

zehnder

always the
best climate

Zehnder ComfoAir Q

Product data sheet



Zehnder ComfoAir Q: the new generation

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



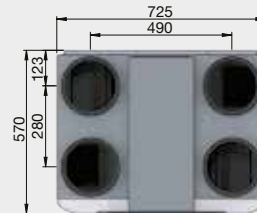
Product Information

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 160m²
 - Q450 - up to 180m²
 - Q600 - up to 230m²
- 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
- Wall mounted or free standing on mount

Dimensions

All measurements in mm unless otherwise indicated



Dimensions are the same across all models

Physical Specification

- Weight: 50kg
- Condensate connection: 32mm
- Ducting:
 - 160mm: Q350
 - 180mm: Q450/Q600
- Fans: EC
- Filters: G4/G4 or G4 extract F7 supply

Zehnder ComfoAir Q units achieve Passive House Component accreditation



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

Zehnder ComfoAir Q350

Zehnder ComfoAir Q450

Zehnder ComfoAir Q600

Driving system performance through innovation

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 you hear 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.



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 guarantees not only extremely quiet operation, but also particularly low power consumption. A high-quality, future-proof solution, based on tried-and-tested technology.



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 there is no need to adjust the speed manually and the air volumes are balanced automatically.

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.

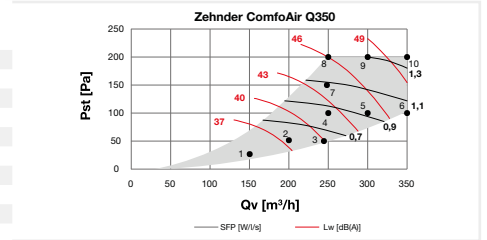


Data performance tables and SAP Product Characteristics Database data



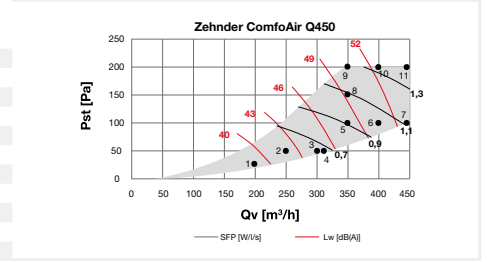
Zehnder ComfoAir Q350

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



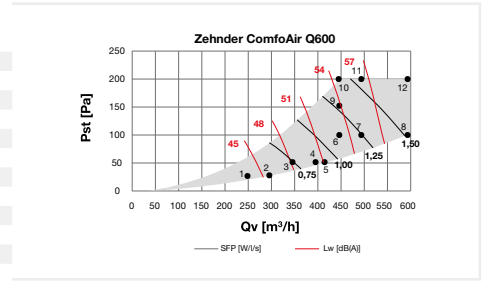
Zehnder ComfoAir Q450

Airflow [m³/h]	Pa	P [W]	Sound Pressure level @3m [dB(A)]
200	25	19	22.0
250	50	37	25.0
300	50	53	27.3
315	50	59	28.0
350	100	89	30.8
400	100	113	33.1
450	100	140	35.6
350	140	106	31.9
350	200	122	33.0
400	200	148	35.2
450	200	177	37.5



Zehnder ComfoAir Q600 ²

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



Zehnder ComfoAir Q350

Exhaust terminal configuration	Air flow rate (l/s)	Specific fan power (W/l/s)	Heat exchange efficiency (%)
Kitchen + 1 additional wet room	22l/s	0.60	96
Kitchen + 2 additional wet rooms	29l/s	0.53	95
Kitchen + 3 additional wet rooms	37l/s	0.57	94
Kitchen + 4 additional wet rooms	45l/s	0.64	94
Kitchen + 5 additional wet rooms	53l/s	0.72	93
Kitchen + 6 additional wet rooms	61l/s	0.89	93
Kitchen + 7 additional wet rooms	69l/s	1.03	93

Zehnder ComfoAir Q450

Exhaust terminal configuration	Air flow rate (l/s)	Specific fan power (W/l/s)	Heat exchange efficiency (%)
Kitchen + 1 additional wet room	21.1l/s	0.54	96
Kitchen + 2 additional wet rooms	29.3l/s	0.53	95
Kitchen + 3 additional wet rooms	37.9l/s	0.55	94
Kitchen + 4 additional wet rooms	45.0l/s	0.62	94
Kitchen + 5 additional wet rooms	53.2l/s	0.73	93
Kitchen + 6 additional wet rooms	61.1l/s	0.89	93
Kitchen + 7 additional wet rooms	69.1l/s	1.03	93

Zehnder ComfoAir Q600 ²

Exhaust terminal configuration	Air flow rate (l/s)	Specific fan power (W/l/s)	Heat exchange efficiency (%)
Kitchen + 1 additional wet room	21.0l/s	0.63	96
Kitchen + 2 additional wet rooms	29.3l/s	0.60	95
Kitchen + 3 additional wet rooms	37.2l/s	0.63	94
Kitchen + 4 additional wet rooms	45.3l/s	0.71	94
Kitchen + 5 additional wet rooms	53.3l/s	0.79	93
Kitchen + 6 additional wet rooms	61.3l/s	0.91	93
Kitchen + 7 additional wet rooms	69.3l/s	1.06	93

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All information believed to be correct at the time of going to press. E&OE. All goods are sold according to Zehnder Group UK Ltd's Standard Conditions of Sales (available on request).

All dimensions are in millimetres unless otherwise shown. Zehnder Group UK reserves the right to change specifications and prices without prior notice.

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