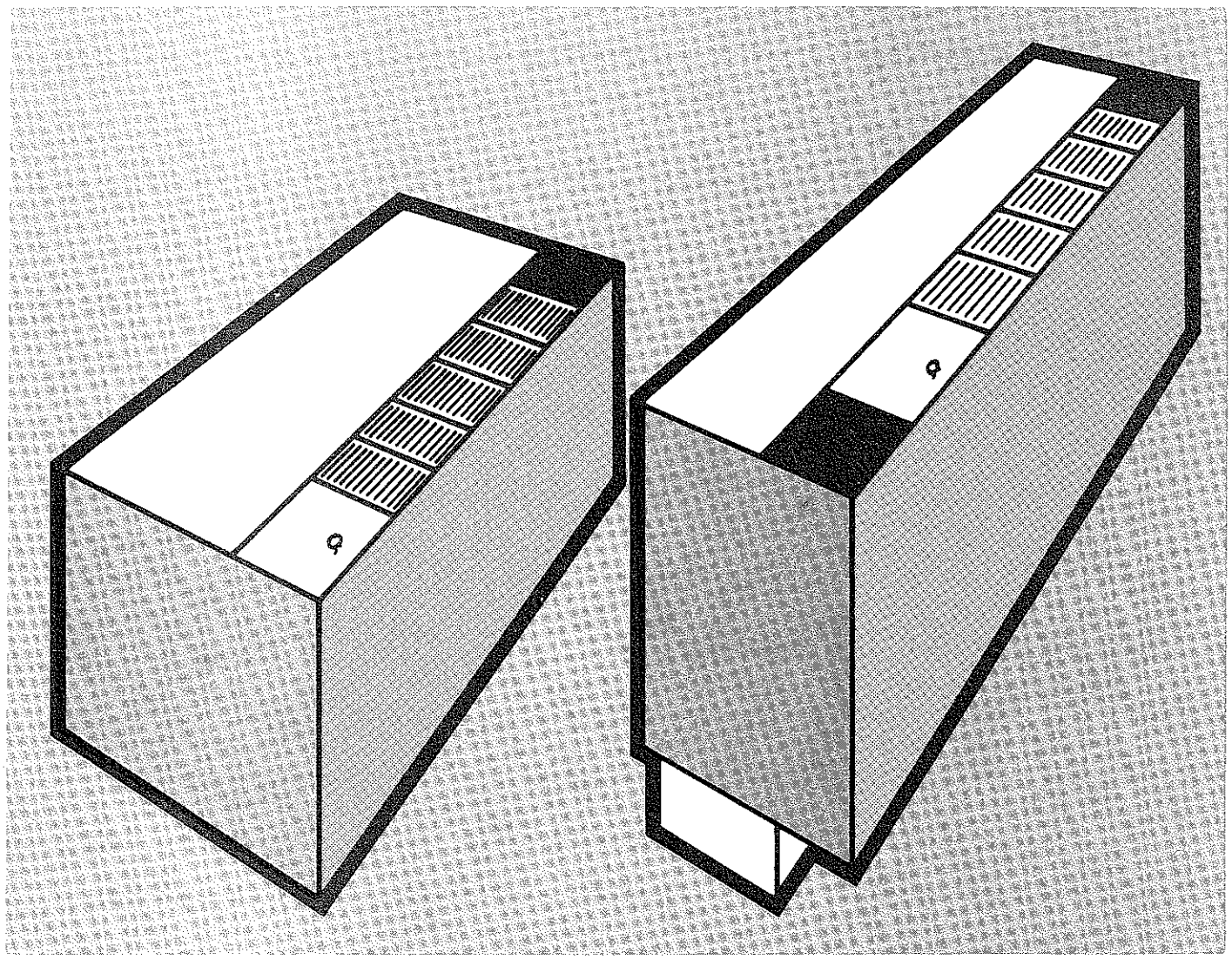
INSTALLATION INSTRUCTIONS



Climate Master

ADJOINING ROOM OUTLET

702/703 SERIES
FOR SP AND MP
PACKAGED TERMINAL
AIR CONDITIONERS

Friedrich
Climate Master®

DESCRIPTION

The 702/703 series adjoining room outlet option is available for providing supply air to an adjoining room. It is available for either end discharge or top discharge applications. (See Figure 1.)

The standard SP package consists of the following:

1. 4" x 9" x 40" Discharge Plenum
2. End Cap
3. Four Solid Block-Offs
4. Chassis Air Block-Off Plate
5. Control Module Air Block—off Plate
6. Duct Extension (12", 24", 36")
   (Retaining brackets will be supplied when more than one duct extension is specified.)

The standard MP package consists of the following:

1. 4" x 9" x 48" Discharge Plenum
2. End Cap
3. Three 5¼" and one 6" Solid Block-Offs
4. 5" Strip of Polyfoam
5. Control Module Air Block—off Plate
6. Duct Extension (12", 24", 36")
   (Retaining brackets will be supplied when more than one duct extension is specified.)

The optional package for both SP and MP models consists of a top discharge duct measuring 4" x 9" x 36" and six (6) adjustable grilles and one (1) end cap.

INSTALLATION

SP ADJOINING ROOM OUTLET
(See Figures 2 and 2A)

1. Minimum distance from finished wall to SP cabinet front panel must be 10½".
2. Power to unit should be shut off.
3. Remove complete top grille assembly (control door, block-off plates, grilles and grille support channels).
4. Remove decorative control panel and slotted head screw at lower right of control module.
5. Install control module air block-off. Use screw removed from Step 4 to hold in place. Replace decorative control panel. The air block-off prevents recirculation of supply air.
6. Install discharge plenum into top discharge opening.
7. Install duct extension into the right or left end of plenum depending on the application. The duct is held in place by clips located in discharge plenum. The unused end of the plenum is blocked off with the end cap. (See Figure 3.)
8. Insert chassis block-off panel on to the duct extension or end cap located on the right hand side of the plenum (polyfoam toward chassis).
9. Install control door above control panel.
10. Adjust adjoining room air flow according to the capacity chart. Always add grilles starting from the plenum end opposite the extension. (See Figure 4.)
11. For installation of additional duct extensions, insert the retaining bracket into the duct and attach with sheet metal screws through the holes provided. A maximum of 15' of extensions can be used. Multiple duct extensions must be supported every 3' or at each joint.
12. Install adjustable double deflection discharge louver to fit 4" x 9" duct.

MP ADJOINING ROOM OUTLET
(See Figures 5 and 5A)

1. Power to the unit should be off.
2. Remove six (6) discharge grilles, 5¼" solid block-off and control door. Do not remove grille support channels or 6" block-off plate.
3. Attach 5" strip of polyfoam on top right hand flange of chassis.
4. Install control module air block-off as described previously (Steps 4 and 5 of SP).
5. Install 6" block-off plate, provided with outlet package, on right side of discharge opening on chassis top.
6. Install discharge plenum into grille support channels.
7. Install duct extension, end cap, control door, discharge grilles and adjust air flow as described previously. (See Figure 3.)

TOP DISCHARGE ROOM OUTLET

The installation of the top discharge room outlet will require the use of at least one duct extension and a retaining bracket. (See Figure 3.)

The top discharge outlet must be included as part of the maximum 15' of extensions.

Refer to the top discharge air flow capacity table to determine the number of grilles required in the plenum. (See Figure 4.)

FIGURE 1 PARTIAL FRONT VIEW

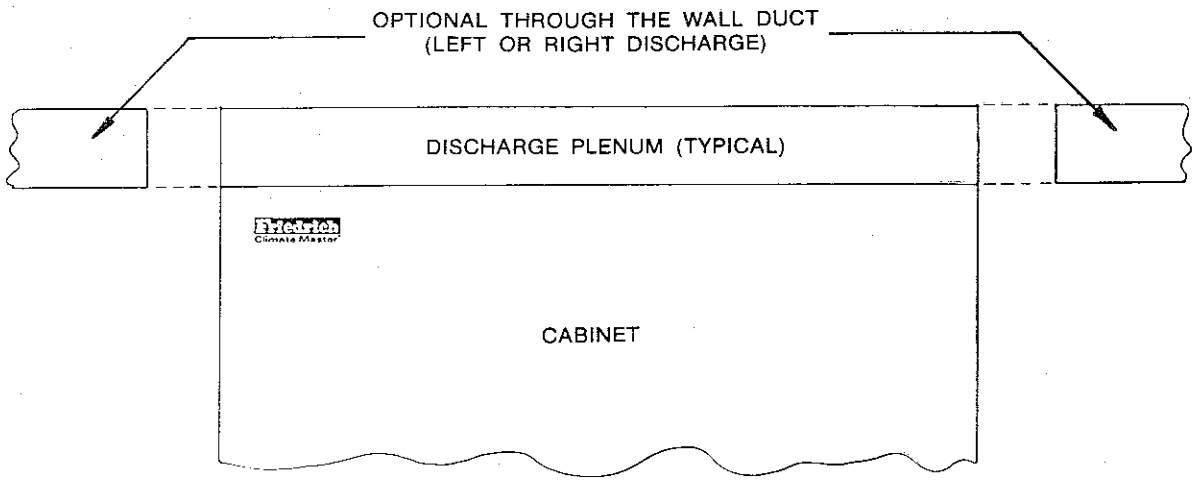


FIGURE 2 TOP VIEW — SP CABINET

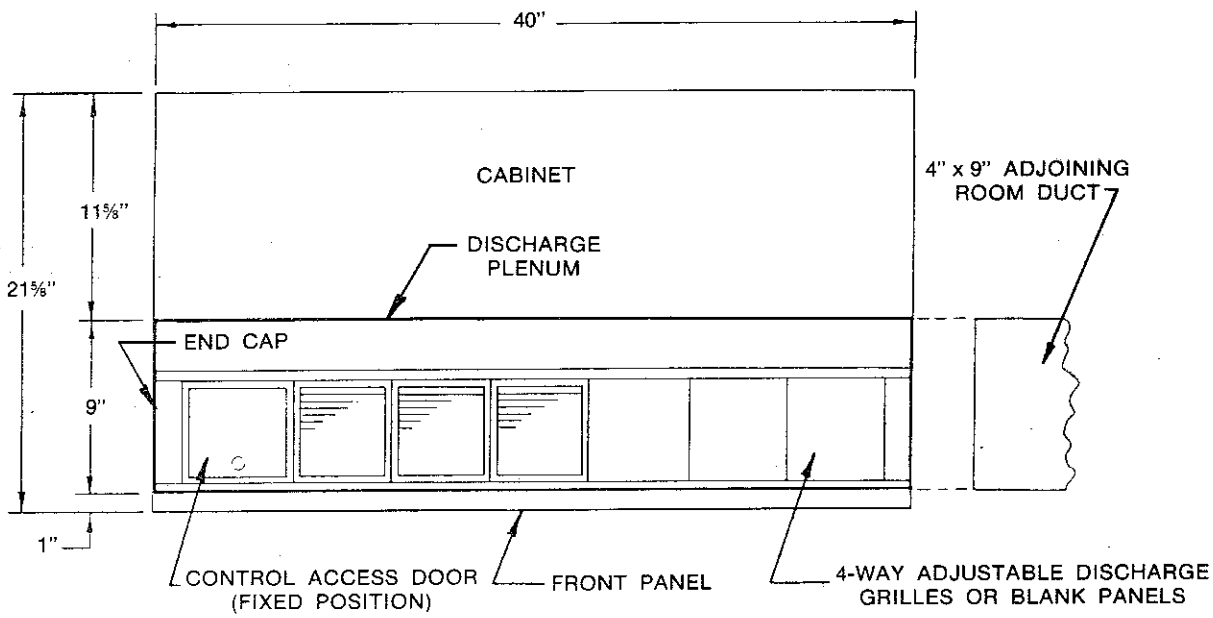


FIGURE 2A SP CABINET (Required 10½" Minimum Room Projection)

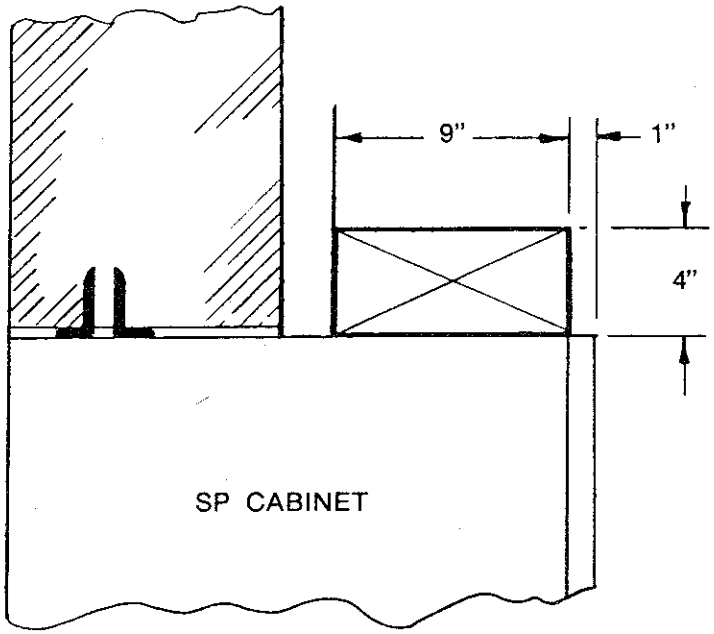


FIGURE 3 DUCT EXTENSION DIMENSIONS — TYPICAL

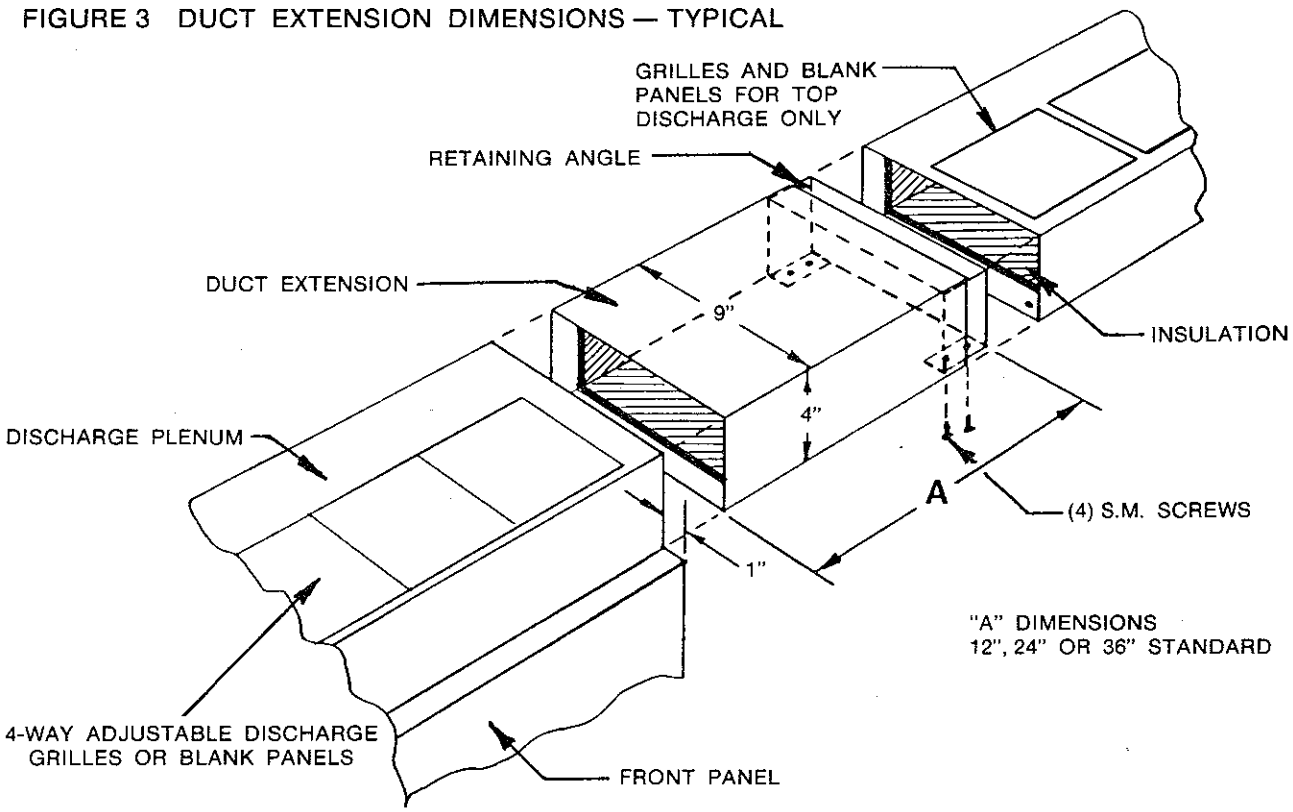


FIGURE 4

TOP DISCHARGE AIR FLOW CAPACITY RATIOS*

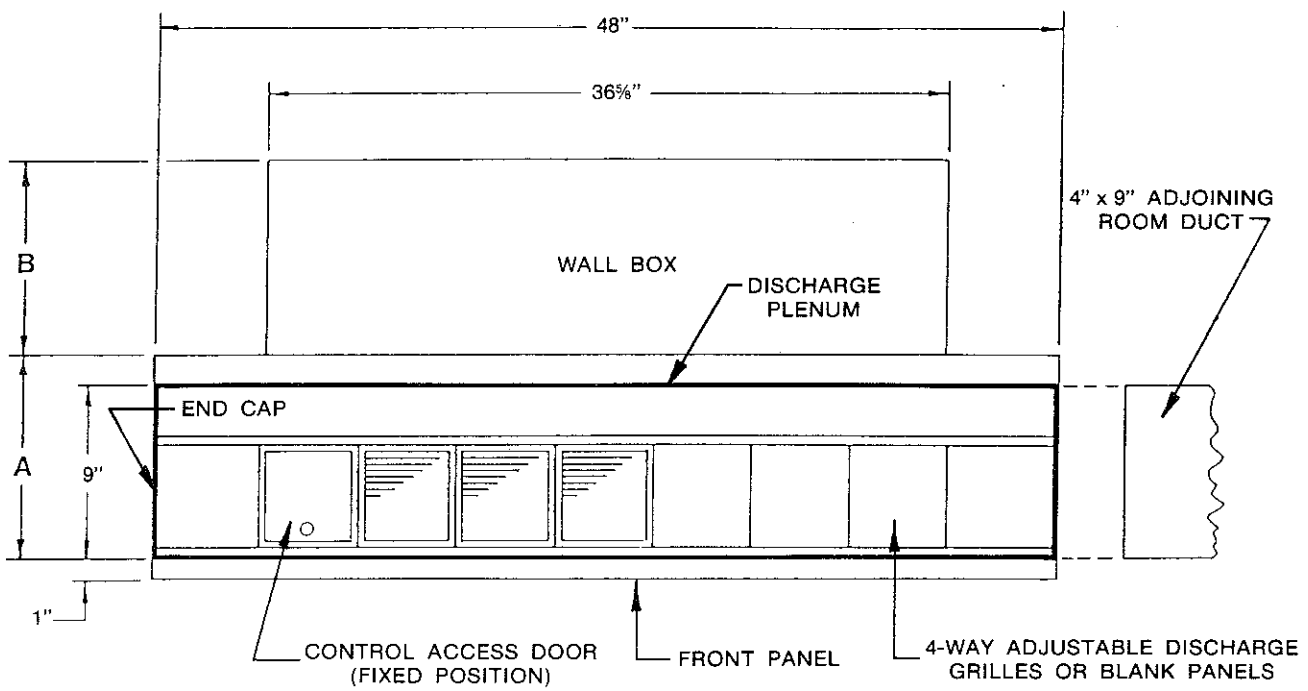
No. Plenum Discharge Grilles	No. Adjoining Room Discharge Grilles	Adjoining Room Air Flow
2	6	60%
3	6	50%
4	6	40%
5	6	30%
6	6	20%

*Based on one 3' duct extension. For each additional section up to a maximum of five (15 feet), deduct 1% from secondary room air flow.

NOTES:

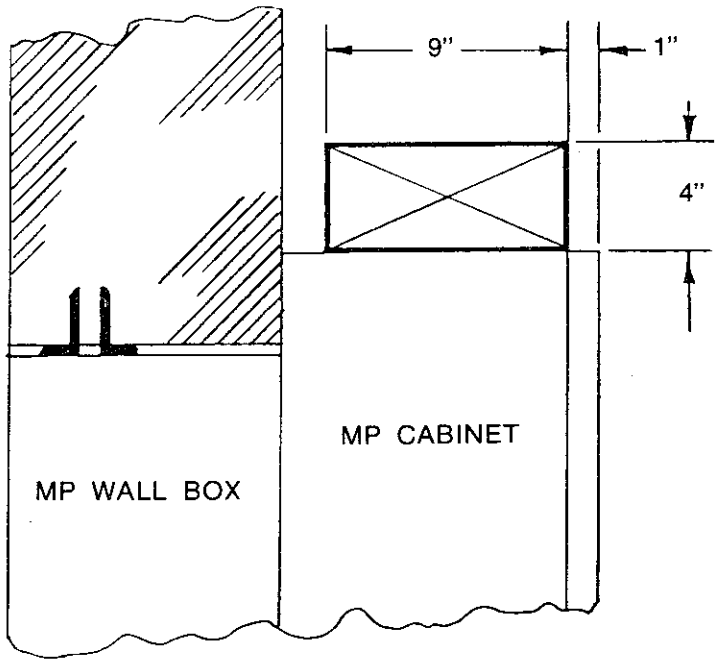
1. The discharge plenum and all extensions are internally insulated.
2. The first extension section slides inside either end of plenum and is held in place by the clips inside the discharge plenum.
3. Additional extensions are joined together by a retaining angle, and secured by four (4) S.M. screws.
4. A maximum of five (5) 3' extension sections (15') can be used per unit.
5. Extensions less than standard lengths can be cut to size in the field.
6. Multiple duct extensions must be supported every 3' or at each joint by installing contractor.
7. Extensions may be used on the right or left end of the plenum. The unused end is blocked off by a end cap.
8. Adjust adjoining room air flow by adding or removing discharge grilles and blank panels per the capacity chart. Always add grilles starting from the plenum end opposite the extension.
9. There must be return air provisions made between the main and secondary rooms. This could be a louvered, or undercut door, or a transfer grille through the common wall.
10. Plenum and extensions are painted to match the cabinet/wall sleeve.
11. Secondary room discharge grille furnished by Friedrich (optional).

FIGURE 5 TOP VIEW — MP CABINET & WALL BOX



"A" DIMENSION: 10½" — 15½"
"B" DIMENSION: 10" — 25"

FIGURE 5A MP CABINET (Self Locating)



NOTE: POSITIONS SHOWN ARE THE MINIMUM ROOM PROJECTION

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Continuing engineering research results in steady improvements. Therefore, these specifications are subject to change without notice.

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