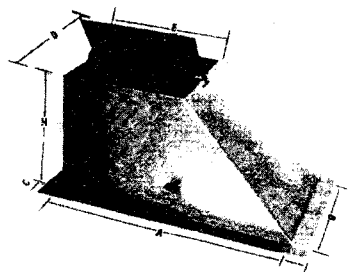


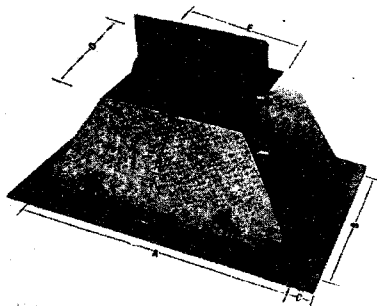
Multi Universal Steel Damper Specifications Chain Operated

ORDER NO.	OVERALL DIMENSION A X B	FLUE SIZE D X E	OVERALL HEIGHT H	LINTEL SIZE C	WEIGHT EACH
MU30	30" X 16"	13" X 18"	13"	3"	60 LBS.
MU33	33" X 20"	18" X 18"	16"	3"	75
MU36	36" X 20"	18" X 18"	19"	3"	95
MU42	42" X 20"	18" X 24"	21"	3"	110
MU48	48" X 24"	20" X 24"	22"	3"	125



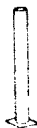
Universal Steel Damper Specifications Chain Operated

ORDER NO.	OVERALL DIMENSION A X B	FLUE SIZE D X E	OVERALL HEIGHT h	LINTEL SIZE c	WEIGHT EACH
H132	32" X 20"	18" X 18"	12"	3"	50 LBS.
H136	36" X 24"	18" X 18"	16"	3"	65
H140	40" X 24"	18" X 18"	20"	3"	80
H148	48" X 24"	20" X 20"	24"	3"	100



corner post

Order No.	Size	Description	Length	Weight
CP-R30	2 3/8"	2 3/8" Round Post	30"	11



Universal/Multi Universal Steel Damper Installation Instructions

Before installing damper, remove roll of insulation material and free the damper control chains.

Be sure damper blade moves easily, yet is tight enough to hold in any desired position. Adjust, if necessary, (See page 4 for adjustment instructions).

Build up fireplace masonry to desired opening height (check table below). Set damper on masonry. Under each unsupported corner, place a Hutch Corner Support Post. If ordinary iron pipe is used for support, fill with mortar, set under hole in corner of lintel flange and drop spike or large nail through hole into mortar to hold post in position.

Apply blanket of insulating material over outer surface of damper to provide an expansion cushion between metal and masonry. Avoid compression of insulating material by masonry, as much as possible.

CAUTION: Masonry **MUST NOT** come in contact with unit. Allow 1" minimum airspace for expansion and contraction of the damper.

The flue should be located at either side or to the rear of the damper, but never directly over it. (See Figure 1, Page 3).

A down-draft shelf should be built directly under the flue, about 1" below the top of the damper. It should be as wide as the damper and extend back under the entire flue. The top surface of the shelf should be slightly concave. (See Figure 2).

Masonry at the sloping sides of the damper should be corbelled. At front and back, lay sufficient mortar or rubber behind the face course to support a back-up course above the top of the damper.

To provide clearance for the damper blade, masonry should extend straight up for a distance of 12" above the top of the damper. Then it can be corbelled over to the flue at an angle not to exceed 30° from the vertical.

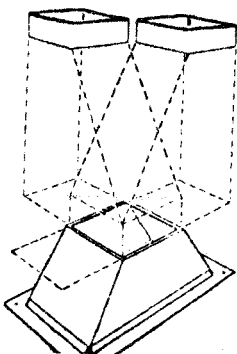


Fig. 1

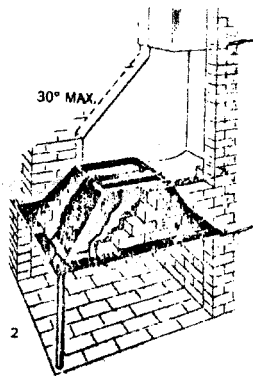


Fig. 2

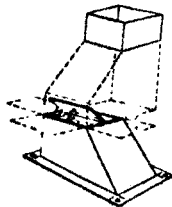


Fig. 3

TABLES OF MAXIMUM FIREPLACE OPENING HEIGHT AND HEARTH SIZE FOR CHIMNEY FLUE SIZE

For correct fireplace construction, proper proportions must be maintained between the area of the firebox openings and the flue area. The height of the openings for any given hearth area depends on the flue size. Maximum height of fireplace openings for varying hearth and flue sizes are shown for five different fireplace types.

Open One Short Side and Two Long Sides

Size	Hearth Size	Maximum Opening Height for Flue		
		13x18	18x18	20x24 24x24 24 Dia.
30"	34" x 28"	23"	28"	—
**33"	36" x 30"	21"	28"	—
36"	42" x 31"	19"	26"	—
**42"	46" x 33"	18"	24"	31"
48"	54" x 36"	—	21"	27"

Open on One Long Side and One Short Side

Size	Hearth Size	Maximum Opening Height for Flue			
		13x15	13x18	18x18	20x24 24x24
30"	34" x 24"	26"	36"	47"	—
**33"	38" x 26"	23"	35"	47"	—
36"	42" x 27"	20"	32"	43"	—
**42"	46" x 29"	19"	29"	40"	52"
48"	54" x 32"	—	26"	35"	45"

*May be increased 2" if chimney is over 17 feet high

Open on One Long Side and Two Short Sides

Size	Hearth Size	Maximum Opening Height for Flue			
		13x18	18x18	20x24	24x24 24 Dia.
30"	38" x 24"	28"	32"	—	—
**33"	42" x 26"	24"	32"	—	—
36"	46" x 27"	22"	30"	—	—
**42"	50" x 29"	21"	28"	36"	43"
48"	58" x 32"	18"	25"	32"	38"

Openings in Two Adjoining Rooms

Size	Hearth Size	Maximum Opening Height for Flue			
		13x13	13x18	18x18	20x24 24x24
30"	30" x 28"	24"	37"	45"	—
**33"	34 x 30"	22"	32"	44"	—
36"	38" x 31"	19"	29"	39"	—
**42"	42" x 33"	—	26"	36"	46"
48"	50" x 36"	—	22"	30"	38"

*May be increased 2" if chimney is over 17 feet high

Openings on All Four Sides

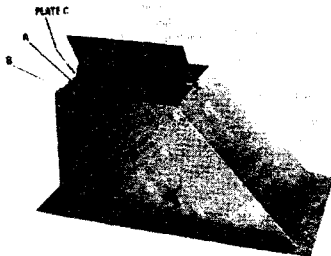
Size	Hearth Size	Maximum Opening Height for Flue			
		13x18	18x18	20x24	24x24 24 Dia.
30"	38" x 28"	17"	21"	—	—
**33"	42" x 30"	—	21"	—	—
36"	46" x 31"	—	19"	—	—
**42"	50" x 33"	—	18"	23"	28"
48"	58" x 36"	—	—	21"	25"

*ALSO APPLICABLE FOR 32" DAMPER

**ALSO APPLICABLE FOR 40" DAMPER

VALVE PLATE FRICTION ADJUSTMENT

Prior to installing damper, please check the friction control on the valve plate. Should adjustment be required, this is accomplished by reaching up inside the damper and tightening or loosening bolts A & B as needed. Should the removal of the valve plate ever become necessary, this is easily accomplished by removing bolt "A" and loosening bolt "B". This allows plate "C" to pivot down and will allow the plate to be removed.



OPERATION INSTRUCTIONS

The energy-efficient design of the friction control assures a tight seal which eliminates heated air escaping up the chimney when the fireplace is not in use. Prior to lighting a fire, fully open the valve plate by pulling the chain with the letter "O" (open) as far as it will allow. After the fire has gone out, the valve plate can be closed by pulling the chain with the letter "S" (shut) as far as it will allow.



200 COMMERCE ROAD
P. O. BOX 350 • LOUDON, TENNESSEE 37774

**"Your One Source Manufacturer
For All Your Fireplace Components"**