LUFITAT

zehnder
always the best climate

Always the best climate for the

IDEAL INSTALLATION

New generation ventilation units – Zehnder ComfoAir Q

EASIER TO INSTALL

Nothing can go wrong during the installation stage thanks to flexible connections, the commissioning wizard and professional support from Zehnder.

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BETTER ENERGY EFFICIENCY

Zehnder ComfoAir Q allows you to reliably meet today's high energy standards and provides you with all the relevant certificates for government subsidies.

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Zehnder ComfoAir Q: creating comfort for maximum customer satisfaction

Easy installation and commissioning, as well as professional support from planning through to maintenance: installing residential ventilation with heat recovery is easy with Zehnder's overall system for comfortable indoor ventilation and the new, intelligent ComfoAir Q comfort ventilation units. Provide your customers with the best solution in terms of the well-being effect and energy efficiency to ensure that they recommend you to others. The Zehnder ComfoAir Q ventilation units have all the relevant certificates*, so that government subsidies can be applied for.
With innovative solutions, they guarantee efficient and quiet operation, maximum heat recovery, a perfect feel-good climate and state-of-the-art ease of use. And ultimately, this leads to satisfied customers.

Zehnder ComfoAir Q is the successor generation to Zehnder ComfoAir 350 and 550.

* Application pending approval.

MORE LIVING COMFORT

The Zehnder ComfoAir Q ventilation unit has come up with various innovative ways to maximise the well-being effect for your customers.

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PERFECT INTEGRATION

With perfectly matched system expansions and air distribution components, Zehnder ComfoAir Q can be integrated harmoniously into the Zehnder overall system for comfortable indoor ventilation.

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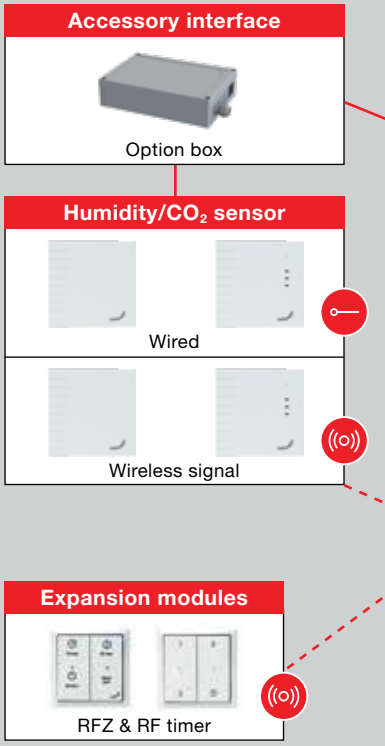
Simply making every step easier

Easy, reliable plug-and-play installation, guidance through commissioning, easy maintenance and remote monitoring: Zehnder ComfoAir Q makes your work easier in every respect and is guaranteed to leave you with satisfied customers – not to mention the quality guarantee, technical expertise and service support of an established brand that you will benefit from.

A range of control optio



Flexible installation in every situation

Zehnder ComfoAir Q TR

Zehnder ComfoAir Q ST

The connections can be changed from right to left, ensuring that everything fits even when the installation situation is modified. Whether you are working on a new build or a renovation project, air volumes of 350, 450 and 600 m³/h make Zehnder ComfoAir Q the flexible solution for single-family and multiple-family houses, as well as offices and commercial buildings.

Easy commissioning in three steps

In three steps, the integrated commissioning wizard assists you in setting up the ventilation system exactly as required. The commissioning process concludes with an automatic system test and confirmation. This allows you to put the new comfort ventilation unit into operation easily, quickly and safely.

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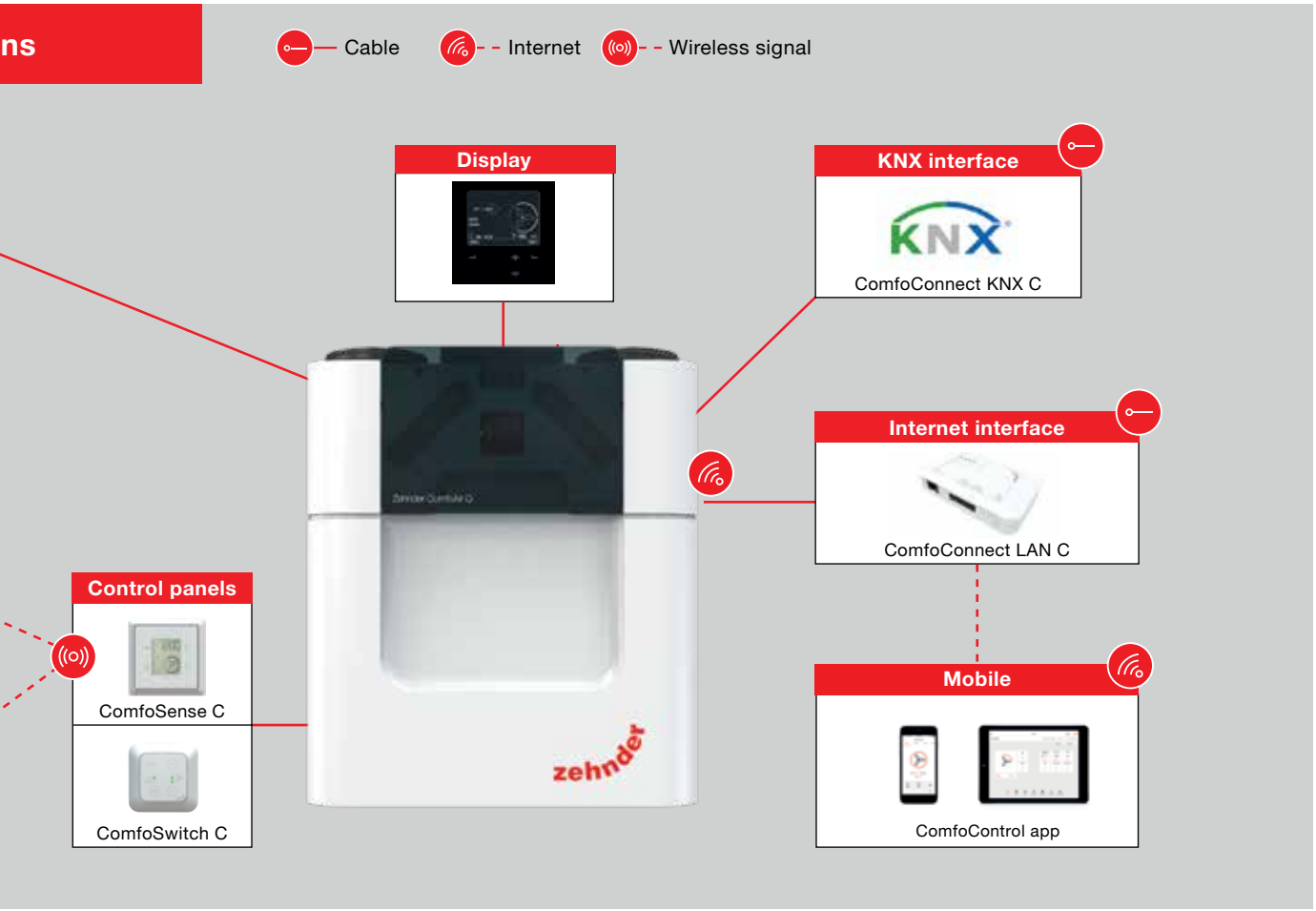
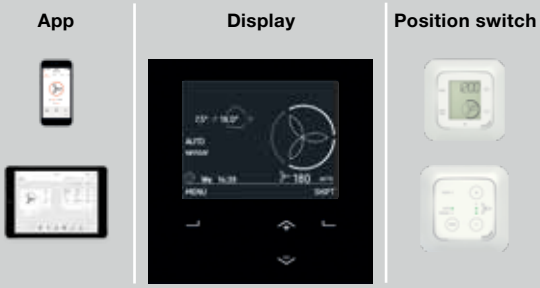
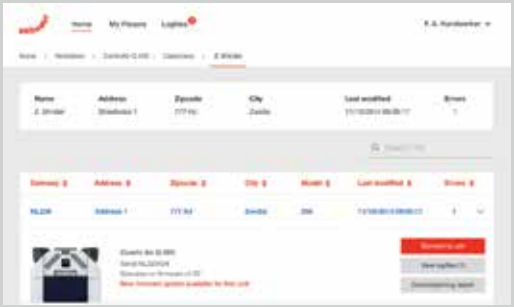


Easy operation from switch to app



Give your customers the right operating solution whatever their needs. The extensive range of possibilities includes anything from a simple display on the unit to fully automatic demand-controlled sensor technology ventilation – and even a practical app for when you're on the move. You can also integrate Zehnder ComfoAir Q into a building control system via the KNX interface. **The app is called "ComfoControl" and is available in the AppStore.**

Monitor installed systems easily



During maintenance, Zehnder ComfoAir Q ventilation units are an ideal solution from both a virtual and a practical perspective. You can monitor your installed systems easily via remote access on the Zehnder web portal. The log allows you to view the current status of your system and take a proactive approach to maintenance. What's more, the ventilation units give you easy access to all components.

Reliably meeting the efficiency standards of today and tomorrow

You can be confident when installing this new generation of ventilation units from Zehnder: Thanks to innovative technology, Zehnder ComfoAir Q ventilation units comfortably meet the current European energy standards. Every ventilation unit has the potential to obtain an A+ label – and Zehnder ComfoAir Q is also a safe choice with regard to future standards. When it comes to heat recovery, these units yield the best results on the market [1].

The best energy efficiency class is A+[2] for Zehnder comfort ventilation units

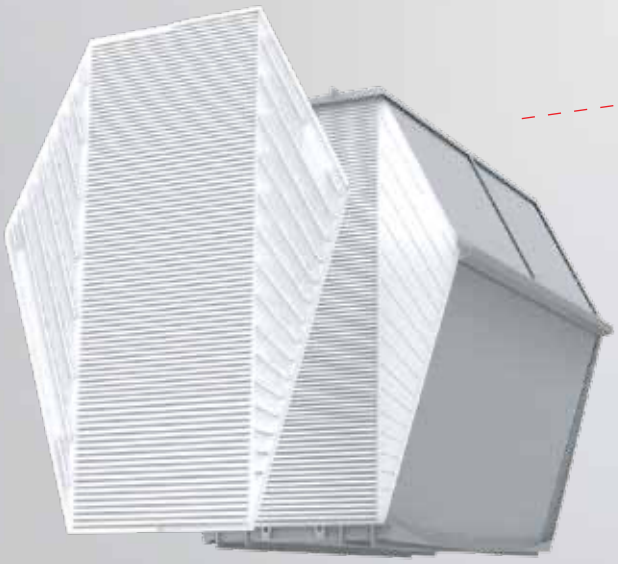
[1] Using the PHI measuring method, 90% heat recovery with an SFP of 0.28/Watt/m³/h at 270 m³/h.

[2] Depending on the control unit/sensor technology chosen.

For detailed information, visit www.zehnder-systems.de

+ ADVANTAGE

Because of its high rate of heat recovery, the Zehnder ComfoAir Q reduces the ventilation heat load by 38%, compared to the average of competitor products
This means you can provide heat over three winters for the price of two!

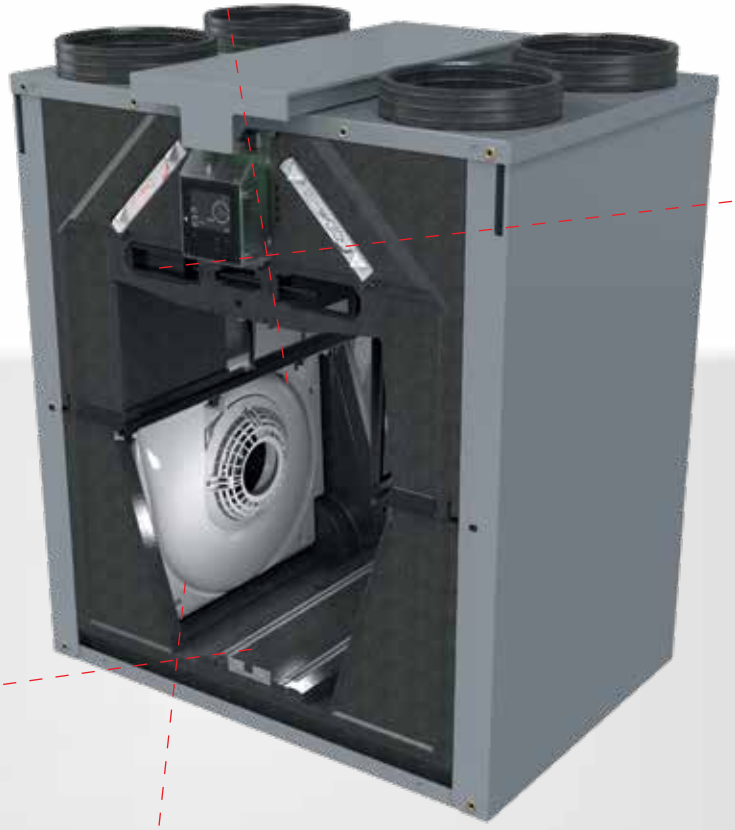


Unique, ultra-powerful heat exchanger – for maximum energy efficiency

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

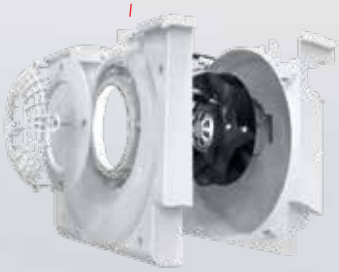
Innovative air volume balancing – for maximum heat recovery

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



Intelligent temperature control of the drawn-in outdoor air – for the best possible energy efficiency

The adaptive pre-heater adapts perfectly to the temperature, volume flow and air humidity, and provides the outside air temperature required for energy-efficient operation no matter the temperature 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 ebm-papst RadiCal 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.

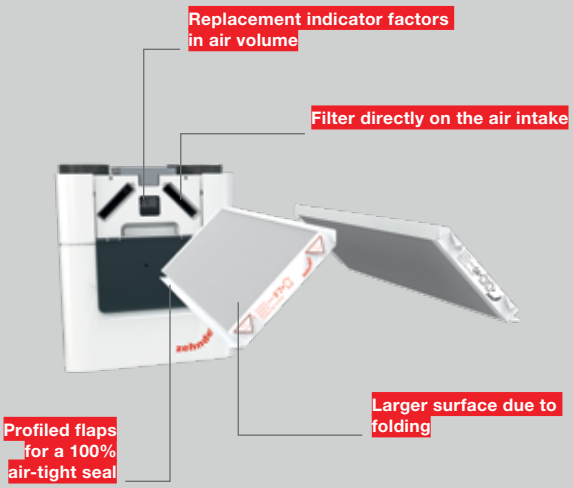
Satisfied customers

Ideal supply air temperature thanks to comfort technology

People's temperature sensation depends on the current outside temperature and the average outside temperatures experienced recently. For this reason, the adaptive climate technology in Zehnder ComfoAir Q adapts the supply air temperature to suit their current needs. As a result, Zehnder ventilation units make an important contribution to ensuring a comfortable indoor climate throughout the year – benefiting your customers.

This is possible thanks to the new modulating by-pass, which controls the exact degree of heat recovery and influences the supply air temperature as a result. The modulating by-pass is guided by an optimum comfort temperature, which is determined on the basis of information from the temperature and humidity sensors as well as an intelligent algorithm.

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



Quiet operation
thanks to the latest innovative components

Zehnder ComfoAir Q ventilation units are almost silent during operation and are currently the quietest units on the market. This has been achieved through the use of innovative, patent-pending components designed to work together in perfect harmony – including state-of-the-art fan technology. For you, the result is a reliable and simple solution that fulfils your customers' need for as much peace and quiet as possible in their home environment.

Optimum hygiene
thanks to powerful filters

Completely sealed and maximised, the filters prevent dust from getting into the room air. There is also a warning indicator to show when it is time to replace the filters, ensuring the air is always clean and healthy. The indicator factors in not only the elapsed time, but also the air volume transported.

Offer complete solutions with comfort at its best

Regardless of whether you are working on a new build or an old building, with Zehnder comfortable indoor ventilation you are providing your customers with an innovative, tried-and-tested complete system. The wide range facilitates individual state-of-the-art solutions. Perfectly matched air distribution components have been added to the product portfolio so that Zehnder ComfoAir Q can be integrated harmoniously into the system.

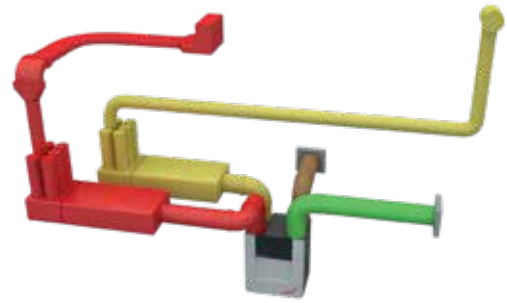
+ OPTIONAL

Zehnder ComfoFond-L Q sub-soil heat exchanger

- Easily and sustainably uses geothermal energy
- Pre-heated outdoor air in winter
- Tempered outdoor air in summer
- Saves energy by using renewable energy from the ground

Zehnder ComfoAir Q comfort ventilation unit

- Complete range available in various air volumes: 350, 450 and 600 m^3/h
- Suitable for single-family and multiple-family houses, office/commercial buildings in new builds or renovations
- Various control and operating options



Zehnder ComfoFresh air distribution system

- 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 outdoor and exhaust air connections with optimum insulation
- Designer grille for harmonious integration into any setting

+ OPTIONAL

Pre-tempering with Zehnder ComfoCool Q

- Tempers and dehumidifies outdoor air
- Fresh air and the right temperature in any season
- Pleasant tempering of the air on hot days
- In combination with ComfoAir Q 600 ST

FAQ

What do I need to consider when planning and ordering?

Three ventilation units are available, each with a different air volume: 350, 450 and 600 m^3/h. As a result, you can design a ventilation system to suit your project perfectly. Sudden changes to the original plans as far as connectors are concerned are no problem at all, because the Zehnder ComfoAir Q design incorporates the right-hand and left-hand version in the same unit.

Will this system ensure I meet the latest energy saving requirements for longer?

Zehnder ComfoAir Q has been awarded or applied for all the relevant energy efficiency certificates. In fact, the ventilation unit actually exceeds the current European energy saving requirements. Zehnder ComfoAir Q is currently the market leader in its class, particularly when it comes to heat recovery. This means that the ventilation unit is the most future-proof solution that you can offer your customers.

There are so many new functions; doesn't this complicate commissioning?

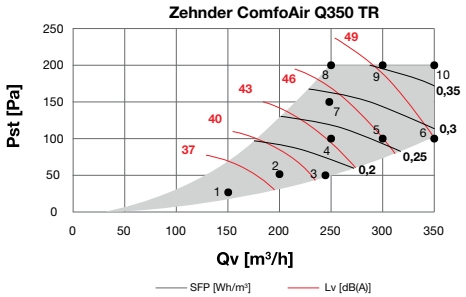
No, because the Zehnder ComfoAir Q menu has an integrated commissioning wizard that helps you set up the ventilation system exactly as required in three steps. The fan speed is also controlled fully automatically by sensors, meaning you do not need to make any extra adjustments during commissioning.

Why should I recommend Zehnder ComfoAir Q to my customers?

Zehnder ComfoAir Q is the best possible solution when it comes to energy efficiency and the well-being effect. The ventilation unit makes an important contribution to comfortable fresh air, is practically silent during operation and offers the right operating solution to suit every need – from the display, to the ComfoControl app, right through to fully automated, demand-based ventilation by means of sensors.

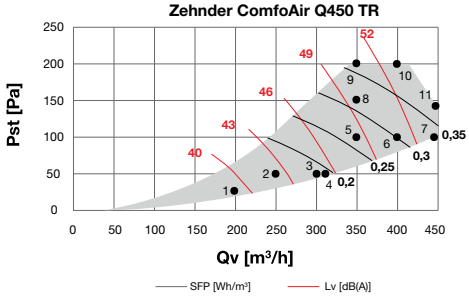
Zehnder ComfoAir Q350 TR [2]

Qv [m³/h]	Pst [Pa]	P [W]	L_w[1] Supply air [dB(A)]	L_w[1] Extract air [dB(A)]	L_w[1] Unit emission [dB(A)]
150	25	13	46	35	34
200	50	30	51	38	38
245	50	42	54	41	41
250	100	58	56	43	43
300	100	77	59	46	46
350	100	100	62	48	49
250	150	71	58	45	45
250	200	85	61	47	47
300	200	106	63	49	49
350	200	131	66	51	52



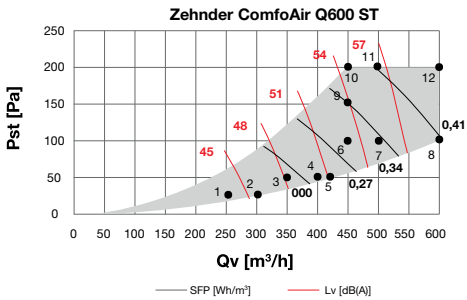
Zehnder ComfoAir Q450 TR [2]

Qv [m³/h]	Pst [Pa]	P [W]	L_w[1] Supply air [dB(A)]	L_w[1] Extract air [dB(A)]	L_w[1] Unit emission [dB(A)]
200	25	17	52	42	39
250	50	37	56	44	42
300	50	55	58	46	45
315	50	61	59	46	45
350	100	94	62	48	48
400	100	121	64	50	51
450	100	152	67	52	53
350	150	110	63	49	49
350	200	127	64	50	51
400	200	156	67	51	53
450	140	166	68	52	54



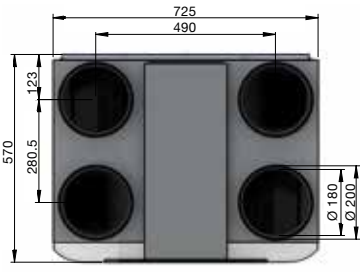
Zehnder ComfoAir Q600 ST [2]

Qv [m³/h]	Pst [Pa]	P [W]	L_w[1] Supply air [dB(A)]	L_w[1] Extract air [dB(A)]	L_w[1] Unit emission [dB(A)]
250	25	21	54	43	43
300	25	36	56	45	45
350	50	64	59	48	48
400	50	87	62	50	50
420	50	98	63	51	51
450	100	134	65	53	53
500	100	166	68	55	55
600	100	243	73	59	60
450	150	153	66	53	54
450	200	173	67	54	55
500	200	207	70	56	57
600	200	287	75	60	61



L_w in dB(A) reference 10^{-12}W, SFP [w/(m³/h)] calculated using data measured in accordance with EN 13141-7: 2010, [1] L_w in dB(A); sound, supply air/extract air measured in accordance with ISO 3741 including end reflection in accordance with EN 13053:2006, [2] Zehnder ComfoAir Q with G4/G4 filter and pre-heater

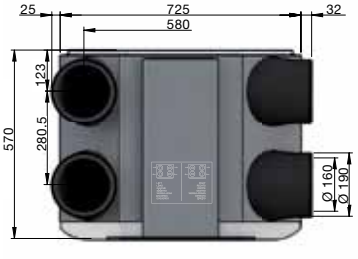
Zehnder ComfoAir Q ST



Top

Front

Zehnder ComfoAir Q TR



Top

Front

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