

Air Handler Heat Pump System	
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION		
Dimension (W×D×H)	inch	24-1/2 x 21 x 28
	mm	622 × 533 × 711
Package (W×D×H)	inch	27-3/4 x 26-1/8 x 30-3/8
	mm	705 × 665 × 770
Net/Gross Weight	lbs	81 / 92
	kg	36.8 / 41.9

OUTDOOR SPECIFICATION		
Compressor Type		ROTARY
Compressor Model		KTQ420D1UMU
Refrigerant		R454B
Refrigerant Oil Charge(mL)		1400
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		3,037
Outdoor Noise Level (dBA)		65
Dimension (W×D×H)	inch	38.58 x 16.34 x 38.39
	mm	980×415×975
Package (W×D×H)	inch	45.08 x 19.68 x 42.52
	mm	1,145×500×1,080
Net/Gross Weight	lbs	187.17/218.48
	kg	84.9/99.1

EFFICIENCY			
Cooling		Heating	
SEER2	14.3	HSPF2-4	/
EER2	9.0	COP	/

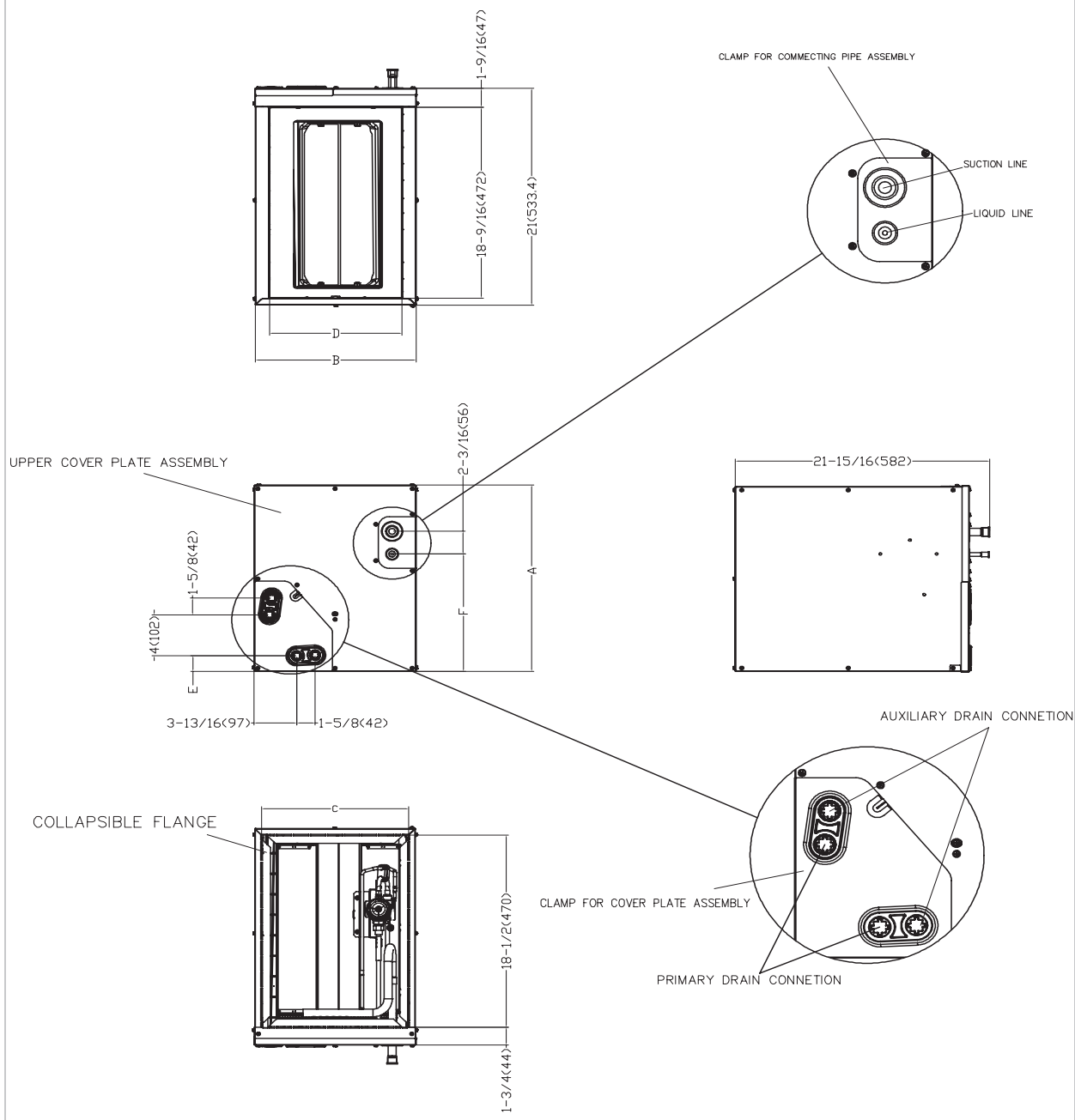
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	46000
Min/Max Capacity	13600~50,000
Moisture Removal(L/h)	6.1
Standard Operating Range(°F/°C)	-13~122(-25~50)
Rated Cooling Conditions:	
Indoor: 80°F DB/67°F WB	
Outdoor: 95°F DB/75°F WB	

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	/
2. @ 47°F Min/Max Capacity	/
3. @ 17°F Rated	/
4. @ 5°F Rated: Capacity / COP	///
5. @ 5°F Max: Capacity	/
Standard Operating Range(°F/°C)	/(/)
1. Rated Heating Conditions:	
Indoor: 70°F DB/60°F WB	
Outdoor: 47°F DB/43°F WB	
2. Rated Heating Conditions:	
Indoor: 70°F DB/60°F WB	
Outdoor: 17°F DB/15°F WB	
3. Heating Conditions, Compressor	
Indoor: 70°F DB/60°F WB	
Operating at Max. Frequency	
Outdoor: 5°F DB/5°F WB	

ELECTRICAL	
Indoor Power Supply	24V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	/
Indoor MOP	/
Outdoor Power Supply	208/230,60Hz,1Ph
Outdoor MCA	36
Outdoor MOP	40
Communication Wiring	AWG 20-2
Compressor RLA	27
Outdoor Fan Motor RLA	2
Outdoor Fan Motor W	/
Indoor Fan Motor RLA	/
Indoor Fan Motor W	/
System Power Input @ Cooling (W)	5111(1300-5700)
System Power Input @ Heating (W)	/(/)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

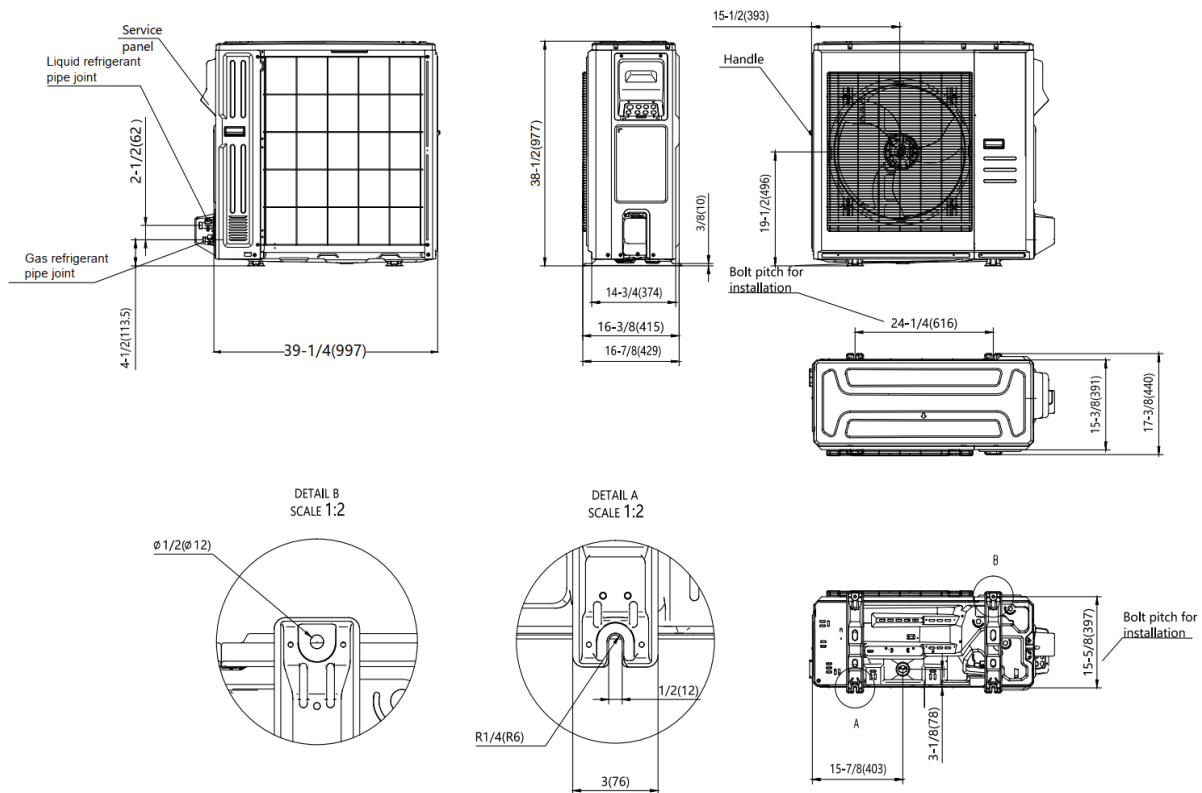
PIPING	
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	/
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	246(75)
Max. Height Difference(ft/m)	98(30)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	141.10(4.00)
Additional Charge of Refrigerant(oz/ft)/(g/m))	0.7(65)
Connection Method	Flared

Indoor Unit Dimension

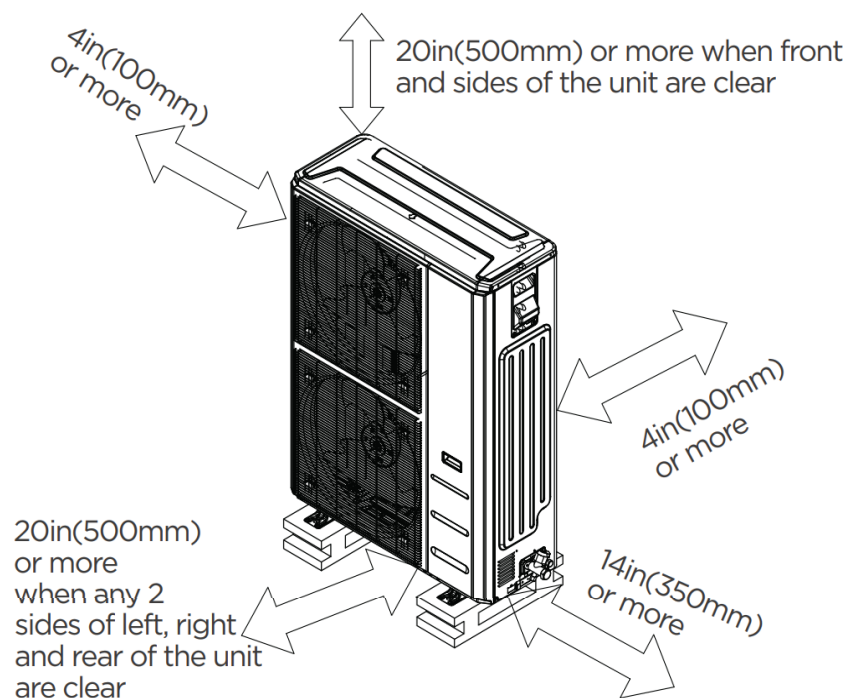


Model/Dimensions		MXP18/24B1A		MXP18/24A1A		MXP24/36A1A		MXP24/36B1A		MXP24/36C1A		MXP48/60C1A		MXP48/60D1A	
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
A	Model Height	18	457	18	457	23-5/16	592	23-9/16	599	24	611	24	611	28	711
B	Model Width	17-1/2	445	14-1/2	368	14-1/2	368	17-1/2	445	21	534	21	534	24-1/2	622
C	Supply Air Opening Width	16-3/16	411	13-1/4	336	13-1/4	336	16-3/16	411	19-3/4	502	19-3/4	502	23-1/4	591
D	Return Air Opening Width	14-5/16	380	11-15/16	303	11-15/16	303	14-15/16	380	19-1/2	498	19-1/2	498	23-1/8	587
E	Condensate Drains Height	1-7/16	1-7/16	1-7/16	38	1-7/16	38	1-7/16	38	2-3/16	55	2-3/16	55	2-3/16	55
F	Liquid Line Height	11-3/8	290	11-3/8	290	17-5-16	455	16-3/8	417	17-1/2	445	17-1/2	445	21-7/16	545

Outdoor Unit Dimension



Installation Instruction For Outdoor Unit



Features

- Multi-position installation: horizontal(left or right), vertical(up or down)
- Aluminum Coil
- R454B refrigerant sensor
- Easy Maintenance
- Multiple control options available:
 - Two way communication wired controller with built-in WiFi:120N(X6W)
 - Third-Party 24V Thermostat

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	mm	622 × 533 × 711
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	mm	705 × 665 × 770
Net/Gross Weight	lbs	81 / 92
	kg	36.8 / 41.9

OUTDOOR SPECIFICATION		
Compressor Type		ROTARY
Compressor Model		KTQ420D1UMU
Refrigerant		R454B
Refrigerant Oil Charge(mL)		1400
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		4,503
Outdoor Noise Level (dBA)		63
Dimension (W×D×H)	inch	37.48 x 16.34 x 52.48
	mm	952×415×1,333
Package (W×D×H)	inch	43.11 x 16.34 x 58.27
	mm	1,095×415×1,480
Net/Gross Weight	lbs	212.30/244.49
	kg	96.3/110.9

EFFICIENCY			
Cooling		Heating	
SEER2	14.8	HSPF2-4	/
EER2	8.7	COP	/

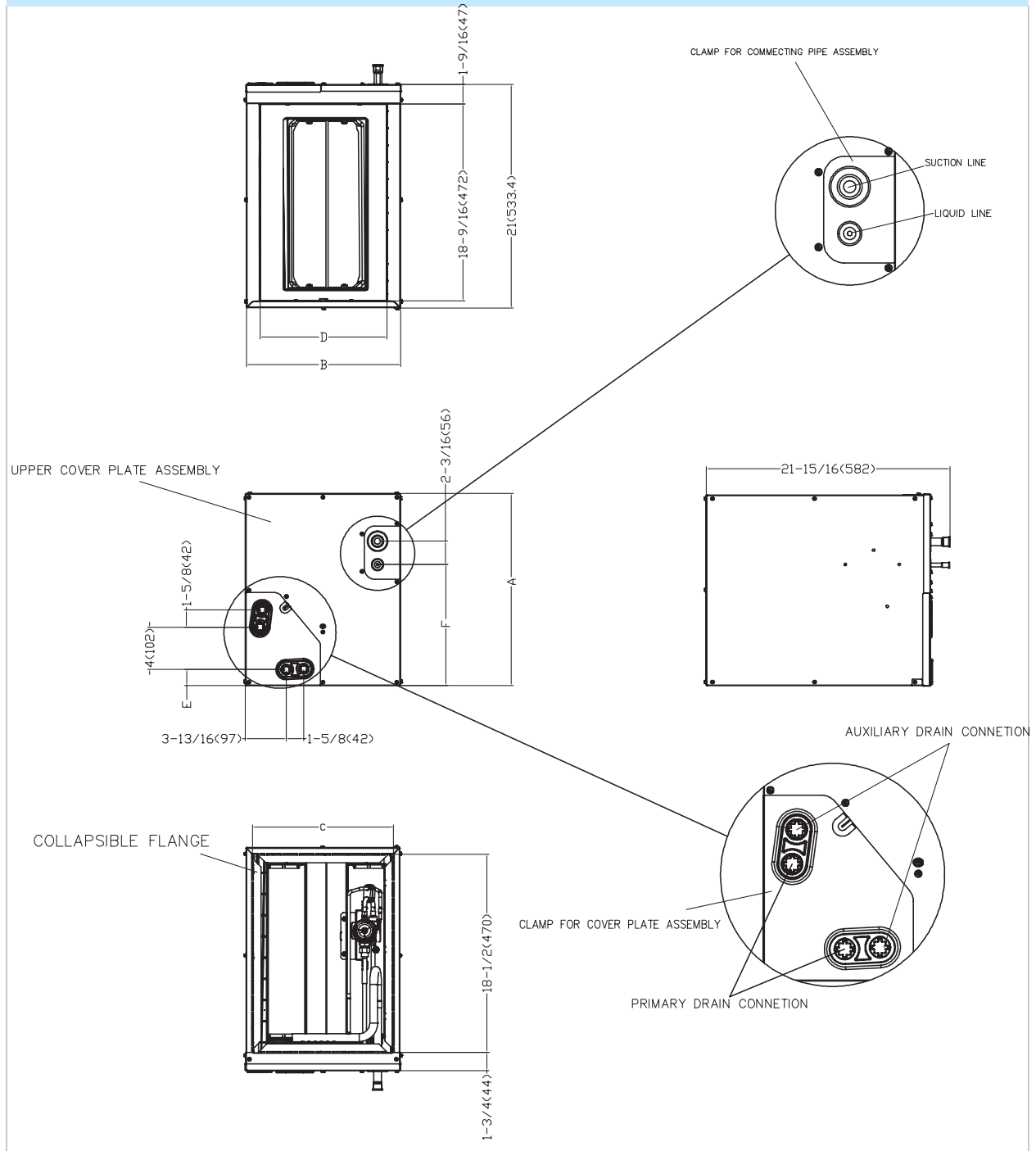
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	54000
Min/Max Capacity	18,000~54,000
Moisture Removal(L/h)	8.5
Standard Operating Range(°F/°C)	-13~122(-25~50)
Rated Cooling Conditions:	
Indoor: 80°F DB/67°F WB	
Outdoor: 95°F DB/75°F WB	

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	/
2. @ 47°F Min/Max Capacity	/
3. @ 17°F Rated	/
4. @ 5°F Rated: Capacity / COP	///
5. @ 5°F Max: Capacity	/
Standard Operating Range(°F/°C)	/(/)
1. Rated Heating Conditions:	
Indoor: 70°F DB/60°F WB	
Outdoor: 47°F DB/43°F WB	
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Outdoor: 17°F DB/15°F WB	
3. Heating Conditions, Compressor	
Indoor: 70°F DB/60°F WB	
Operating at Max. Frequency	
Outdoor: 5°F DB/5°F WB	

ELECTRICAL	
Indoor Power Supply	24V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	/
Indoor MOP	/
Outdoor Power Supply	208/230,60Hz,1Ph
Outdoor MCA	37
Outdoor MOP	40
Communication Wiring	AWG 20-2
Compressor RLA	27.5
Outdoor Fan Motor RLA	2.4
Outdoor Fan Motor W	/
Indoor Fan Motor RLA	/
Indoor Fan Motor W	/
System Power Input @ Cooling (W)	6375(1,580 ~ 6,375)
System Power Input @ Heating (W)	/(/)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

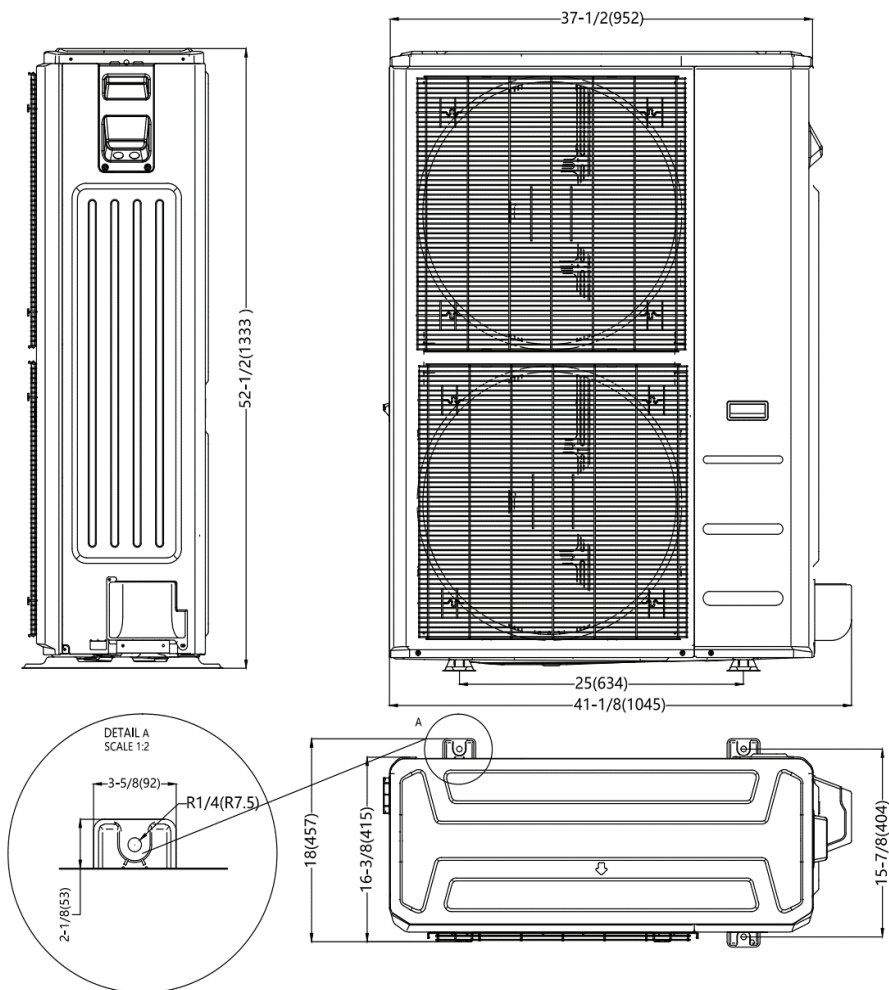
PIPING	
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	/
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	246(75)
Max. Height Difference(ft/m)	98(30)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	169.32(4.80)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.7(65)
Connection Method	Flared

Indoor Unit Dimension

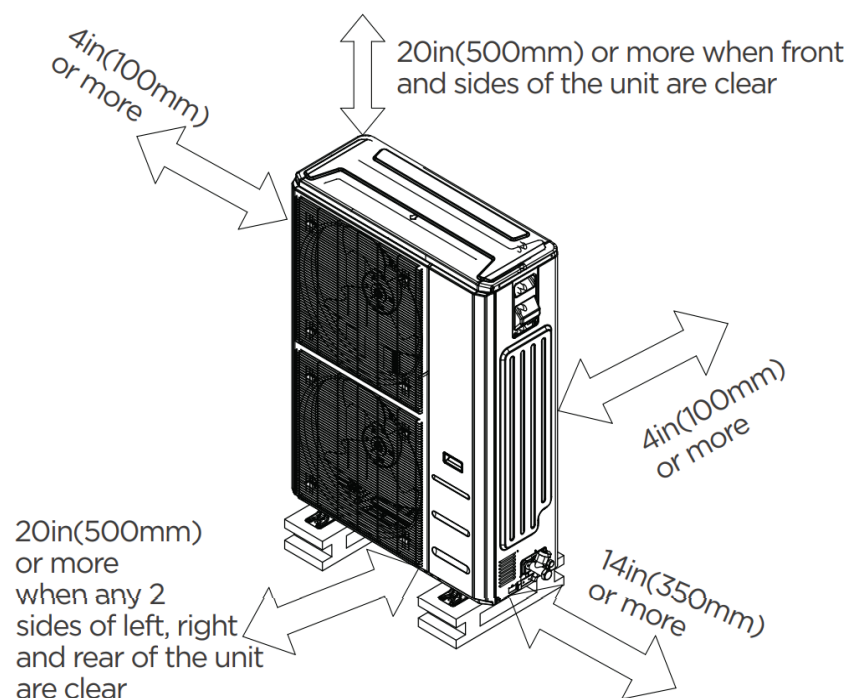


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		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
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Outdoor Unit Dimension



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