X-VENTISO by earthcore

SUBMITTAL DATA

# GAS TOP-MOUNT DAMPER

XV-GFD and XV-TMD · Gas appliances

## PROJECT INFORMATION

**Project** _____ **Location** _____

**Contractor** _____ **Engineer / Architect** _____

**Submitted by** _____ **Date** _____

## MODEL SELECTION (CHECK AS SUPPLIED)

| | PART NUMBER | FLUE SIZE | DRAFT INDUCER (IF USED) | QTY | TAG(S) |
|---|---|---|---|---|---|
| ☐ | **XV-GFD250-8** | 8" | XV150, XV250 | | |
| ☐ | **XV-GFD250-10** | 10" | XV150, XV250 | | |
| ☐ | **XV-GFD250-12** | 12" | XV250 | | |
| ☐ | **XV-TMD1250-13** | 13" | XV150, XV250 | | |
| ☐ | **XV-GFD250-14** | 14" | XV250 | | |
| ☐ | **XV-GFD350-12** | 12" | XV350 | | |
| ☐ | **XV-TMD350-13** | 13" | XV350 | | |
| ☐ | **XV-GFD350-14** | 14" | XV350 | | |
| ☐ | **XV-GFD350-16** | 16" | XV350 | | |

*Without a draft inducer:* select the damper for the XV Series model the flue would take (flue calculator, or send the plans). A draft inducer added later mounts on the same damper.

## DESCRIPTION

Automatic flue damper for gas appliances. Mounts at the end of the flue run, with the matched XV Series draft inducer mounted on it. Closes on a silicone seal when the system is off, is proven open by the controller before the appliance can light, and fails closed on loss of power.

## SEQUENCE OF OPERATION

1. Call for operation: appliance switch, remote, or home or building automation, through the X-VENTISO controller.
2. The controller opens the damper and proves it open. On GBC and Meridian, draft is proven as well.
3. Only then is the appliance gas control enabled. If the damper does not prove open, the appliance does not light.
4. When the call ends, the appliance shuts off and the damper closes on its silicone seal.
5. On loss of power the interlock opens and the appliance gas valve closes, including on ignition controls with battery backup (the X-VENTISO controller is in the interlock circuit). The damper fails closed and seals the flue. The appliance cannot light until power returns and the damper proves open again.

## KEY DATA

| | |
|---|---|
| **Fuel** | Gas appliances only (UL 378 listing scope). For wood, specify XV-SFD. |
| **Configuration** | Top-mount, matched to the draft inducer model, or the model the flue would take |
| **Sizes** | 8, 10, 12, 13, 14, and 16 in. |
| **Seal** | Silicone rubber |
| **Proving** | Proven open before ignition, by the controller |
| **Power loss** | Fails closed (seals the flue) |
| **Connection** | 4-pin Molex to the X-VENTISO controller |
| **Material** | Body: 316L stainless |
| **Temperature rating** | 480°F continuous<br>550°F intermittent (product label) |
| **Actuator rating** | 24 V, 6.5 VA, from the controller via the 4-pin Molex. Spring return to closed, ~5 seconds |
| **Weight** | By size, available on request |

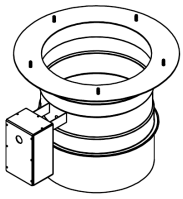
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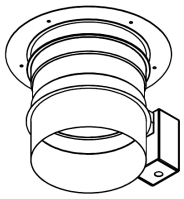
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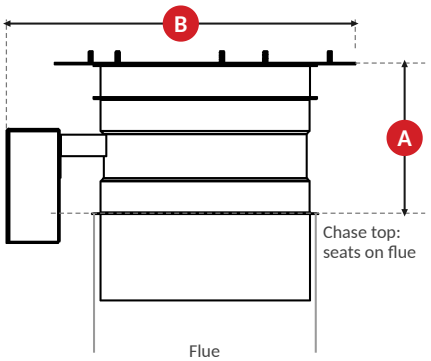
## PRODUCT VIEWS AND DIMENSIONS



Isometric (Top)



Isometric (Bottom)




| PART NUMBER | A HEIGHT ABOVE CHASE TOP | B WIDTH WITH ACTUATOR |
|---|---|---|
| **XV-GFD250-8** | 8-3/4" | 20-5/16" |
| **XV-GFD250-10** | 10-5/8" | 20-5/16" |
| **XV-GFD250-12** | 8-3/4" | 20-5/16" |
| **XV-TMD1250-13** | 8-3/4" | 20-5/16" |
| **XV-GFD250-14** | 10-5/8" | 24-1/4" |
| **XV-GFD350-12** | 8-3/4" | 20-5/16" |
| **XV-TMD350-13** | 8-3/4" | 20-5/16" |
| **XV-GFD350-14** | 10-5/8" | 24-1/4" |
| **XV-GFD350-16** | 15-5/8" | 25-11/16" |

Representative views, XV-TMD350-13 shown. A: height above the chase top, from where the damper seats on the flue to the top of the flange (the draft inducer mounts on the flange); use it for the chase-top shroud. B: overall width including the actuator. Inches. Dimensioned drawing (PDF or DWG) for any size on request.

## SYSTEM (CHECK ONE)

☐ **With an XV Series draft inducer**
Controller: ☐ XV-GBC ☐ XV-GBC-DUO ☐ XV-MERD-CTRL ☐ XV-MERD-DUO

☐ **Without a draft inducer (appliance vents on its own)**
Controller: XV-GFDC (stand-alone)

## LISTING

| | |
|---|---|
| **Standard** | UL 378, Draft Equipment, gas appliances only |
| **Mark** | ETL Listed (c/us) |
| **Control no.** | Intertek 4007025 |

## INSTALLATION NOTES

1. Install per the X-VENTISO installation manual and the appliance manufacturer's instructions.
2. Gas appliances only. Never install a gas damper on a solid fuel appliance: it fails closed on power loss, and a wood fire keeps burning.
3. Gas controllers only (see System), 4-pin Molex, no field wiring. A solid fuel controller alarms and will not clear.
4. Keep the damper actuator and its connection accessible for service.
5. Without a draft inducer: finish the damper with an X-VENTISO cap, sized to the damper. Call 800.642.2920.
6. Codes are adopted and amended locally, and the authority having jurisdiction makes the final call on every installation.
7. Specifications subject to change.

## ENGINEER / ARCHITECT REVIEW

☐ No exceptions taken
☐ Make corrections noted
☐ Revise and resubmit
☐ Rejected

**Reviewed by** _____

**Date** _____

## REMARKS