



# Flair 325 and 400

New HRV generation

Rated as best  
HRV appliance

## Central ventilation

The Flair 325 is a balanced heat recovery ventilation appliance (HRV). The Flair 325 and 400 have a ventilation capacity of respectively 325 and 400 m<sup>3</sup>/h. The appliances are available in left-handed and right-handed versions with either four top connections or two top and two bottom connections and a Plus version. In addition, the appliances come as standard with fully automatic bypass and intelligent frost protection.

## Excellent performance

All Flair components have been completely redeveloped, making the device more efficient and quieter. In addition, the unit consumes considerably less energy than other comparable products. Measurements show that the energy consumption is some 30% lower. The newly designed fans and the integrated control work together to ensure a constant flow of fresh ventilation air.

## Modern communication

The Flair can be connected to the outside world in various ways:

- Brink Connect (Modbus). Ensures an easy link with building management systems (standard).
- Brink Home. Online control through an App or our web portal (Plus version).
- Internet. Extensive options for the Internet of Things (Plus version).

## Complete range of accessories

A complete accessories programme is available for the Flair, including Air Control, control switches, wireless RF, 2-zone demand flow, air quality sensors (CO<sub>2</sub> and RH), Pure induct, Evap, mounting support, mufflers and several air distribution systems.

## The advantages at a glance

For healthy and comfortable living and working conditions

Optimum balance between thermal efficiency and energy consumption

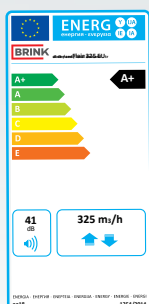
NZEB ready

Very quiet operation

Smallest size in its class

Useful installation and maintenance wizards

Ecodesign energy label A of A+ (with demand control)



Green energy labels according to Ecodesign




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# Renovent Excellent 180, 300, 400 and 450

Silent and low-energy ventilation

## Central ventilation

The Renovent Excellent is an appliance for balanced heat recovery ventilation (HRV) and it comes in several versions with ventilation capacities of 180, 300, 400 or 450 m<sup>3</sup>/h. The Plus version of these appliances features a 0-10 V-input and connection options for a CO<sub>2</sub> sensor and a postheater.

## Silent

The Renovent Excellent is renowned for its low sound level. This is the result of the use of a metal housing, slow-running fans and low internal resistance.

## Flexible assembly

The Renovent Excellent is available in a left-handed and a right-handed version. The Renovent Excellent 180 and 450 have four top connections. With its compact design, the Renovent Excellent 180 can even be installed in a kitchen unit.

The Renovent Excellent 300 and 400 are available in three versions:

1. Four top connections
2. Three top connections and one bottom connection
3. Two top and two bottom connections

That last version allows the ducts from and to the dwelling to be fed into the ground directly beneath the appliance, after they have been fitted with acoustic muffling. That way no ducts are required next to the appliance. The Renovent Excellent appliances are suitable for installation on the wall. A mounting support is available for the Renovent Excellent 300, 400 and 450 as well.

## Enthalpy exchanger

In wintry conditions, the enthalpy exchanger ensures that part of the moisture in the exhaust air is transferred to the supplied dry outdoor air. This prevents excessive dehydration of the indoor air. The enthalpy exchanger is available for the appliances Renovent Excellent 300, 400 and 450.

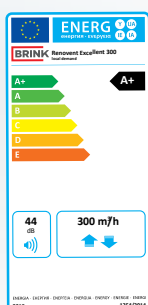
## Complete range of accessories

A complete accessories programme is available for the Renovent Excellent, including Air Control, control switches, wireless RF, 2-zone demand flow, Brink Home, air quality sensors (CO<sub>2</sub> and RH), Brink Connect (Modbus), Pure induct, Evap, mounting support, enthalpy exchanger, mufflers and several air distribution systems.

## Complete, silent and low-energy

### The advantages at a glance

- For healthy and comfortable living and working conditions
- High efficiency heat recovery tested under EN13141-7
- Under all conditions the highest efficiency through application of Constant Flow Control
- Standard 100% bypass
- Bypass functionality for Renovent Excellent 180
- EC fans guarantee a low auxiliary energy consumption
- Ecodesign energy label A or A+ (with demand control) for Renovent Excellent 300 and 400



Green energy labels according to Ecodesign





# Renovent Sky 150, 200 and 300

Compact and space-saving

## Central ventilation

The Renovent Sky is an appliance for balanced heat recovery ventilation (HRV) and it is available with ventilation capacities of 150, 200 and 300 m<sup>3</sup>/h. In addition to the complete standard version, a Plus version is available. It has additional connection options for CO<sub>2</sub> sensors and a postheater. The Plus version is also fitted with a potential-free input and a 0-10 V input. All types come as standard with the Air Control with timer control. This is a control unit with timer function that can also be used for adjusting the appliance.

The Renovent Sky 150 and 200 are unique for their very low installation height of no more than 198 mm. That makes these versions highly suitable for renovation of compact dwellings such as student flats or senior citizens dwellings. The Renovent Sky 300 is highly suitable for ventilation of larger homes, apartments and offices where the available space makes this appliance the best solution.

## Silent

Its design with, for instance, metal housing, slowly running fans and low internal resistance, makes the sound level of the Renovent Sky very low. In addition to the usual flexible muffler, various special muffler modules are available for the Renovent Sky 150 and 200. These modules are geared for the compact design and can be attached directly to the appliance.

## Enthalpy exchanger

In wintry conditions, the enthalpy exchanger ensures that part of the moisture in the exhaust air is transferred to the supplied dry outdoor air. This prevents excessive dehydration of the indoor air. The enthalpy exchanger is available for the Renovent Sky 300.

## Extension options

The Renovent Sky can be extended with 2-zone demand control, separate CO<sub>2</sub> and RH sensors, Brink Home, the Pure induct and the Evap.

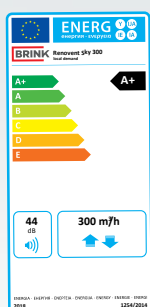
Flexible assembly: wall and ceiling postheater

## The advantages at a glance

- For healthy and comfortable living and working conditions
- High efficiency heat recovery tested under EN13141-7
- Constant Flow Control
- 100% bypass
- Standard control module with timer function
- Low auxiliary energy consumption through application of EC fans
- Ecodesign energy label A, label A+ (with demand control) for Renovent Sky 300 and 150
- Manifolds fitted with acoustic insulation



Muffler modules



Green energy labels according to Ecodesign



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# Air 70

## HRV without air ducts

### Decentral ventilation

The Air 70 is a compact decentral balanced heat recovery ventilation appliance (HRV) and it is available with a ventilation capacity of 70 m<sup>3</sup>/h. The appliance can completely be installed in an exterior wall. The wall sleeve diameter is Ø 250 mm. The ventilation air is supplied and exhausted straight through the exterior wall. No ducts system required. The Air 70 is excellently suitable for use in renovation, conversions or compact new dwellings.

The Air 70 comes as standard with a 100% bypass and a built-in preheater for frost safety. As standard, the appliance is controlled with two touch buttons. The five LEDs display the various modes and messages. The Air 70 Plus version offers additional connection options for a CO<sub>2</sub> sensor, humidity sensor, wireless control RF, RJ for the 4-way switch, Brink Home, eBus and Brink Connect (Modbus).

### Silent and low-energy

With its advanced technology, the Air 70 is a very silent decentral ventilation appliance. On top of that, the appliance uses only very little energy. The fresh supply air is guided through the built-in round heat exchanger where it is preheated by the stale and warm air that is exhausted from the space. That results in adequate ventilation with hardly any heat losses.

### Design

The compact appliance hood on the inside of the wall is of a slim, unobtrusive design. The occupant may paint the Air 70 in any desired colour in accordance with the instructions. That makes the Air 70 blend in with in any interior. There is a choice of grilles in various colours for the façade.

### The advantages at a glance

For healthy and comfortable living and working conditions

Very low noise load

Approved under European regulations EN13141-8

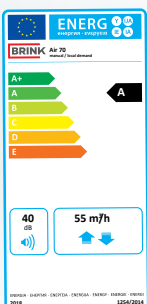
100% bypass

Efficiency up to 92%

Highly energy-efficient

Easy to install

Can completely be installed in the exterior wall



Green energy labels according to Ecodesign

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# Pure induct

For the healthiest ventilation air

## Air purification

The Pure induct captures the particles present in the air. These particles include harmful dust, fine and ultrafine particles, viruses, bacteria, pollen and fungi. By capturing those, the air is purified from pollutants and thus cleaner and healthier. Especially in areas where air pollution is a problem and fine dust is released, the Pure induct is the ultimate solution when you want to keep ventilating healthily. The Pure induct is mounted in the duct that transports outdoor air from the ventilation appliance to the living spaces.

## Operation

The Pure induct uses ionisation to ensure that dust particles are captured. An ionisation system charges the particles in the air. At the end of the module, the statically charged filters catch the particles. That way all pollutants are removed from the air and pure, healthy air enters the home.

## Effective filters

The special filters of the Pure induct have a relatively open structure. That makes these filters block less easily than the heavier HEPA filters, so they remain effective for a much longer period. In addition, their lower resistance has the advantage that the fan can run at a lower rpm, the energy consumption drops and no noise is emitted.

The Pure induct is effective against:

- Coarse dust
- Fine dust (PM10-PM2.5)
- Ultra-fine dust and nanoparticles (PM1)
- Microbiologic pollutants such as: viruses, bacteria, fungi, spores and pollen

Clean air in your home,  
air pollutants remains outside

## The advantages at a glance

For healthy and comfortable living and working conditions

A clean and healthy indoor climate

Fully automatic operation

Low air resistance leads to low energy consumption

Perfectly safe

More effective than HEPA filters

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# Demand control ventilation

## Ventilating as required

### Ventilating efficiently and silently

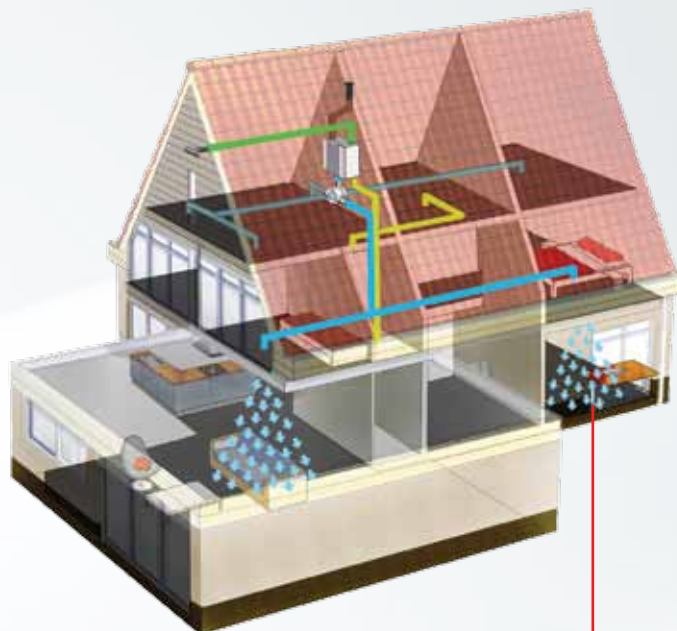
Demand flow ventilation makes it possible to gear the ventilation need to the current air quality in the habitable rooms. In every room, an indoor air quality sensor measures the CO<sub>2</sub> concentration in the space. If the air quality is satisfactory in every zone, the basic ventilation rate suffices. If the air quality in the living room deteriorates, for instance because there are many people in the living room, the ventilation rate is automatically increased.

A relative humidity sensor (RH) detects a quick increase of the relative humidity due to cooking/showering. Then the ventilation system is switched to the highest setting. When the humidity drops again, the appliance automatically switches back after 20 minutes.

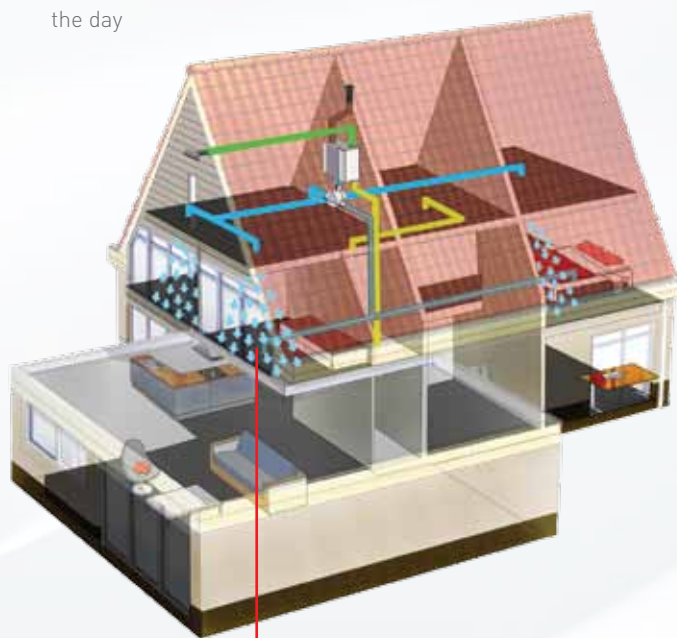
### Demand ventilation 2.0

Demand Flow Ventilation 2.0 by Brink is even more advanced. It splits the supply air to the dwelling between the living zone and the sleeping zone. A specially developed 3-way valve sends the air to the bedrooms or the living room or to both on the basis of the air quality measured in the zones or in the individual rooms. If the preset basic ventilation mode is not sufficient for the desired air quality, the ventilation air quantity is gradually increased. Since the ventilation air is only sent to the zone where it is needed, the total ventilation flowrate is lower and that means additional energy savings. As a result, the ventilation appliance has to displace less air and the installation noise decreases by approximately 6-8 dB(A). That is important with a view to the requirements from the Building Decree. A maximum of eight CO<sub>2</sub> sensors can be connected to the system, which makes it possible to measure in several rooms.

In addition to demand control ventilation on the basis of air quality, it can also be based on timer control (Air Control).



Demand ventilation 2.0:  
Increased living room ventilation during the day



Demand ventilation 2.0:  
Increased bedroom ventilation during the night

### The advantages at a glance

Guaranteed air quality with CO<sub>2</sub> control

Appliance sound reduction 6-8 dB(A)

Reduced air quantities saves up to 60% energy

Can be combined with Flair, Renovent Excellent and Renovent

Sky

For enhanced comfort, energy and noise reduction

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# Brink Home

Remote control for the occupant

## Brink Home Module and App

With Brink Home, the ventilation system is activated on demand and when it is needed. That ensures optimal and efficient use of the ventilation system.

Brink Home consists of the Brink Home Module and the Brink Home App, linked with the Renovent and its control unit Air Control. That makes the Brink appliances accessible through any (W)LAN router or the Brink Portal Server. The Brink Home App for smartphone and tablet is available for Android and iOS.

## Everything remote

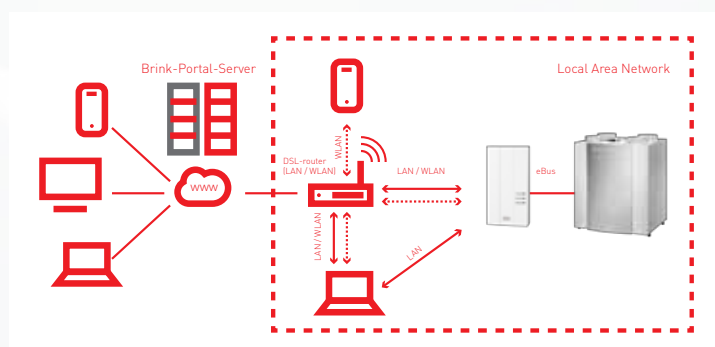
The occupant has remote access to the ventilation system in the home. This is routed through the internet or the local network and via smartphone, tablet or PC. The system is fully automatic. The occupant can also set certain functions. That may include setting the ventilation mode (holiday, absent, present, cooking/showering). Through PC or app, the occupant also receives information on things like the CO<sub>2</sub> percentage and cleaning or replacing filters.

## Efficient service

Brink Home is extremely handy for service purposes. The occupant receives a warning on his PC about any malfunction or need for maintenance. Then the occupant can directly transmit the error message to his installer and give him permission for remote access to see what is wrong. Measures can then be taken quickly and efficiently for both the installer and the occupant.

## Extension to ventilation appliances

Brink Home is optionally available for all appliances Flair, Renovent Excellent, Renovent Sky and Air 70 and it is ready for use on the Flair Plus. For Renovent appliances and the standard version of the Flair, up an external module (eModule) is available and for the Air 70 there is an internal module (iModule).



## The advantages at a glance

- For healthy and comfortable living and working conditions
- Ease and comfort for the occupant
- Remote control
- Optimum use of system capabilities
- Energy costs savings
- Easy to install
- Service-friendly

Optimum use and efficient service

# Control options

Fully automatic or manual

Make it as easy as possible for yourself

## 4-way switch with filter indication

The 4-way switch has a filter indicator LED. This LED indicates when the filter has to be cleaned.



4-way switch with filter indication

## Air Control

The Air Control is a timer control unit. It offers increased comfort and even higher energy savings.



Air Control

## Wireless remote control

The wireless remote control includes an RF transmitter with two or four settings and an RF receiver. The transmitters with two or four settings each feature a filter indicator LED. The LED lights up when the filter has to be cleaned.



RF transmitters

## CO<sub>2</sub> sensor

A CO<sub>2</sub> sensor can be used to adjust the ventilation control to the presence of CO<sub>2</sub>.



CO<sub>2</sub> sensor

## RH sensor

The RH sensor will detect a sudden increase of the relative humidity in a space due to, for instance, cooking or showering.



RH sensor

## Brink Connect (Modbus)

The Modbus interface Brink Connect enables communication top of the Flair and the Renovent Excellent with a Modbus, such as a building management system. That makes it possible to monitor and control devices from one central point and to use data for the analysis of the energy performance of buildings.

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# Air distribution systems

Brink has the total package

The most complete  
air distribution system

## Air Excellent System circular and semicircular

The Air Excellent System is a synthetic air distribution system for supply and exhaust of ventilation air. It is a modular air distribution system with flexible ducts, various fittings and manifolds. The system is available for a variety of air flowrates in the variations circular and semicircular. Moreover, the semicircular Air Excellent System 30% is less high than conventional air distribution systems. Both duct types can be incorporated in concrete.

The Air Excellent System is supplied through the Ubbink-Centrotherm Group, which, just like Brink, is a division of Centrotec Sustainable AG.

## Operation

Two manifolds are placed between the ventilation appliance and the supply and exhaust points to ensure optimum air distribution. These manifolds may be fitted with internal sound insulation. The ducts lead the air from and to the various rooms.

## Manifolds

The synthetic manifold is available in two series: 200 and 800 Series. The 200 Series is available with 6 or 8 connections and the units can be stacked and coupled. The 800 Series comes with 8, 16 or 24 connections. The metal manifold is available in various versions.



## The advantages at a glance

Initial adjustment from the drawing board with online configurator

Easy and quick to install: 'plug and play'

Lower risk of installation errors

No crosstalk between spaces

High airtightness

Maintenance friendly

Antistatic and antibacterial

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# General

## Balanced heat recovery ventilation

The clean, fresh air supply and the foul air exhaust are balanced. The air flows do not mix, but they remain separate. Up to 95% of the heat is extracted from the exhaust air and transferred to the cold outdoor air. This means the cold outdoor air is heated up 'for free'. This gives Brink appliances the highest EPC reduction and, also as a result of the application of Constant Flow fans, they get the highest EPC score.

## Constant Flow Control

Application of the unique Constant Flow principle in all Flair and Renovent appliances guarantees the preset air flowrates and the balance between supply and exhaust air. That always guarantees the high efficiency; independent of the resistance in the ducts system or the filter fouling degree. It also makes initial adjustment simple and thus cheaper.

## Continuous filtering

The Flair, Renovent and Air 70 come as standard with two ISO Coarse  $\geq$  60% filters (G4 filters). These filters remove 95% of the dust from the air. A high-performance ISO ePM1 filter (F7 fine dust filter) is optionally available, ideal for areas with a high fine dust load such as near roads and/or airports. People with sensitive airways also benefit from these fine dust filters.

## Bypass for night ventilation

In summer, the 100% bypass contributes to improved comfort and it is controlled automatically on the basis of the measured indoor and outdoor temperatures.

## Preheater

The intelligent frost protection with preheater guarantees the high efficiency, also at extremely low outdoor temperatures. Compared to other frost protection solutions, it provides additional savings on the energy bill.

# Technical specifications

Appliance type	Pure induct	Evap	Air Comfort
Air volume [m <sup>3</sup> /h]	Maximum 600	Maximum 600	Maximum 450
Energy consumption [W]		Maximum 800	72
Voltage	230 V/ 50 - 60 Hz	230 V/ 50 - 60 Hz	230 V/ 50 - 60 Hz
Duct connection [mm]	Ø 160 - 180	Ø 150 - Ø 200	Ø 250
H x W x D [mm]		340 x 258 x 344	429 x 676 x 640
Maximum humidifying capacity [L/h]		0-4	
Maximum water consumption [L/h]		5	
Minimum supply water pressure [bar]		1.5	
Water drain		PVC 15 mm hose	
Water connection [mm]		¾"	22
Heating capacity at 45/35 °C water			circa 2.8
Cooling capacity at 7/11 °C water			circa 1.75

# Technical specifications

\* On our website [www.brinkclimatesystems.com](http://www.brinkclimatesystems.com) you will find the complete technical specifications under Ecodesign.

\*\* PHI = Passive House Institute Certificate

Appliance type	Flair	
	325	400
Ventilation capacity at 150 Pa [m³/h]	Maximum 325	Maximum 300
Ecodesign energy class*		
• Manual		
• Timer		
• Central demand control		
• Local demand control		
SPI EN-13141-7 [W/m³/h]	0.15	0,17
Temperature efficiency EN-13141-7 [%]	92,5	92,1
SPI PHI* [W/m³/h]**	0.21	0,20
Temperature efficiency PHI (%)**	91	89
Sound power casing emission at Qv 70% and 50 Pa [dB]	41	50
Dimensions duct connection [mm]	Ø 160	Ø 180
H x W x D [mm]	650 x 750 x 560	650 x 750 x 560
Weight [kg]	37	37
Constant Flow Control	✓	✓
Standard bypass	✓	✓
Built-in preheater	✓	✓
Connection for RH sensor	✓	✓
Connection for CO <sub>2</sub> sensors	✓	✓
Connection for 2-zone demand flow	✓	✓
Connection for Air Control	✓	✓
Connection for Brink Connect (Modbus)	✓	✓
Connection for eBus	✓	✓
Suitable for Brink Home (Plus)	✓	✓

Appliance type	Renovent Excellent			
	180	300	400	450
Ventilation capacity at 150 Pa [m³/h]	Maximum 180	Maximum 300	Maximum 400	Maximum 450
Ecodesign energy class*				
• Manual				
• Timer				
• Central demand control				
• Local demand control				
SPI EN-13141-7 [W/m³/h]	0,31	0,21	0,24	0,28
Temperature efficiency EN-13141-7 [%]	82	86	85	84
SPI PHI* [W/m³/h]**		0,26	0,29	
Temperature efficiency PHI (%)**		84	84	
Sound power casing emission at Qv 70% and 50 Pa [dB]	42	44	48	51
Dimensions duct connection [mm]	Ø 125	Ø 160	Ø 180	Ø 180
H x W x D [mm]	600 x 560 x 302	765 x 677 x 564	765 x 677 x 564	765 x 677 x 564
Weight [kg]	25	38	38	38
Constant Flow Control	✓	✓	✓	✓
Standard bypass	[bypass functionality]	✓	✓	✓
Built-in preheater		✓	✓	✓
Connection for RH sensor	✓	✓	✓	✓
Connection for CO <sub>2</sub> sensors)	✓	✓	✓	✓
Connection for 2-zone demand flow	✓	✓	✓	✓
Connection for Air Control	✓	✓	✓	✓
Connection for Modbus with Brink Connect	✓	✓	✓	✓
Connection for eBus	✓	✓	✓	✓
Suitable for Brink Home	✓	✓	✓	✓

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# Technical specifications

\* On our website [www.brinkclimatesystems.com](http://www.brinkclimatesystems.com) you will find the complete technical specifications under Ecodesign.

\*\* PHI = Passive House Institute Certificate

Appliance type	Renovint Sky			Air
	150	200	300	70
Ventilation capacity at 150 Pa [m <sup>3</sup> /h]	Maximum 150	Maximum 200	Maximum 300	Maximum 70
Ecodesign energy class*	-	-	-	-
• Manual				
• Timer				
• Central demand control				
• Local demand control				
SPI EN-13141-7 [W/m <sup>3</sup> /h]	0,27	0,26	0,24	0,2 [EN-13141-8]
Temperature efficiency EN-13141-7 [%]	89	83	84	80 [40 m <sup>3</sup> /h]
SPI PHI* [W/m <sup>3</sup> /h]**	0,35	0,35	0,31	
Temperature efficiency PHI [%]**	84	84	85	
Sound power casing emission at Qv 70% and 50 Pa [dB]	38	49	44	40
Dimensions duct connection [mm]	Ø 125	Ø 160	Ø 150 and 160	
H x W x D [mm]	198 x 660 x 1000	198 x 660 x 1000	310 x 644 x 1185	398 x 398 x 665
Weight [kg]	24,5	24,5	37	12
Constant Flow Control	✓	✓	✓	
Standard bypass	✓	✓	✓	✓
Built-in preheater	✓	✓		✓
Connection for RH sensor	✓	✓	✓	✓
Connection for CO <sub>2</sub> sensors)	✓	✓	✓	✓
Connection for 2-zone demand flow	✓	✓	✓	
Connection for Air Control	Air Control included as standard	Air Control included as standard	Air Control included as standard	
Connection for Modbus with Brink Connect	✓	✓	✓	✓
Connection for eBus	✓	✓	✓	✓
Suitable for Brink Home	✓	✓	✓	✓

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