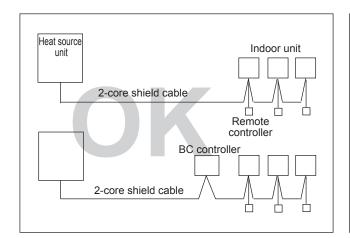
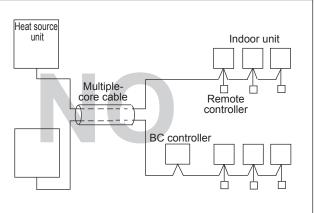
10-1. General cautions

- ① Follow ordinance of your governmental organization for technical standard related to electrical equipment, wiring regulations, and guidance of each electric power company.
- Wiring for control (hereinafter referred to as transmission cable) shall be (50mm[1-5/8in.] or more) apart from power source wiring so that it is not influenced by electric noise from power source wiring. (Do not insert transmission cable and power source wire in the same conduit.)
- 3 Be sure to provide designated grounding work to Heat source unit.
- ④ Give some allowance to wiring for electrical part box of indoor and Heat source unit, because the box is sometimes removed at the time of service work.
- Never connect 380~415V(220~240V) power source to terminal block of transmission cable. If connected, electrical parts will be damaged.
- ⑤ Use 2-core shield cable for transmission cable. If transmission cables of different systems are wired with the same multiple-core cable, the resultant poor transmitting and receiving will cause erroneous operations.
- ① When extending the transmission line, make sure to extend the shield cable as well.





10-2. Power supply for Heat source unit

10-2-1. Electrical characteristics of Heat source unit at cooling mode

Symbols: MCA (Max Circuit Amps)
RLA (Rated Load Amps), SC (Starting Current)

PQHY-P200YLM				Heat s	ource units		Compi	ressor	RL	A(A)
PQHY-P300YLM	PQHY-P-Y(S)LM	Unit combination	Hz	Volts	_	MCA(A)		SC(A)		
PQHY-P360YLM	PQHY-P200YLM	-				16.1	4.8		6.2/5.9/5.7	6.7/6.3/6.1
PQHY-P350YLM - PQHY-P500YLM - PQHY-P50YLM PQHY-P500YLM PQHY-P200YLM PQHY-P200YLM PQHY-P200YLM PQHY-P200YLM PQHY-P200YLM PQHY-P200YLM PQHY-P200YLM PQHY-P200YLM PQHY-P200YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P300YLM PQHY-P350YLM PQHY-P400YLM PQHY-P450YLM PQHY-P4	PQHY-P250YLM	-				16.1	6.2		8.2/7.8/7.5	8.5/8.1/7.8
PQHY-P400YLM PQHY-P500YLM PQHY-P500YLM PQHY-P500YLM PQHY-P600YLM PQHY-P200YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P300YLM PQHY-P350YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P450YLM PQHY-P550YLM PQHY-P450YLM PQHY-P450YLM PQHY-P450YLM PQHY-P450YLM PQHY-P550YLM PQHY-	PQHY-P300YLM	-				18.6	7.7		10.1/9.6/9.3	10.5/10.0/9.6
PQHY-P50YLM - PQHY-P50YLM - PQHY-P50YLM - PQHY-P600YLM - PQHY-P450YLM PQHY-P200YLM PQHY-P200YLM PQHY-P200YLM PQHY-P200YLM PQHY-P200YLM PQHY-P200YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P300YLM PQHY-P400YLM PQHY-P450YLM PQHY-P450	PQHY-P350YLM	-				23.1	9.5		12.0/11.4/11.0	12.7/12.0/11.6
PQHY-P500YLM - PQHY-P600YLM - PQHY-P400YSLM PQHY-P200YLM PQHY-P450YSLM PQHY-P250YLM PQHY-P550YSLM PQHY-P250YLM PQHY-P550YSLM PQHY-P250YLM PQHY-P550YSLM PQHY-P250YLM PQHY-P550YSLM PQHY-P300YLM PQHY-P400YLM PQHY-P450YLM PQHY-P500YSLM PQHY-P450YLM PQHY-P500YSLM PQHY-P450YLM PQHY-P500YSLM PQHY-P450YLM PQHY-P500YSLM PQHY-P500	PQHY-P400YLM	-				27.6	10.7		13.5/12.8/12.4	14.1/13.4/12.9
PQHY-P550YLM - PQHY-P200YLM - PQHY-P200YLM PQHY-P200YLM PQHY-P200YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P300YLM PQHY-P350YLM PQHY-P400YLM PQHY-P450YLM P	PQHY-P450YLM	-	7			32.9	11.6		15.6/14.8/14.3	16.5/15.7/15.1
PQHY-P600YLM - PQHY-P200YLM	PQHY-P500YLM	-	7			39.2	13.0		18.8/17.9/17.2	19.2/18.3/17.6
PQHY-P400YSLM PQHY-P200YLM PQHY-P200YLM PQHY-P250YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P350YLM PQHY-P400YLM PQHY-P450YLM PQHY	PQHY-P550YLM	-	7			40.5	15.0		21.1/20.1/19.3	20.7/19.6/18.9
PQHY-P400YSLM PQHY-P200YLM PQHY-P250YLM PQHY-P250YLM PQHY-P500YSLM PQHY-P250YLM PQHY-P500YSLM PQHY-P250YLM PQHY-P500YSLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P400YLM PQHY-P450YLM P	PQHY-P600YLM	-	7			40.5	16.1		24.4/23.2/22.3	24.4/23.2/22.4
PQHY-P200YLM PQHY-P250YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P400YLM PQHY-P450YLM PQHY-	DOHA DAUUASI W	PQHY-P200YLM	1			16.1	4.8		6.2/5.9/5.7	6.7/6.3/6.1
PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P350YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P450YLM	PQH1-P40013LW	PQHY-P200YLM				16.1	4.8		6.2/5.9/5.7	6.7/6.3/6.1
PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P250YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P30YLM PQHY-P300YLM PQHY-P300YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P400YLM PQHY-P450YLM	DOLLY DAFOVOLM	PQHY-P200YLM	7	380		16.1	6.2 6.2 8	6.2/5.9/5.7	6.7/6.3/6.1	
PQHY-P550YSLM PQHY-P250YLM FQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P350YLM PQHY-P400YLM PQHY-P450YLM PQHY	PQH1-P45015LW	PQHY-P250YLM				16.1			8.2/7.8/7.5	8.5/8.1/7.8
PQHY-P250YLM PQHY-P250YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P400YLM PQHY-P450YLM PQHY-	DOLLY DECOVELM	PQHY-P250YLM				16.1		8.2/7.8/7.5	8.5/8.1/7.8	
PQHY-P550YSLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P400YLM PQHY-P450YLM 15.6/14.8/14.3 16.5/15.7/15.1	PQH1-P30013LW	PQHY-P250YLM	50/60	400		16.1	6.2	8	8.2/7.8/7.5	8.5/8.1/7.8
PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P300YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P400YLM PQHY-P450YSLM PQHY-P450YSLM PQHY-P450YLM	DOLLY DEFOVOLM	PQHY-P250YLM	7	415	WIII1.342	16.1	6.2		8.2/7.8/7.5	8.5/8.1/7.8
PQHY-P300YSLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P400YLM PQHY-P450YSLM PQHY-P450YLM PQHY-P450YLM PQHY-P450YLM PQHY-P450YLM PQHY-P450YLM PQHY-P450YLM PQHY-P450YLM PQHY-P450YLM PQHY-P450YLM 32.9 11.6 15.6/14.8/14.3 16.5/15.7/15.1	PQH1-P33013LW	PQHY-P300YLM	7			18.6	7.7		10.1/9.6/9.3	10.5/10.0/9.6
PQHY-P300YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P400YLM PQHY-P450YLM	DOLLY DECOVELM	PQHY-P300YLM	7			18.6	7.7		10.1/9.6/9.3	10.5/10.0/9.6
PQHY-P350YLM PQHY-P350YLM PQHY-P350YLM PQHY-P400YLM PQHY-P450YLM	PQTT-P000TSLW	PQHY-P300YLM	7			18.6	7.7		10.1/9.6/9.3	10.5/10.0/9.6
PQHY-P350YLM PQHY-P350YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P450YLM 12.0/11.4/11.0 12.7/12.0/11.6 13.5/12.8/12.4 14.1/13.4/12.9 13.5/12.8/12.4 14.1/13.4/12.9 13.5/12.8/12.4 14.1/13.4/12.9 15.6/14.8/14.3 16.5/15.7/15.1	DOLLY DZOOVOLM	PQHY-P350YLM	7			23.1	9.5		12.0/11.4/11.0	12.7/12.0/11.6
PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P450YLM	PQHY-P700YSLM	PQHY-P350YLM	7			23.1	9.5		12.0/11.4/11.0	12.7/12.0/11.6
PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P400YLM PQHY-P450YLM	DOLLY D750/01 M	PQHY-P350YLM	7			23.1	9.5		12.0/11.4/11.0	12.7/12.0/11.6
PQHY-P800YSLM PQHY-P400YLM 27.6 10.7 13.5/12.8/12.4 14.1/13.4/12.9 27.6 10.7	PQHY-P750YSLM	PQHY-P400YLM	7			27.6	10.7		13.5/12.8/12.4	14.1/13.4/12.9
PQHY-P400YLM PQHY-P400YLM PQHY-P450YLM	DOLLY DOGGYOLM	PQHY-P400YLM	7			27.6	10.7		13.5/12.8/12.4	14.1/13.4/12.9
PQHY-P850YSLM PQHY-P450YLM 32.9 11.6 15.6/14.8/14.3 16.5/15.7/15.1 PQHY-P450YLM 32.9 11.6 15.6/14.8/14.3 16.5/15.7/15.1	PQHY-P400YSLM PQHY-P400YLM	7			27.6	10.7		13.5/12.8/12.4	14.1/13.4/12.9	
PQHY-P450YLM 32.9 11.6 15.6/14.8/14.3 16.5/15.7/15.1 PQHY-P450YLM 32.9 11.6 15.6/14.8/14.3 16.5/15.7/15.1	DOLLY DOLOVOLA	PQHY-P400YLM	1			27.6	10.7		13.5/12.8/12.4	14.1/13.4/12.9
POHY-P900YSI M	PQHY-P850YSLM	PQHY-P450YLM	1			32.9	11.6		15.6/14.8/14.3	16.5/15.7/15.1
PQHY-P450YLM 32.9 11.6 15.6/14.8/14.3 16.5/15.7/15.1	DOLLY DOGOVOLA	PQHY-P450YLM	7			32.9	11.6		15.6/14.8/14.3	16.5/15.7/15.1
	PQH1-P90015LM	PQHY-P450YLM	7			32.9	11.6		15.6/14.8/14.3	16.5/15.7/15.1

10-3. Power cable specifications

Thickness of wire for main power supply, capacities of the switch and system impedance

	Model	Minimum	wire thickne	ss (mm ²)	Ground-fault interrupter *1	Local sv	vitch (A)	Breaker for wiring (A)	Max.Permissive	
	Model	Main cable	Branch	Ground	Ground-lauit interrupter	Capacity	Fuse	(Non-fuse breaker)	System Impedance	
	PQHY-P200YLM	4.0	-	4.0	30A 100mA 0.1sec. or less	25	25	30	*2	
	PQHY-P250YLM	4.0	-	4.0	30A 100mA 0.1sec. or less	25	25	30	*2	
	PQHY-P300YLM	4.0	-	4.0	30A 100mA 0.1sec. or less	25	25	30	*2	
	PQHY-P350YLM	4.0	-	4.0	30A 100mA 0.1sec. or less	25	25	30	*2	
Heat source unit	PQHY-P400YLM	4.0	-	4.0	30A 100mA 0.1sec. or less	32	32	30	0.26Ω	
	PQHY-P450YLM	6.0	-	6.0	40A 100mA 0.1sec. or less	40	40	40	0.22Ω	
	PQHY-P500YLM	6.0	-	6.0	40A 100mA 0.1sec. or less	40	40	40	0.18Ω	
	PQHY-P550YLM	10.0	-	10.0	60A 100mA 0.1sec. or less	63	63	60	0.17Ω	
	PQHY-P600YLM	10.0	-	10.0	60A 100mA 0.1sec. or less	63	63	60	0.17Ω	
Total operating	F0 = 16A or less *3	1.5	1.5	1.5	20A current sensitivity *4	16	16	20	(apply to IEC61000-3-3)	
current of	F0 = 25A or less *3	2.5	2.5	2.5	30A current sensitivity *4	25	25	30	(apply to IEC61000-3-3)	
the indoor unit	F0 = 32A or less *3	4.0	4.0	4.0	40A current sensitivity *4	32	32	40	(apply to IEC61000-3-3)	

^{*1} The Ground-fault interrupter should support Inverter circuit.

The Ground-fault interrupter should combine using of local switch or wiring breaker.

F1 = Total operating maximum current of the indoor units × 1.2

 $F2 = \{V1 \times (Quantity \ of \ Type1)/C\} + \{V1 \times (Quantity \ of \ Type2)/C\} + \{V1 \times (Quantity \ of \ Type3)/C\} + \{V1 \times (Quantity \ of \ Type4)/C\} + \{V1 \times (Qu$

{V1 × (Quantity of Type6)/C} + {V1 × (Quantity of Type7)/C} + {V1 × (Quantity of Others)/C}

	Indoor unit			
Type1	PEFY-VMS, PFFY-VKM, PFFY-VLRMM	18.6	2.4	
Type2	PEFY-VMA	38	1.6	
Type3	PEFY-P200, 250VMHS	13.8	4.8	
Type4	PEFY-P40-140VMHS	26.8	1.6	
Type5	PLFY-VBM, PCFY-VKM	19.8	2.4	
Type6	PMFY-VBM, PKFY-VKM, PKFY-VHM	9.9	2.4	
Type7	PLFY-VEM, PLFY-VFM	17.1	2.4	
Others	Other indoor unit	0	0	

C: Multiple of tripping current at tripping time 0.01s

Please pick up "C" from the tripping characteristic of the breaker.

<Example of "F2" calculation>

*Condition PEFY-VMS1 × 4 + PEFY-VMA × 1, C = 8 (refer to right sample chart)

F2 = 18.6 × 4/8 + 38 × 1/8

= 14.05

 \rightarrow 16 A breaker (Tripping current = 8 × 16 A at 0.01s)



 $\text{G1} = (V2 \times \text{Quantity of Type1}) + (V2 \times \text{Quantity of Type2}) + (V2 \times \text{Quantity of Type3}) + (V2 \times \text{Quantity of Type4}) + (V2 \times \text{Quantity of Type5}) + (V3 \times \text{Quantity of Type4}) + (V4 \times \text{Quantity of Type5}) + (V4 \times \text{Quantity of Type4}) + (V4 \times \text{Quantity of Type4}) + (V4 \times \text{Quantity of Type5}) + (V4 \times \text{Quantity of Type4}) + (V4 \times \text{Quantity of Type4}) + (V4 \times \text{Quantity of Type5}) + (V4 \times \text{Quantity of Type4}) + (V4 \times \text{Quantity of Type5}) + (V4 \times \text{Quantity of Type4}) + (V4 \times \text{Quantity of Type4}) + (V4 \times \text{Quantity of Type5}) + (V4 \times \text{Quantity of Type4}) + (V4 \times \text{Quantity of Type5}) + (V4 \times \text{Quantity of Type5}) + (V4 \times \text{Quantity of Type4}) + (V4 \times \text{Quantity of Type5}) + (V4 \times \text{Quantity of Type5$

 $(V2 \times Quantity\ of\ Type6) + (V2 \times Quantity\ of\ Type7) + (V2 \times Quantity\ of\ Others) + (V3 \times Wire\ length\ [km])$

G1	Current sensitivity
30 or less	30 mA 0.1sec or less
100 or less	100 mA 0.1sec or less

Wire thickness	V3
1.5 mm ²	48
2.5 mm ²	56
4.0 mm ²	66

- 1. Use dedicated power supplies for the outdoor unit and indoor unit. Ensure OC and OS are wired individually.
- 2. Bear in mind ambient conditions (ambient temperature, direct sunlight, rain water, etc.) when proceeding with the wiring and connections.
- 3. The wire size is the minimum value for metal conduit wiring. If the voltage drops, use a wire that is one rank thicker in diameter. Make sure the power-supply voltage does not drop more than 10%. Make sure that the voltage imbalance between the phases is 2% or less.
- 4. Specific wiring requirements should adhere to the wiring regulations of the region.
- 5. Power supply cords of parts of appliances for outdoor use shall not be lighter than polychloroprene sheathed flexible cord (design 245 IEC57). For example, use wiring such as YZW.
- 6. A switch with at least 3 mm contact separation in each pole shall be provided by the Air Conditioner installer.

riangle WARNING

- Be sure to use specified wires for connections and ensure no external force is imparted to terminal connections. If connections are not fixed firmly, heating or fire may result.
- Be sure to use the appropriate type of overcurrent protection switch. Note that generated overcurrent may include some amount of direct current.

△CAUTION

- ◆ The breakers for current leakage should support Inverter circuit. (e.g. Mitsubishi Electric's NV-S-Series or equivalent). If no earth leakage breaker is installed, it may cause an electric shock
- Breakers for current leakage should combine using of switch.
- Do not use anything other than a breaker with the correct capacity. Using a breaker of too large capacity may cause malfunction or fire.
- If a large electric current flows due to malfunction or faulty wiring, earth-leakage breakers on the unit side and on the upstream side of the power supply system may both operate.
 Depending on the importance of the system, separate the power supply system or take protective coordination of breakers.

Note

- This device is intended for the connection to a power supply system with a maximum permissible system impedance shown in the above table at the interface point (power service box) of the user's supply.
- The user must ensure that this device is connected only to a power supply system which fulfils the requirement above.
 If necessary, the user can ask the public power supply company for the system impedance at the interface point.
- ♦ This equipment complies with IEC 61000-3-12 provided that the short-circuit power Ssc is greater than or equal to Ssc(*2) at the interface point between the user's supply and the public system. It is the responsibility of the installer or user of the equipment to ensure, by consultation with the distribution network operator if necessary, that the equipment is connected only to a supply with a short-circuit power Ssc greater than or equal to Ssc(*2).

Ssc(*2)

Model	PQHY-P200YLM	PQHY-P250YLM	PQHY-P300YLM	PQHY-P350YLM	PQHY-P400YLM	PQHY-P450YLM	PQHY-P500YLM	PQHY-P550YLM	PQHY-P600YLM
Ssc (MVA)	1.25	1.25	1.44	1.79	2.14	2.55	3.04	3.14	3.14

6000

600

60

0.1

0.01

2 3 4 6 8 10

Rated Tripping current (x)

Tripping Time

SAMPLE

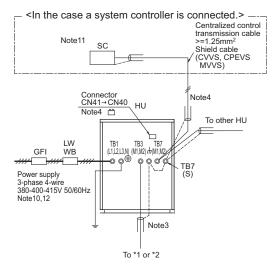
^{*2} Meet technical requirements of IEC61000-3-3.

^{*3} Please take the larger of F1 or F2 as the value for F0.

10-4. Power supply examples

The local standards and/or regulations is applicable at a higher priority.

10-4-1. PQHY-P200-600YLM



- Note:

 1 The transmission cable is not-polarity double-wire.
 2 Symbol @ means a screw terminal for wiring.
 3 The shield wire of transmission cable should be connected to the grounding terminal at Heat source unit. All shield wire of M-Net transmission cable among Indoor units should be connected to the S terminal at Indoor unit or all shield wire should be connected.
- be connected to the S terminal at Indoor unit or all shield wire snound be connected together.

 The broken line at the scheme means shield wire.

 4 When the Heast source unit connected with system controller, power-supply to TB7 of the heast source unit(s) is needed. The connector change from CN41 to CN40 at one of the heat source unit(s) is needed. The connector change from CN41 to CN40 at one of the heat source units one of the heat source units and system controllers is called control transmission cable. The transmission cable (above 1.25mm², shielded, CVVS/CPEVS/MVVS) among Heat source units and system controllers is called centralized control transmission cable. The shield wire of the centralized control transmission cable units be grounded at the Heat source unit whose CN41 is changed to CN40. When the power supplying unit PAC-SC5/tKUA is used, connect the shielded cable to the ground terminal on the PAC-SC5/tKUA.

 5 MA R/C transmission cable (0.3-1.25mm²) must be less than 10m in length, while ME R/C to the R/R/C cab extend using a M-NET cable (2-1.25mm²) when the length is counted in the M-Net length.

- cable to the ME H/C can be extend using a M-NEI cable (2=1.25mm²) when the length is counted in the M-Net length.

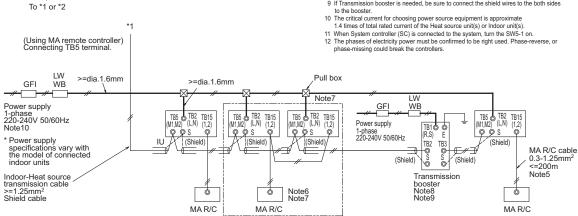
 6 MA remote controller and ME remote controller should not be grouped together. When a PAR-CT01MA or PAR-3X MA-Series (X indicates 1, 2...) is connected to a group, no other MA remote controllers can be connected to the same group.

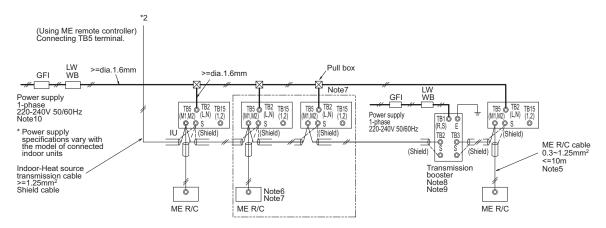
 7 If using 1 or 2 (main/sub) MA remote controller to control more than 1 Indoor unit, use MA transmission cable to connect all the TB15 terminals of the Indoor units. It is called "Grouping".
- If using 1 or 2 (main/sub) ME remote controller control more than 1 indoor unit, set address to Indoor unit and ME remote controller. For the method, refer to 11-4, "Address
- address to Inuous units and measures.

 Setting*.

 Indoor board consumes power from TB3. The power balance should be considered according to System Design 11-3. "System configuration restrictions".

 If Transmission booster is needed, be sure to connect the shield wires to the both sides





Symbol		Model	Ground-fault interrupter	Loca	l switch	Wiring breaker*4	Minimum Wire thickness	
			*1, *2, *4	BKC <a>	OCP*3, *4 <a>	(NFB) <a>	Power wire <mm<sup>2></mm<sup>	Earth wire <mm<sup>2></mm<sup>
GFI	Ground-fault interrupter	PQHY-P200YLM	30A 100mA 0.1sec. or less	25	25	30	4	4
LW	Local switch	PQHY-P250YLM	30A 100mA 0.1sec. or less	25	25	30	4	4
BKC	Breaker capacity	PQHY-P300YLM	30A 100mA 0.1sec. or less	25	25	30	4	4
OCP	Over-current protector	PQHY-P350YLM	30A 100mA 0.1sec. or less	25	25	30	4	4
		PQHY-P400YLM	30A 100mA 0.1sec. or less	32	32	30	4	4
WB	Wiring breaker	PQHY-P450YLM	40A 100mA 0.1sec. or less	40	40	40	6	6
NFB	Non-fuse breaker	PQHY-P500YLM	40A 100mA 0.1sec. or less	40	40	40	6	6
HU	Heat source unit	PQHY-P550YLM	60A 100mA 0.1sec. or less	63	63	60	10	10
IU	Indoor unit	PQHY-P600YLM	60A 100mA 0.1sec. or less	63	63	60	10	10
SC MA R/C	System controller	*1 The Ground-fau	It interrupter should support Inverte	er circuit. (e.g. N		s NV-S-Series or equiv	ralent).	-

- *2 Ground-fault interrupter should combine using of local switch or wiring breaker
- *3 It shows data for B-type fuse of the breaker for current leakage
- *4 If a large electric current flows due to malfunction or faulty wiring, earth-leakage breakers on the unit side and on the centralized controller side may both operate

Depending on the importance of the system, separate the power supply system or take protective coordination of breakers.

ME R/C

ME remote controller

(Using MA remote controller) Connecting TB5 terminal.

WB

GFI

Power supply

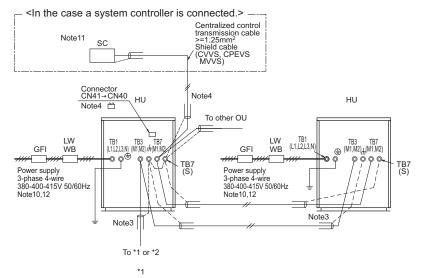
1-phase 220-240V 50/60Hz Note10

Indoor-Heat source transmission cable >=1.25mm² Shield cable

>=dia.1.6mm

The local standards and/or regulations is applicable at a higher priority.

10-4-2. PQHY-P400-900YSLM



>=dia.1.6mm

TB15 (1,2) ©

(Shield)

TB5 💩 (M1,M2)

99

0

ME R/C

0 Note6 Note7

ME R/C

TB2 (L,N)

TB5 💩

TB15 (1,2) ©

LW WB

Transmission

0

ME R/C

booster Note8 Note9

GF

Power supply 1-phase 220-240V 50/60Hz

- Note:

 1 The transmission cable is not-polarity double-wire.
 2 Symbol @ means a screw terminal for wiring.
 3 The shield wire of transmission cable should be connected to the grounding terminal at Heat source cunt. All shield wire of M-Net transmission cable among Indoor units should be connected to the S terminal at Indoor unit or all shield wire should be connected. together.
 - The broken line at the scheme means shield wire
- When the Heat source unit connected with system controller, power-supply to TB7 of the heat source unit(s) is needed. The connector change from CN41 to CN40 at one of the heat source units will enable the heat source unit to supply power to TB7, or an extra power supplying unit PAC-SC51KUA should be used. The transmission cable (above 1.25mm², shielded, CVVS/CPEVS/MVVS) among Heat source units and system controllers is called centralized control transmission cable. The shield wire of the controuers is called centralized control transmission cable. The shield wire of the centralized control transmission cable must be grounded at the Heat source unit whose CN41 is changed to CN40. When the power supplying unit PAC-SC51KUA is used, connect the shielded cable to the ground terminal on the PAC-SC51KUA. Shark Constraints with the control of the PAC-SC51KUA is MARCIC transmission cable (0.3-1.25mm²) must be less than 10m in length, but transmission cable to the ME R/C can be extend using a M-NET cable (>=1.25mm²) when the length is counted in the M-Net length.

- cable to the MIE-R/C can be extend using a M-NE1 cable (p=1.2/mm²) when the length is ocunited in the M-Net length.

 6 MA remote controller and ME remote controller should not be grouped together. When a PAR-CTOTIMA or PAR-3X MA-Series (X indicates 1, 2...) is connected to a group, no other MA remote controllers can be connected to the same group.

 7 If using 1 or 2 (main/sub) MA remote controller to control more than 1 Indoor unit, use MA transmission cable to connect all the TB15 terminals of the Indoor units. It is called 'Grouping'.

 If using 1 or 2 (main/sub) ME remote controller control more than 1 indoor unit, set address to Indoor unit and ME remote controller. For the method, refer to 11-4. "Address Setting".

 8 Indoor board consumes power from TB3. The power balance should be considered according to System Design 11-3. "System configuration restrictions".

 9 If Transmission booster is needed, be sure to connect the shield wires to the both sides to the booster.

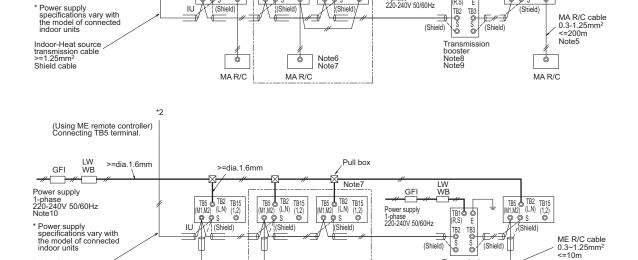
 10 The ortifical current for choosing power source equipment is approximate 1.4 times of total rated current of the Heat source unit(s) or Indoor unit(s).

 11 When System controller (SC) is connected to the system, turn the SW5-1 on.

 12 The phases of electricity power must be confirmed to be right used. Phase-reverse, or phase-missing could break the controllers.

TB5 © TE (M1,M2) (L, P P S TB2 (L,N)

Note5



Pull box

Note?

TB2 TB1: (1,2)

(Shield)

TB5 (M1,M2)

(W1,W12) (S

Symbol		Model	Ground-fault interrupter	Loca	switch	Wiring breaker*4	Minimum Wire thickness	
			*1, *2, *4	BKC <a>	OCP*3, *4 <a>	(NFB) <a>	Power wire <mm<sup>2></mm<sup>	Earth wire <mm²></mm²>
GFI	Ground-fault interrupter	PQHY-P200YLM	30A 100mA 0.1sec. or less	25	25	30	4	4
LW	Local switch	PQHY-P250YLM	30A 100mA 0.1sec. or less	25	25	30	4	4
вкс	Breaker capacity	PQHY-P300YLM	30A 100mA 0.1sec. or less	25	25	30	4	4
OCP	Over-current protector	PQHY-P350YLM	30A 100mA 0.1sec. or less	25	25	30	4	4
NB	Wiring breaker	PQHY-P400YLM	30A 100mA 0.1sec. or less	32	32	30	4	4
NFB	Non-fuse breaker	PQHY-P450YLM	40A 100mA 0.1sec. or less	40	40	40	6	6
HU IU	Heat source unit		It interrupter should support Inverter errupter should combine using of lo	, 0		NV-S-Series or equiv	alent).	
sc	System controller	*3 It shows data for	r B-type fuse of the breaker for curr	ent leakage.				
MA R/C ME R/C	MA remote controller ME remote controller	*4 If a large electric may both operate	c current flows due to malfunction of te.	faulty wiring, e	earth-leakage brea	akers on the unit side a	and on the centraliz	zed controller s

Depending on the importance of the system, separate the power supply system or take protective coordination of breakers.