

HEADER FOR 4 BRANCHING (CMY-Y104-G)
HEADER FOR 8 BRANCHING (CMY-Y108-G)
HEADER FOR 10 BRANCHING (CMY-Y1010-G)

INSTALLATION MANUAL

Caution
The incorrect selection of the type of branch pipe and the size of connecting pipe does not allow the air conditioner to provide the rated capacity. Please read this instruction manual carefully for correct mounting work.

The following parts are contained in this box. Please identify the quantity with types.

Header for 4 branching (CMY-Y104-G)

Parts list table for CMY-Y104-G header including Instruction, Header (liquid/gas), Pipe cover, Band, and quantities.

Usable for 3/4 branching (\* For 2 branching, use the optional header for 2 branching.)

Header for 8 branching (CMY-Y108-G)

Parts list table for CMY-Y108-G header including Sealing material and other components.

Usable for 5/6/7/8 branching

Header for 10 branching (CMY-Y1010-G)

Parts list table for CMY-Y1010-G header including Sealing material and other components.

Usable for 9/10 branching

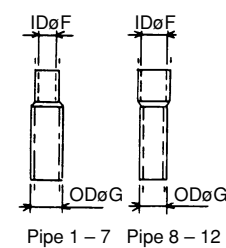


Table-1 Accessory pipes

Table 1: Accessory pipes with columns for Pipe Connection Specification and Quantity for models CMY-Y104-G, CMY-Y108-G, and CMY-Y1010-G.

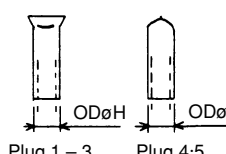


Table-2 Accessory plugs

Table 2: Accessory plugs with columns for Pipe Connection Specification and Quantity for models CMY-Y104-G, CMY-Y108-G, and CMY-Y1010-G.

Note: When the number of connecting pipes is less than the number of header branches, insert a plug of the appropriate size into each branch that does not have piping connected to it.

Note 1) Please prepare the following materials in addition to the items above. (1) Tape for sealing of insulation material (2) Extension pipe for refrigerant circuit.

2) Please observe the items below for the mounting work.

- 1. Observe the limit on refrigerant piping length in Table-3.
2. Observe the limit on the connection of indoor units in Table-4.
3. Connect the header to piping or plug/pipe by brazing. Non-oxidized brazing should be applied.
4. The header is equipped with stopper. Push in the stopper until the pipe to be connected stops.
5. No limitation is applied to the mounting posture.
6. Be careful that foreign materials like dust will not enter into the piping at the connection work.
7. Apply insulation material to all refrigerant pipings.
8. The piping after the header branching can not be branched again. Be sure to connect it to the indoor unit.

Limitation on refrigerant piping length

Table-3: Limitation on refrigerant piping length with columns for Item, Pipe section, and Allowable value.

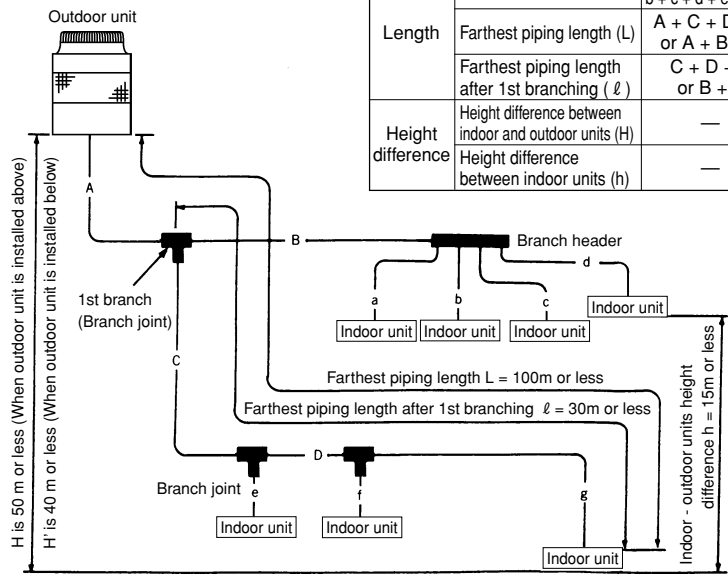
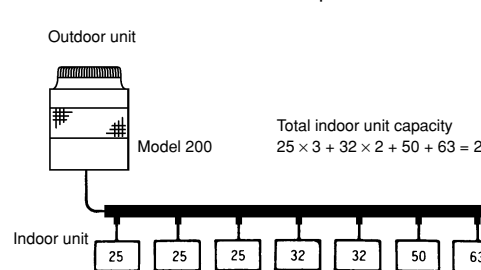


Fig. 1 Note: Branch piping can not be applied after header branching.

Limitation on indoor unit connection

Table-4: Limitation on indoor unit connection with columns for Model, Connectable indoor unit, and Total indoor unit capacity.

Example 1



Example 2

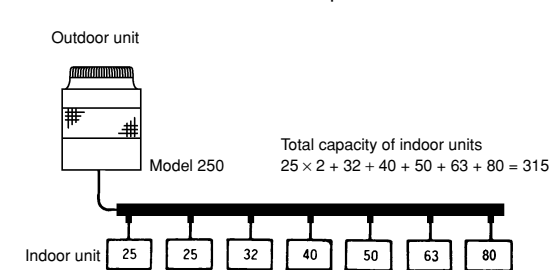


Fig. 2

3) Selection of refrigerant piping size and use of header

- 1. Prepare the pipe to be connected in the field.
2. Determine the piping sizes of each part from Table-5, 6 and 7.
3. The header can be connected to all piping sizes selected in the item 2. To match a specified piping size. (1) use the joint as it is. (2) use it by connecting the auxiliary pipe. Please conduct actual work by referring Fig 3 and Table-5 ~ 12.
4. Cover the branch pipe end of the header, which are not in use, with the plugs 1 ~ 5 provided.

Table-5 Piping size between outdoor unit and 1st branching (Fig.1-A)

Table 5: Piping size between outdoor unit and 1st branching with columns for Outdoor unit model, Liquid pipe, and Gas pipe.

\*1 ø12.7 for over 90m
\*2 ø12.7 for over 40m

Table-6 Piping size between branching (Fig.1-B-C-D)

Table 6: Piping size between branching with columns for Total capacity of indoor units, Liquid pipe, and Gas pipe.

Note: If indoor unit capacity is 651 or more, it can't connect to Fig.1-B directly. Then use the 2-branch joints. (Fig.1-C-D)

Table-7 Piping size branching (Fig.1-a-g)

Table 7: Piping size branching with columns for Indoor unit model, Liquid pipe, and Gas pipe.

Note: If indoor unit model is 200 and 250, it can't use the CMY-Y104, Y108 and Y1010-G. Then use the 2-branch joints.

Table-8 Between first branching and outdoor unit (Fig.1-A)

Table 8: Connection between first branching and outdoor unit with columns for Pipe types, Outdoor unit, and various model connections.

Note: Pipes on 450-type unit and up cannot be branched using a header (4-10-branch header); use an optional 2-branch joint.

Table-9 Between branching (Fig.1-B)

Table 9: Connection between branching with columns for Pipe types, Down stream capacity, and various model connections.

Table-10 4-branch header (CMY-Y104-G) (Fig.1-a-d)

Table 10: Connection for 4-branch header with columns for Section, Indoor unit, and various model connections.

Table-11 8-branch header (CMY-Y108-G) (Fig.1-a-d)

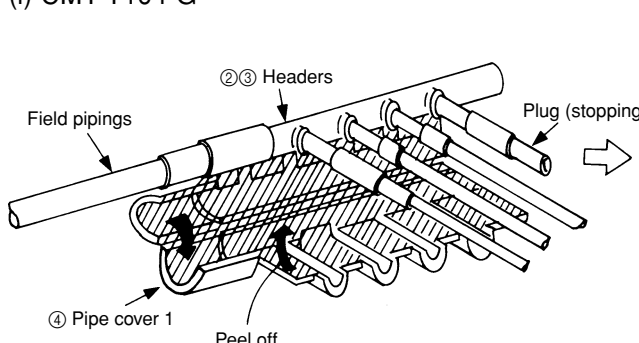
Table 11: Connection for 8-branch header with columns for Section, Indoor unit, and various model connections.

Table-12 10-branch header (CMY-Y1010-G) (Fig.1-a-d)

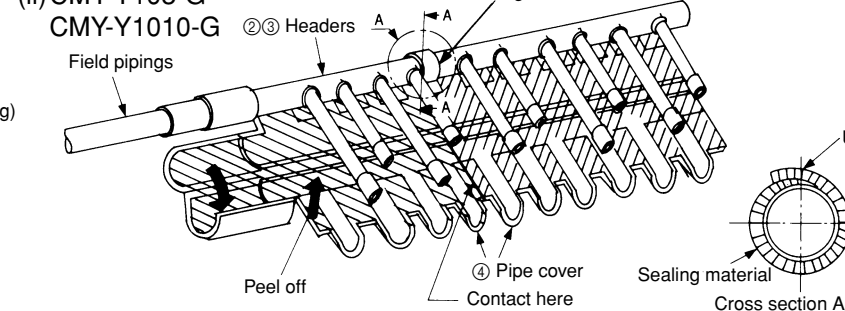
Table 12: Connection for 10-branch header with columns for Section, Indoor unit, and various model connections.

4) Mounting of cover (insulation material)

(i) CMY-Y104-G



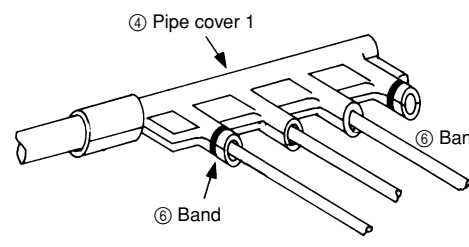
(ii) CMY-Y108-G



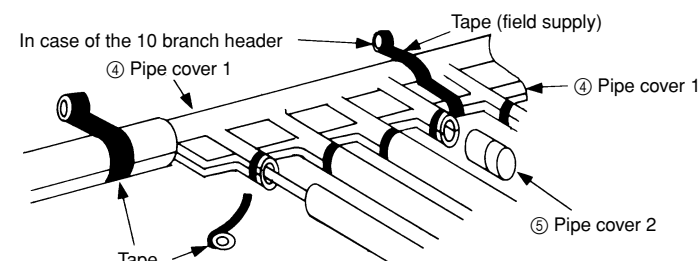
- (1) Insert the 23 headers into the pipe cover 1 (2 pcs.) respectively, peel off the paper pasted on the inner surface of the 4 pipe cover, and catch the 23 headers with the 4 pipe cover 1.

- (1) Wind sealing material onto A-section of 23 headers, [thin piping-small sealing material, thick piping-large sealing material], insert each header into 4 pipe cover 1, and put 23 headers between 4 pipe cover 1.

Note) For a part where sealing material is overlapped, wind sealing material onto the header so that the overlapped part locates at the upper side when the 10 branch header is installed.



- (2) Fasten both ends of the indoor side branching of the 4 pipe cover 1 with the 6 band as shown in the figure above. Cut off the surplus of the band.



- (3) Mount the 5 pipe cover 2 onto the positions stopped with the plugs 1 ~ 5 provided. Fully seal the butting section of the pipe cover with a tape (field supply). (Insufficient sealing causes condensation dripping.)