

Job Name:	Location:
Schedule Reference:	Submitted By:
Submitted To:	Reference: Approval: Construction:
Engineer:	Date: Application:
	

Specifications:							
Indoor Model			Non-Ducted		Ducted		
Power source			3-phase 3-wire 575V ±10% 60 Hz				
Cooling capacity			BTU/h		288,000		
(Nominal)	(575)	Power input	kW		84.4		
		Current input	A		20.42		
					22.7		
	(Rated)		BTU/h		276,000		
			kW		80.9		
		Power input	kW		20.11	22.67	
(575)	Current input	A		22.4	25.2		
Temp. range of cooling		Indoor	D.B.		59 ~ 75°F (15 ~ 24°C)		
		Outdoor	°F		50 ~ 113°F (10 ~ 45°C)		
Heating capacity			BTU/h		323,000		
(Nominal)	(575)	Power input	kW		94.7		
		Current input	A		17.5		
					19.5		
	(Rated)		BTU/h		304,000		
			kW		89.1		
		Power input	kW		15.48	15.36	
(575)	Current input	A		17.2	17.1		
Temp. range of heating		Indoor	D.B.		59 ~ 81°F (15 ~ 27°C)		
		Outdoor	°F		50 ~ 113°F (10 ~ 45°C)		
Indoor unit connectable			Total capacity			50 ~ 130% of heatsource unit capacity	
			Model / Quantity			P04 ~ P96 / 2 ~ 50	
Sound power level			(measured in anechoic room) *3		dB <A>		71.0
Refrigerant			Liquid pipe		in. (mm)		3/4 (19.05) Brazed
piping diameter			Gas pipe		in. (mm)		1-3/8 (34.93) Brazed
AHRI Ratings		EER			11.40 / 13.20		
(Ducted / Non-Ducted)		IEER			17.10 / 18.70		
		COP @ 68°F			4.92 / 5.38		

Set Model						
Model		PQHY-P144ZLMU-B		PQHY-P144ZLMU-B		
Minimum Circuit Ampacity		A	15	15		
Maximum Overcurrent Protection		A	25	25		
Circulating water	Water flow rate	G/h	1,902 + 1,902			
		G/min	31.7 + 31.7			
		m³/h	7.20 + 7.20			
		L/min	120 + 120			
		cfm	4.2 + 4.2			
	Pressure drop	psi	6.38	6.38		
		kPa	44	44		
	Operating volume range	G/h	1,189 + 1,189 ~ 3,054 + 3,054			
		G/min	19.8 + 19.8 ~ 50.9 + 50.9			
m³/h		4.5 + 4.5 ~ 11.6 + 11.6				
Compressor	Type x Quantity		Inverter scroll hermetic compressor x1		Inverter scroll hermetic compressor x1	
	Starting method		Inverter		Inverter	
	Motor output	kW	9.5	9.5		
	Case heater	kW	0.045	0.045		
	Lubricant		MEL32	MEL32		
External finish		Galvanized steel sheets		Galvanized steel sheets		
External dimension H x W x D		in. (mm)	57-1/8 x 34-11/16 (1,450 x 880 x 550)	57-1/8 x 34-11/16 (1,450 x 880 x 550)		
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		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 13 lbs + 4 oz (6.0 kg)		R410A x 13 lbs + 4 oz (6.0 kg)	
	Control		LEV and HIC circuit		LEV and HIC circuit	
			499 (226)		499 (226)	
Net weight		lbs (kg)				
Heat Exchanger		plate type		plate type		
		Water volume in plate	G	1.22	1.22	
			I	4.6	4.6	
			psi	290	290	
		Water pressure Max.	Mpa	2.0	2.0	
HIC circuit (HIC: Heat Inter-Changer)		Copper pipe, tube-in-tube structure		Copper pipe, tube-in-tube structure		
Pipe between unit and distributor	Liquid pipe	in. (mm)	1/2 (12.7) Brazed	1/2 (12.7) Brazed		
	Gas pipe	in. (mm)	1-1/8 (28.58) Brazed	1-1/8 (28.58) Brazed		
Optional parts		Heat Source Twinning kit: CMY-Y200CBK2				
		Joint: CMY-Y102SS-G2, CMY-Y102LS-G2, CMY-Y202S-G2, CMY-Y302S-G2				
		Header: CMY-Y104, 108, 1010C-G				
Compressor Operating Range		22.2% to 100%		22.2% to 100%		

Remarks - The ambient temperature of the Heat Source Unit needs to be kept below 104°F D.B. (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 (Test conditions are based on AHRI 1230) Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)
- 2.Nominal Heating conditions (Test conditions are based on AHRI 1230) Indoor: 68°F D.B. (20°C D.B.), Inlet water temperature: 68°F (20°C)
- 3.The sound values are sound power level (PWL) based on ISO 3744:2010 (r=3.5m). Test conditions: Indoor: 81°F D.B./66°F W.B. (27°C D.B./19°C W.B.), Inlet water temperature: 86°F (30°C)
- 4.All electrical work shall comply with National (CEC) and local codes and regulations.
- 5.Mitsubishi Electric Sales Canada Inc. (MESCA) supports the use of only MESCA supplied and approved components and accessories for proper functioning of the unit(s).
- 6.Mitsubishi Electric Sales Canada Inc. (MESCA) supports the use of only MESCA supplied and approved Snow Guard / Wind Deflectors / Windscreens and accessories for proper functioning of the unit(s).
- Use of non-MESCA supported Snow Guard / Wind Deflectors / Windscreens and accessories will affect warranty coverage.
- 7.Should any person change this document in any manner whatsoever without MESCA's written permission, the document shall be of no force and effect and any change shall be deemed to be a representation and warranty made by that person and not MESCA. That person, and not MESCA, shall assume full responsibility for the consequences of such changes.

MESCA assumes no responsibility for any consequences in such cases.

Condenser Unit Outline and Dimensions:

- Accessories (Packaged in the accessory kit) >
- Refrigerant (Liquid) conn. pipe 1pc.
- Refrigerant (Gas) conn. elbow 1pc.
- Water stopper (Liquid,Gas) 1pc. each
- Sealing material for water stopper (Liquid,Gas) 1pc. each
- Sealing material for field piping (Liquid,Gas) 1pc. each
- Sealing material for drain socket 1pc.
- Pipe cover for gas 1pc.
- Sealing material for base leg (two types) 4 pcs. each
- Sealing material for panel 1pc.

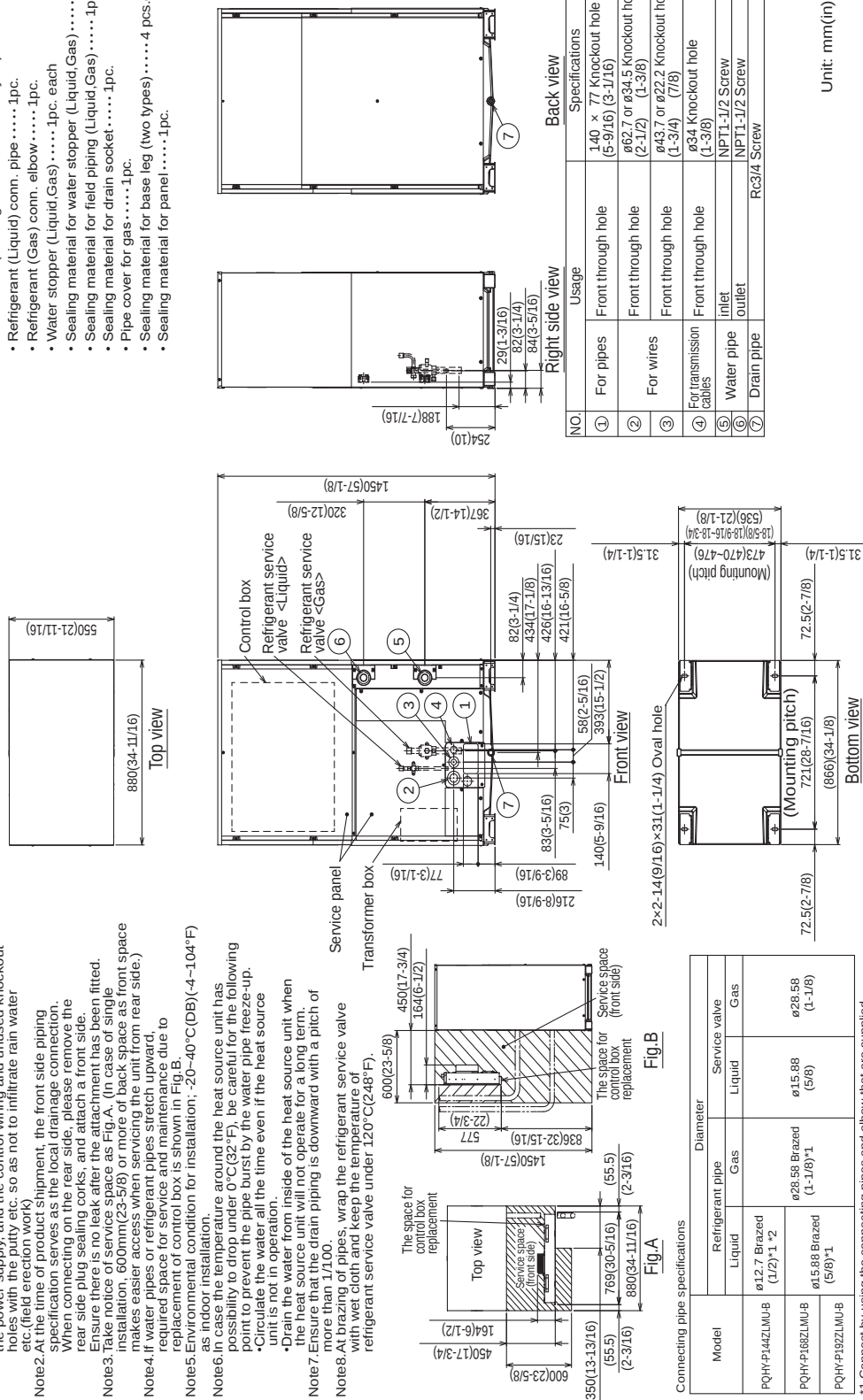


Fig. B

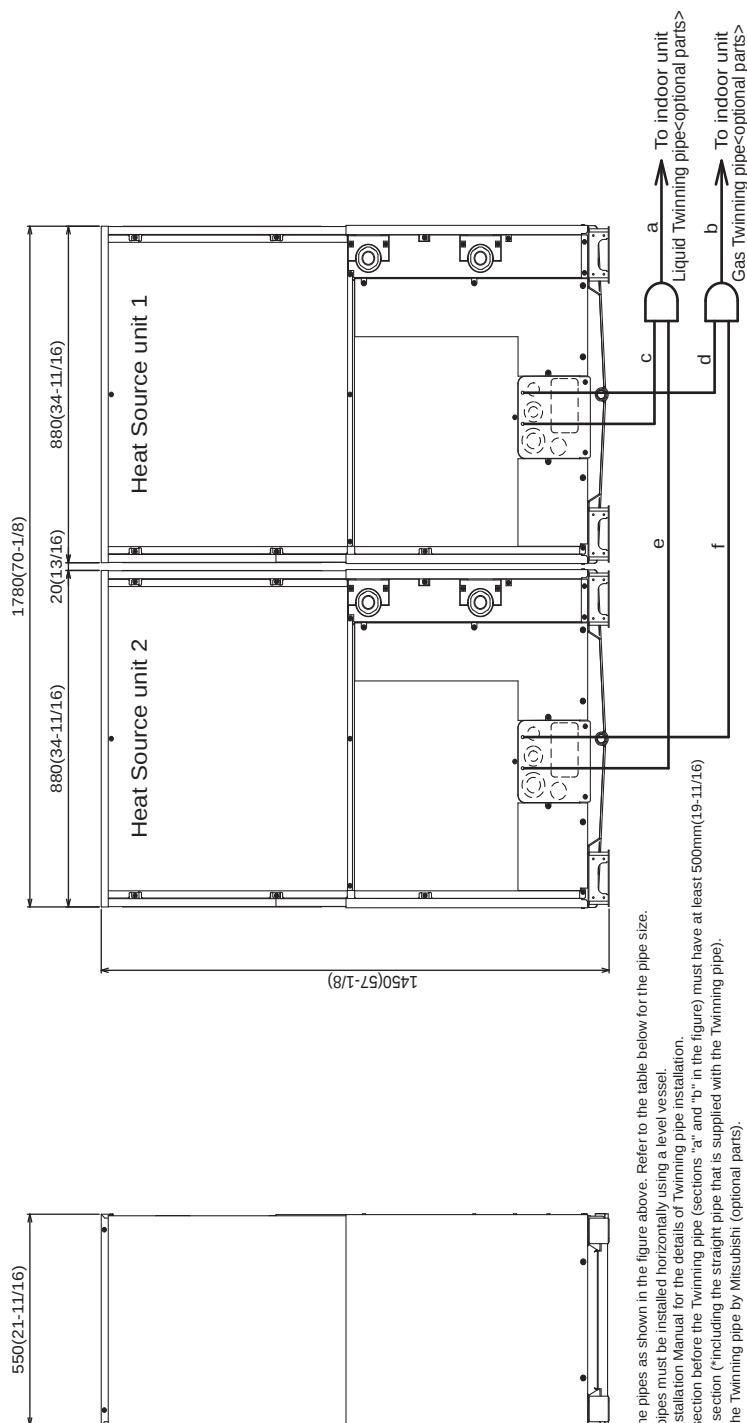
Fig. A

Connecting pipe specifications				
Model	Refrigerant pipe		Diameter	
	Liquid	Gas	Liquid	Service valve
PQH-P14ZLMU-B	ø12.7 Braze (1/2") ^{1/2}			
PQH-P16ZLMU-B	ø15.88 Braze (5/8") ¹	ø28.58 Braze (1-1/8") ¹	ø15.88 (5/8)	ø28.58 (1-1/8)
PQH-P19ZLMU-B				

1. Connect by using the connecting pipes and elbow that are supplied.

2. Use the pipe joint(field supply) and connect to the refrigerant service valve piping.

Condenser Unit Outline and Dimensions:



Unit: mm(in)

- Note 1. Connect the pipes as shown in the figure above. Refer to the table below for the pipe size.
2. Twinning pipes must be installed horizontally using a level vessel.
3. See the Installation Manual for the details of Twinning pipe installation.
4. The pipe section before the "twinning pipe" (sections "a" and "b" in the figure) must have at least 100 mm of straight section (including the straight pipe that is supplied with the "twinning pipe").
5. Only use the "twinning pipe" by Mitsubishi (optional parts).

Twinning pipe connection size

Package	Package unit name	Component unit name	Heat Source unit 1	Heat Source unit 2	QPH-F286Z-SLMU-B	QPH-F312Z-SLMU-B	QPH-F336Z-SLMU-B	QPH-F360Z-SLMU-B
QPH-F286Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.18)		
QPH-F244Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F168Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F144Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		
		Gas	d			ø28.58(1.118)		
QPH-F132Z-SLMU-B	Twinning K1(optional parts)	Liquid	a					
		Gas	b	ø34.93(1.38)				
		Liquid	c	ø12.7(1/2)		ø15.88(5/8)		



CONFORMS TO
ANSI/UL STD. 1995
CERTIFIED TO
CAN/CSA STD.
C22. 2 NO.236