Model			PQRY-P200YLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity *1		kW	22.4
(Nominal) *1		BTU/h	76,400
	Power input	kW	3.71
	Current input	A	6.2-5.9-5.7
	EER	kW/kW	6.03
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)
cooling	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity *2		kW	25.0
(Nominal) *2		BTU/h	85,300
	Power input	kW	3.97
	Current input	A	6.7-6.3-6.1
	COP	kW/kW	6.29
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)
heating	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit	Total capacity		50~150% of heat source unit capacity
connectable	Model/Quantity		P10~P250, M20~M140/1~20
Sound pressure level (measured in anechoic room)		dB <A>	46
Sound power level (measured in anechoic room)		dB <A>	60
Refrigerant	High pressure	mm (in.)	15.88 (5/8) Brazed
piping diameter	Low pressure	mm (in.)	19.05 (3/4) Brazed
Circulating water	Water flow rate	m^3/h	5.76
		L/min	96
		cfm	3.4
	Pressure drop	kPa	24
	Operating volume range	m^3/h	3.0 ~ 7.2
Compressor	Type		Inverter scroll hermetic compressor
	Starting method		Inverter
	Motor output	kW	4.8
	Case heater	kW	-
	Lubricant		MEL32
External finish			Galvanized steel sheets
External dimension H x W x D		mm	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection
	Compressor		Over-heat protection
Refrigerant	Type x original charge		R410A x 5.0 kg (12 lbs)
	Control		Indoor LEV and BC controller
Net weight		kg (lbs)	173 (382)
Heat exchanger			plate type
	Water volume in plate	l	5.0
	Water pressure Max.	MPa	2.0
HIC circuit (HIC: Heat Inter-Changer)			-
Drawing	External		KL94C183
	Wiring		KE94G420
Standard attachment	Document		Installation Manual
	Accessory		Refrigerant conn. pipe
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 BC controller: CMB-P104, 106, 108, 1012, 1016V-J/CMB-M104, 106, 108, 1012, 1016V-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter	
BTU/h	=kW x 3,412
cfm	$=m^3/min$ x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P250YLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	28.0
(Nominal)	*1	BTU/h	95,500
	Power input	kW	4.90
	Current input	A	8.2-7.8-7.5
	EER	kW/kW	5.71
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)
cooling	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity	*2	kW	31.5
(Nominal)	*2	BTU/h	107,500
	Power input	kW	5.08
	Current input	A	8.5-8.1-7.8
	COP	kW/kW	6.20
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)
heating	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit	Total capacity		50~150% of heat source unit capacity
connectable	Model/Quantity		P10~P250, M20~M140/1~25
Sound pressure level (measured in anechoic room)		dB <A>	48
Sound power level (measured in anechoic room)		dB <A>	62
Refrigerant	High pressure	mm (in.)	19.05 (3/4) Brazed
piping diameter	Low pressure	mm (in.)	22.2 (7/8) Brazed
Circulating water	Water flow rate	m^3/h	5.76
		L/min	96
		cfm	3.4
	Pressure drop	kPa	24
	Operating volume range	m^3/h	3.0 ~ 7.2
Compressor	Type		Inverter scroll hermetic compressor
	Starting method		Inverter
	Motor output	kW	6.2
	Case heater	kW	-
	Lubricant		MEL32
External finish			Galvanized steel sheets
External dimension H x W x D		mm	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection
	Compressor		Over-heat protection
Refrigerant	Type x original charge		R410A x 5.0 kg (12 lbs)
	Control		Indoor LEV and BC controller
Net weight		kg (lbs)	173 (382)
Heat exchanger			plate type
	Water volume in plate	l	5.0
	Water pressure Max.	MPa	2.0
HIC circuit (HIC: Heat Inter-Changer)			-
Drawing	External		KL94C183
	Wiring		KE94G420
Standard attachment	Document		Installation Manual
	Accessory		Refrigerant conn. pipe
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 BC controller: CMB-P104, 106, 108, 1012, 1016V-J/CMB-M104, 106, 108, 1012, 1016V-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter	
BTU/h	=kW x 3,412
cfm	$=m^3/min$ x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P300YLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	33.5
(Nominal)	*1	BTU/h	114,300
	Power input	kW	6.04
	Current input	A	10.1-9.6-9.3
	EER	kW/kW	5.54
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)
cooling	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity	*2	kW	37.5
(Nominal)	*2	BTU/h	128,000
	Power input	kW	6.25
	Current input	A	10.5-10.0-9.6
	COP	kW/kW	6.00
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)
heating	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit	Total capacity		50~150% of heat source unit capacity
connectable	Model/Quantity		P10~P250, M20~M140/1~30
Sound pressure level (measured in anechoic room)		dB <A>	54
Sound power level (measured in anechoic room)		dB <A>	68
Refrigerant	High pressure	mm (in.)	19.05 (3/4) Brazed
piping diameter	Low pressure	mm (in.)	22.2 (7/8) Brazed
Circulating water	Water flow rate	m^3/h	5.76
		L/min	96
		cfm	3.4
	Pressure drop	kPa	24
	Operating volume range	m^3/h	3.0 ~ 7.2
Compressor	Type		Inverter scroll hermetic compressor
	Starting method		Inverter
	Motor output	kW	7.7
	Case heater	kW	-
	Lubricant		MEL32
External finish			Galvanized steel sheets
External dimension H x W x D		mm	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection
	Compressor		Over-heat protection
Refrigerant	Type x original charge		R410A x 5.0 kg (12 lbs)
	Control		Indoor LEV and BC controller
Net weight		kg (lbs)	173 (382)
Heat exchanger			plate type
	Water volume in plate	l	5.0
	Water pressure Max.	MPa	2.0
HIC circuit (HIC: Heat Inter-Changer)			-
Drawing	External		KL94C183
	Wiring		KE94G420
Standard attachment	Document		Installation Manual
	Accessory		Refrigerant conn. pipe
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 BC controller: CMB-P104, 106, 108, 1012, 1016V-J/CMB-M104, 106, 108, 1012, 1016V-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter	
BTU/h	=kW x 3,412
cfm	$=m^3/min$ x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P350YLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	40.0
(Nominal)	*1	BTU/h	136,500
	Power input	kW	7.14
	Current input	A	12.0-11.4-11.0
	EER	kW/kW	5.60
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)
cooling	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity	*2	kW	45.0
(Nominal)	*2	BTU/h	153,500
	Power input	kW	7.53
	Current input	A	12.7-12.0-11.6
	COP	kW/kW	5.97
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)
heating	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit	Total capacity		50~150% of heat source unit capacity
connectable	Model/Quantity		P10~P250, M20~M140/1~35
Sound pressure level (measured in anechoic room)		dB <A>	52
Sound power level (measured in anechoic room)		dB <A>	66
Refrigerant	High pressure	mm (in.)	22.2 (7/8) Brazed
piping diameter	Low pressure	mm (in.)	28.58 (1-1/8) Brazed
Circulating water	Water flow rate	m^3/h	7.20
		L/min	120
		cfm	4.2
	Pressure drop	kPa	44
	Operating volume range	m^3/h	4.5 ~ 11.6
Compressor	Type		Inverter scroll hermetic compressor
	Starting method		Inverter
	Motor output	kW	9.5
	Case heater	kW	-
	Lubricant		MEL32
External finish			Galvanized steel sheets
External dimension H x W x D		mm	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection
	Compressor		Over-heat protection
Refrigerant	Type x original charge		R410A x 6.0 kg (14 lbs)
	Control		Indoor LEV and BC controller
Net weight		kg (lbs)	217 (479)
Heat exchanger			plate type
	Water volume in plate	l	5.0
	Water pressure Max.	MPa	2.0
HIC circuit (HIC: Heat Inter-Changer)			-
Drawing	External		KL94C184
	Wiring		KE94G420
Standard attachment	Document		Installation Manual
	Accessory		Refrigerant conn. pipe
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 BC controller: CMB-P104, 106, 108, 1012, 1016V-J/CMB-M104, 106, 108, 1012, 1016V-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter	
BTU/h	=kW x 3,412
cfm	$=m^3/min$ x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P400YLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity *1		kW	45.0
(Nominal) *1		BTU/h	153,500
	Power input	kW	8.03
	Current input	A	13.5-12.8-12.4
	EER	kW/kW	5.60
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)
cooling	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity *2		kW	50.0
(Nominal) *2		BTU/h	170,600
	Power input	kW	8.37
	Current input	A	14.1-13.4-12.9
	COP	kW/kW	5.97
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)
heating	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit	Total capacity		50~150% of heat source unit capacity
connectable	Model/Quantity		P10~P250, M20~M140/1~40
Sound pressure level (measured in anechoic room)		dB <A>	52
Sound power level (measured in anechoic room)		dB <A>	66
Refrigerant	High pressure	mm (in.)	22.2 (7/8) Brazed
piping diameter	Low pressure	mm (in.)	28.58 (1-1/8) Brazed
Circulating water	Water flow rate	m^3/h	7.20
		L/min	120
		cfm	4.2
	Pressure drop	kPa	44
	Operating volume range	m^3/h	4.5 ~ 11.6
Compressor	Type		Inverter scroll hermetic compressor
	Starting method		Inverter
	Motor output	kW	10.7
	Case heater	kW	-
	Lubricant		MEL32
External finish			Galvanized steel sheets
External dimension H x W x D		mm	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection
	Compressor		Over-heat protection
Refrigerant	Type x original charge		R410A x 6.0 kg (14 lbs)
	Control		Indoor LEV and BC controller
Net weight		kg (lbs)	217 (479)
Heat exchanger			plate type
	Water volume in plate	l	5.0
	Water pressure Max.	MPa	2.0
HIC circuit (HIC: Heat Inter-Changer)			-
Drawing	External		KL94C184
	Wiring		KE94G420
Standard attachment	Document		Installation Manual
	Accessory		Refrigerant conn. pipe
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter	
BTU/h	=kW x 3,412
cfm	$=m^3/min$ x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P450YLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	50.0
(Nominal)	*1	BTU/h	170,600
	Power input	kW	9.29
	Current input	A	15.6-14.8-14.3
	EER	kW/kW	5.38
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)
cooling	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity	*2	kW	56.0
(Nominal)	*2	BTU/h	191,100
	Power input	kW	9.79
	Current input	A	16.5-15.7-15.1
	COP	kW/kW	5.72
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)
heating	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit	Total capacity		50~150% of heat source unit capacity
connectable	Model/Quantity		P10~P250, M20~M140/1~45
Sound pressure level (measured in anechoic room)		dB <A>	54
Sound power level (measured in anechoic room)		dB <A>	70
Refrigerant	High pressure	mm (in.)	22.2 (7/8) Brazed
piping diameter	Low pressure	mm (in.)	28.58 (1-1/8) Brazed
Circulating water	Water flow rate	m^3/h	7.20
		L/min	120
		cfm	4.2
	Pressure drop	kPa	44
	Operating volume range	m^3/h	4.5 ~ 11.6
Compressor	Type		Inverter scroll hermetic compressor
	Starting method		Inverter
	Motor output	kW	11.6
	Case heater	kW	-
	Lubricant		MEL32
External finish			Galvanized steel sheets
External dimension H x W x D		mm	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection
	Compressor		Over-heat protection
Refrigerant	Type x original charge		R410A x 6.0 kg (14 lbs)
	Control		Indoor LEV and BC controller
Net weight		kg (lbs)	217 (479)
Heat exchanger			plate type
	Water volume in plate	l	5.0
	Water pressure Max.	MPa	2.0
HIC circuit (HIC: Heat Inter-Changer)			-
Drawing	External		KL94C184
	Wiring		KE94G420
Standard attachment	Document		Installation Manual
	Accessory		Refrigerant conn. pipe
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter	
BTU/h	=kW x 3,412
cfm	$=m^3/min$ x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P500YLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity *1		kW	56.0
(Nominal) *1		BTU/h	191,100
	Power input	kW	11.17
	Current input	A	18.8-17.9-17.2
	EER	kW/kW	5.01
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)
cooling	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity *2		kW	63.0
(Nominal) *2		BTU/h	215,000
	Power input	kW	11.43
	Current input	A	19.2-18.3-17.6
	COP	kW/kW	5.51
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)
heating	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit	Total capacity		50~150% of heat source unit capacity
connectable	Model/Quantity		P10~P250, M20~M140/1~50
Sound pressure level (measured in anechoic room)		dB <A>	54
Sound power level (measured in anechoic room)		dB <A>	70.5
Refrigerant	High pressure	mm (in.)	22.2 (7/8) Brazed
piping diameter	Low pressure	mm (in.)	28.58 (1-1/8) Brazed
Circulating water	Water flow rate	m^3/h	7.20
		L/min	120
		cfm	4.2
	Pressure drop	kPa	44
	Operating volume range	m^3/h	4.5 ~ 11.6
Compressor	Type		Inverter scroll hermetic compressor
	Starting method		Inverter
	Motor output	kW	13.0
	Case heater	kW	-
	Lubricant		MEL32
External finish			Galvanized steel sheets
External dimension H x W x D		mm	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection
	Compressor		Over-heat protection
Refrigerant	Type x original charge		R410A x 6.0 kg (14 lbs)
	Control		Indoor LEV and BC controller
Net weight		kg (lbs)	217 (479)
Heat exchanger			plate type
	Water volume in plate	l	5.0
	Water pressure Max.	MPa	2.0
HIC circuit (HIC: Heat Inter-Changer)			-
Drawing	External		KL94C184
	Wiring		KE94G420
Standard attachment	Document		Installation Manual
	Accessory		Refrigerant conn. pipe
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter	
BTU/h	=kW x 3,412
cfm	$=m^3/min$ x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P550YLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	63.0
(Nominal)	*1	BTU/h	215,000
	Power input	kW	12.54
	Current input	A	21.1-20.1-19.3
	EER	kW/kW	5.02
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)
cooling	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity	*2	kW	69.0
(Nominal)	*2	BTU/h	235,400
	Power input	kW	12.27
	Current input	A	20.7-19.6-18.9
	COP	kW/kW	5.62
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)
heating	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit	Total capacity		50~150% of heat source unit capacity
connectable	Model/Quantity		P10~P250, M20~M140/2~50
Sound pressure level (measured in anechoic room)		dB <A>	56.5
Sound power level (measured in anechoic room)		dB <A>	71.5
Refrigerant	High pressure	mm (in.)	22.2 (7/8) Brazed (28.58 (1-1/8) Brazed for the part that exceeds 65 m)
piping diameter	Low pressure	mm (in.)	28.58 (1-1/8) Brazed
Circulating water	Water flow rate	m^3/h	11.52
		L/min	192
		cfm	6.8
	Pressure drop	kPa	45
	Operating volume range	m^3/h	6.0 ~ 14.4
Compressor	Type		Inverter scroll hermetic compressor
	Starting method		Inverter
	Motor output	kW	15.0
	Case heater	kW	0.045 (240 V)
	Lubricant		MEL32
External finish			Galvanized steel sheets
External dimension H x W x D		mm	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection
	Compressor		Over-heat protection
Refrigerant	Type x original charge		R410A x 11.7 kg (26 lbs)
	Control		Indoor LEV and BC controller
Net weight		kg (lbs)	247 (545)
Heat exchanger			plate type
	Water volume in plate	l	10.0
	Water pressure Max.	MPa	2.0
HIC circuit (HIC: Heat Inter-Changer)			-
Drawing	External		KL94C185
	Wiring		KE94G420
Standard attachment	Document		Installation Manual
	Accessory		Refrigerant conn. pipe
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. When the high pressure piping length is 65 m or less, use 22.2 (7/8) pipe. When the high pressure piping length exceeds 65 m, use 22.2 (7/8) pipe until 65 m, use 28.58 (1-1/8) pipe for the part that exceeds 65 m. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter	
BTU/h	=kW x 3,412
cfm	$=m^3/min$ x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P600YLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity	*1	kW	69.0
(Nominal)	*1	BTU/h	235,400
	Power input	kW	14.49
	Current input	A	24.4-23.2-22.3
	EER	kW/kW	4.76
Temp. range of	Indoor	W.B.	15.0~24.0°C (59~75°F)
cooling	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity	*2	kW	76.5
(Nominal)	*2	BTU/h	261,000
	Power input	kW	14.51
	Current input	A	24.4-23.2-22.4
	COP	kW/kW	5.27
Temp. range of	Indoor	D.B.	15.0~27.0°C (59~81°F)
heating	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit	Total capacity		50~150% of heat source unit capacity
connectable	Model/Quantity		P10~P250, M20~M140/2~50
Sound pressure level (measured in anechoic room)		dB <A>	56.5
Sound power level (measured in anechoic room)		dB <A>	73
Refrigerant	High pressure	mm (in.)	22.2 (7/8) Brazed (28.58 (1-1/8) Brazed for the part that exceeds 65 m)
piping diameter	Low pressure	mm (in.)	34.93 (1-3/8) Brazed
Circulating water	Water flow rate	m^3/h	11.52
		L/min	192
		cfm	6.8
	Pressure drop	kPa	45
	Operating volume range	m^3/h	6.0 ~ 14.4
Compressor	Type		Inverter scroll hermetic compressor
	Starting method		Inverter
	Motor output	kW	16.1
	Case heater	kW	0.045 (240 V)
	Lubricant		MEL32
External finish			Galvanized steel sheets
External dimension H x W x D		mm	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection
	Compressor		Over-heat protection
Refrigerant	Type x original charge		R410A x 11.7 kg (26 lbs)
	Control		Indoor LEV and BC controller
Net weight		kg (lbs)	247 (545)
Heat exchanger			plate type
	Water volume in plate	l	10.0
	Water pressure Max.	MPa	2.0
HIC circuit (HIC: Heat Inter-Changer)			-
Drawing	External		KL94C185
	Wiring		KE94G420
Standard attachment	Document		Installation Manual
	Accessory		Refrigerant conn. pipe
Optional parts			Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. When the high pressure piping length is 65 m or less, use 22.2 (7/8) pipe. When the high pressure piping length exceeds 65 m, use 22.2 (7/8) pipe until 65 m, use 28.58 (1-1/8) pipe for the part that exceeds 65 m. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter	
BTU/h	=kW x 3,412
cfm	$=m^3/min$ x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P400YSLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	45.0
	*1	BTU/h	153,500
	Power input	kW	7.70
	Current input	A	12.9-12.3-11.9
	EER	kW/kW	5.84
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity (Nominal)	*2	kW	50.0
	*2	BTU/h	170,600
	Power input	kW	7.94
	Current input	A	13.4-12.7-12.2
	COP	kW/kW	6.29
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity
	Model/Quantity		P10~P250, M20~M140/1~40
Sound pressure level (measured in anechoic room)		dB <A>	49
Sound power level (measured in anechoic room)		dB <A>	63
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed

Set Model

Model			PQRY-P200YLM-A1	PQRY-P200YLM-A1
Circulating water	Water flow rate	m^3/h	5.76 + 5.76	
		L/min	96 + 96	
		cfm	3.4 + 3.4	
	Pressure drop	kPa	24	24
	Operating volume range	m^3/h	3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	4.8	4.8
	Case heater	kW	-	-
	Lubricant		MEL32	MEL32
External finish			Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		mm	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	173 (382)	173 (382)
Heat exchanger			plate type	plate type
	Water volume in plate	l	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and distributor	High pressure	mm (in.)	15.88 (5/8) Brazed	15.88 (5/8) Brazed
	Low pressure	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
Drawing	External		KL94C239	
	Wiring		KE94G420	KE94G420
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Heat Source Twinning kit: CMY-Q100CBK2 Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1	
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. The heat source twinning kit (low pressure) should be connected to the low pressure side of the heat source unit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).	

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter	
BTU/h	=kW x 3,412
cfm	$=m^3/min$ x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P450YSLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	50.0
	*1	BTU/h	170,600
	Power input	kW	8.78
	Current input	A	14.8-14.0-13.5
	EER	kW/kW	5.69
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity (Nominal)	*2	kW	56.0
	*2	BTU/h	191,100
	Power input	kW	8.97
	Current input	A	15.1-14.3-13.8
	COP	kW/kW	6.24
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity
	Model/Quantity		P10~P250, M20~M140/1~45
Sound pressure level (measured in anechoic room)		dB <A>	50
Sound power level (measured in anechoic room)		dB <A>	64
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed

Set Model

Model			PQRY-P250YLM-A1	PQRY-P200YLM-A1
Circulating water	Water flow rate	m^3/h	5.76 + 5.76	
		L/min	96 + 96	
		cfm	3.4 + 3.4	
	Pressure drop	kPa	24	24
	Operating volume range	m^3/h	3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	6.2	4.8
	Case heater	kW	-	-
	Lubricant		MEL32	MEL32
External finish			Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		mm	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	173 (382)	173 (382)
Heat exchanger			plate type	plate type
	Water volume in plate	l	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and distributor	High pressure	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
	Low pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed
Drawing	External		KL94C239	
	Wiring		KE94G420	KE94G420
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Heat Source Twinning kit: CMY-Q100CBK2 Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1	
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. The heat source twinning kit (low pressure) should be connected to the low pressure side of the heat source unit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).	

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter	
BTU/h	=kW x 3,412
cfm	$=m^3$/min x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P500YSLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	56.0
	*1	BTU/h	191,100
	Power input	kW	10.12
	Current input	A	17.0-16.2-15.6
	EER	kW/kW	5.53
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity (Nominal)	*2	kW	63.0
	*2	BTU/h	215,000
	Power input	kW	10.16
	Current input	A	17.1-16.2-15.7
	COP	kW/kW	6.20
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity
	Model/Quantity		P10~P250, M20~M140/1~50
Sound pressure level (measured in anechoic room)		dB <A>	51
Sound power level (measured in anechoic room)		dB <A>	65
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed

Set Model

Model			PQRY-P250YLM-A1	PQRY-P250YLM-A1
Circulating water	Water flow rate	m^3/h	5.76 + 5.76	
		L/min	96 + 96	
		cfm	3.4 + 3.4	
	Pressure drop	kPa	24	24
	Operating volume range	m^3/h	3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	6.2	6.2
	Case heater	kW	-	-
	Lubricant		MEL32	MEL32
External finish			Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		mm	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	173 (382)	173 (382)
Heat exchanger			plate type	plate type
	Water volume in plate	l	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and distributor	High pressure	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
	Low pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed
Drawing	External		KL94C239	
	Wiring		KE94G420	KE94G420
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Heat Source Twinning kit: CMY-Q100CBK2 Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1	
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. The heat source twinning kit (low pressure) should be connected to the low pressure side of the heat source unit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).	

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter	
BTU/h	=kW x 3,412
cfm	$=m^3$/min x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P550YSLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	63.0
	*1	BTU/h	215,000
	Power input	kW	11.55
	Current input	A	19.4-18.5-17.8
	EER	kW/kW	5.45
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity (Nominal)	*2	kW	69.0
	*2	BTU/h	235,400
	Power input	kW	11.31
	Current input	A	19.0-18.1-17.4
	COP	kW/kW	6.10
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity
	Model/Quantity		P10~P250, M20~M140/2~50
Sound pressure level (measured in anechoic room)		dB <A>	55
Sound power level (measured in anechoic room)		dB <A>	69
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed (28.58 (1-1/8) Brazed for the part that exceeds 65 m)
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed

Set Model

Model			PQRY-P300YLM-A1	PQRY-P250YLM-A1
Circulating water	Water flow rate	m^3/h	5.76 + 5.76	
		L/min	96 + 96	
		cfm	3.4 + 3.4	
	Pressure drop	kPa	24	24
	Operating volume range	m^3/h	3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	7.7	6.2
	Case heater	kW	-	-
	Lubricant		MEL32	MEL32
External finish			Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		mm	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	173 (382)	173 (382)
Heat exchanger			plate type	plate type
	Water volume in plate	l	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and distributor	High pressure	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
	Low pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed
Drawing	External		KL94C239	
	Wiring		KE94G420	KE94G420
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Heat Source Twinning kit: CMY-Q100CBK2 Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1	
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. The heat source twinning kit (low pressure) should be connected to the low pressure side of the heat source unit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. When the high pressure piping length is 65 m or less, use 22.2 (7/8) pipe. When the high pressure piping length exceeds 65 m, use 22.2 (7/8) pipe until 65 m, use 28.58 (1-1/8) pipe for the part that exceeds 65 m. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).	

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter	
BTU/h	=kW x 3,412
cfm	$=m^3/min$ x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P600YSLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	69.0
	*1	BTU/h	235,400
	Power input	kW	12.84
	Current input	A	21.6-20.5-19.8
	EER	kW/kW	5.37
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity (Nominal)	*2	kW	76.5
	*2	BTU/h	261,000
	Power input	kW	12.75
	Current input	A	21.5-20.4-19.7
	COP	kW/kW	6.00
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity
	Model/Quantity		P10~P250, M20~M140/2~50
Sound pressure level (measured in anechoic room)		dB <A>	57
Sound power level (measured in anechoic room)		dB <A>	71
Refrigerant piping diameter	High pressure	mm (in.)	22.2 (7/8) Brazed (28.58 (1-1/8) Brazed for the part that exceeds 65 m)
	Low pressure	mm (in.)	34.93 (1-3/8) Brazed

Set Model

Model			PQRY-P300YLM-A1	PQRY-P300YLM-A1
Circulating water	Water flow rate	m^3/h	5.76 + 5.76	
		L/min	96 + 96	
		cfm	3.4 + 3.4	
	Pressure drop	kPa	24	24
	Operating volume range	m^3/h	3.0 + 3.0 ~ 7.2 + 7.2	
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	7.7	7.7
	Case heater	kW	-	-
	Lubricant		MEL32	MEL32
External finish			Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		mm	1,100 x 880 x 550	1,100 x 880 x 550
		in.	43-5/16 x 34-11/16 x 21-11/16	43-5/16 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 5.0 kg (12 lbs)	R410A x 5.0 kg (12 lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	173 (382)	173 (382)
Heat exchanger			plate type	plate type
	Water volume in plate	l	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and distributor	High pressure	mm (in.)	19.05 (3/4) Brazed	19.05 (3/4) Brazed
	Low pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed
Drawing	External		KL94C239	
	Wiring		KE94G420	KE94G420
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Heat Source Twinning kit: CMY-Q100CBK2 Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1	
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. The heat source twinning kit (low pressure) should be connected to the low pressure side of the heat source unit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. When the high pressure piping length is 65 m or less, use 22.2 (7/8) pipe. When the high pressure piping length exceeds 65 m, use 22.2 (7/8) pipe until 65 m, use 28.58 (1-1/8) pipe for the part that exceeds 65 m. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).	

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter	
BTU/h	=kW x 3,412
cfm	$=m^3/min$ x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P700YSLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	80.0
	*1	BTU/h	273,000
	Power input	kW	14.73
	Current input	A	24.8-23.6-22.7
	EER	kW/kW	5.43
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity (Nominal)	*2	kW	88.0
	*2	BTU/h	300,300
	Power input	kW	14.73
	Current input	A	24.8-23.6-22.7
	COP	kW/kW	5.97
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity
	Model/Quantity		P10~P250, M20~M140/2~50
Sound pressure level (measured in anechoic room)		dB <A>	55
Sound power level (measured in anechoic room)		dB <A>	69
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed
	Low pressure	mm (in.)	34.93 (1-3/8) Brazed

Set Model

Model			PQRY-P350YLM-A1	PQRY-P350YLM-A1
Circulating water	Water flow rate	m^3/h	7.20 + 7.20	
		L/min	120 + 120	
		cfm	4.2 + 4.2	
	Pressure drop	kPa	44	44
	Operating volume range	m^3/h	4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	9.5	9.5
	Case heater	kW	-	-
	Lubricant		MEL32	MEL32
External finish			Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		mm	1,450 x 880 x 550	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	217 (479)	217 (479)
Heat exchanger			plate type	plate type
	Water volume in plate	l	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and distributor	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Drawing	External		KL94C240	
	Wiring		KE94G420	KE94G420
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Heat Source Twinning kit: CMY-Q200CBK Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1	
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. The heat source twinning kit (low pressure) should be connected to the low pressure side of the heat source unit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).	

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter

BTU/h	=kW x 3,412
cfm	$=m^3$/min x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P750YSLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	85.0
	*1	BTU/h	290,000
	Power input	kW	15.64
	Current input	A	26.4-25.0-24.1
	EER	kW/kW	5.43
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity (Nominal)	*2	kW	95.0
	*2	BTU/h	324,100
	Power input	kW	15.90
	Current input	A	26.8-25.4-24.5
	COP	kW/kW	5.97
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity
	Model/Quantity		P10~P250, M20~M140/2~50
Sound pressure level (measured in anechoic room)		dB <A>	55
Sound power level (measured in anechoic room)		dB <A>	69
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed
	Low pressure	mm (in.)	34.93 (1-3/8) Brazed

Set Model

Model			PQRY-P400YLM-A1	PQRY-P350YLM-A1
Circulating water	Water flow rate	m^3/h	7.20 + 7.20	
		L/min	120 + 120	
		cfm	4.2 + 4.2	
	Pressure drop	kPa	44	44
	Operating volume range	m^3/h	4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	10.7	9.5
	Case heater	kW	-	-
	Lubricant		MEL32	MEL32
External finish			Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		mm	1,450 x 880 x 550	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	217 (479)	217 (479)
Heat exchanger			plate type	plate type
	Water volume in plate	l	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and distributor	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Drawing	External		KL94C240	
	Wiring		KE94G420	KE94G420
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Heat Source Twinning kit: CMY-Q200CBK Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1	
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. The heat source twinning kit (low pressure) should be connected to the low pressure side of the heat source unit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).	

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter	
BTU/h	=kW x 3,412
cfm	=m^3/min x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P800YSLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	90.0
	*1	BTU/h	307,100
	Power input	kW	16.57
	Current input	A	27.9-26.5-25.6
	EER	kW/kW	5.43
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity (Nominal)	*2	kW	100.0
	*2	BTU/h	341,200
	Power input	kW	16.75
	Current input	A	28.2-26.8-25.8
	COP	kW/kW	5.97
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity
	Model/Quantity		P10~P250, M20~M140/2~50
Sound pressure level (measured in anechoic room)		dB <A>	55
Sound power level (measured in anechoic room)		dB <A>	69
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed
	Low pressure	mm (in.)	34.93 (1-3/8) Brazed

Set Model

Model			PQRY-P400YLM-A1	PQRY-P400YLM-A1
Circulating water	Water flow rate	m^3/h	7.20 + 7.20	
		L/min	120 + 120	
		cfm	4.2 + 4.2	
	Pressure drop	kPa	44	44
	Operating volume range	m^3/h	4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	10.7	10.7
	Case heater	kW	-	-
	Lubricant		MEL32	MEL32
External finish			Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		mm	1,450 x 880 x 550	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	217 (479)	217 (479)
Heat exchanger			plate type	plate type
	Water volume in plate	l	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and distributor	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Drawing	External		KL94C240	
	Wiring		KE94G420	KE94G420
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Heat Source Twinning kit: CMY-Q200CBK Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1	
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. The heat source twinning kit (low pressure) should be connected to the low pressure side of the heat source unit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).	

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter

BTU/h	=kW x 3,412
cfm	$=m^3$/min x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P850YSLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	96.0
	*1	BTU/h	327,600
	Power input	kW	18.03
	Current input	A	30.4-28.9-27.8
	EER	kW/kW	5.32
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity (Nominal)	*2	kW	108.0
	*2	BTU/h	368,500
	Power input	kW	18.49
	Current input	A	31.2-29.6-28.5
	COP	kW/kW	5.84
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity
	Model/Quantity		P10~P250, M20~M140/2~50
Sound pressure level (measured in anechoic room)		dB <A>	56
Sound power level (measured in anechoic room)		dB <A>	71.5
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed
	Low pressure	mm (in.)	41.28 (1-5/8) Brazed

Set Model

Model			PQRY-P450YLM-A1	PQRY-P400YLM-A1
Circulating water	Water flow rate	m^3/h	7.20 + 7.20	
		L/min	120 + 120	
		cfm	4.2 + 4.2	
	Pressure drop	kPa	44	44
	Operating volume range	m^3/h	4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	11.6	10.7
	Case heater	kW	-	-
	Lubricant		MEL32	MEL32
External finish			Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		mm	1,450 x 880 x 550	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	217 (479)	217 (479)
Heat exchanger			plate type	plate type
	Water volume in plate	l	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and distributor	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Drawing	External		KL94C240	
	Wiring		KE94G420	KE94G420
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Heat Source Twinning kit: CMY-Q200CBK Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1	
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. The heat source twinning kit (low pressure) should be connected to the low pressure side of the heat source unit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).	

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter	
BTU/h	=kW x 3,412
cfm	$=m^3/min$ x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.

Model			PQRY-P900YSLM-A1
Power source			3-phase 4-wire 380-400-415 V 50/60 Hz
Cooling capacity (Nominal)	*1	kW	101.0
	*1	BTU/h	344,600
	Power input	kW	19.38
	Current input	A	32.7-31.0-29.9
	EER	kW/kW	5.21
Temp. range of cooling	Indoor	W.B.	15.0~24.0°C (59~75°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Heating capacity (Nominal)	*2	kW	113.0
	*2	BTU/h	385,600
	Power input	kW	19.74
	Current input	A	33.3-31.6-30.5
	COP	kW/kW	5.72
Temp. range of heating	Indoor	D.B.	15.0~27.0°C (59~81°F)
	Inlet water	°C	10.0~45.0°C (50~113°F)
Indoor unit connectable	Total capacity		50~150% of heat source unit capacity
	Model/Quantity		P10~P250, M20~M140/2~50
Sound pressure level (measured in anechoic room)		dB <A>	57
Sound power level (measured in anechoic room)		dB <A>	73
Refrigerant piping diameter	High pressure	mm (in.)	28.58 (1-1/8) Brazed
	Low pressure	mm (in.)	41.28 (1-5/8) Brazed

Set Model

Model			PQRY-P450YLM-A1	PQRY-P450YLM-A1
Circulating water	Water flow rate	m^3/h	7.20 + 7.20	
		L/min	120 + 120	
		cfm	4.2 + 4.2	
	Pressure drop	kPa	44	44
	Operating volume range	m^3/h	4.5 + 4.5 ~ 11.6 + 11.6	
Compressor	Type		Inverter scroll hermetic compressor	Inverter scroll hermetic compressor
	Starting method		Inverter	Inverter
	Motor output	kW	11.6	11.6
	Case heater	kW	-	-
	Lubricant		MEL32	MEL32
External finish			Galvanized steel sheets	Galvanized steel sheets
External dimension H x W x D		mm	1,450 x 880 x 550	1,450 x 880 x 550
		in.	57-1/8 x 34-11/16 x 21-11/16	57-1/8 x 34-11/16 x 21-11/16
Protection devices	High pressure protection		High pressure sensor, High pressure switch at 4.15 MPa (601 psi)	High pressure sensor, High pressure switch at 4.15 MPa (601 psi)
	Inverter circuit (COMP.)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
	Compressor		Over-heat protection	Over-heat protection
Refrigerant	Type x original charge		R410A x 6.0 kg (14 lbs)	R410A x 6.0 kg (14 lbs)
	Control		Indoor LEV and BC controller	
Net weight		kg (lbs)	217 (479)	217 (479)
Heat exchanger			plate type	plate type
	Water volume in plate	l	5.0	5.0
	Water pressure Max.	MPa	2.0	2.0
HIC circuit (HIC: Heat Inter-Changer)			-	-
Pipe between unit and distributor	High pressure	mm (in.)	22.2 (7/8) Brazed	22.2 (7/8) Brazed
	Low pressure	mm (in.)	28.58 (1-1/8) Brazed	28.58 (1-1/8) Brazed
Drawing	External		KL94C240	
	Wiring		KE94G420	KE94G420
Standard attachment	Document		Installation Manual	
	Accessory		Refrigerant conn. pipe	
Optional parts			Heat Source Twinning kit: CMY-Q200CBK Joint: CMY-Y102SS/LS-G2, CMY-R160-J1 Main BC controller: CMB-P108, 1012, 1016V-JA/CMB-P1016V-KA/CMB-M108, 1012, 1016V-JA1/CMB-P1016V-KA1 Sub BC controller: CMB-P104, 108V-KB/CMB-M104, 108V-KB1	
Remarks			Details on foundation work, duct work, insulation work, electrical wiring, power source switch, and other items shall be referred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice. The ambient temperature of the heat source unit needs to be kept below 40°C D.B. The ambient relative humidity of the heat source unit needs to be kept below 80%. The heat source unit should not be installed at outdoor. Be sure to mount a strainer (more than 50 meshes) at the water inlet piping of the unit. Be sure to provide interlocking for the unit operation and water circuit. The heat source twinning kit (low pressure) should be connected to the low pressure side of the heat source unit. Install the supplied insulation material to the unused drain-socket. When installing insulation material around both water and refrigerant piping, follow the installation manual. The cooling tower and the water circuit must be a closed circuit (water is not exposed to the atmosphere).	

Notes:

1.Nominal cooling conditions (subject to JIS B8615-2)
Indoor: 27°CD.B./19°CW.B. (81°FD.B./66°FW.B.), Inlet water temperature: 30°C (86°F)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)
2.Nominal heating conditions (subject to JIS B8615-2)
Indoor: 20°CD.B. (68°FD.B.), Inlet water temperature: 20°C (68°FD.B.)
Pipe length: 7.5 m (24-9/16 ft.), Level difference: 0 m (0 ft.)

Unit converter

BTU/h	=kW x 3,412
cfm	$=m^3$/min x 35.31
lbs	=kg/0.4536

*Above specification data is subject to rounding variation.