

VMC



AUTOMATIC EXTRACT UNITS FOR DWELLINGS
AND MULTI-ROOM DOMESTIC BUILDINGS

CJV/EW

- HIGH-EFFICIENCY (IE4) E.C. TECHNOLOGY MOTOR
- CONSTANT PRESSURE CONTROL
- ELECTRONIC VARIABLE SPEED DRIVE (VSD) INCLUDED
- F-400 CERTIFICATION (CJV/EW/T)



CE ACCORDING
ErP 2018





VENTILATION SYSTEMS FOR HOMES

Many countries have regulations that require dwelling places to have good internal air quality, with a supply of fresh outside air and exhaust of stale internal air.

The purpose of these regulations is to ensure that these types of buildings get good ventilation rates to prevent condensation and to contribute towards the health and wellbeing of the occupants.

Better energy performance E.C. Technology

High-performance, high-efficiency motor and control combinations to optimise energy savings.



CONTROLLED MECHANICAL VENTILATION SYSTEM

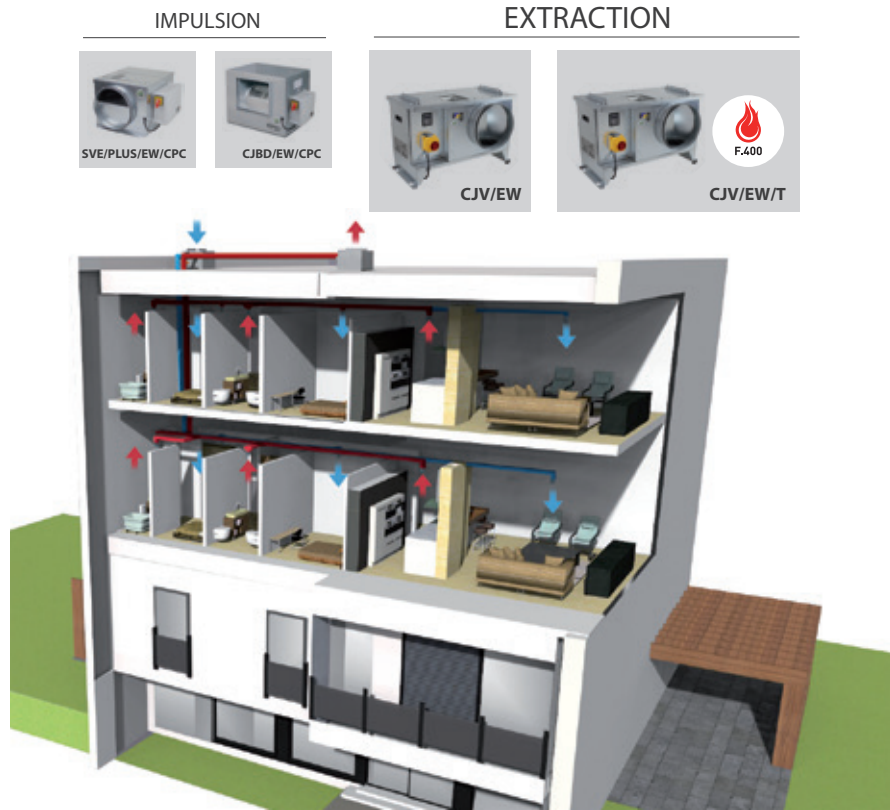
The system uses an electrically driven fan to supply and extract air. Separate fans can be used to supply or extract or alternatively, a centralised system can be used to perform both functions at the same time.

Air intake can be located in rooms such as bedrooms and dining rooms with extract points through

rooms such as kitchens and bathrooms. The system can also accommodate a heat recovery unit, to gather heat from the exhaust air which is then used to warm the supply air coming in from the outside, thus obtaining a significant reduction in energy use.

VMC SOLUTIONS FOR COMMUNAL BUILDINGS

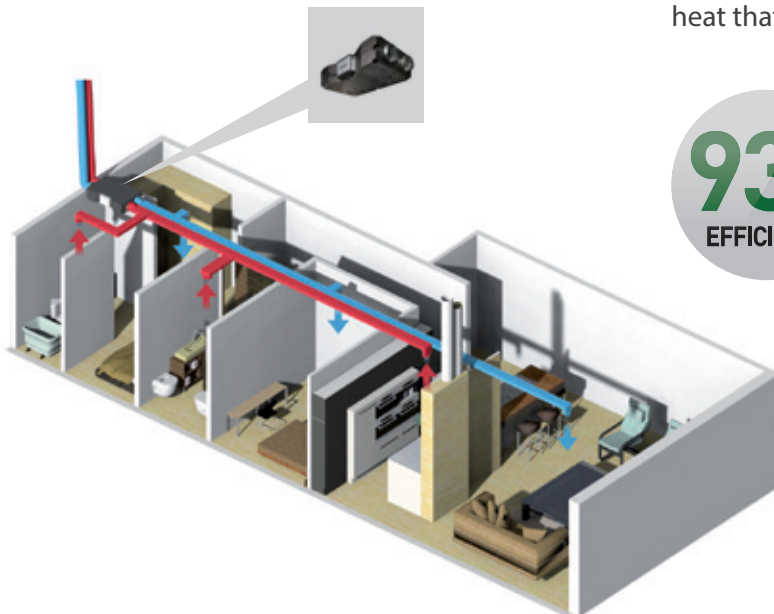
EXTRACTION IN HOMES



The CJV/EW series of fans has been specially designed for controlled mechanical ventilation systems in multi-room or communal buildings.

The CJV/EW model is used to extract the air from bathrooms, kitchens and washrooms. The CJV/EW/T model can also be used as an extract fan and has F-400 certification, making it suitable for smoke extract in the event of a fire.

HEAT RECOVERY UNIT IN HOMES



This system allows each home to use its own dedicated heat recovery unit. With their high efficiency heat exchangers, these units can re-use 93% of the heat that would normally be lost.

93%
EFFICIENCY



VENUS: High-performance heat recovery units for residential buildings or homes. With a low power consumption and heat recovery efficiency of up to 93%. For technical ceiling installation.

CJV/EW



E.C. TECHNOLOGY WITH BUILT-IN VSD



Extraction units with vertical air outlet and E.C. motors to automatically maintain constant pressure for use in domestic VMC systems.



Model CJV/EW-1800/T approved for 400°/2 h



Fan:

- Extractor fan units with vertical outlet and two circular inlets.
- Galvanised sheet steel casing.
- Impeller made of galvanised sheet steel.
- Comes with single-phase speed controller (variable speed drive).

Motor:

- High-efficiency (IE4) synchronous E.C. motors. Fitted with high-intensity neodymium magnets.
- Reliable, sensor free and maintenance free control.
- IP55 protection.
- Fan operating temperature: -25°C +60°C.
- CJV/EW-1800/T: Fan operating temperature: S1 -25°C +60°C continuous operation. 400°C/2 h S2 operation.
- Approved in accordance with standard EN 12101-3.

pressure probe.

- Variable speed drive parameters easily configurable via Display and Keypad.
- Fitted with on/off isolator switch.
- Available with single-phase 220-240 V 50/60 Hz input.
- VSD operating temperature: -25°C +50°C.

Finish:

- Anti-corrosive galvanised finish for outside use.

On request:

- Fan with horizontal outlet.

Electronic variable speed drive:

- Speed adjusted based on pressure setpoint.
- Automatic PI control built into the variable speed drive and differential

Technical characteristics

Model	Min/Max speed	Single-phase VSD 230 V 50/60 Hz	Maximum electric power	Sound pressure level min./max.	Approx. weight (kg)	According to ErP
	(r/min)	Maximum inlet current (A)	(W)	Lp dB(A)		
CJV/EW-1800	300/1800	5.2	660	21 / 60	35	2018
CJV/EW-1800/T	300/1800	5.2	660	21 / 60	35	2018

Acoustic characteristics

Sound power spectrum Lw(A) in dB(A) per Hz frequency band

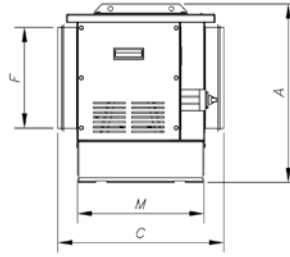
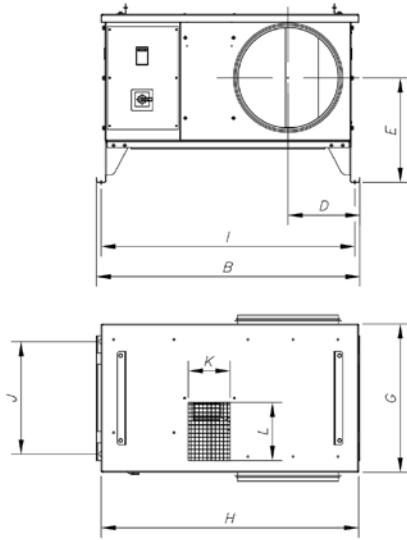
Model	Irradiated values at 1,700 m³/h -250 Pa							
	63	125	250	500	1000	2000	4000	8000
CJV/EW-1800	44	54	65	72	76	73	71	64
CJV/EW-1800/T	44	54	65	72	76	73	71	64

Accessories

See accessories section



Dimensions mm



Model	A	B	C	D	E	F	G	H	I	J	K	L	M
CJV/EW-1800	560	815	520	225	325	315	460	800	780	345	130	180	395
CJV/EW-1800/T	560	815	520	225	325	315	460	800	780	345	130	180	395

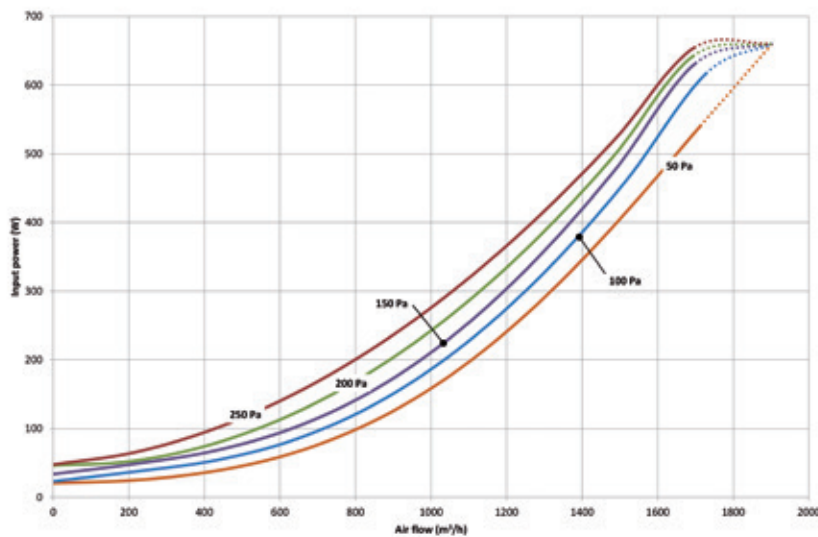
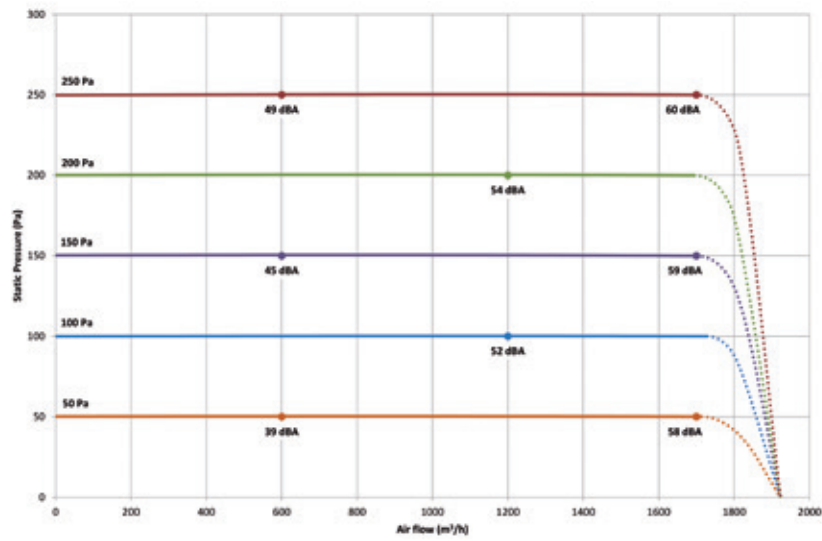
Characteristic curves

Flow rate in m³/h.

Static pressure in Pa.

Electrical power in W.

Irradiated sound pressure at 4 m.



VENUS



E.C. TECHNOLOGY



High-efficiency heat recovery units for installing in residential facilities.



E.C. Version Control

High-performance heat recovery units for installation in residential buildings. With a low power consumption and heat recovery efficiency of up to 93%. For technical ceiling installation.

Finish:

- Body made of lightweight expanded polypropylene and with low noise emissions.
- Low profile for installation in false ceilings.
- 160 mm spigots (models 150 and 300) and 250 mm spigots (models 500 and 700).

Characteristics of all versions:

- Counterflow heat exchanger.
- Flow rate adjustment capacity through external control signal.
- Condensate purge system with built-in siphon.
- Access to filters and purging of condensates from the top and bottom.

Additional characteristics of E.C. version:

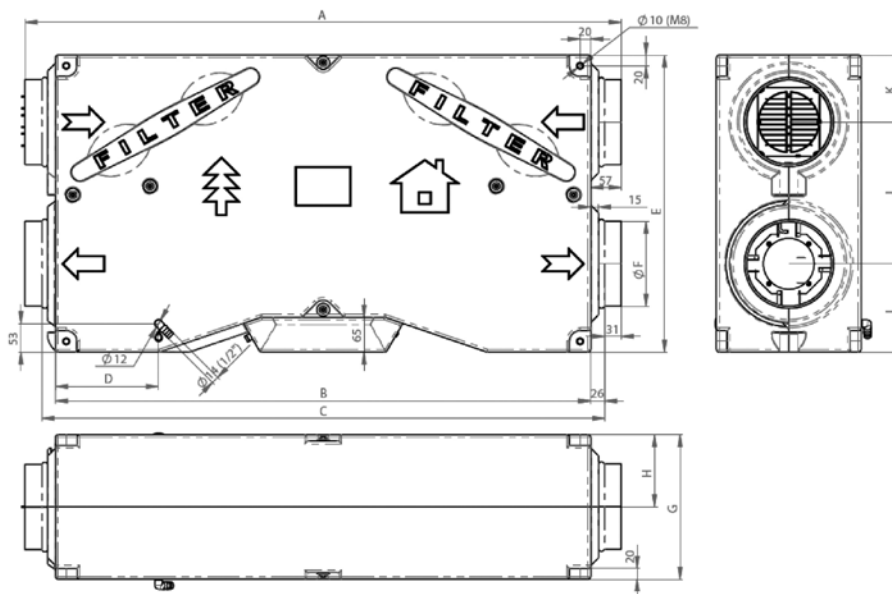
- 50/60 Hz compatible operation.
- F7 efficiency supply filters.
- High efficiency E.C. fans.
- Built-in digital remote control panel.
- Anti-freeze protection and free cooling.
- Multizone control through the optional connection of CO₂, PIR (presence detection) and HR (relative humidity) sensors. ALL/NOTHING type signal.

Version	AC	E.C.
Motor type	AC	E.C. (high efficiency)
Control panel	CP-SM-V-4 manual selector (accessory not included)	Digital (included)
Control panel cable	4 230-V cables (not included)	4 PTPM-RJ12 cables 10 m Included / Maximum 30 m
No. of speeds of the fans	3	3
Supply / Extraction filters effectiveness	F5 / G4	F7 / G4
Alarm management	YES	YES
Flow control according to external control	YES	YES
Precise adjustment of each fan	-	YES
Closing hatch control	-	YES (hatches not supplied)
Optional 5-sensor connections	-	Types: CO ₂ / PIR / HR
Sensor power supply	-	15V DC
External control to force maximum flow	-	YES
Free cooling by stopping 1 fan	-	YES (with timer adjustment)
Anti-freeze protection	-	YES
Adjustable filter change alarm	-	YES

Technical characteristics

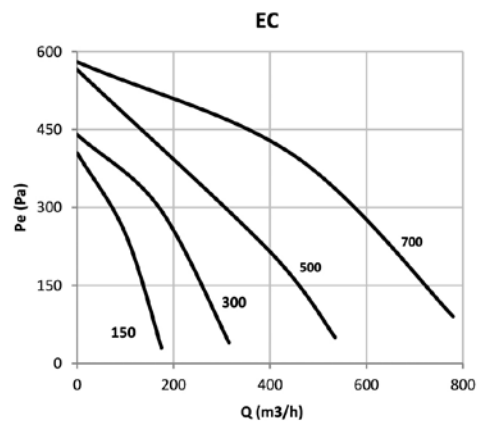
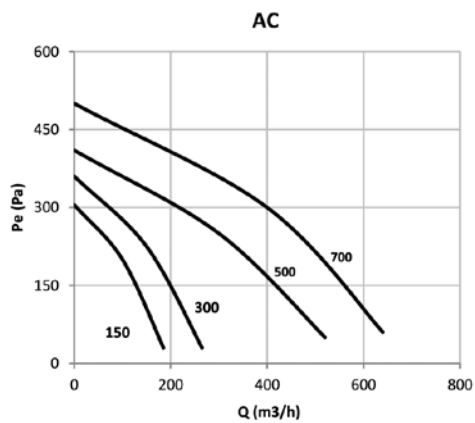
Model	Maximum flow rate (m ³ /h)	Total power (w)	Recovery efficiency (%)	Max. admissible current 220-240 V (A)	Irradiated 3 m sound level dB(A)	Weight (kg)	According to ErP
VENUS-150-AC	185	105	93	2 x 0.23	37.3	17.4	2018
VENUS-150-EC	175	65	93	2 x 0.14	37.7	17.2	2018
VENUS-300-AC	265	145	93	2 x 0.32	38.9	19.5	2018
VENUS-300-EC	315	170	93	2 x 0.37	43.5	19.3	2018
VENUS-500-AC	515	230	93	2 x 0.5	47.1	35	2018
VENUS-500-EC	535	220	93	2 x 0.48	45.8	35.5	2018
VENUS-700-AC	650	270	93	2 x 0.59	42.9	40	2018
VENUS-700-EC	785	430	93	2 x 0.93	53.6	40.7	2018

Dimensions mm

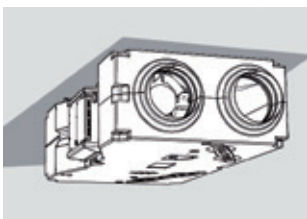


Model	A	B	C	D	E	F	G	H	I	J	K
VENUS 150 / 300	1114	1000	1051	193	555	159	270	135	165	265	125
VENUS 500 / 700	1505	1391	1441	248	846	249	360	180	235	420	190

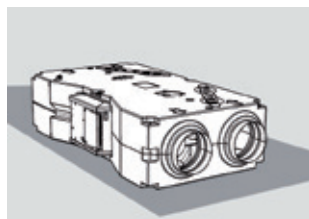
Characteristic curves



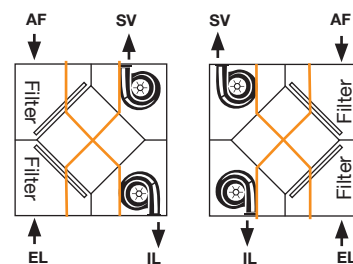
Installation



In false ceilings



Floor mounted



Enables settings to be chosen by turning the equipment 180°.
Access to filters and purge from lower and upper part.

AF: Fresh external air / **IL:** Delivery of air to premises
SV: Exit of exhaust air / **EL:** Air extraction from premises



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