diaphragm
- Adjustable sleeve with quick coupling and damper
- Plenum with built-in regulation



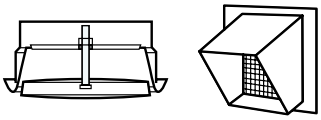
Pipes and fittings

- PPE ducts, corrugated and flexible
- Insulated pipe
- Ø 75 mm, Ø 90 mm, Ø 160 mm elbows and fittings and flat round pipe



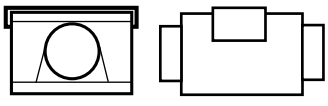
Grilles, vents and diffusers

- Adjustable delivery and return valves
- Outside and inside grilles
- Modular diffuser



Manifolds, plenums and silencers

- Insulated delivery plenum with 3 to 12 inlets
- Modular manifolds
- Silencer modules
- Systems for duct sanitisation (UVC lamp)



DESIGN GUIDE

A team for the support you need

To support the assessment, design, installation and commissioning stages of a controlled mechanical ventilation system, Aspira provides designers and installers with a technical consultancy service aimed at quickly evaluating the feasibility of the project and then defining the technical and economical aspects in detail.

For those approaching this type of system for the first time, Aspira periodically holds training courses aimed at providing useful information regarding the design and installation of the systems but also, above all, to have extensive knowledge of the matter, allowing the entire supply chain to adopt a constructive attitude towards the customer so as to exploit the important opportunities which this sector of the market offers.

For info and support, write us at **export@fantinicosmi.it**

Ask your dealer

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