Acoustic Top Box & Enclosure

For Sentinel Kinetic Range

Fitting Instructions

Stock Ref. No:

TOP BOX
478071 - Kinetic BH
478072 - Kinetic FH
478073 - Kinetic PLUS
478074 - Kinetic HIGH FLOW

ENCLOSURE
478076 - Kinetic BH
478077 - Kinetic FH
478078 - Kinetic PLUS
478079 - Kinetic HIGH FLOW

READ IN CONJUNCTION WITH ILLUSTRATIONS
PLEASE SAVE THESE INSTRUCTIONS
These instructions should be read in conjunction with the Sentinel Kinetic MVHR Installation and Commissioning Manual (Vent-Axia part no. 439817).

**Important:** Check spigot configuration for LEFT or RIGHT HAND setup

“These units are heavy and should only mounted on walls capable of bearing their weight i.e. a solid masonry wall or a stud wall that has been specially constructed with extra studs and boards.”

Note: The use of sound attenuators on the ducting is recommended.

### Acoustic Solution Options

**Option A**
Top Box only + MVHR unit
Pages 3 – 15

**Option B**
Enclosure only + MVHR unit
Pages 16 - 25

**Option C**
Top Box & Enclosure + MVHR unit
Pages 26 - 28

### Acoustic Bracket Kits

- Top Box – **Option A**
  - BH Acoustic Bracket Kit 1 – 478813
  - FH Acoustic Bracket Kit 1 – 478815
  - PLUS & HIGH FLOW Acoustic Bracket Kit 1 – 478816

- Top Box & Enclosure – **Option C**
  - BH & FH Acoustic Bracket Kit 2 – 478814
  - PLUS & HIGH FLOW Acoustic Bracket Kit 2 – 478817

### Wired Remote Control Kit

Control Kit will be required with “**Option B & Option C**” setups
Remote Controller – 443283
Option A

Acoustic Top Box BH & FH + MVHR unit

SIZE & WEIGHT

BH & FH UNITS

PLUS & HIGH FLOW UNITS
BH & FH UNITS

WEIGHT

BH & FH Top Box without unit 12kg
BH Top Box with unit 27kg
FH Top Box with unit 30kg
BH unit 15kg
FH unit 18kg
PLUS & HIGH FLOW UNITS

TOP

FRONT

SIDE

REAR

WEIGHT

PLUS & HIGH FLOW Top Box without unit 17kg
PLUS Top Box with unit 41kg
HIGH FLOW Top Box with unit 48kg
PLUS Unit 24kg
HIGH FLOW Unit 31kg
BH & FH BRACKET ASSEMBLY & MOUNTING BRACKETS

BH - Use Acoustic Bracket Kit 1 (478813) to mount Unit & Top Box.

FH - Use Acoustic Bracket Kit 1 (478815) to mount Unit & Top Box.

Use existing wall bracket supplied with unit, to complete mounting bracket setup.

BH & FH Bracket to be mounted to 405mm centres.

Fix the 4-off M5x16 screws to secure the existing bracket to the new Acoustic brackets, supplied in Bracket kit 1.

Then fix the remaining 4-off M5X16 screws, only half way on the mount brackets.
PLUS & HI FLOW BRACKET ASSEMBLY & MOUNTING BRACKETS

Use Acoustic Bracket Kit 1 (478816) to mount Unit & Top Box.

Use existing wall bracket supplied with unit, to complete mounting bracket setup.

Bracket to be mounted to 603mm centres.

Fix the 8-off M5x16 screws to secure the existing bracket to the new Acoustic brackets, supplied in Bracket kit 1.

Then fix the remaining 4-off M5x16 screws, only half way on the mount brackets.
FIT STANDOFFS TO UNIT

Before mounting unit, the standoffs need to be replaced on the bottom corners. Use the new fixings supplied in Acoustic Mounting Bracket Kit 1. See images below for details.

STANDOFF SETUP FROM ACCESSORY PACK 1
RUBBER STANDOFFS FROM MVHR UNIT ACCESSORY PACK

BH BASE PANEL SCREW ASSY

FH BASE PANEL SCREW ASSY
PLUS & HIGH FLOW

STANDOFF SETUP FROM ACCESSORY PACK 1
RUBBER STANDOFFS FROM MVHR UNIT ACCESSORY PACK

PLUS & HIGH FLOW
BASE PANEL SCREW ASSY
MOUNTING UNIT TO BRACKETS

Unit can be attached to hanging brackets (see view A) with the clips on the rear of the unit.

BH & FH UNIT

PLUS & HIGH FLOW UNIT
MOUNTING TOP BOX TO BRACKETS

1. Before mounting the Top Box, the front cover will need removed before install.

2. Then lift Top Box over the spigots and then line up the 4 screws on the mounting bracket with the key-hole slots on the rear of the Top Box (see view B). Once all fitted, tighten all screws.
3. Then lift Top Box over the spigots and then line up the 4 screws with the key-hole slots on the rear of the Top Box (see view B). Once all fitted, tighten all screws.
Connect all spigots to the unit, then use duct tape to seal & secure them in place. Two foam pieces supplied with Top Box are to be used on “To Atmosphere” & “From Atmosphere” spigots, wrap each foam piece around base of spigots (see view C).

Image shows a Right Hand setup with foam insulation fitted on “To Atmosphere” & “From Atmosphere” spigots.
Once unit is installed and commissioned, as per Installation & Commissioning instructions, then secure front panel back onto Enclosure.
Option B
Acoustic Enclosure + MVHR unit

SIZE & WEIGHT

BH & FH UNITS

WEIGHT
BH Enclosure without unit 19.1kg
FH Enclosure without unit 19.1kg
BH Enclosure with unit 34kg
FH Enclosure with unit 37kg
BH Unit 15kg
FH Unit 18kg
PLUS & HIGH FLOW UNITS

WEIGHT

PLUS & HIGH FLOW Enclosure without unit 33kg
PLUS Enclosure with unit 57kg
HIGH FLOW Enclosure with unit 64kg
PLUS Unit 24kg
HIGH FLOW Unit 31kg
**FIX MOUNTING BRACKETS**

Unpack mounting brackets from separate box and assemble and fix in accordance with the Instruction leaflet supplied with the brackets:-
BH & FH to 508mm centres.
PLUS & HIGH FLOW to 655mm centres.

**IMPORTANT**

200mm minimum clearance must be left under the mounting brackets to allow access, for tightening the mounting bolts.
### ENCLOSURE PARTS

#### BH & FH UNITS

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<td>RUBBER GROMMET</td>
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## PLUS & HIGH FLOW UNITS

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FIT AV MOUNTS

BH & FH UNITS

PLUS & HIGH FLOW UNITS
FIT BASE PANEL

Thread Condensate drain through Base Panel before securing to Base Panel. (Right Hand unit shown).
**IMPORTANT – ASSISTANCE WILL BE NEEDED AT THIS STAGE.**

1. First fix the 4 anti-vibration washers (ONLY) to the mounting brackets. (Supplied in bracket kit)
2. Then fit 2-off grommets to the back panel and then place the back panel onto the mounting brackets, grommet ends to the bottom.
3. Lift the unit & base panel onto the mounting brackets.
4. Line up the holes on the base panel with the anti-vibration washers and insert the washers & bolts. Do NOT over tighten, leave loose. (Supplied in bracket kit) See view “A”
5. Thread mains and control cables through grommets on back panel before panels are assembled.

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**A**

Anti-vibration washer

Thread mains and control cables through the grommets (Item 12).
Mount unit on brackets in accordance with instruction leaflet supplied with brackets

FIT TOP AND SIDE PANELS
FIT BACK PANEL

Once back panel is fitted, push unit back towards the brackets and tighten the 4 bolts on the mounting brackets.

IMPORTANT

200mm minimum clearance must be left under the mounting brackets to allow access, for tightening the mounting bolts.

FIT FRONT PANEL

Once unit is installed and commissioned, as per Installation & Commissioning instructions, then secure front panel back onto Enclosure.

Note: Once front cover is fitted, all alerts and warnings are on the wired remote control display.
Option C

Acoustic Enclosure & Top Box Solution + MVHR unit

**SIZE & WEIGHT**

**BH & FH UNITS**

![Diagram of BH & FH unit dimensions]

- **TOP**
  - Dimensions: 336 x 447 x 549 mm

- **FRONT**
  - Dimensions: 133 x 613 mm

- **SIDE**
  - Dimensions: 133 x 613 mm

- **BACK**
  - Dimensions: 133 x 613 mm

- **BASE**
  - Dimensions: 228 x 228 mm

**WEIGHT**

- BH & FH Top Box without unit 12 kg
- BH & FH Enclosure without unit 33 kg
- BH Enclosure & Top Box with unit 45.5 kg
- FH Enclosure & Top Box with unit 47 kg
- BH Unit 15 kg
- FH Unit 18 kg

⚠️
PLUS & HIGH FLOW UNITS

WEIGHT

PLUS & HIGH FLOW Top Box without unit 17kg
PLUS & HIGH FLOW Enclosure without unit 33kg
PLUS Enclosure & Top Box with unit 75kg
HIGH FLOW Enclosure & Top Box with unit 81kg
PLUS Unit 24kg
HIGH FLOW Unit 31kg
FULL SOLUTION BUILD

1. First start with mounting instructions for the Enclosures installation, see - “Option B” Enclosure only – Pages 15 – 25
2. Then remove the front panel of the Top Box, before placing it on top of the completed mounted Enclosure.
3. Fix attenuators onto the spigots; follow the ducting detail information in section - “Option A” Top Box only – Pages 13 – 14.
4. Then use Acoustic Bracket Kit 2 to secure the Top Box to the Enclosure. Use the existing screws on the Top Box & Enclosure. (See detail A)
5. Once unit is installed and commissioned, secure the front panel cover back onto Top Box.

FIX MOUNTING BRACKETS

BH & FH, use Acoustic Bracket Kit 2 (478814) to secure Top Box & Enclosure together.

PLUS & HIGH FLOW, use Acoustic Bracket Kit 2 (478817) to secure Top Box & Enclosure together.
FLOOR MOUNTING

For floor mounting a suitable cradle should be made to accommodate the condensate outlet and trap. Installer to ensure consideration of the condensate outlet and trap on bottom of unit.

Installer Notes:
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The Vent-Axia Guarantee

Applicable only to products installed and used in the United Kingdom. For details of guarantee outside the United Kingdom contact your local supplier.

Vent-Axia guarantees its products for two years from date of purchase against faulty material or workmanship. In the event of any part being found to be defective, the product will be repaired, or at the Company’s option replaced, without charge, provided that the product:-

- Has been installed and used in accordance with the instructions given with each unit.
- Has not been connected to an unsuitable electricity supply. (The correct electricity supply voltage is shown on the product rating label attached to the unit).
- Has not been subjected to misuse, neglect or damage.
- Has not been modified or repaired by any person not authorised by the company.

IF CLAIMING UNDER TERMS OF GUARANTEE

Please return the complete product, carriage paid to your original supplier or nearest Vent-Axia Centre, by post or personal visit. Please ensure that it is adequately packed and accompanied by a letter clearly marked “Guarantee Claim” stating the nature of the fault and providing evidence of date and source of purchase.

The guarantee is offered to you as an extra benefit, and does not effect your legal rights.