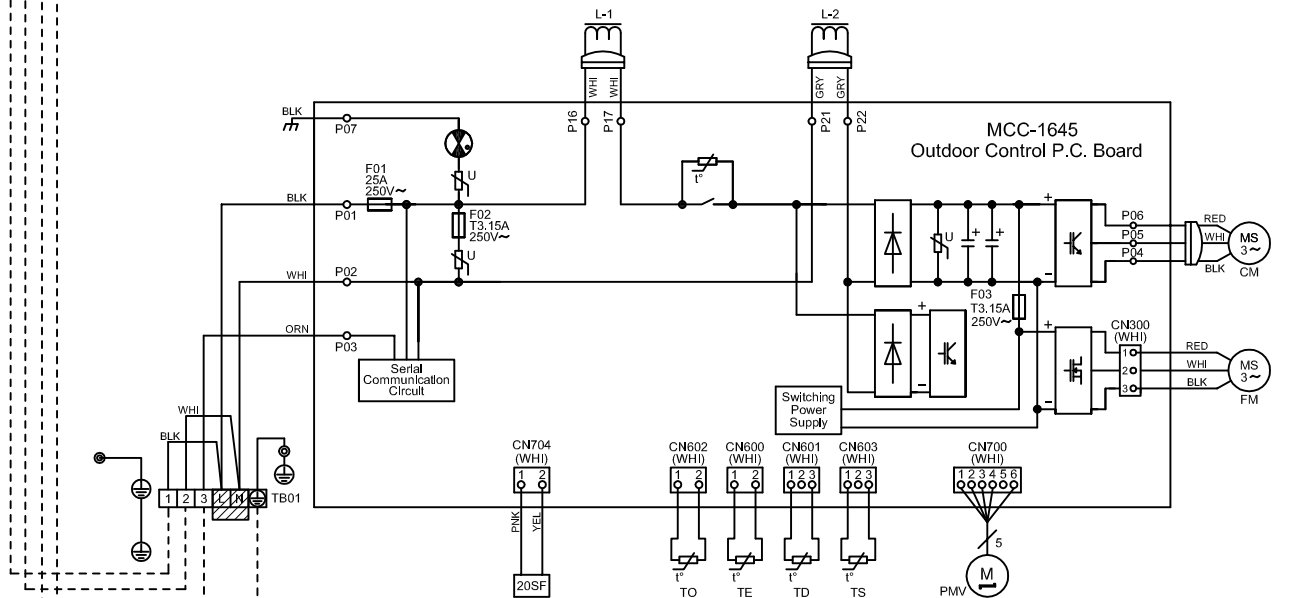
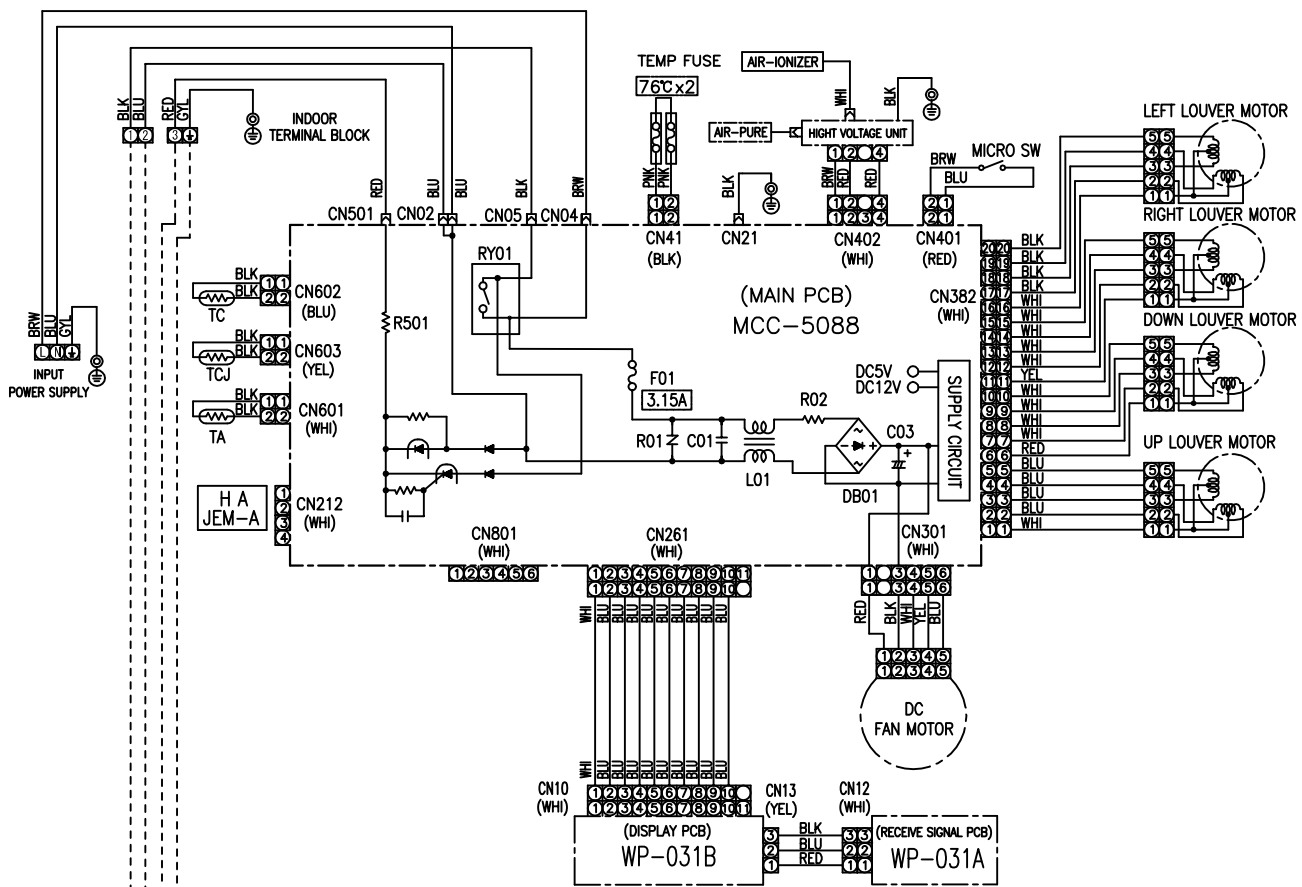


5. WIRING DIAGRAM



Symbol	Parts name	Symbol	Parts name
20SF	4-way valve coil	PMV	Pulse Motor Valve
CM	Compressor	TB01	Terminal block
FM	Fan Motor	TO	Air temp. sensor
CN***	Connector	TE	Heat exchange temp. sensor
F01	Fuse 25A 250V~	TD	Pipe temp. sensor (Discharge)
F02	Fuse T3.15A 250V~	TS	Pipe temp. sensor (Suction)
F03	Fuse T3.15A 250V~	L-1, L-2	Reactor
FH	Fuse ST1A 250V~	HT01	Heater cord

—	Field wiring
⊕	Protective earth
□	Terminal block
○	Terminal
⊞	Connector

Color Indication			
BLK	: BLACK	GRN	: GREEN
BLU	: BLUE	WHI	: WHITE
RED	: RED	YEL	: YELLOW
GRY	: GRAY	ORN	: ORANGE
PNK	: PINK		

6. SPECIFICATIONS OF ELECTRICAL PARTS

6-1. Indoor Unit

No.	Parts name	Type	Specifications
1	Fan motor (for indoor)	MF-340-30-3	DC250~370, 30W
2	Room temp. sensor (TA-sensor)	(-)	10k Ω at 25°C
3	Heat exchanger temp. sensor (TC-sensor)	(-)	10k Ω at 25°C
4	Heat exchanger temp. sensor (Tcj-sensor)	(-)	10k Ω at 25°C
5	Louver motor	24BYJ48-HT	Output (Rated) 1W, 16 poles, DC12V

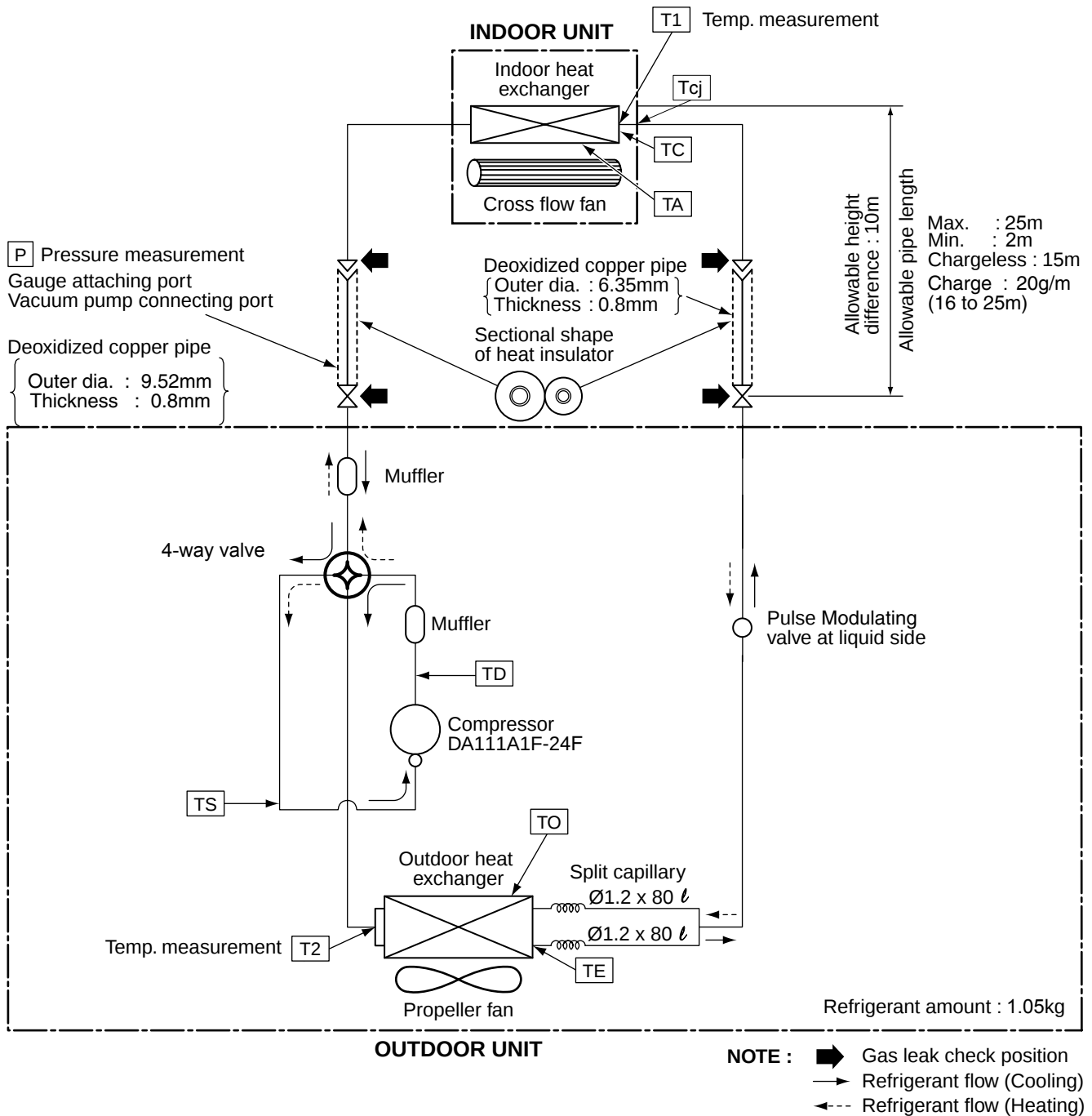
6-2. Outdoor Unit

No.	Parts name		Model name	Rating
1	Reactor		CH-57-Z-T ; R	L = 10mH, 16A
2	Outdoor fan motor		ICF-140-43-4R	DC140V, 43W
3	Suction temp. sensor (TS sensor)		(Inverter attached)	10k Ω (25°C)
4	Discharge temp. sensor (TD sensor)		(Inverter attached)	62k Ω (20°C)
5	Outside air temp. sensor (TO sensor)		(Inverter attached)	10k Ω (25°C)
6	Heat exchanger temp. sensor (TE sensor)		(Inverter attached)	10k Ω (25°C)
7	Terminal block (6P)		JX0-6B	20A, AC250V
8	Compressor	10k	DA111A1F-24F	3-phases 4-poles 750W
		13k, 16k	DA150A1T-21F	3-phases 4-poles 1100W
9	Coil for PMV		CAM-MD12TCTH-5	DC12V
10	Coil for 4-way valve		STF-H01AZ1724A1	DC12V

7. REFRIGERANT CYCLE DIAGRAM

7-1. Refrigerant Cycle Diagram

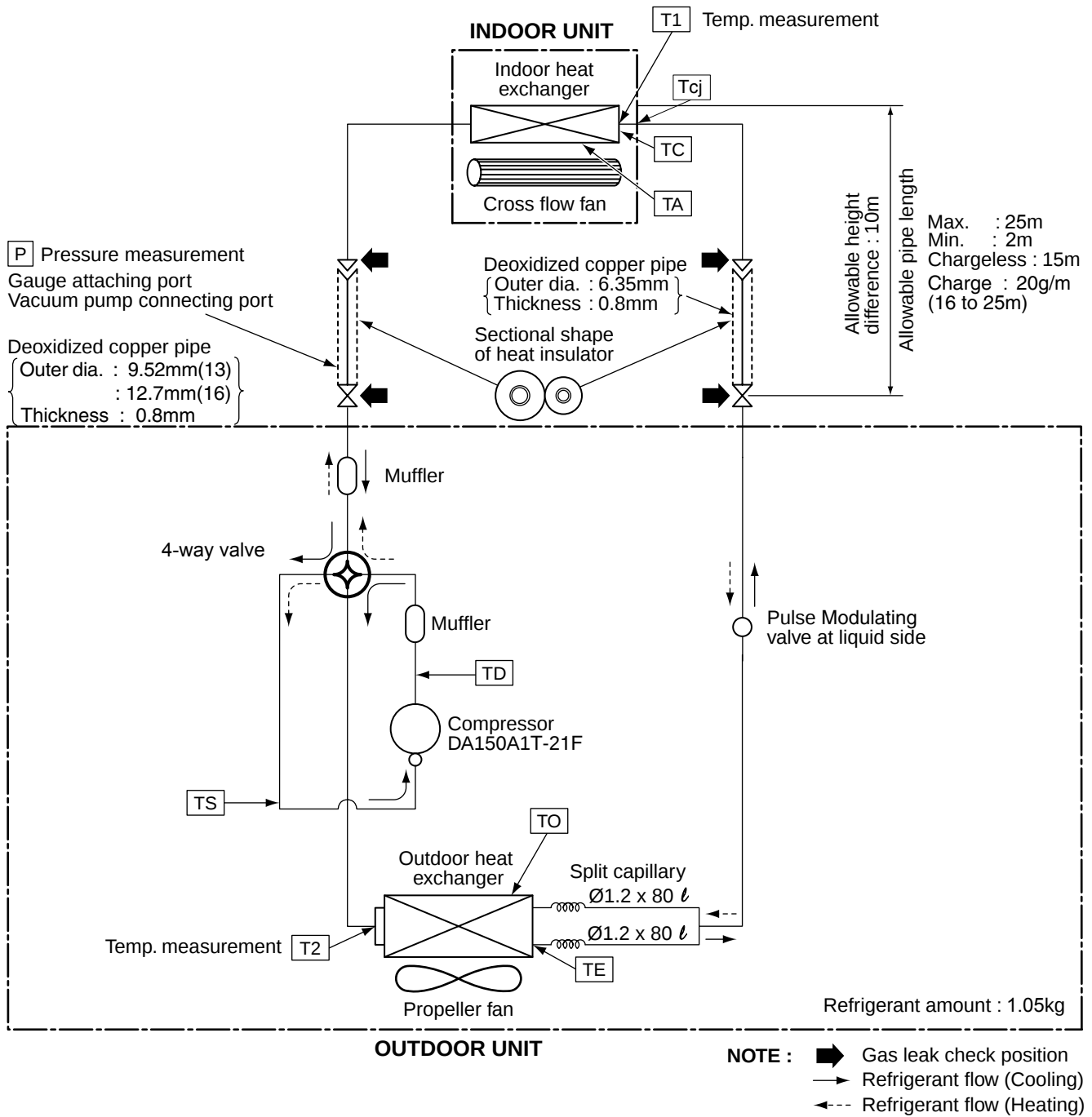
RAS-10G2KVP-E / RAS-10G2AVP-E



NOTE :

- The maximum pipe length of this air conditioner is 25 m. When the pipe length exceeds 15m, the additional charging of refrigerant, 20g per 1m for the part of pipe exceeded 15m is required. (Max. 200g)

RAS-13G2KVP-E / RAS-13G2AVP-E
RAS-16G2KVP-E / RAS-16G2AVP-E



NOTE :

- The maximum pipe length of this air conditioner is 25 m. When the pipe length exceeds 15m, the additional charging of refrigerant, 20g per 1m for the part of pipe exceeded 15m is required. (Max. 200g)

7-2. Operation Data**<Cooling>**

Temperature condition(°C)		Model name RAS-	Standard pressure P (MPa)	Heat exchanger pipe temp.		Indoor fan mode	Outdoor fan mode	Compressor revolution (rps)
Indoor	Outdoor			T1 (°C)	T2 (°C)			
27/19	35/-	10G2KVP-E	1.0 to 1.2	13 to 15	40 to 42	High	High	37
		13G2KVP-E	0.9 to 1.1	12 to 14	41 to 43	High	High	42
		16G2KVP-E	0.8 to 1.0	11 to 13	42 to 44	High	High	62

<Heating>

Temperature condition(°C)		Model name RAS-	Standard pressure P (MPa)	Heat exchanger pipe temp.		Indoor fan mode	Outdoor fan mode	Compressor revolution (rps)
Indoor	Outdoor			T1 (°C)	T2 (°C)			
20/-	7/6	10G2KVP-E	2.3 to 2.5	33 to 35	2 to 3	High	High	48
		13G2KVP-E	2.5 to 2.7	36 to 38	2 to 3	High	High	44
		16G2KVP-E	2.7 to 2.9	39 to 41	1 to 2	High	High	64

NOTES :

1. Measure surface temperature of heat exchanger pipe around center of heat exchanger path U bent.
(Thermistor thermometer)
2. Connecting piping condition : 5 m