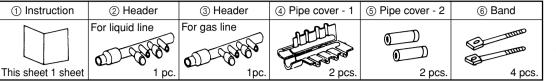
A MITSUBISHI ELECTRIC TY THE OPTIONAL PARTS

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

INSTALLATION MANUAL

1 The following parts are contained in this box. Please identify the quantity with types. **Header for 4 branching (CMY-Y104-G)**



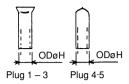
Usable for 3/4 branching (* For 2 branching, use the optional header for 2 branching.)

Header for 8 branching (CMY-Y108-G)

① Instruction	② Header	③ Header	④ Pipe cover - 1	⑤ Pipe cover - 2	Band	⑦ Sealing material	
	For liquid line	For gas line	, etti		TITUE		ι
			The same of the sa	6	O TOTAL STATE OF THE PARTY OF T		
This sheet 1 sheet	1 pc.	1pc.	Each 2 pcs.	4 pcs.	6 pcs.	Each 1 pc.	
			_				

Usable for 5/6/7/8 branching

| ODøG | ODøG Pipe 1 – 7 Pipe 8 – 12



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.

Limitation on indoor unit connection

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

Pipe Size (X)

ø12.7

Connect with pipe 1

No need pipe

Connect with pipe 1

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

Connect with pipe 6 Connect with pipe 7

Outdoor unit | Connecting

Gas pipe

CMY-Y104-G

Fig. 3

Table-1 Accesorry pipes

Pipe Connection Specification

	F (Connecting	G (Outer	CMY-Y104-G	CMY-Y108-G	CMY-Y1010-G		
	Pipe Size) Diamete				0		
Pipe 1	ø9.52	ø12.7	1	1	1		
Pipe 2	ø15.88	ø19.05	1	1	2		
Pipe 3	ø12.7	ø19.05	_	1	2		
Pipe 4	ø6.35	ø9.52	3	6	5		
Pipe 5	ø12.7	ø15.88	3	5	6		
Pipe 6	ø19.05	ø25.4	_	1	1		
Pipe 7	ø22.2	ø25.4	_	1	1		
Pipe 8	ø28.58	ø25.4	_	1	1		
Pipe 9	ø15.88	ø12.7	_	_	3		
Pipe 10	ø9.52	ø6.35	_	_	5		
Pipe 11	ø19.05	ø15.88	_	2	1		
Pipe 12	ø22.2	ø19.05	_	1	1		

Caution

capacity.

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

Please read this instruction manual carefully for correct mounting work.

Table-2 Accesorry plugs

	, , ,					
	Pipe Connection Specification	Quantity				
	H (Connecting Pipe Size)	CMY-Y104-G	CMY-Y108-G	CMY-Y1010-G		
Plug 1	ø6.35	1	2	2		
Plug 2	ø9.52	1	2	2		
Plug 3	ø12.7	1	2	2		
Plug 4	ø15.88	1	2	2		
Plua 5	~10.0E		1	4		

Model 450, 500

550, 600, 650

Not connectable

700, 750, 800

Not connectable

Model 400

Not connectable

Not connectable

Connect with pipe 8

Header for 10 branching (CMY-Y1010-G)

For liquid line For gas line	① Instruction	② Header	③ Header	④ Pipe cover - 1	⑤ Pipe cover - 2	⑥ Band	⑦ Sealing material
This sheet 1 sheet 1 sheet 1 pc. 1 pc. 1 pc. 1 Each 2 pcs. 4 pcs. 6 pcs.					9		Each 1 pc.

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.

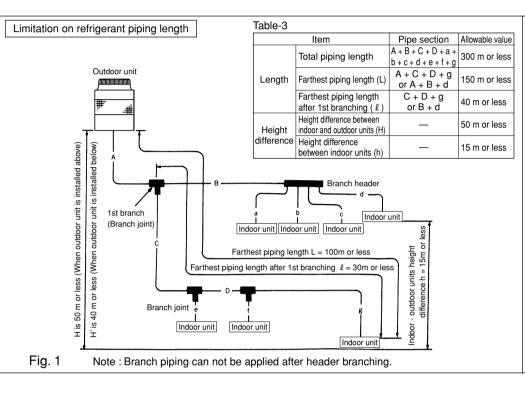
Usable for 9/10 branching

1. Observe the limit on refrigerant piping length in

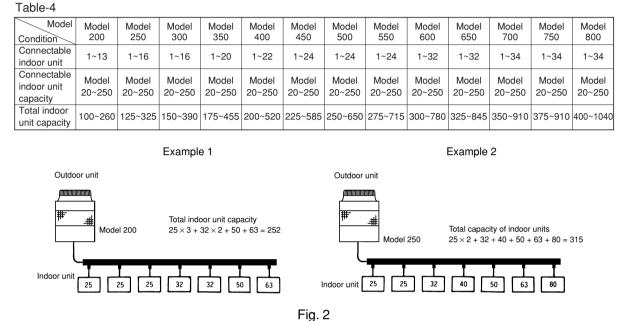
2 Please observe the items below for the mounting work.

- 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.



Between First branching and outdoor unit



Model 350

Not connectable

No need pipe

Connect with pipe 8

Connect with pipe 6 Connect with pipe 7 Connect with pipe 8 Connect with pipe 8 Connect with pipe 8 Not connectable

Not connectable

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)

Outdoor unit model	Liquid pipe	Gas pipe
Model 200	ø9.52	ø19.05
Model 250	ø9.52 *1	ø22.2
Model 300	ø9.52 *2	ø22.2
Model 350	ø12.7	ø28.58
Model 400	ø12.7	ø28.58
Model 450	ø15.88	ø28.58
Model 500	ø15.88	ø28.58
Model 550	ø15.88	ø28.58
Model 600	ø15.88	ø28.58
Model 650	ø15.88	ø28.58
Model 700	ø19.05	ø34.93
Model 750	ø19.05	ø34.93
Model 800	ø19.05	ø34.93
Model 800 over	ø19.05	ø41.28
1 a 10 7 for over 00m	•	

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

Total capacity

of indoor units 141~200

201~300

301~400

401~650

651~800

801~

Table-9 Retween branching (Fig 1-R)

Between branchings

2-branch joints are sold separately.

rable-9 between branching (Fig. 1-b)									
	Down stream		Model	Model	Model	Model	Model	Model	Model
Pipe types	capacity	Pipe Size (X)	140	141~200	201~300	301~400	401~650	651~800	801 or more
	Liquid pipe	ø12.7	Connect with	Connect with	Not	Not	Not	Not	Not
CMY-Y104-G	Gas pipe	012.7	pipe 1	pipe 1	connectable	connectable	connectable	connectable	connectable
CIVIT-1104-G	Liquid pipe	ø19.05	Connect with	No pood pipo	Not	Not	Not	Not	Not
	Gas pipe	Ø 19.05	pipe 2	No need pipe	connectable	connectable	connectable	connectable	connectable
	Liquid pipe	ø12.7	Connect with	Connect with	Connect with	No pood pipo	Not	Not	Not
CMY-Y108-G	Gas pipe	012.7	pipe 1	pipe 1	pipe 1	No need pipe	connectable	connectable	connectable
CIVIT-1106-G	Liquid pipe	ø 25.4	Connect with	Connect with	Connect with	No pood pipo	Not	Not	Not
	Gas pipe	0 25.4	pipe 2, 6	pipe 6	pipe 7	No need pipe	connectable	connectable	connectable
	Liquid pipe	ø15.88	Not	Connect with	Connect with	Connect with	No pood pipo	Not	Not
CMY-Y1010-G	Gas pipe	Ø 15.66	connectable	pipe 1, 5	pipe 1, 5	pipe 5	No need pipe	connectable	connectable
- CIVIT-11010-G	Liquid pipe	~OF 4	Not	Connect with	Connect with	Connect with	Connect with	Not	Not
	Gas pipe	ø25.4	connectable	pipe 6	pipe 7	pipe 8	pipe 8	connectable	connectable

ado pipo	0011110010010	p.po o	p.po .	
				ī

Outdoor unit

	Indoor unit	Connecting	Model 20, 25,	Model 71, 80,	Model	Model	
Section		Pipe Size	32, 40, 50	100, 125, 400	200	250	
	Liquid pipe	~0 F0	Connect with	No pood pipo	Not	Not	
4	Liquid pipe	ø9.52	pipe 4	No need pipe	connectable	connectable	
'	Gas pipe	ø15.88	Connect with	No pood pipo	Not	Not	
	Gas pipe	Ø 15.66	pipe 5	No need pipe	connectable	connectable	
	Liquid pipe	ø6.35	No need sine	Not	Not	Not	
2	Liquid pipe	Ø6.33	No need pipe	connectable	connectable	connectable	
2	Gas pipe	ø12.7	.7 No need pipe	Not	Not	Not	
	Gas pipe	012.7	no need pipe	connectable	connectable	connectable	
	Liquid pipe	ø9.52	Connect with No need pipe		Not	Not	
3	Liquid pipe	Ø9.5Z	pipe 4	No need pipe	connectable	connectable	
3	Gas pipo	Gas pipe	ø15.88	Connect with	No pood pipo	Not	Not
	das pipe	015.00	pipe 5	No need pipe	connectable	connectable	
	Liquid pipe	ø9.52	Connect with	No pood pipo	Not	Not	
4	Liquid pipe	Ø9.5Z	pipe 4	No need pipe	connectable	connectable	
4	Gas pipe	ø15.88	Connect with	No pood pipo	Not	Not	
	Gas pipe	013.88	pipe 5	No need pipe	connectable	connectable	

	Indoor unit	Connecting	Model 20, 25, 32,	Model 71, 80, 100,	Model	Model
Section		Pipe Size	40, 50	125, 140	200	250
1	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	No need pipe	No need pipe
'	Gas pipe	ø19.05	Connect with pipe 3	Connect with pipe 2	No need pipe	Connect with pipe 1
2	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	No need pipe	Not connectable
	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	Connect with pipe 11	Not connectable
3	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	No need pipe	Not connectable
0	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	Connect with pipe 11	Not connectable
4	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	Not connectable	Not connectable
-	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	Not connectable	Not connectable
5	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	Not connectable	Not connectable
3	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	Not connectable	Not connectable
6	Liquid pipe	ø6.35	No need pipe	Not connectable	Not connectable	Not connectable
O	Gas pipe	ø12.7	No need pipe	Not connectable	Not connectable	Not connectable
7	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	Not connectable	Not connectable
,	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	Not connectable	Not connectable
8	Liquid pipe	ø6.35	No need pipe	Not connectable	Not connectable	Not connectable
O	Gas pipe	ø12.7	No need pipe	Not connectable	Not connectable	Not connectable

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

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

Model 250, 300

Not connectable

Not connectable

Connect with pipe 1, 5 Connect with pipe 1, 5 Connect with pipe 5 Connect with pipe 5

Connect with pipe 1

	Indoor unit	Connecting	Model 20, 25, 32,	Model 71, 80, 100,	Model	Model
Section		Pipe Size	40, 50	125, 140	200	250
1	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	No need pipe	No need pipe
'	Gas pipe	ø19.05	Connect with pipe 3	Connect with pipe 2	No need pipe	Connect with pipe 12
2	Liquid pipe	ø6.35	No need pipe	Connect with pipe 10	Connect with pipe 10	Not connectable
2	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	Connect with pipe 11	Not connectable
3	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	No need pipe	Not connectable
3	Gas pipe	ø19.05	Connect with pipe 3	Connect with pipe 2	No need pipe	Not connectable
4	Liquid pipe	ø6.35	No need pipe	Connect with pipe 10	Not connectable	Not connectable
4	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	Not connectable	Not connectable
5	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	Not connectable	Not connectable
3	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	Not connectable	Not connectable
6	Liquid pipe	ø6.35	No need pipe	Connect with pipe 10	Not connectable	Not connectable
0	Gas pipe	ø12.7	No need pipe	Connect with pipe 9	Not connectable	Not connectable
7	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	Not connectable	Not connectable
,	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	Not connectable	Not connectable
8	Liquid pipe	ø6.35	No need pipe	Connect with pipe 10	Not connectable	Not connectable
0	Gas pipe	ø12.7	No need pipe	Connect with pipe 9	Not connectable	Not connectable
9	Liquid pipe	ø9.52	Connect with pipe 4	No need pipe	Not connectable	Not connectable
9	Gas pipe	ø15.88	Connect with pipe 5	No need pipe	Not connectable	Not connectable
10	Liquid pipe	ø6.35	No need pipe	Connect with pipe 10	Not connectable	Not connectable
10	Gas pipe	ø12.7	No need pipe	Connect with pipe 9	Not connectable	Not connectable

Table-7 Piping size branching (Fig.1-a~g)									
Indoor unit model	Liquid pipe	Gas pipe							
20, 25, 32, 40, 50	ø6.35	ø12.7							
63, 71, 80, 100, 125, 140	ø9.52	ø15.88							
200	ø9.52	ø19.05							
250	ø9 52	ø22 2							

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

Liquid pipe

ø12.7

ø19.05

ø19.05

Gas pipe

ø19.05

ø22.2

ø28.58

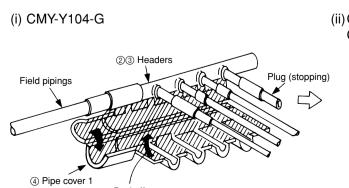
ø28.58

ø34.93

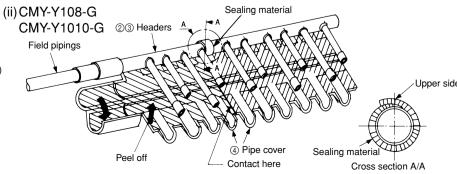
ø41.28

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

4 Mounting of cover (insulation material)

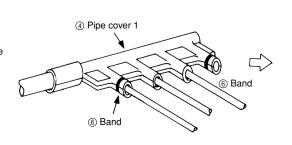


(1) Insert the 23 headers into the pipe cover 1 (2 pcs.) respectively, peel off the paper pasted on the inner surface of the 4 pipe cover, and catch the ②③ headers with the ④ pipe cover 1.

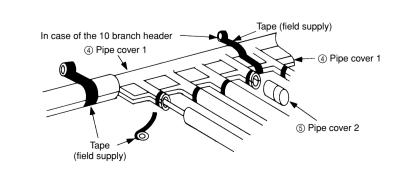


(1) Wind sealing material onto A-section of 23 headers, [thin piping-small sealing material, thick piping-large sealing material], insert each header into 4 pipe cover 1, and put 23 headers between ④ pipe cover 1.

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.)