Zehnder ComfoAir Q450 Complete ERV Kit



Brand: Zehnder
Product Code: 9574-01-Q450-Kit
Weight: 0.00lb
Dimensions: 0.00in x 0.00in x 0.00in

Price: $14,360.92

Short Description

The **Zehnder ComfoAir Q450 Complete ERV Kit** is a high-efficiency ventilation solution designed for large homes and small commercial spaces from **2,300 to 3,000 sq.ft.**. This 8-inch system ensures balanced indoor air quality, recovering heat and moisture for optimal comfort and energy savings. Ideal for spacious layouts, the Q450 kit includes all components for a seamless installation. The kit provides all essential parts for a **complete setup, covering ventilation, controls, ducting, and filtration**.

Description

Q450 Energy Recovery Ventilation System Parts List

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Detailed Parts List - Q450 Energy Recovery Ventilation System 8"

1. Ventilation Unit 2. Controls 3. ComfoPipe & Grills 4. ComfoWell 5. ComfoFresh Ducting 6. Register Boxes 7. Register Covers 8. Filtration

Contains the ERV unit and the internal preheater component. The ERV unit should be installed in conditioned space, which could include a crawl space or an attic. Descri ption

9574-0101	Ventilator-Q-450-ERV-TR-SI	1
9656-00	Comp-Pre Heater-Q	1

The ComfoConnect LAN C allows the user to completely control the unit using the Zehnder App on their smart device. Also included is the ComfoSense Controller, which is a wall mounted control unit that gives the user access to the system's functions. These systems are designed to replace the bathroom exhaust fans and the use of booster switches requires the Option box. Additional sensors are available such as humidity and **CO2 sensors**.

Article No.	Description	Quantity
9619-00	Control-ComfoConnect-Lan C	1
9617-01	Control-ComfoSense-C67-w/Box	1
9556-00	Comp-Bath Boost Switch-Wired	4
9620-01	Control-Optionbox-Lite-Q	1

Contains all components needed to penetrate the building envelope and connect the unit to the outside. The Exterior Wall Grills, and single piece of ComfoPipe are necessary for rough in. The exterior grills need to be at least 10 feet apart, 2 feet above grade, and accessible for seasonal cleaning. The sticks are 1 meter long and the bends come in 45-degrees. The quantities listed in our standard package are estimates and may need adjustment based on your building's layout. Please measure installation areas to verify quantities needed.

Article No.	Description	Quantity

9634-00	Duct-ComfoPipe-200mm-1m (Measure)	10
9635-00	Duct-ComfoPipe-200mm-45º (Measure)	8
9636-00	Duct-ComfoPipe-200mm-Directional Coupler (Measure)	2
9642-00	Duct-Exterior Grill-200mm	2

Contains the components required to connect the internal ducting to the unit, including the silencer and manifold.

Manifolds can be mounted on the unit itself, on the ceiling, behind drywall, or branched down away from the unit to make the 3-inch tube runs shorter. The systems are designed to have an equal number of supply and exhaust runs.

Article No.	Description	Quantity
9324-00	ComfoWell-End Plate-5x2-200mm	2
9320-00	ComfoWell-Silencer-5x2	2
9592-00	ComfoWell-Manifold-5x2-T	2

Contains the 3-inch ducting from the manifolds to the rooms, o-rings, couplers, and marking tags. Three-inch runs fit in 2x4 walls and connect to room registers. Shortest duct runs are always best, but typical designs can have runs up to 60 or 70 feet. The kits assume average duct lengths of 40 feet. This entire section is necessary for rough in. Please measure installation areas to verify quantities needed.

Article No.	Description	Quantity
9272-00	Duct-ComfoTube 75-162.5ft (Measure)	10
9274-00	Duct-O Ring-ComfoTube 75	50
9273-00	Duct-Coupling-ComfoTube 75	5
9511-00	Duct-Marking Tags-ComfoTube-10R/10B	1

Contains register boxes for individual rooms. This entire section is necessary for rough in.

Article No.	Description	Quantity
9789-00	Register-Round-2x1	10

Contains register covers for the supply and exhaust locations. These systems exhaust

from bathrooms and the kitchen, and supply to the bedrooms and common spaces.

Article No.	Description	Quantity
9609-00	Diffuser-Round-Supply-Luna	5
9764-00	Diffuser-Round-Extract-Luna	5

Contains five of each: Extract air: G4 (MERV 7-8) ~ Outdoor air: F7 (MERV 13)

Description

Filter-Q-Set-G4/F7

Additional ComfoPipe

Q450 Measurement Guide

Important: Measure Before Installation

To ensure proper installation of your Q450 Energy Recovery Ventilation System, accurate measurement of your specific installation requirements is essential. The quantities listed in our standard package are estimates and may need adjustment based on your building's layout.

?? Please Note: The standard package includes estimated quantities of ComfoPipe components. You may need additional components based on your specific installation requirements.

Measurement Steps:

1. **Determine the exact locations for your intake and exhaust connections**
2. **Measure the total straight line distance needed for all ComfoPipe runs**
3. **Count the number of turns required and determine the angles needed**

4. **Add approximately 10% extra length to account for cutting waste and adjustments**

? Tip: For most installations, you'll need additional ComfoPipe sections beyond the standard package. One meter sections can be easily cut to your exact specifications.

Standard Package Components:

SKU	Description	Quantity
9634-00	Duct-ComfoPipe-200mm-1m	10
9635-00	Duct-ComfoPipe-200mm-45º	8
9636-00	Duct-ComfoPipe-200mm-Directional Coupler	2

How to Adjust Your Order:

After measuring your specific requirements, you may need to add additional components to your cart:

- **For additional straight runs: Add more "Duct-ComfoPipe-200mm-1m" units**
- **For additional turns: Add more "Duct-ComfoPipe-200mm-45º" units**
- **For additional directional couplers: Add more "Duct-ComfoPipe-200mm-Directional Coupler" units**

Add Additional ComfoPipe Components **Add Additional ComfoPipe 45º** **Add Additional Directional Coupler**

If you need assistance with calculating the correct quantities for your installation, please contact our technical support team.

Additional ComfoTube

ComfoFresh Ducting: Accurate Measurement Required

The ComfoFresh Ducting system connects your ComfoWell manifold to the individual room terminals. Proper measurement of your specific requirements is crucial for a successful installation.

?? Important: The standard package includes 2 rolls (162.5ft each) of ComfoTube 75 ducting. You must verify if this quantity is sufficient for your specific building layout before proceeding with installation.

How to Calculate Required Ducting:

1. **Map out the precise location of each supply and exhaust terminal**
2. **Measure the path from each terminal to the ComfoWell manifold**
3. **Account for bends and routing around obstacles (add 1ft per bend)**
4. **Sum all paths to determine total required length**
5. **Add 15% extra for cutting waste and potential route changes**

? Pro Tip: Keep ducting runs as short and straight as possible. Each 10 feet of additional duct length or bend creates resistance that can reduce airflow efficiency.

Standard Package Component:

Article No.	Description	Quantity	Unit Price	Total
9272-00	Duct-ComfoTube 75-162.5ft	2	$374.00	$748.00

Common Installation Scenarios:

Home Size	Typical Rooms	Estimated Ducting	Rolls Needed
Small (<1500 sq ft)	6-8 terminals	180-240 ft	2 rolls
Medium (1500-2500 sq ft)	8-12 terminals	280-360 ft	3 rolls
Large (2500+ sq ft)	12+ terminals	380+ ft	3+ rolls

Need Additional Ducting?

Based on your measurements, if you require additional ComfoTube ducting:

- **Each roll contains 162.5 feet of flexible ducting**
- **Additional O-rings (item 9274-00) may be needed for connections**
- **Consider ordering extra coupling pieces (item 9273-00) for longer runs**

Add Additional ComfoTube

For assistance with calculating your specific ducting requirements, please contact our ventilation design specialists at.

Zehnder ERV

Product Gallery