



SHI-PRODUKTPASS

Produkte finden - Gebäude zertifizieren

SHI-Produktpass-Nr.:

14136-10-1002

Swegon CASA W5

Warengruppe: Lüftung - Zentrale Lüftungsanlage



bluMartin GmbH
Argelsrieder Feld 1b,
82234 Wessling



Produktqualitäten:



Köttner

Helmut Köttner
Wissenschaftlicher Leiter
Freiburg, den 02.04.2025



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Wir sind stolz darauf, dass die SHI-Datenbank, die erste und einzige Datenbank für Bauprodukte ist, die ihre umfassenden Prozesse sowie die Aktualität regelmäßig von dem unabhängigen Prüfunternehmen SGS-TÜV Saar überprüfen lässt.





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SHI-Produktbewertung 2024

Seit 2008 etabliert die Sentinel Holding Institut GmbH (SHI) einen einzigartigen Standard für schadstoffgeprüfte Produkte. Experten führen unabhängige Produktprüfungen nach klaren und transparenten Kriterien durch. Zusätzlich überprüft das unabhängige Prüfunternehmen SGS regelmäßig die Prozesse und Aktualität.

Kriterium	Produktkategorie	Schadstoffgrenzwert	Bewertung
SHI-Produktbewertung	sonstige Produkte	TVOC $\leq 300 \mu\text{g}/\text{m}^3$ Formaldehyd $\leq 24 \mu\text{g}/\text{m}^3$	Schadstoffgeprüft
Gültig bis: 11.09.2026			



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Qualitätssiegel Nachhaltiges Gebäude

Das Qualitätssiegel Nachhaltiges Gebäude, entwickelt durch das Bundesministerium für Wohnen, Stadtentwicklung und Bauwesen (BMWSB), legt Anforderungen an die ökologische, soziokulturelle und ökonomische Qualität von Gebäuden fest. Das Sentinel Holding Institut prüft Bauprodukte gemäß den QNG-Anforderungen für eine Zertifizierung und vergibt das QNG-ready Siegel. Das Einhalten des QNG-Standards ist Voraussetzung für den KfW-Förderkredit. Für bestimmte Produktgruppen hat das QNG derzeit keine spezifischen Anforderungen definiert. Diese Produkte sind als nicht bewertungsrelevant eingestuft, können jedoch in QNG-Projekten genutzt werden.

Kriterium	Pos. / Bauproduktgruppe	Betrachtete Stoffe	QNG Freigabe
3.1.3 Schadstoffvermeidung in Baumaterialien	11.1 Kunststoffe (PVC) zur Belegung von Oberflächen in Innenräumen sowie Kunststoff- Bauteile an der Gebäudehülle	Schwermetalle (Blei, Cadmium, Zinn) / Emissionen / SVHC: Phthalate	QNG-ready
Nachweis: Herstellererklärung vom 25.03.2025			
Bewertungsdatum: 02.04.2025			



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EU-Taxonomie

Die EU-Taxonomie klassifiziert wirtschaftliche Aktivitäten und Produkte nach ihren Umweltauswirkungen. Auf der Produktebene gibt es gemäß der EU-Verordnung klare Anforderungen zu Formaldehyd und flüchtigen organischen Verbindungen (VOC). Die Sentinel Holding Institut GmbH kennzeichnet qualifizierte Produkte, die diesen Standard erfüllen.

Kriterium	Produkttyp	Betrachtete Stoffe	Bewertung
DNSH - Vermeidung und Verminderung der Umweltverschmutzung		Stoffe nach Anlage C	EU-Taxonomie konform
Nachweis: Herstellererklärung vom 25.03.2025			
Bewertungsdatum: 02.04.2025			



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DGNB Neubau 2023

Das DGNB-System (Deutsche Gesellschaft für Nachhaltiges Bauen) bewertet die Nachhaltigkeit von Gebäuden verschiedener Art. Das System ist sowohl anwendbar für private und gewerbliche Großprojekte als auch für kleinere Wohngebäude. Die Version 2023 setzt hohe Standards für ökologische, ökonomische, soziokulturelle und funktionale Aspekte während des gesamten Lebenszyklus eines Gebäudes.

Kriterium	Pos. / Relevante Bauteile / Bau-Materialien / Flächen	Betrachtete Stoffe / Aspekte	Qualitätsstufe
ENV 1.2 Risiken für die lokale Umwelt			nicht bewertungsrelevant
Bewertungsdatum: 02.04.2025			



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DGNB Neubau 2018

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Kriterium	Pos. / Relevante Bauteile / Bau-Materialien / Flächen	Betrachtete Stoffe / Aspekte	Qualitätsstufe
ENV 1.2 Risiken für die lokale Umwelt			nicht bewertungsrelevant
Bewertungsdatum: 02.04.2025			



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BNB-BN Neubau V2015

Das Bewertungssystem Nachhaltiges Bauen ist ein Instrument zur Bewertung von Büro- und Verwaltungsgebäuden, Unterrichtsgebäuden, Laborgebäuden sowie Außenanlagen in Deutschland. Das BNB wurde vom damaligen Bundesministerium für Umwelt, Naturschutz, Bau und Reaktorsicherheit (BMUB) entwickelt und unterliegt heute dem Bundesministerium für Wohnen, Stadtentwicklung und Bauwesen.

Kriterium	Pos. / Bauprodukttyp	Betrachtete Schadstoffgruppe	Qualitätsniveau
1.1.6 Risiken für die lokale Umwelt	29 Bauprodukte aus PVC	Schwermetalle (Blei, Cadmium, Zinn), gefährliche Einzelstoffe	Qualitätsniveau 5
Nachweis: Herstellererklärung vom 25.03.2025			
Bewertungsdatum: 02.04.2025			



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BREEAM DE Neubau 2018

BREEAM (Building Research Establishment Environmental Assessment Methodology) ist ein britisches Gebäudebewertungssystem, welches die Nachhaltigkeit von Neubauten, Sanierungsprojekten und Umbauten einstuft. Das Bewertungssystem wurde vom Building Research Establishment (BRE) entwickelt und zielt darauf ab, ökologische, ökonomische und soziale Auswirkungen von Gebäuden zu bewerten und zu verbessern.

Kriterium	Produktkategorie	Betrachtete Stoffe	Qualitätsstufe
Hea 02 Qualität der Innenraumlufte			nicht bewertungsrelevant
Bewertungsdatum: 02.04.2025			



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Produktsiegel

In der Baubranche spielt die Auswahl qualitativ hochwertiger Materialien eine zentrale Rolle für die Gesundheit in Gebäuden und deren Nachhaltigkeit. Produktlabels und Zertifikate bieten Orientierung, um diesen Anforderungen gerecht zu werden. Allerdings besitzt jedes Zertifikat und Label eigene Prüfkriterien, die genau betrachtet werden sollten, um sicherzustellen, dass sie den spezifischen Bedürfnissen eines Bauvorhabens entsprechen.



Dieses Produkt ist schadstoffgeprüft und wird vom Sentinel Holding Institut empfohlen. Gesundes Bauen, Modernisieren und Betreiben von Immobilien erfolgt dank des Sentinel Holding Konzepts nach transparenten und nachvollziehbaren Kriterien.



Produkte mit dem QNG-ready Siegel des Sentinel Holding Instituts eignen sich für Projekte, für welche das Qualitätssiegel Nachhaltiges Gebäude (QNG) angestrebt wird. QNG-ready Produkte erfüllen die Anforderungen des QNG Anhangdokument 3.1.3 "Schadstoffvermeidung in Baumaterialien". Das KfW-Kreditprogramm Klimafreundlichen Neubau mit QNG kann eine höhere Fördersumme ermöglichen.



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Rechtliche Hinweise

(*) Die Kriterien dieses Steckbriefs beziehen sich auf das gesamte Bauobjekt. Die Bewertung erfolgt auf der Ebene des Gebäudes. Im Rahmen einer sachgemäßen Planung und fachgerechten Installation können einzelne Produkte einen positiven Beitrag zum Gesamtergebnis der Bewertung leisten. Das Sentinel Holding Institut stützt sich einzig auf die Angaben des Herstellers.

Alle Kriterien finden Sie unter:

<https://www.sentinel-holding.eu/de/Themenwelten/Pr%C3%BCfverfahren/kriterien%20f%C3%BCr%20Produkte>

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CASA W5 Smart

The energy smart choice



Swegon 

Swegon CASA W5 Smart

Residential air handling unit (597 x 630 x 951 mm, Ø160 mm) with modular width for integrated installation next to the laundry column (468 m³/h, 250 m²). Energy class A+ for the lowest possible climate impact. The market's most intelligent demand-controlled humidity function as standard. Developed, manufactured and tested for Nordic climate.

Free energy with counterflow heat exchanger

The heat exchanger makes use of the energy in the indoor air in the winter to heat the incoming outdoor air and in the summer to reduce the supply air temperature. On a cold winter day the heat exchanger gives "free" heating energy up to 36°C by converting the -20° cold outdoor air to +16°C warm supply air. The heat exchanger is manufactured with aluminium fins and provides a high degree of efficiency. The supply air and extract air have completely separate air ducts so any possible odours in the extract air cannot be transferred to the supply air. The heat exchanger does not recover moisture to the supply air, which is advantageous in residences with a high moisture load (e.g. homes with a sauna).

Defrosting

The defrosting function guarantees continuous ventilation in the home even during cold conditions. With the help of the preheater (standard), you can maintain balanced ventilation and avoid negative pressure in the residence even under extreme conditions.

Preheater

With the help of the preheater (standard), you can maintain balanced ventilation and avoid negative pressure in the residence even under extreme conditions and enable balancing functions for fireplaces and cooker hoods.

Reheater

Usually the recovered thermal energy from the extract air is sufficient to heat the supply air. In cold conditions, an electric or waterborne reheater can be used to maintain a comfortable indoor climate. It can be placed internally in the air handling unit or externally in the duct (see technical data).

Automatic summer mode

Summer mode helps to maintain the home's indoor air comfort. The heat exchanger makes use of the cool indoor air during warm days and cools the incoming outdoor air. At night the home is cooled with fresh outdoor air. This is managed by an advanced automatic system that can be set according to the resident's requirements. Very economical comfort coolness can be produced intelligently almost free of charge.

Cooling

If there is access to cold water in the property (e.g. cooling pump), a cooling coil can be installed in the supply air/outdoor air duct to produce comfort cooling in the residence. The supply air temperature is controlled automatically from the ventilation unit's control system.

Installation

The ventilation unit can be mounted on a wall by means of a wall mounting bracket which is available as a standard accessory. Mounting frames for ceiling or wall installation are also available as accessories.

- 1 Ecodesign energy class A+*
- 2 Air flow range 108 - 468 m³/h
- 3 Temperature efficiency up to 86 % (EN 13141-7)
- 4 Demand-controlled humidity function as standard
- 5 Automatic summer function and passive cooling
- 6 Anti-frost protection ensures continuous ventilation
- 7 External coils for heating and cooling as an option
- 8 Can be connect to the automated building management system (I/O/Modbus)
- 9 Narrow 600 mm wide model

**Energy classification according to EcoDesign directive Lot 6. Energy class may vary depending on the selected accessories.*



Smart control technology

Controls (options)

CASA Smart ventilation units are equipped with the market's most versatile control options! Select the required control method or combine several!



Smart Access

Use your mobile device to control and monitor your indoor climate. Connect the Smart Access module to your ventilation unit and connect it to your home network.



Smart control panel

White wall mounted control panel with a colour display and touch buttons for both recessed and surface mounted installation.



Cooker hood

All Smart cooker hoods can be used to regulate the ventilation unit in three modes (home, away, boost). Automatically balances the ventilation when a cooker hood is used.



Building automation

Centralised monitoring and control with the help of Modbus connection modules or configurable I/O.

Basic functions

You can switch as required to an appropriate operating mode or let the pre-programmed weekly clock switch operating mode according to the diurnal rhythm you want.



Boosted air flow

A large air flow is used when the ventilation requirement increases, e.g. for cooking, taking a sauna, showering or drying laundry.



Home

Normal air flow. Guarantees that there is sufficient fresh indoor air in the home, and that the building construction is at its best.



Away

Low air flow. Reduces energy consumption when the ventilation requirement in the home is small.



Travelling

Very low air flow and lower supply air temperature. Used when no one is present in the home.

Compensation functions

Compensates ventilation flows in the home in order to facilitate for the inhabitants.



Fireplace function

An intelligent fireplace function that helps to produce the correct amount of replacement air, specifically for your fireplace. Facilitates lighting the fire and ensures clean combustion.



Cooker hood function

Balances the ventilation when a cooker hood is used. Helps to prevent excessive negative pressure and improves fume extraction capability of the cooker hood.



Central vacuum cleaner function

Balances the ventilation when a central vacuum cleaner is used. Helps to prevent excessive negative pressure and improves the cleaning result.

Automatic functions (options)

Intelligent ventilation is capable of identifying residents' needs. The Smart System measures the indoor air quality and knows exactly how much ventilation is required in different situations.



Intelligent humidity automation (RH) as standard

The market's most advanced moisture automation is now standard in all new Swegon CASA ventilation units. While traditional humidity sensors only switch the ventilation to boosted ventilation, the Smart Automation continuously analyses the indoor air and regulates the ventilation in accordance with the actual humidity variations.



Automatic Home/Away/Boost system (CO₂)

automatically lowers the ventilation to Away mode and saves energy when the home is empty. When the residents are at home, the ventilation is automatically increased to bring exactly the right amount of fresh air into the home.



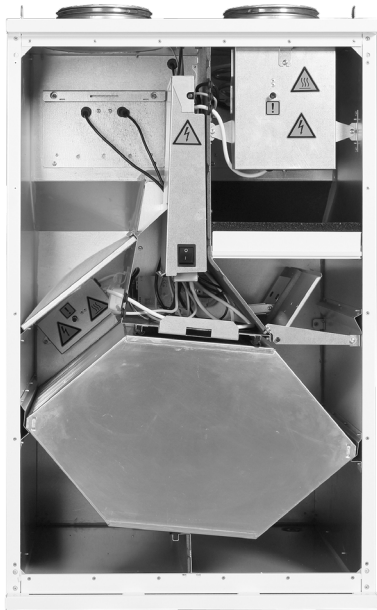
Air Quality Automation (VOC)

increases the ventilation if too much pollution is detected in the indoor air, such as odours or vapours (evaporating organic compounds).

The Smart Control is easy to activate. The installation does not require cabling around the home, and can also be installed retrospectively in older Smart ventilation units.



Technical data



More information
in ProCASA



procasa.swegon.com

	W5
Air flow range (according to Ecodesign)	108-468 m³/h
Rated voltage	230 V, 50 Hz, 9,8 A
Fans	238 W
Internal electric preheater	1500 W
Internal electric reheater	500 W
External electric pre/reheater (Duct mounted)	As an option
External water based heating coil/ cooling coil (Duct placement)	As an option
Max. total output	2248 W
Fuse protection	16 A
Weight	85 kg
Duct connections	Ø 160 mm
Outlet for condensate	3/8" male thread

Dimensions, w x l x h	597 x 630 x 951 mm
Heat exchangers	Counter-flow plate heat exchanger
Enclosure class	IP34
Control system	CASA Smart + automatic humidity function as standard
Control panel CASA Smart	Available as an option
Filters	Filter class ISO ePM1 50% (F7) for supply air and ISO coarse (G3) for extract air as well as extra metal filter for supply air.
Colour, exterior	White, RAL 9016 (corresponds to NCS S1002-G50Y)

ENERG
Y UA
 енергия · ενεργεια IE IA

Swegon CASA W05VR05S10CAA

A+
A
B
C
D
E
F
G

A+

41
dB

468 m³/h

ENERGIA · ΕΠΕΡΓΙΑ · ΕΝΕΡΓΕΙΑ · ENERGIJA · ENERGY · ENERGIE · ENERGI
2016 1254/2014

(SEC) in kWh

Cold climate	-80.6	A+
Mean climate	-42.1	A+
Warm climate	-17.4	E

Energy class may vary depending on how the unit is equipped.



Dimensions



Outdoor air



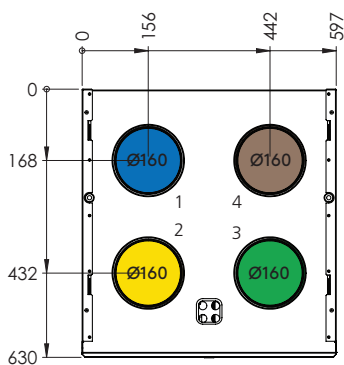
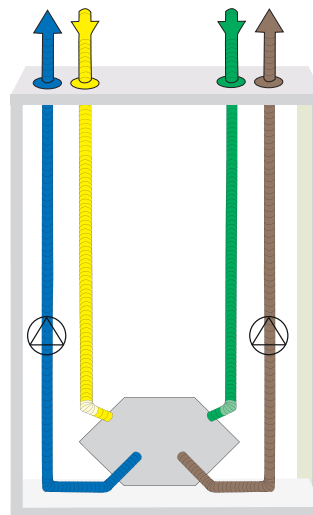
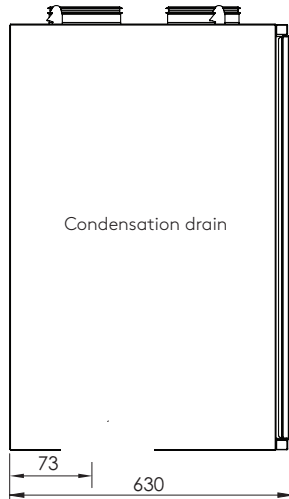
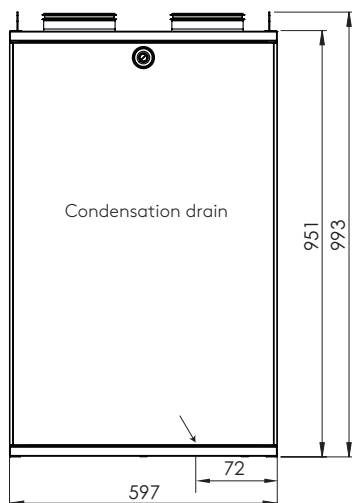
Supply air



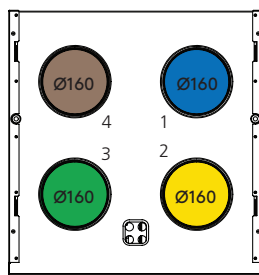
Extract air



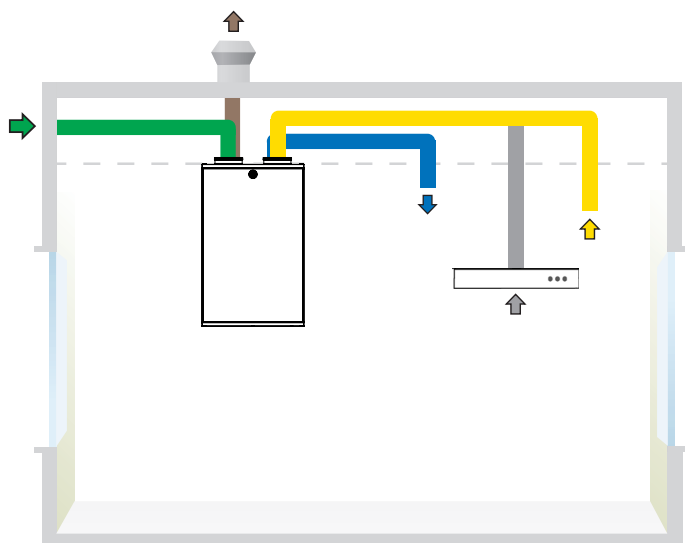
Exhaust air



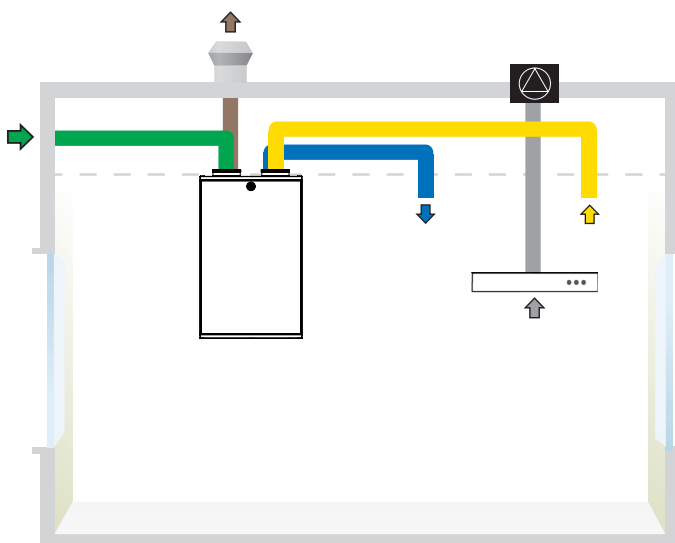
CASA W5 R, right-hand version



CASA W5 L, left-hand version



CASA W5 L, duct connections and cooker hood connected to extract air duct.



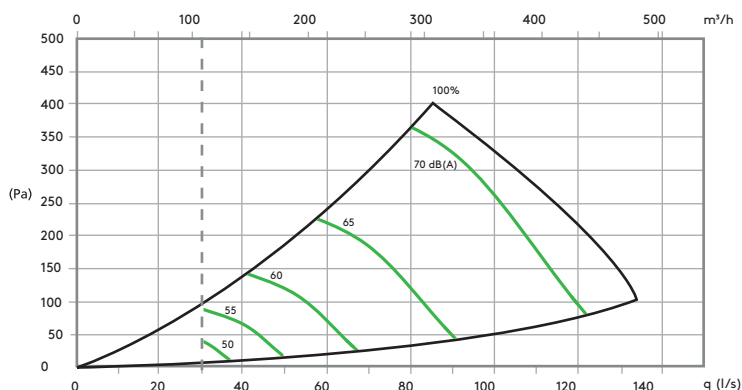
CASA W5 L, duct connections and cooker hood connected to external ceiling fan.

Note! Always check the unit design (L/R) and correct duct sequence in the installation instructions.

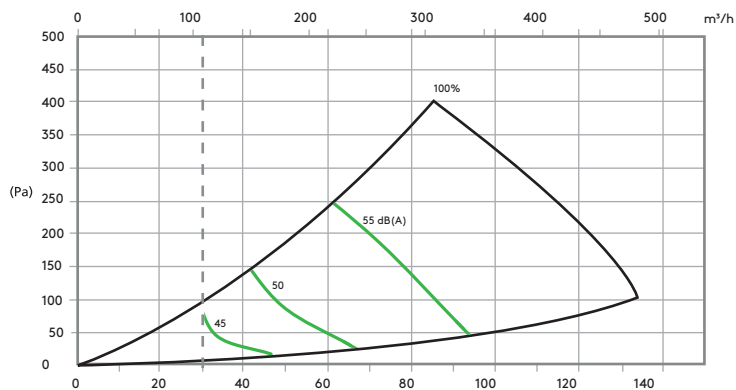
Fan curves

More detailed data for sound to the surroundings and duct connections are available via procasa.swegon.com.

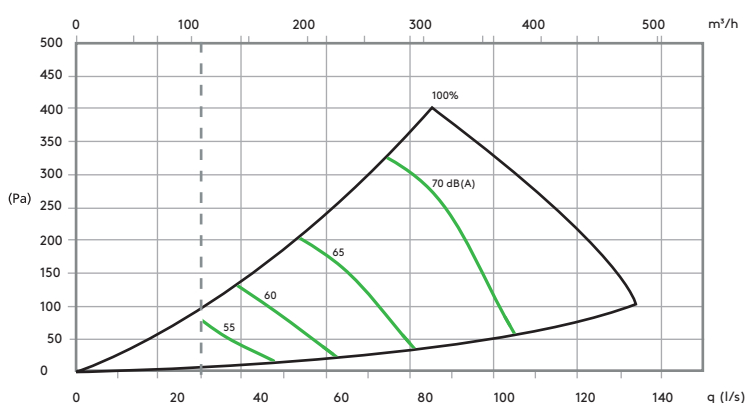
Sound power level emitted to the supply



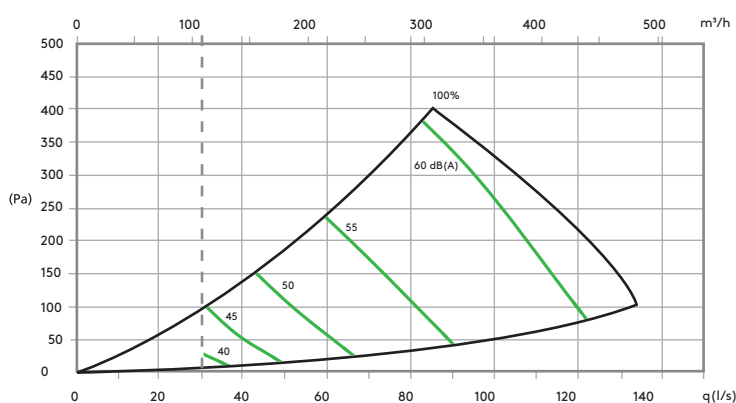
Sound power level emitted to the extract air duct



Sound power level emitted to the exhaust

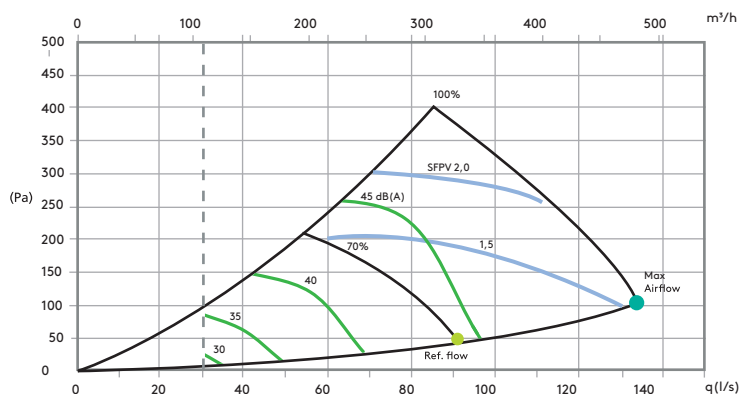


Sound power level to a duct for outdoor air



- Reference air flow
- Max. air flow
- Min air flow
- Sound power L_{wa} dB (A)

Air flow and sound power level to the surroundings



	Sound power level L_w (dB), table K_{OK}							
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Sound emitted to supply air duct	3	5	5	-5	-11	-9	-17	-27
Sound emitted to extract air duct	9	7	6	-4	-20	-22	-29	-29
Sound emitted to exhaust air duct	-1	4	4	-4	-11	-10	-18	-27
Sound to a duct for outdoor air	10	6	6	-4	-20	-23	-29	-29
Sound emitted to the surroundings	11	7	6	-3	-15	-17	-24	-28

Correction table for sound pressure level		
room area	normally furnished room	heavily furnished room
5 m ²	- 2 dB(A)	+ 3 dB(A)
10 m ²	- 4 dB(A)	0 dB(A)
15 m ²	- 5 dB(A)	- 3 dB(A)

For more detailed sound data refer to the calculation software ProCasa.



- 1 Smart ventilation takes care of the indoor air quality automatically
- 2 It knows when you leave home and when you come back
- 3 It knows when you do laundry, shower or cook food
- 4 It adjusts ventilation accordingly based on your current need
- 5 It guarantees fresh and healthy indoor climate

Air handling unit and accessories

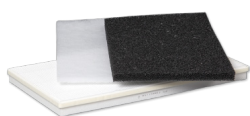


CASA W5 Smart

- 108-468 m³/h, 4 x Ø160 mm
- Supplied with approx. 1.5 m controlled cable. Order control panel and 10 m/20 m extension cable separately.
- Humidity automation as standard (RH)
- Wall mounting bracket

Part no.	Energy class*	Description
W05VR05S10HAA	A+ / A / E	W5 Smart WA-R Auto bypass RH
W05VL05S10HAA	A+ / A / E	W5 Smart WA-L Auto bypass RH
W05VR05S10CAA	A+ / A+ / E	W5 Smart WA-R Auto bypass RH + CO ₂
W05VL05S10CAA	A+ / A+ / E	W5 Smart WA-L Auto bypass RH + CO ₂

L = exhaust air left. *Energy classification according to EcoDesign directive Lot 6 (Cold / **Medium** / Warm).



Filter

W05FS	Spare filter ISO ePM1 50% (F7) for supply air and ISO coarse (G3) for extract air as well as extra PPI-20 (cellular plastic) for supply air.
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Control accessories

White wall mounted control panel with a colour display and touch buttons for both recessed and surface mounted installation.



SC10	Control panel (1-2 per unit)
SC14	SC10 + modular cable 10 m
SC15	SC10 + modular cable 10 m + mounting frame
SC16	SC10 + mounting frame
102SAK	Mounting frame, for surface mounting of the control panel
PMK20	Modular cable, 20 m and RJ9 adapter for units
604010	Modular cable 10m

Use your mobile device to control and monitor your indoor climate. Connect the Smart Access module to your ventilation unit and connect it to your home network.



SMA	Smart Access module for connection to the internet
SMAW	Smart Access module + WLAN router
SMAG	Smart Access module + 3G/4G mobile router (not SIM)

Building automation

As standard the ventilation unit has two configurable I/O channels. If there is a need of additional connection points, the ventilation unit has space for a separate connection cable (SEC). Modbus connection module (SEM) gives you advanced connection options to a master system.



SEM	Modbus connection module
SEC	Connection cable (configurable I/O) for Smart ventilation units
WSTC	Room temperature sensor, total package with connection unit for ventilation units. The sensor is installed on the wall or in a recessed junction box (60 mm between holes).

Automatic functions

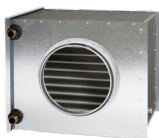
With the help of an internally mounted sensor, it is easy to fully automate your apartment's ventilation system. Can easily be retro-fitted by replacing the existing internal RH-sensor.



SRHCO ₂	Automatic Home/Away/Boost system + humidity automation (RH + CO ₂)
SRHVOC	Automatic air quality system + humidity automation (RH+VOC)

Waterborne air coolers

With an air cooler mounted in the supply air duct, comfort cooling is created in the residence by connecting a cooling medium circuit or a cooling water circuit to the cooler. The air cooler is controlled automatically from the ventilation unit's Smart control system and settings can be changed using a CASA Smart control panel. The delivery includes: Air cooler, SET connection module, actuator and 3-way valve, 24 V transformer, requisite sensors and instructions. SDCW250F is a fully insulated model + accompanying installation frame.



SDCW160	Cooling coil pack Ø160
SDCW200	Cooling coil pack Ø200
SDCW250	Cooling coil pack Ø250
SDCW250F	Air cooler Ø250. Air cooler Ø250. Fully insulated + accompanying ceiling/wall installation frame.

Waterborne air heaters

In buildings equipped with a waterborne heating system, the supply air can be heated with a duct mounted waterborne air heater. The air heater is controlled automatically from the ventilation unit's Smart control system and settings can be changed using a CASA Smart control panel. The delivery includes: Air heater, SET connection module, actuator and 3-way valve, 24 V transformer, requisite sensors and instructions.



SDHW160	Heating coil package Ø160
SDHW200	Heating coil package Ø200

Brine air heater/cooler for ground source heat pump

In a property equipped with a ground source heat pump, a brine air heater/cooler for the heat pump can be installed in the outdoor air duct. In the winter it heats the air taken in and ensures that the ventilation unit operates with the greatest efficiency even in extreme cold. In the summer, the medium in the ground circuit is used to cool the building. The control technology in CASA Smart automatically ensures that the air heater/cooler is utilised optimally all year round. The delivery includes: heating/cooling coil, wall mounting bracket/ceiling mounting frame, an effective 4-row air cooler for cooling medium, SET connection module, coarse filter, requisite sensors and instructions and drip tray for condensate water: condensation water outlet with 3/8" male thread.



SDHW250F	Heating/cooling coil Ø250, G4
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Electric air heater

Can be used for preheating and is placed in the outdoor air duct to guarantee continuous ventilation under very cold conditions and permit balancing functions (fireplace function/function for a cooker hood) in the air handling unit without an integrated air heater for preheating. If the air heater is to be installed as a preheater, a FLK-filter needs to be installed in the duct in front of the preheater. The electric duct heater has built-in regulation and is controlled directly from a ventilation unit. The heater is connected using a separate power supply 230 V. The delivery includes: air heater, SET connection module, requisite sensors and instructions.



SDHE160-1T	Electric heater Ø160
SDHE200-1T	Electric heater Ø200
FLK16	Prefilter box Ø160mm, G4
FLK20	Prefilter box Ø200mm, G4

Other accessories

Used for connection of external accessories, for example, damper, duct coils, etc.



SET	Connection module for control of the duct mounted air heater/cooler / control of shut-off dampers
POWER24V20W	SET / power source for actuators



UVL	Water trap
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The constant duct pressure function on the Smart ventilation unit attempts to regulate the fan speeds to maintain the duct pressure at the set value. Individual setting values for the duct pressure should be determined for each operating mode (away, home, boost). The operating mode can be switched as normal when the constant duct pressure function is used.

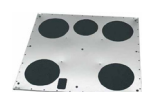
PTH	PTH Regulation for constant duct pressure
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Mounting frame with quick-fit connectors for ceiling mounting the ventilation unit. Simplifies connection as the duct system can be fully installed prior to the installation of the ventilation unit.



W05CMB	Ceiling mounting frame W5
W05FMB	Base W5



The mounting frame has a moisture barrier which prevents moisture from entering the insulation in the attic joist floor and stops the air from the loft from coming down into the rooms.

W05PP	Vapour barrier for mounting frame
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Duct mounted shut-off dampers type 4 and damper actuator 24 V with spring return. The damper closes in the event of a power failure or alarm when a risk of freezing exists. The damper actuator is electrically connected to a CASA SET-module. SET module and 24 V adapter is ordered separately as required.

SDD160	CASA Damper Ø160 24V
SDD200	CASA Damper Ø200 24V

Feel good **inside**

