X-VENTISO by earthcore

SUBMITTAL DATA

WSPRDRAFT FLUE SILENCER

XV-WDR-8, 10, 12, 13, 14, 16 · Passive, gas appliances

PROJECT INFORMATION

Project _____ **Location** _____

Contractor _____ **Engineer / Architect** _____

Submitted by _____ **Date** _____

MODEL SELECTION (CHECK AS SUPPLIED)

	PART NUMBER	GAS FLUE SIZE	QTY	TAG(S)
☐	**XV-WDR-8**	8 in.		
☐	**XV-WDR-10**	10 in.		
☐	**XV-WDR-12**	12 in.		
☐	**XV-WDR-13**	13 in. Earthcore Eco-Steel, insulated or air-cooled		
☐	**XV-WDR-14**	14 in.		
☐	**XV-WDR-16**	16 in.		

Select by the gas flue size. One silencer per flue.

DESCRIPTION

Passive silencer for the gas flue of a mechanical draft system. It installs in the flue run between the appliance and the XV Series draft inducer and absorbs the draft inducer noise that travels down the flue, so it does not reach the room through the appliance. No moving parts and no power. The lining is 316L stainless mesh over mineral wool. Part of the X-VENTISO system: published performance applies with XV Series draft inducers.

APPLICATION

- **Gas appliances only:** hearth appliances, non-condensing boilers, condensing boilers. Never solid fuel.
- **Vertical or angled** on any gas appliance.
- **Horizontal** on hearth appliances only, never on a boiler (no low point to drain condensate).
- Sized to the gas flue: the number is the flue size. XV-WDR-13 fits Earthcore Eco-Steel 13 in. pipe.

KEY DATA

Insertion loss	Tested to DIN EN ISO 7235:2003 at Fraunhofer IBP (report IP-TA 6_2004, 2004). Octave-band data: Acoustic Data Sheet XV-DS-WDR-ACOUSTIC
Max. flue gas temperature	752°F (400°C)
Gas-tight	To 200 Pa
Pressure loss coefficient	$\zeta = 0.25$
Lining	316L stainless mesh over mineral wool
Connections	Slip collars into standard gas vent of the same nominal size; XV-WDR-13: Earthcore Eco-Steel collars
Condensate drain	3/4 in. nominal smooth outlet, bottom end panel; ships capped
Support	On its own non-combustible supports; design load 100 lb, all sizes
Clearance to combustibles	As the gas flue manufacturer requires
Power	None

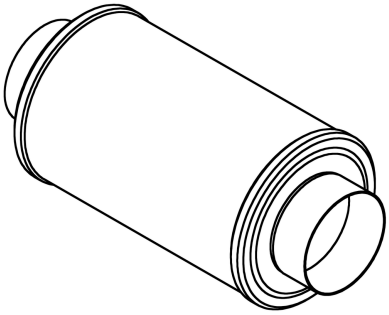
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PRODUCT VIEW AND DIMENSIONS



XV-WDR-12 shown.

PART NUMBER	A OVERALL LENGTH	B MAX. DIAMETER	C COLLARS (EACH END)	D GAS PASSAGE	WEIGHT
XV-WDR-8†	44	~18-1/4	7-3/4 / 7-13/16	7-7/8	~51 lb
XV-WDR-10	44	20-3/16	9-3/4 / 9-13/16	11-13/16	~53 lb
XV-WDR-12	44	20-3/16	11-3/4 / 11-13/16	11-13/16	~53 lb
XV-WDR-13	45-3/4	20-3/16	15-7/8 / 15-9/16 (Eco-Steel)	11-13/16	~53 lb
XV-WDR-14	44	20-3/16	13-3/4 / 13-13/16	11-13/16	~53 lb
XV-WDR-16†	~48	~24-1/8	15-3/4 / 15-13/16	13-3/4	~57 lb

Inches. A: overall length, collar to collar. B: maximum diameter over the bands. C: collar outside diameters, the two ends. D: gas passage (bore). Weights are body weights. † XV-WDR-8 and XV-WDR-16: nominal values from the body dimensions; drawings to follow. Dimensional drawings (PDF, DWG) on request.

SYSTEM (CHECK AS SUPPLIED)

Draft inducer

☐ XV150 ☐ XV250 ☐ XV350

Appliance

☐ Hearth ☐ Non-condensing boiler ☐ Condensing boiler

Orientation

☐ Vertical ☐ Angled ☐ Horizontal (hearth only)

TEST BASIS

Standard	DIN EN ISO 7235:2003, insertion loss
Laboratory	Fraunhofer IBP
Report	IP-TA 6_2004, 2004
Data	XV-DS-WDR-ACOUSTIC (octave bands, all sizes)

INSTALLATION NOTES

1. Install per XV-IM-WDR and the gas flue manufacturer's instructions.
2. Gas appliances only. Never connect a solid fuel appliance to a flue with a WSPRDraft silencer.
3. Every joint: minimum four #8 stainless (304 or better) sheet metal screws, 1/2 in. min. shank, and a continuous bead of high-temperature sealant (the flue manufacturer's, or RTV rated 600°F / 315°C min.). XV-WDR-13: joins like Earthcore Eco-Steel pipe, per its instructions; no screws or sealant.
4. Support the silencer on its own; never hang it from the flue.
5. Condensing boilers: connect the condensate drain with a water-seal trap, 2 in. min. seal. Hearth: leave it capped.
6. Annual inspection required (chimney camera from the termination or appliance connection). A damaged liner means replacing the silencer.
7. Warranty: 2 years, valid with proper installation and a documented annual inspection.
8. Codes are adopted and amended locally, and the authority having jurisdiction makes the final call on every installation.
9. Specifications subject to change.

ENGINEER / ARCHITECT REVIEW

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

Reviewed by _____

Date _____

REMARKS