XV-MULTICTRL

Multi Unit Integration Device
for Controlled Power: XV-GBC, XV-GBC-DUO, XV-WBC, XV-WBC-DUO
Installation, Operation and Maintenance



XV-MULTICTRL runs two Controlled Power controllers from one wall control (MUC), for **one appliance with three or four flues**. One call starts every draft inducer and damper at the same moment, and one slider sets every draft inducer to the same speed.

Flues	Controllers	Wall controls
3	A DUO plus a single	One
4	Two DUOs	One
2	Use a GBC-DUO or WBC-DUO instead. No XV-MULTICTRL.	One

Sold separately. Low-voltage signal device; carries no line voltage.

1 Read First

Read this insert and the manual for each controller before installing: XV-IM-CP (GBC, WBC) and XV-IM-CP-DUO (GBC-DUO, WBC-DUO). Leave all of them with the homeowner or building owner. Installation and service are for qualified personnel familiar with the codes that apply to the job. **Call 800.642.2920 before you install** a three- or four-flue system.

DANGER: Unplug both controllers and lock out power before installing or servicing. Do not rely on the wall control being off.

ONE APPLIANCE. SAME FUEL.

Both controllers serve the same appliance, and both are the same fuel type: two gas controllers (GBC, GBC-DUO) or two solid fuel controllers (WBC, WBC-DUO). Never pair a gas controller with a solid fuel controller.

WARNING: On gas, XV-MULTICTRL is part of the gas interlock: the two controllers' proven draft relays are wired in series, so the appliance can light only after both controllers have proven draft and proven their dampers open. Never bypass, jumper or defeat the draft proving or the interlock, and never wire a switch or relay to the ignition control around the wall control.

CONTROLLER 1 POWERS THE SYSTEM.

The controller plugged into lead #1 is Controller 1. It powers the wall control and every damper on both controllers. If Controller 1 is unplugged or loses power, the whole system shuts down. Label its enclosure CONTROLLER 1 and plug it into a receptacle that is never switched off.

CAUTION: One speed serves every flue. It works best on flues of similar size and height. If the flues differ, call before you install.

Nothing inside to adjust. XV-MULTICTRL has no settings and no serviceable parts. Do not open it.

2 Install

Before you start

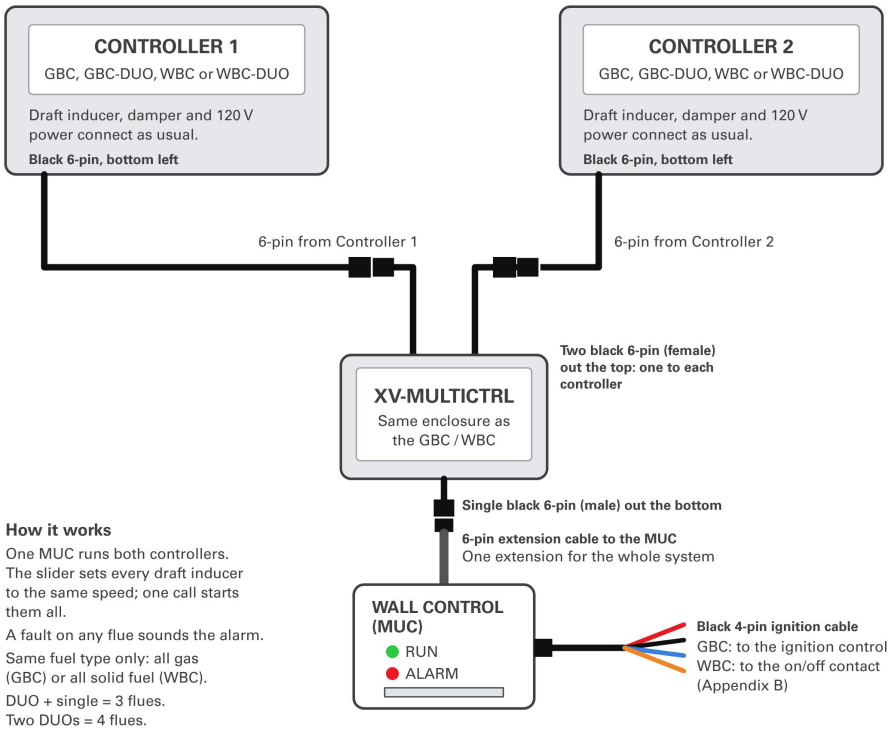
- Install each controller with its draft inducers and dampers per its own manual. Each controller keeps its own draft inducer, damper and 120 V power connections.
- **Location:** indoors, dry, accessible after the finish is complete, between the two controllers. The XV-MULTICTRL leads are 3 ft each, so mount it where both controllers' black 6-pin connections are within reach.
- **One** wall control (MUC) and **one** 6-pin extension serve the whole system. The second controller's wall control is not used: keep it with the job as a spare, and note where it is stored in the record on page 4.
- Any extension connection stays accessible, never inside conduit or a closed wall.

Connections

Connector	Goes to
Black 6-pin lead #1, top	Controller 1's black 6-pin (bottom left of the controller). Controller 1 powers the system
Black 6-pin lead #2, top	Controller 2's black 6-pin
Black 6-pin, bottom (1)	Wall control (MUC), through one 6-pin extension (XV-CONTROLEXT, 20, 50 or 100 ft)
MUC black 4-pin	As usual: gas, the appliance ignition control; solid fuel, the on/off contact (XV-IM-CP Appendix B)

Steps

1. Unplug both controllers.
2. Mount the XV-MULTICTRL on a flat, dry surface with fasteners suited to the surface. Mount it so the two leads exit at the top and the single connector at the bottom.
3. Plug Controller 1's black 6-pin into lead #1 and Controller 2's into lead #2. Label Controller 1's enclosure CONTROLLER 1.
4. Run one 6-pin extension from the XV-MULTICTRL's bottom 6-pin to the wall control. Mount the wall control per XV-IM-CP Section 5.
5. Connect the wall control's black 4-pin as usual: gas, to the appliance ignition control (XV-IM-CP Appendix A); solid fuel, to the on/off contact (Appendix B). Only this one 4-pin connects to the appliance. **On/off control: automation first** (Lutron, Crestron, Control4, Savant), then a hearth remote receiver, then a wall switch, on Blue + Orange. On the GBC the factory lever nut with the wall control slider is allowed, but automation is recommended.
6. Push every Molex connection until it latches. Support the cables so no weight hangs on a connector.
7. Plug in both controllers (Controller 1 into an unswitched receptacle), then start up and commission (Section 3).



XV-MULTICTRL wiring. Appendix B and the ignition wiring are in XV-IM-CP / XV-IM-CP-DUO.

3 Start-Up and Commissioning

Follow the start-up in each controller's manual (XV-IM-CP / XV-IM-CP-DUO Section 6), with these additions for one wall control on several flues.

1. Make the call. Every draft inducer and damper starts at the same moment. Check at the roof or the chase top that each draft inducer is running.
2. Set speed with the appliance hot, not at cold start. Lower the slider slowly. **The flue that needs the most draft sets the speed.** Check every face of the appliance for spillage (gas) or smoke rolling out (solid fuel).
3. Stop at the lowest setting that holds steady draft on every flue with no alarm.
4. **Prove every flue.** With the call off, unplug one draft inducer at its disconnect, make the call, and confirm the wall control alarms and (gas) the appliance does not light. End the call and restore it. Repeat for every draft inducer on both controllers, then the same way for every damper (unplug its damper cable).
5. Worst-case check: with the appliance running, turn on the range hood, dryer and bath fans and close interior doors. Every flue must hold.
6. Fill in the record on page 4 and in each controller manual.

How it runs

- One call starts every draft inducer and damper at the same moment. One slider sets every draft inducer to the same speed, with no offset between controllers.
- **Gas:** the appliance lights only after both controllers have proven draft and proven their dampers open.
- **A flue faults while running:** the wall control alarms, and the buzzer sounds until the call ends. On gas, the wall control shuts the appliance down within about 15 seconds. The other controller's draft inducers keep running until the call ends. Gas: turn the fireplace off and call for service. Solid fuel: leave the call on, add no more wood, and let the fire burn out completely before turning it off; then call for service. The alarm clears when the fault clears or the call ends.
- **Power:** Controller 1 powers the wall control and every damper; if it loses power, the whole system shuts down. If Controller 2 loses power or is unplugged, the system responds as it does to a draft fault: the wall control alarms and, on gas, shuts the appliance down.
- **Post-purge:** when the call ends, the wall control runs the post-purge on everything it controls.

4 Troubleshooting

Symptom	Check
Nothing starts on a call	• Controller 1 plugged in and powered: it powers the wall control and every damper • Controller 2 plugged in and powered • Extension seated at the XV-MULTICTRL and at the wall control • Then see XV-IM-CP Troubleshooting
One controller's draft inducers do not start	• That controller's 6-pin seated on its XV-MULTICTRL lead • That controller powered; its draft inducer disconnect on
Alarm, and the cause is not obvious	• Check each flue per its controller manual: disconnect, draft inducer cable, damper cable, stack probe tubing (gas) • Check the flues one at a time with the call off; never leave Controller 1 unplugged
One flue spills or smokes at the set speed	• Raise the slider until every flue holds • Flues of very different size or height: call 800.642.2920

5 Annual Inspection

Inspect with each controller's annual inspection, and unplug both controllers first. Every connector latched; cables not crushed, cut or pulled; nothing hangs on a connector; enclosure intact and dry. A damaged XV-MULTICTRL or lead is replaced, not repaired: call 800.642.2920.

6 Specifications

Item	Specification
Part number	XV-MULTICTRL
Use with	Two Controlled Power controllers on one appliance: XV-GBC with XV-GBC-DUO, two XV-GBC-DUOs; XV-WBC with XV-WBC-DUO, two XV-WBC-DUOs. Same fuel only.
Flues	Three (DUO plus single) or four (two DUOs)
Wall control	One MUC (supplied with the controllers), one 6-pin extension
Connections	Two black 6-pin leads (female) out the top, one black 6-pin (male) out the bottom; factory-made Molex
Lead length	3 ft, each lead
Electrical	24 VDC from Controller 1's low-voltage control circuit. XV-MULTICTRL keeps the two controllers' 24 V supplies apart and uses only Controller 1's, which powers the wall control and every damper. No line voltage, no power cord.
Enclosure	NEMA 1 (indoor). Same enclosure as the GBC and WBC: 11-3/8 x 6-1/8 x 3-1/8 in. (289 x 156 x 79 mm), W x H x D
Operating environment	Indoors, dry, 5 to 104°F (-15 to 40°C), non-condensing, as for the controllers
Warranty	2 years from the invoice date, parts and shipping, valid with proper installation and a documented annual inspection of the system. Skipping the inspection voids the warranty.

Commissioning record

Installed by		**Date**	
Controller 1, powers the system (model, serial)		**Controller 2 (model, serial)**	
Flues / draft inducer models		**Slider setting**	
Every draft inducer and damper proven	YES / NO	**Worst-case check passed**	YES / NO
Spare wall control stored at		**Controller 1 labeled**	YES / NO

Service record

Date	By	Connectors / cables	Alarm test	Notes

X-VENTISO by earthcore

Leave this insert with the homeowner or building owner, with both controller manuals.

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