VMI

STRENGTHS

> **Smart control and connectivity** with humidity and CO_2 sensors, remote control, and VA CONNECT mobile app.

> **Energy savings**: heat recovery efficiency up to 93% and 100% modular bypass, active year-round

> **Installation flexibility**: vertical or horizontal branch connections and left/right reversibility

Description	Ref. no.
Eyota 450 CO2 LH	1303.0005
Eyota 450 CO2 RH	1303.0008

The Eyota 450 positive input ventilation system ensures optimal air quality in **homes up to 350 m²**. It **filters the** incoming air, removing **humidity**, **CO_2**, and **VOCs** while ensuring **thermal comfort** and **energy savings**. Its high-efficiency heat exchanger **recovers up to 93% of the heat from the extracted** air to warm the incoming air.

UP TO **450** m³/h
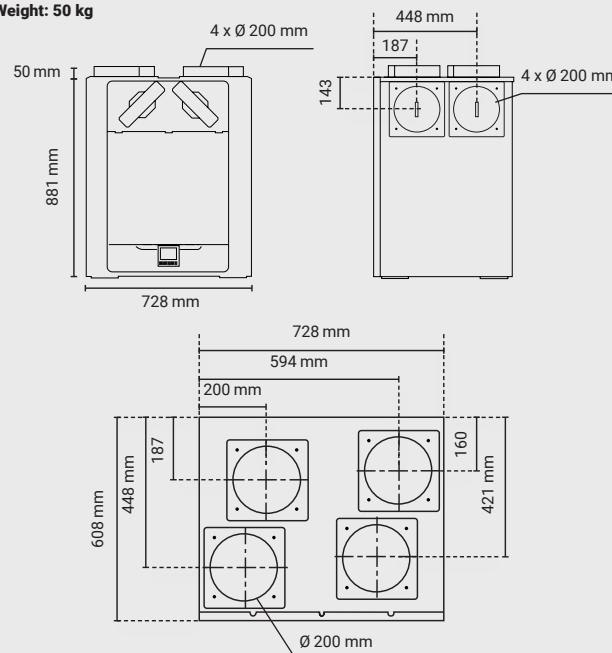
FROM **28,8** dB(A)

2-year guarantee

DESCRIPTION

≫ The housing is made of PPE with an ABS outer shell

≫ 2 very low consumption EC3 motors with constant flow

≫ 2 G4 pollen filters - Coarse 60% *(according to ISO 16890 standard)*

≫ Integrated control screen

≫ 4 ventilation levels: low, normal, high, intense

≫ Integrated humidity, CO_2, temperature, and pressure sensors

≫ Option to add up to 32 optional sensors (humidity/temperature, CO_2, and presence) to customise the installation room by room

≫ Counterflow heat exchanger with up to 93% efficiency

≫ 100% modular bypass

≫ Integrated preheating system on the left (Eyota 450 CO2 LH) or right (Eyota 450 CO2 RH)

≫ 4 top connections, 2 left connections, 2 right connections

≫ Digital reversibility right/left

≫ Assisted configuration via the VA CONNECT mobile app
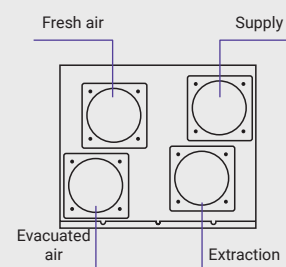
≫ 1.5 metre power cable

TECHNICAL DATA

≫ Maximum flow rate: 450 m³/h

≫ Maximum recommended surface area: 350 m²

≫ Thermal efficiency: up to 93%

≫ Maximum power: 2 x 103 W (206 W)

≫ Energy rating: **A+**

≫ Voltage: 230 V 50 Hz

≫ Communication: RF868 MHz, RS485 input, Modbus, Bluetooth, WiFi, 5 digital inputs (reversible), 2 LS inputs, 2 0-10V inputs, LED output

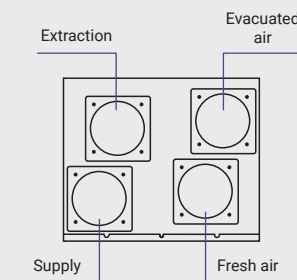≫ Maximum operating temperatures: -20°C / 40°C

DIMENSIONS

Weight: 50 kg

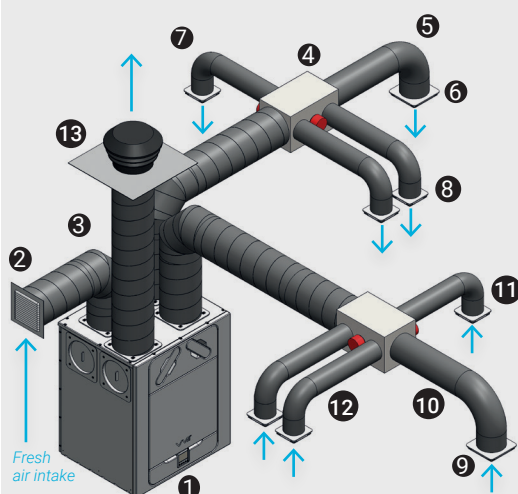4 x Ø 200 mm
50 mm
881 mm
728 mm
448 mm
187
143
4 x Ø 200 mm

728 mm
594 mm
200 mm
187
160
421 mm
448 mm
608 mm
Ø 200 mm

LEFT

Fresh air   Supply
Evacuated air   Extraction

RIGHT

Extraction   Evacuated air
Supply   Fresh air

EXAMPLES OF A STANDARD SETUP

VERTICAL SETUP

Fresh air intake

1. Housing Eyota 450 CO2 LH - **1303.0005**
   Eyota 450 CO2 RH - **1303.0008**
2. External rainproof grille - *Not supplied*
3. Duct Ø 200 mm in PEE, aluminium or PVC insulated - *Not supplied*
4. Distribution plenum - *Not supplied*
5. Semi-rigid insulated duct to lounge, living room Ø 125 mm - *Not supplied*
6. Supply grille Ø 125 mm - 102.0017
7. Semi-rigid insulated duct to bedrooms Ø 80 mm - *Not supplied*
8. Supply grilles Ø 80 mm - 102.0016
9. Extraction grille Ø 125 mm - 102.0017
10. Semi-rigid insulated duct to kitchen Ø 125 mm - *Not supplied*
11. Extraction grilles Ø 80 mm - 102.0016
12. Semi-rigid insulated duct to bathroom/toilet Ø 80 mm - *Not supplied*
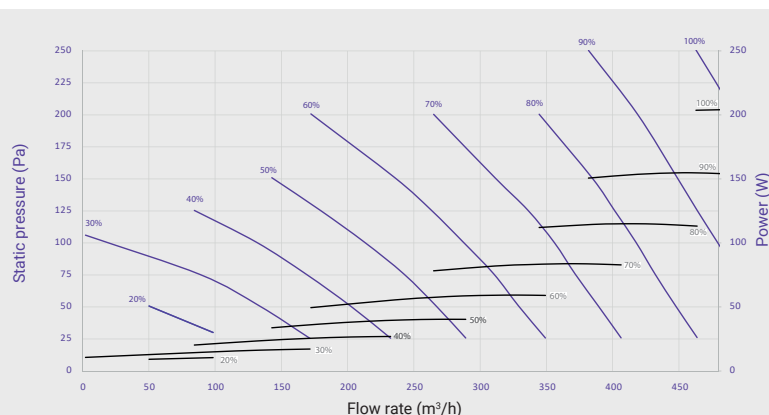13. Roof outlet Ø 200 mm - *Not supplied*

HORIZONTAL SETUP

Fresh air intake
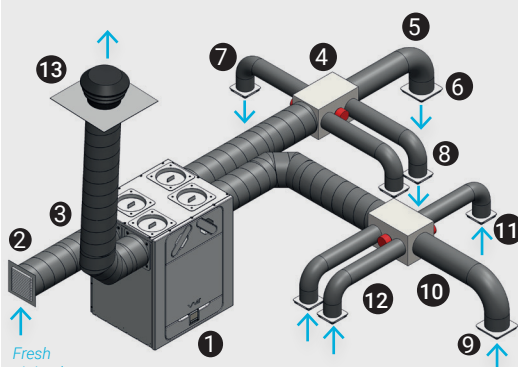
BOX CONTENTS

Description	Quantity
Eyota 450 CO2 module	1
Pollen filter G4 - Coarse 60%	2
Wall-mounting bar	1

PERFORMANCE

Air flow rate in m³/h	Pressure drop in Pa	Power input in W	SFP in W/m³h
250	50	37	0.15
350	100	83	0.24
450	200	182	0.40

Air flow rate in m³/h	Pressure drop in Pa	Sound power of supplied air in dB(A) [1]	Sound power of extracted air in dB(A) [1]	Radiated sound power in dB(A) [1]	Radiated sound pressure in dB(A) 1m [1]
150	25	47.9	34	36.7	28.8
250	100	59.9	44.2	48	40
350	150	65.8	49.4	54.1	46.1
450	200	70.8	52.5	58.1	50.1

[1]*Sound power level determined according to the BS EN 13141-7:2021 standard, frequencies from 63 Hz to 8 kHz. Enclosure radiation and sound power level of the duct in LwA (A-weighted overall sound power level in dB(A), corrected for background noise)*

ACCESSORIES

Description	Ref. no.
2 pollen filters G4 - Coarse 60%	1304.0055
1 pollen filter M5 - ePM10 50%	1304.0056
1 fine particle filter F7- ePM2.5 70%	1304.0057
Additional connection Ø 200 mm	1304.0058
Connection with foam Ø 200 mm	1304.0059
4-position wireless control - batteries - SSU-B - white	1304.0070
4-position wireless control - 230 V - SSU-R - white	1304.0074
4-position wired control - 230 V - SSU-W - white	1304.0075
Wireless temperature/humidity sensor - batteries - white	1304.0067
Temperature/humidity sensor RS485/RF868 - 230 V - white	1304.0066
Temperature/humidity sensor - 0-10 V - white	1304.0065
CO_2 sensor RS485/RF868 - 230 V - white	1304.0068
CO_2 sensor - 0-10 V - white	1304.0064
Presence sensor RS485 & RF868 - 230 V - white	1304.0071