

- Decorative Radiators
- **Comfortable indoor ventilation**
- Heating and cooling ceiling systems
- Clean air solutions



versatile

Always the best climate for

PERFORMANCE

The next generation of MVHR units - ComfoAir Q

Versatile has everything you need for optimum indoor ventilation for every project.

ComfoAir Q is the next generation of heat recovery ventilation units, with state of the art design and intelligent technology, regardless of whether you are working on a new build or an old building, with comfortable ventilation you have an innovative, tried and tested complete system.

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ComfoAir Q

With ComfoAir Q, you are provided with the highest level of living comfort. The innovative ventilation units contribute significantly to comfortable room ventilation, quiet in operation, ensure healthy, dust-free air and protect against excessive humidity.

ComfoAir Q350

ComfoAir Q450

ComfoAir Q600



Passive House Certified



Passive House is an internationally recognised standard for high quality, low energy buildings.



Winner of the iF award 2017

The standard requires that only those components which have been rigorously tested and approved can be used within the building. It is imperative when building to a Passive House specification that certified MVHR units are used, as poorly performing, uncertified products which don't live up to their claims can disrupt the performance of the whole property. Meeting stringent Passive House standards for quality, performance and energy efficiency, all three ComfoAir Q units have been independently tested and certified by the Passive House Institute ensuring reliable and effective performance with minimum running costs.



Specification

- World class heat recovery of 96%
- 3 models available - 350m³/hr, 450m³/hr and 600m³/hr
- Suitable for medium and large size properties:
 - Q350 - up to 250m²*
 - Q450 - up to 300m²*
 - Q600 - up to 350m²*
- All units have been certified as an official Passive House component by the Passivhaus Institute
- Left or right hand unit configuration combined in one device for installation flexibility

* System pressure needs to be <200Pa. Additional attenuation may be required.

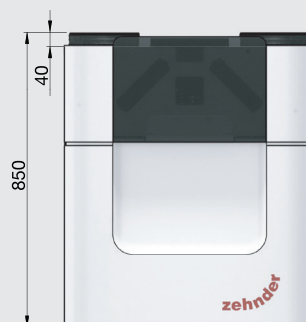
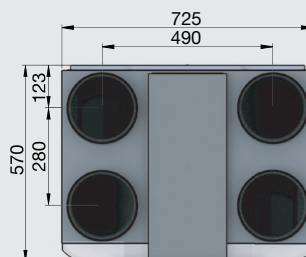
Dimensions

All measurements in mm unless otherwise indicated

Dimensions are the same across all models

Physical Specification

- Spigot size:
 - 160mm: Q350
 - 180mm: Q450/Q600
- Fans: EC with flow control
- Filters: ISO Coarse >65% (G4) and ISO ePM1 >65% (F7) for CAQ350 / CAQ450 and ISO ePM1 >55% (F7) for CAQ600
- On board LCD display
- Mounting bracket for wall fixing or free standing on mount
- Weight: 50kg
- Power lead complete with 3 pin plug
- Condensate connection (32mm) comes with options of both a threaded or socket weld attachment
- Dust cover to prevent dust ingress during second fix
- ComfoAir Q models with pre-heater and enthalpy cube are also available



Driving system performance through innovation

Versatile ventilation systems innovative technology make for less complexity, increased heat recovery efficiency, lower specific fan power and significant noise reduction.

A perfect combination of outstanding technical performance and excellent features makes ComfoAir Q the best in class achieving top efficiency ratings.

Heat recovery performance

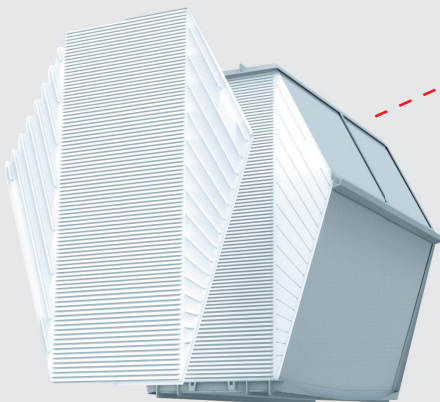
Heat Recovery Performance is an important factor in unit specification as it has a direct impact on the heating load and offers savings to the homeowner.

When comparing two MVHR units with 87% and 94% heat recovery efficiency you can achieve up to a 25% reduction in heating costs (from ventilation loss) if selecting the higher performing unit.

Noise reduction

Did you know that for every increase of 3dB (A) the sound power is doubled?

ComfoAir Q's sound performance of 28*dB(A) means one competitor unit is equivalent to 8 ComfoAir Q units in operational noise!



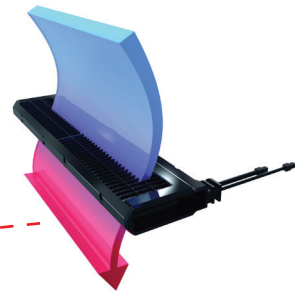
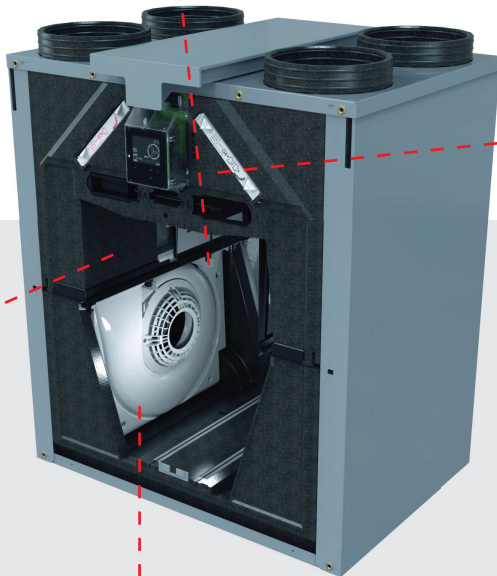
Unique, ultra-powerful heat exchanger – for maximum energy efficiency

The unique diamond heat exchanger features an especially large surface, which allows it to achieve a higher level of efficiency. Variable channel heights ensure a constant flow and lower pressure loss. As a result, less energy is required to overcome the air resistance.



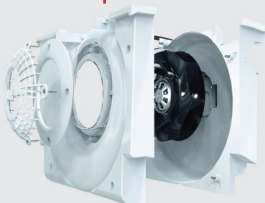
Innovative air volume balancing – for maximum heat recovery

New and patented: innovative sensor technology automatically ensures balanced supply air and extract air volumes. This flow control guarantees maximum heat recovery. What's more, you save time during commissioning because of the unit's dial-a-duty feature where the required air flow is input and the unit will automatically adjust the motors to achieve this.



Intelligent temperature control of the intake air – for the best possible energy efficiency

The pre-heater adapts its operation taking into consideration temperature, air flow and humidity to ensure consistent supply air temperature is achieved no matter what is going on outside. Thanks to its large surface and delta shape, the level of pressure loss is negligible – and that also reduces the power consumption.



State-of-the-art fan technology – for quiet, energy-saving operation

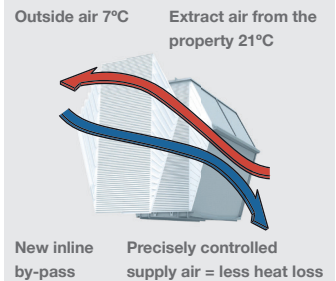
The flow grid, scroll housing and impeller ensure the best possible air flow. This not only means an extremely quiet operation, but also particularly low power consumption. A high-quality, future-proof solution, based on tried-and-tested technology.

Ensuring the best in class for heat recovery efficiency, noise and energy performance

ComfoAir Q is easy to design, simple to install and provides optimum comfort levels to the home throughout the year thanks to its innovative performance focused design.

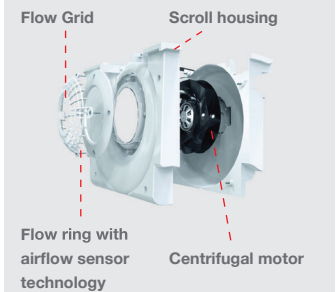
Ensures optimum comfort through the modulating by-pass

The modulating inline by-pass adapts to the outside temperature, to ensure ideal comfort conditions regardless of the outdoor temperature, minimising heat loss in the process.



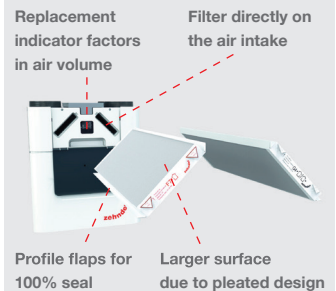
Efficient fan guarantees an improved performance, with less energy consumption

The powerful fan generates more power with less energy consumption. Optimum airflow through the flow grid and scroll housing means that the energy consumption for overcoming the air resistance is low. Sensor technology also ensures that the speed is only adapted if a permanent change is made, ensuring energy and cost savings (Specific Fan Power of just 0.53 w/l/s for the ComfoAir Q 350/450).



Improving air quality through filtration

Healthy air is another important feel-good factor. As a result, the new filter concept reduces the amount of dust in the unit and air distribution system. Filters are available in two grades, ISO Coarse >65% (G4) and ISO ePM1 >65% (F7) for CAQ350 / CAQ450 and ISO ePM1 >55% (F7) for CAQ600 with a pleated design for optimum filtration. Maintenance is easy with the warning indicator on the start-up wizard to indicate when filters may need attention or changing.



Adaptable for each unique installation

The intuitive start up wizard offers a simple installation process on-site including left and right hand configuration in one single unit.

Flexibility is at the heart of ComfoAir Q.

Installation wizard facilitates ease of set-up

The start-up wizard guides you step by step through the set up process including an automatic self-test.

Using the design drawings you can simply type in the required airflow rates for low, medium and boost and the system automatically sets these across the installed system.



On-site interchangeable orientation

Right and left handing can be modified on-site easily when required helping save time and money on-site and reducing risk of incorrect installations.



Ensuring an optimum room temperature – at all times

The most important feel-good factor is comfort, through regulation of temperature and humidity. ComfoAir Q's intelligent temperature control factors in the varying outdoor temperature at different times of the year, to ensure ideal comfort conditions indoors.

Temperature perception depending on the climate

Outside yesterday	Outside today	Inside
10°C	15°C	18°C
	= warm	= pleasant
19°C	15°C	20°C
	= cold	= pleasant

The ideal ventilation unit for every project

There is a ventilation unit and indoor ventilation solution for every area of use. Combined with other components, they form the optimum system.



ComfoFond-L Q

Sub soil heat exchanger (or regulated sub-soil heat exchanger)

Pre-conditions the temperature of the outdoor airflow before it enters the unit. This ancillary is connected to the Option Box. (see page 12)

- Uses the constant temperature of the soil for heat recovery and to control the temperature of the air
- Sustainable use of geothermal energy
- Saves having to use a pre-heater in winter, supplies tempered supply air in the summer



ComfoCool Q600

Air Tempering Unit

The ComfoCool Q600 is an air temperation device designed to help reduce the risk of overheating in homes. It combines with the ComfoAir Q600 and compliments its features to ensure it automatically activates and deactivates to provide a comfortable, healthy and energy-efficient indoor climate.

- Cooling is automatically activated by a user defined comfort temperature in combination with monitoring both intake air and internal air temperatures
- Equipped with a compression cooling system, as is used in refrigerators to reduce the temperature, in this case of the incoming supply of filtered air to provide 1.5kW of cooling capacity
- Differs from traditional air-conditioning by using the air performance of our MVHR system to deliver the available cooling power

Option Box

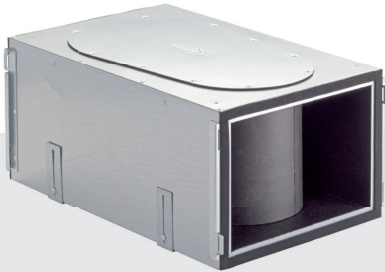
Provides additional connectivity options

Comfo Connect KNX C

Provides KNX connectivity options

ComfoConnect LAN C

Provides LAN connectivity options for remote control



ComfoWell

Air Distribution Manifold and Attenuator

- All air treatments available: attenuator, fine filter, active carbon filter, manifold box
- Modular design
- High levels of sound attenuation
- Components connected with locking slides for easy mounting
- Directly connected to all components of the ComfoWell system
- Easy to clean

ComfoAir Q Pre-Heater

Increases the temperature of the outdoor airflow in order to protect the heat exchanger against frost.

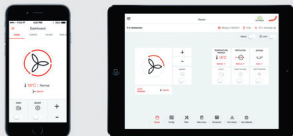
- Accurate modulation based on flow rate and temperature
- Interchangeable (left/right)
- Low resistance
- Tilt switch: orientation defines left/right unit
- No mounting errors

Simply making every step easier

Easy, reliable plug-and-play installation, guidance through commissioning, easy maintenance and remote monitoring. Combine several devices with the ComfoAir Q unit to extend possibilities.

Easy operation from switch to mobile app*

App



Display



Controllers



Anything is possible – from a simple display on the unit, to a practical app that can be used on the go, right through to fully automated, demand-based ventilation using sensors. You can also integrate ComfoAir Q into a building control system via the KNX interface.

* App is only available on iOS and Android

A range of control options

Accessory interface



Option box

Humidity sensor / CO₂ sensor



Wired

Humidity sensor / CO₂ sensor



Wireless signal

Control panel



ComfoSense C



ComfoSwitch C

Wireless controls



RFZ & RF timer



Cable



Internet



Wireless signal

Display



KNX Interface



ComfoConnect LAN C



ComfoConnect LAN C

app



Smart phone

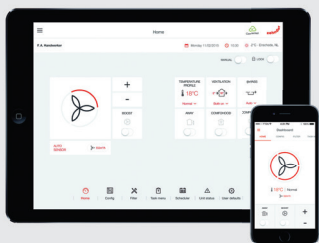


Tablet



zehnder

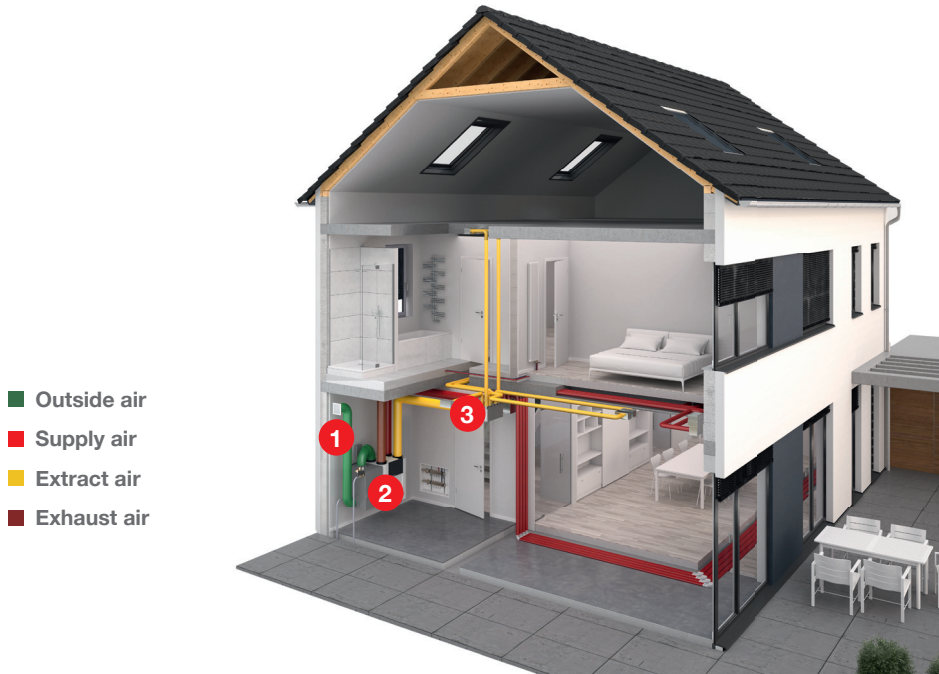
ComfoControl App



- Control and monitor the ventilation system via the ComfoControl App
- Control ventilation flow rate, temperature profile, temporary high speed setting and external sensor
- Monitor ventilation flow rates, temperatures and external sensors
- 7 day flow rate programmer
- Access the ventilation system remotely from anywhere in the world
- Service and Maintenance alert direct to your phone
- User menu access
- Installer menu access

Perfect integration

With a full range of components designed to work together, ComfoAir Q can be integrated into a home simply and effectively to provide fresh air and comfort.



How it works

1. Supply of fresh air:

Fresh air is fed into the system via an external wall vent. The fresh outside air can optionally flow through a sub-soil heat exchanger beforehand which uses geothermal energy to pre-temper the outside air.

2. Ventilation unit:

Up to 96% of the heat is recovered from the extract air and transferred to the fresh air. This can be humidified, dehumidified, heated and cooled using optional components.

3. Air distribution:

The air distribution system channels fresh air at the right temperature to individual rooms as needed and vents the extract air to the outside. The air volume can be individually adjusted for each room.

Easier, more efficient and more comfortable

Ventilation systems from ensure the legally required minimum air exchange, lower heating costs and provide for a comfortable indoor climate all the year round. Over 40 years' experience developing and producing form the basis for Versatile complete systems. The individual components, intelligently designed to work together, are characterised by the highest level of functionality and durability. With ComfoAir Q, Versatile has launched the next generation of ventilation units: Thanks to optimum design and coordination of the main components, they offer the best in sound power level values and particularly low energy consumption.

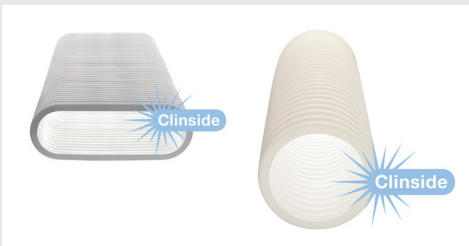
ComfoFresh air distribution system

Hygienic and clean: in addition to the ventilation unit, the air distribution system also plays an essential role in the optimum functionality of comfortable indoor ventilation: it influences ventilation performance, noise level, appearance, energy efficiency, hygiene and ease of maintenance.

Clinside, the smooth inner skin of the ventilation tubes prevents the build-up of dust. Only minimal maintenance is required for optimal operation.

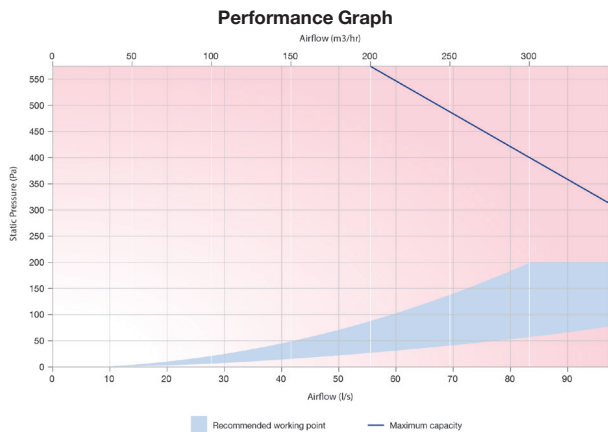
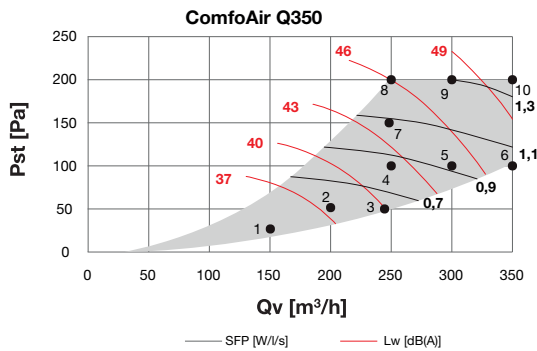
The air distribution system is SKZ certified and approved by the Hygiene Institute.

- The air distribution system can be incorporated into ceilings, walls and floors using round tubes, flat tubes, or a combination of the two - a sophisticated system for any situation
- Perfectly matched components for every installation situation
- ComfoPipe Plus outdoor and exhaust air connections with optimum insulation
- Designer grille for harmonious integration into any setting



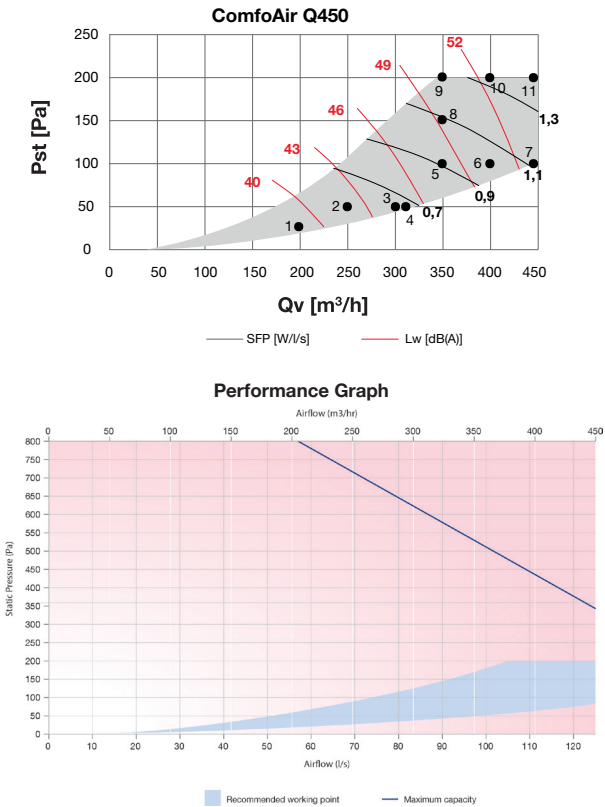
Data performance tables

ComfoAir Q350				
Reference	Airflow [m³/h]	Pa	P [W]	Sound Pressure level @3m [dB(A)]
1	150	25	16	16.0
2	200	50	31	20.1
3	245	50	43	22.6
4	250	100	59	24.9
5	300	100	77	27.6
6	350	100	98	30.5
7	250	150	74	26.9
8	250	200	88	28.9
9	300	200	108	31.0
10	350	200	131	33.4



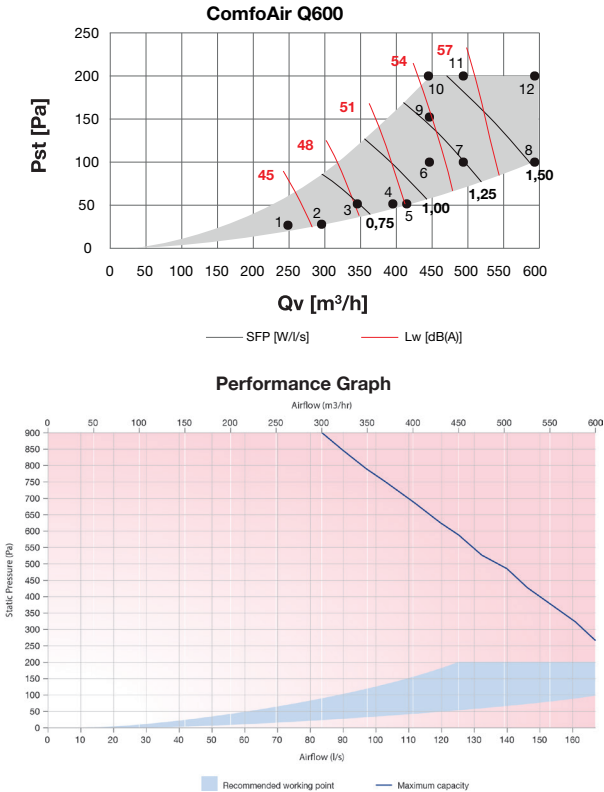
Data performance tables

ComfoAir Q450				
Reference	Airflow [m³/h]	Pa	P [W]	Sound Pressure level @3m [dB(A)]
1	200	25	19	22.0
2	250	50	37	25.0
3	300	50	53	27.3
4	315	50	59	28.0
5	350	100	89	30.8
6	400	100	113	33.1
7	450	100	140	35.6
8	350	140	106	31.9
9	350	200	122	33.0
10	400	200	148	35.2
11	450	200	177	37.5



Data performance tables

ComfoAir Q600				
Reference	Airflow [m³/h]	Pa	P [W]	Sound Pressure level @3m [dB(A)]
1	250	25	28	26.3
2	300	25	44	28.3
3	350	50	72	30.9
4	400	50	97	33.0
5	420	50	107	33.9
6	450	100	143	35.9
7	500	100	176	38.1
8	600	100	254	42.7
9	450	150	162	36.7
10	450	200	180	37.5
11	500	200	215	39.6
12	600	200	296	43.9



SAP Product Characteristics Database

ComfoAir Q350

Exhaust terminal configuration	Specific fan power (W/l/s)	Heat exchange efficiency (%)
Kitchen	0.60	96
+ 1 additional wet room		
Kitchen	0.53	95
+ 2 additional wet rooms		
Kitchen	0.57	94
+ 3 additional wet rooms		
Kitchen	0.64	94
+ 4 additional wet rooms		
Kitchen	0.72	93
+ 5 additional wet rooms		
Kitchen	0.89	93
+ 6 additional wet rooms		
Kitchen	1.03	93
+ 7 additional wet rooms		

Passive House Data

	Standard heat exchanger	Enthalpy heat exchanger
Airflow range	70–270m³/h	70–270m³/h
Heat recovery rate	$\eta_{HR} = 90\%$	$\eta_{HR} = 86\%$
Specific electric power	$P_{el,spec} = 0.24 \text{ Wh/m}^3$	$P_{el,spec} = 0.22 \text{ Wh/m}^3$
Humidity recovery		$\eta_k = 73\%$

ComfoAir Q450

Exhaust terminal configuration	Specific fan power (W/l/s)	Heat exchange efficiency (%)
Kitchen	0.54	96
+ 1 additional wet room		
Kitchen	0.53	95
+ 2 additional wet rooms		
Kitchen	0.55	94
+ 3 additional wet rooms		
Kitchen	0.62	94
+ 4 additional wet rooms		
Kitchen	0.73	93
+ 5 additional wet rooms		
Kitchen	0.86	93
+ 6 additional wet rooms		
Kitchen	1.04	93
+ 7 additional wet rooms		

Passive House Data

	Standard heat exchanger	Enthalpy heat exchanger
Airflow range	70–345m³/h	70–345m³/h
Heat recovery rate	$\eta_{HR} = 88\%$	$\eta_{HR} = 83\%$
Specific electric power	$P_{el,spec} = 0.21 \text{ Wh/m}^3$	$P_{el,spec} = 0.21 \text{ Wh/m}^3$
Humidity recovery		$\eta_k = 71\%$

ComfoAir Q600

Exhaust terminal configuration	Specific fan power (W/l/s)	Heat exchange efficiency (%)
Kitchen	0.63	96
+ 1 additional wet room		
Kitchen	0.60	95
+ 2 additional wet rooms		
Kitchen	0.63	94
+ 3 additional wet rooms		
Kitchen	0.71	94
+ 4 additional wet rooms		
Kitchen	0.79	93
+ 5 additional wet rooms		
Kitchen	0.91	93
+ 6 additional wet rooms		
Kitchen	1.06	93
+ 7 additional wet rooms		

Passive House Data

	Standard heat exchanger	Enthalpy heat exchanger
Airflow range	70–460m³/h	70–460m³/h
Heat recovery rate	$\eta_{HR} = 87\%$	$\eta_{HR} = 80\%$
Specific electric power	$P_{el,spec} = 0.24 \text{ Wh/m}^3$	$P_{el,spec} = 0.22 \text{ Wh/m}^3$
Humidity recovery		$\eta_k = 68\%$

Future-proof solution: easy transition from ComfoAir to ComfoAir Q

	ComfoAir	ComfoAir Q	Your benefits
Planning/Ordering			
Versions	<ul style="list-style-type: none"> ComfoAir 350 ComfoAir 550 	<ul style="list-style-type: none"> ComfoAir Q350 ComfoAir Q450 ComfoAir Q600 	<ul style="list-style-type: none"> Higher maximum airflow Three units instead of two: optimum system design in projects
Connections	<ul style="list-style-type: none"> Left-hand or right-hand version 	<ul style="list-style-type: none"> Left-hand and right-hand version in a single unit for adaptation to the installation on site 	<ul style="list-style-type: none"> Always the right unit even when there are last-minute changes Reduced stock levels
Certificates	<ul style="list-style-type: none"> PHI, DIBT, EPBD, SAP PCDB, NF 205, NEN 5138, EN 308 	<ul style="list-style-type: none"> PHI, DIBT, EPBD, SAP PCDB, NF 205, ERP energy label, NEN 5138, EN 308 	<ul style="list-style-type: none"> Future-proof Worry-free installation Much better figures
Pre-heater	<ul style="list-style-type: none"> The pre-heater is built into the unit 	<ul style="list-style-type: none"> The pre-heater is easy to retrofit 	<ul style="list-style-type: none"> Easy to retrofit Reduces unit versions
Installation			
Connections	<ul style="list-style-type: none"> Fixed right/left supply and extract air connection 	<ul style="list-style-type: none"> Supply air and extract air connection easy to switch between right and left 	<ul style="list-style-type: none"> Always the right unit in just a few steps
Compatibility	<ul style="list-style-type: none"> overall system compatible with ComfoAir 350 and ComfoAir 550 	<ul style="list-style-type: none"> overall system compatible with ComfoAir Q350, ComfoAir Q450 and ComfoAir Q600 (e.g. air distribution system, ComfoCool Q600, ComfoFond-L Q) 	<ul style="list-style-type: none"> The ventilation unit still matches the air distribution 100% The range of connection components has also been expanded to make installation even easier.
Commissioning			
Commissioning wizard	<ul style="list-style-type: none"> Manual commissioning via the parameter menu 	<ul style="list-style-type: none"> Commissioning is easy with the start-up wizard which takes you through the simple process step by step 	<ul style="list-style-type: none"> Simple and quick commissioning Reliable system function
Volume flow balance	<ul style="list-style-type: none"> Fixed fan speed setting during commissioning 	<ul style="list-style-type: none"> Sensor technology guarantees optimum air volume balance Flow Control maintains the set volume flow by automatically adjusting the fan speed 	<ul style="list-style-type: none"> Simple and quick commissioning Maximum heat recovery Comfort for the occupant

	ComfoAir	ComfoAir Q	Your benefits
Maintenance/Use			
Filter concept	<ul style="list-style-type: none"> • Standard filter concept • Time-based filter alert • Improved industry standards aid selection of air filters 	<ul style="list-style-type: none"> • Filters tested to the new standard ISO 16890 • Unit filter directly on the air intake • Filter flap for an even better seal • Larger filter material surface due to it being pleated tighter • Intelligent filter alert according to air volume and time • Filter change wizard 	<ul style="list-style-type: none"> • Filter gradings are easier to understand because they show the efficiency relative to the particle matter size • No build-up of dust in the unit and in the air distribution system • Filter replacement as needed thanks to indicator • Larger surface means lower pressure loss • Lower pressure loss means reduced running costs • Simple, error-free filter replacement
Pre-heater	<ul style="list-style-type: none"> • Pre-heater off/on 	<ul style="list-style-type: none"> • Pre-heater works in a modulating manner 	<ul style="list-style-type: none"> • Optimum energy efficiency thanks to intelligent temperature control of the drawn-in outdoor air • Reduced electrical power consumption
Operating concept	<ul style="list-style-type: none"> • No direct operation on the unit possible. For operation with: ComfoSense, 3-position switch, RF, ComfoControl Luxe 	<ul style="list-style-type: none"> • Intuitive display on the unit with plain text in the language of the country and a real-time indicator • ComfoSwitch C, ComfoSense C, RFZ remote control operation and RF timer, ComfoControl app, KNX interface 	<ul style="list-style-type: none"> • Easy and convenient operation • Individual choice of operating concept
User comfort	<ul style="list-style-type: none"> • Fixed comfort temperature (can be selected on an individual basis) • By-pass switched on or off, 0 or 100% 	<ul style="list-style-type: none"> • Adaptive comfort technology: factors in temperature perception according to the outside temperature pattern • Modulating by-pass: automatically adjusts heat recovery to calculated comfort temperature • One of the quietest ventilation units on the market. 	<ul style="list-style-type: none"> • Automatically creates the optimum supply air temperature, for a perfect well-being climate • The easy way to ensure a quiet, comfortable indoor climate

Notes

Notes

Terms and conditions of business

A handling charge of £15 will be applied to all orders less than £350 net.

Standard delivery for stock items is 3 days, subject to availability.

Delivery times for non-stock items can be up to 35 days.

Morning and overnight deliveries are available subject to conditions and will incur a £25 minimum additional charge.

Orders must be placed before 11am to be eligible for overnight delivery.

All quotations are valid for 30 days.

The basis for our offer, acceptance of orders, order confirmations or sales contracts is the current valid price list.

Sales are subject to our standard terms and conditions which are available on request.

Due to our policy of continuous change and improvement, product specification, price and availability may be subject to change without prior notice.

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