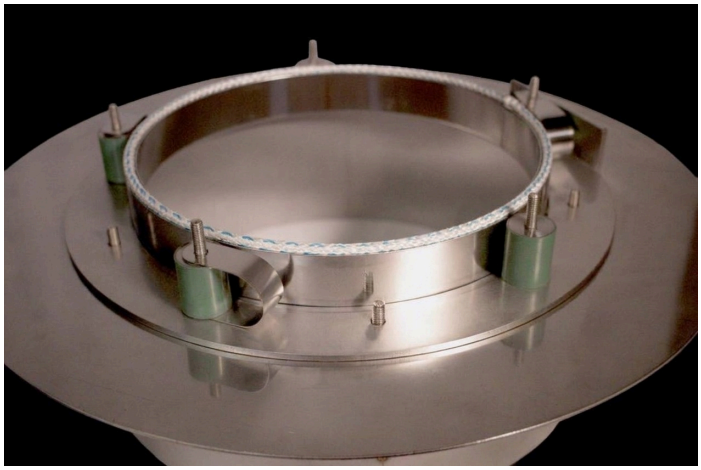
Vibration Dampeners

XV-VBD-1250 · XV-VBD-350

Installation, Operation and Maintenance



The vibration dampener sits between an XV Series draft inducer and what it mounts on: the X-VENTISO flue adapter, or a top-mount damper (XV-GFD, XV-TMD or XV-SFD). It keeps motor vibration at the draft inducer, so it does not travel into the flue system and the building as structure-borne sound.

Model	Fits
XV-VBD-1250	XV150, XV250
XV-VBD-350	XV350

One per draft inducer, matched to the XV model. Sold separately.

1 Read First

Read this manual and the XV Series draft inducer manual (XV-IM-XVS) before installing, and leave both with the homeowner. Installation and service are for qualified personnel familiar with the codes that apply to the job.

DANGER: Unplug the draft inducer's controller and lock out power before installing or servicing. Do not rely on the controller being off.

VERTICAL INSTALLATIONS ONLY.

Install the vibration dampener only where the draft inducer sits on top of a vertical flue. Never use it on a horizontal (sidewall) termination.

CAUTION: Tighten every nut snug. Over-tightening crushes the urethane bushings, and crushed bushings carry vibration into the chimney.

CAUTION: Never drill new holes in the dampener, the adapter, the damper or the draft inducer. Use the welded studs.

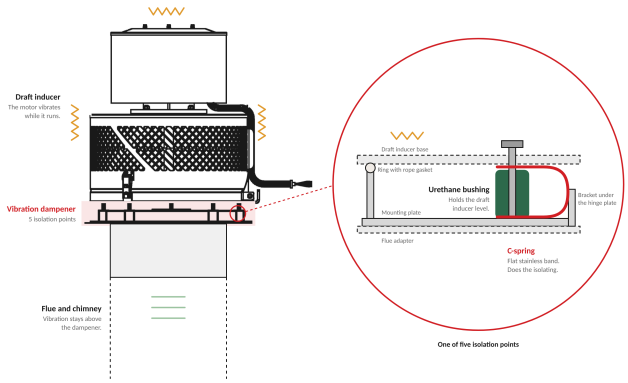
On a top-mount damper? The dampener goes between the damper (XV-GFD, XV-TMD or XV-SFD) and the draft inducer, the same way as on an adapter. It adds 2 in. to the height above the chase top. Install the damper first, per XV-IM-DMP.

2 Install

What is on the dampener

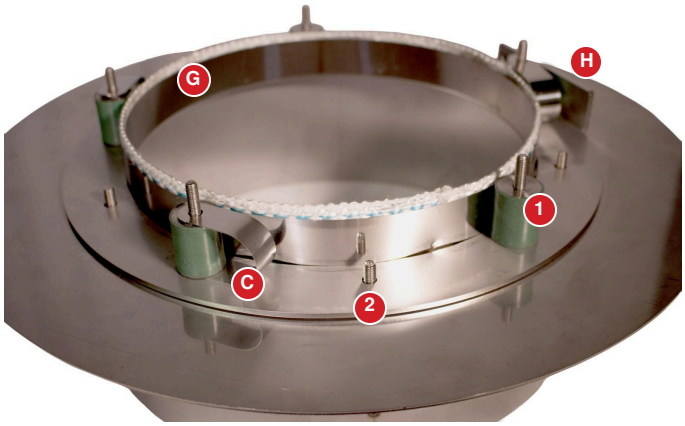
- **Five mount points.** At each one a stainless C-spring wraps a urethane bushing on one stud, stud up. The draft inducer sits on these studs.
- **Mounting plate** with holes for the welded 1/4-20 studs of the adapter or top-mount damper.
- **Seal ring** with a high-temperature rope gasket. It rises to the draft inducer and seals the joint, so no outside air is pulled in and no draft is lost.
- **Bracket** on the outer edge. It goes under the draft inducer's hinge plate, so the springs are never crushed or stretched when the draft inducer tilts open for cleaning.

Stainless washers and 1/4-20 nuts ship with the dampener.

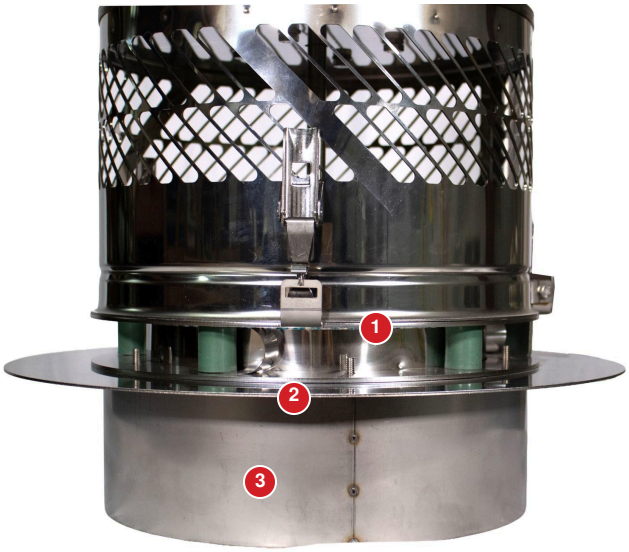


Steps

1. Install the flue and the X-VENTISO flue adapter per XV-IM-XVS (Section 4, factory-built flue; Section 5, masonry and plate adapters), or the top-mount damper (XV-GFD, XV-TMD or XV-SFD) per XV-IM-DMP. The welded studs point up.
2. Decide which way the draft inducer will open (XV-IM-XVS Section 3). The dampener's bracket goes on the hinge side.
3. **Dampener to the adapter or damper.** Set the dampener over its studs, bracket on the hinge side. Stainless washer and nut on every stud; tighten snug, evenly.
4. **Draft inducer to the dampener.** Set the draft inducer's base over the dampener's bushing studs, hinge plate over the bracket. Stainless washer and nut on every stud; **tighten snug**, evenly. The bushings must not bulge or crack.
5. Check that the seal ring seats on the rope gasket all the way around, with no gap.
6. Check that the draft inducer tilts open fully and closes again without touching the springs.
7. Finish the installation (rain collar, disconnect box, start-up) per XV-IM-XVS.



Dampener on the adapter. 1 Urethane bushing, stud up: the draft inducer nuts down here. 2 Adapter stud: the dampener nuts down here. C C-spring around the bushing. G Gasket on the seal ring. H Bracket, goes under the hinge plate.



Assembled. Draft inducer on the dampener (1), dampener on the adapter (2), adapter collar into the flue (3).

3 Annual Inspection

Inspect the dampener every year, with the draft inducer's annual inspection (XV-IM-XVS Section 11), and after any chimney fire or overfire. Unplug the controller first. Tilt the draft inducer open to see the gasket and ring.

Check	Look for
Bushings	Not cracked, hardened, melted, flattened or bulging
C-springs	Not bent, cracked or loose; each wraps its bushing
Nuts	Every nut snug, bushings not crushed; washer on every stud
Seal ring and gasket	Gasket in place all the way around; not torn, flattened, frayed or missing; ring seats with no gap
Bracket	Under the hinge plate; draft inducer tilts open without touching the springs

DAMAGED GASKET, SPRING OR BUSHING: REPLACE THE DAMPENER.

The gasket, springs and bushings are not sold separately. Replace the whole vibration dampener (same model) and find the cause. Call 800.642.2920.

4 Troubleshooting

Symptom	Check
Hum or vibration heard in the building	• Nuts over-tightened (bushings crushed): back them off to snug • Metal-to-metal contact anywhere between the draft inducer and the chimney • Damaged bushing or spring: replace the dampener • Flue or chimney support loose: see the flue manufacturer's instructions
Draft weaker than at start-up	• Gasket damaged or ring not seated: outside air is being pulled in at the joint • Then see XV-IM-XVS Troubleshooting
Draft inducer will not tilt fully open, or springs bend when it does	• Bracket not on the hinge side: remove the draft inducer and turn the dampener
Draft inducer sits crooked	• Nuts tightened unevenly: back off and snug evenly • Damaged bushing: replace the dampener

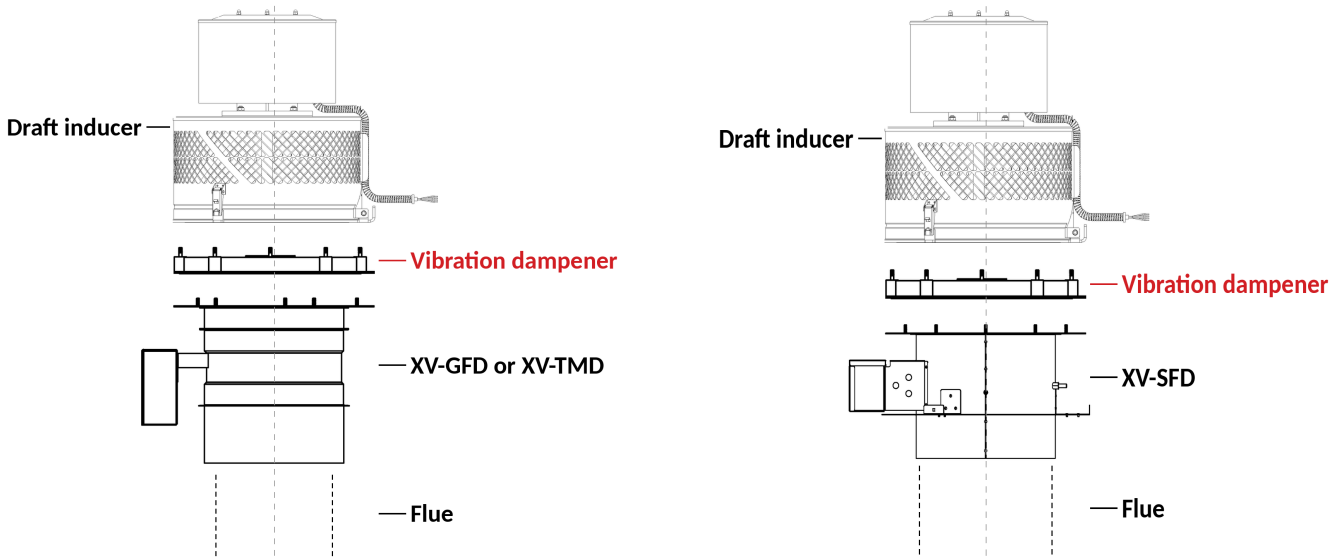
Service record

Date	By	Bushings / springs	Gasket / ring	Nuts	Notes

5 Specifications

	XV-VBD-1250	XV-VBD-350
Fits	XV150, XV250	XV350
Installation	Vertical only, between the draft inducer and the flue adapter or top-mount damper (XV-GFD, XV-TMD, XV-SFD)	Same
Outside diameter	12-11/16 in.	16-5/8 in.
Opening	9-9/16 in.	13-3/8 in.
Across the flats	12-9/16 in.	16-9/16 in.
Height added	2 in.	2 in.
Weight	5 lb	7 lb
Mount points	Five: stainless C-spring around a urethane bushing on one stud	Same
Materials	316L stainless plate and seal ring; stainless C-springs; polycarbonate urethane bushings; high-temperature rope gasket	Same
Fasteners	Welded 1/4-20 studs; stainless washers and nuts supplied	Same
Drawing	XV-VBD-1250-SPEC (PDF, DWG)	XV-VBD-350-SPEC (PDF, DWG)

On a top-mount damper



Exploded views, XV350 shown. Left: top-mount gas damper (XV-GFD, XV-TMD). Right: solid fuel damper (XV-SFD). The dampener adds 2 in. to the height above the chase top.

Warranty

2 years, valid with proper installation and a documented annual inspection. Skipping the inspection voids the warranty. Not covered: damage from over-tightening or from a horizontal installation.

X-VENTISO by earthcore

Leave this manual with the homeowner, with the XV Series draft inducer manual.

TECHNICAL SUPPORT **800.642.2920** x-ventiso.com