

SUBMITTAL DATA SHEET



M4 Heat Pump Floor Ceiling Split System

Outdoor	Indoor	Controls	
			
		Remote Control (Included)	Wired Thermostat (Optional)

Outdoor Key Features	Indoor Key Features
• Eco-Friendly R454B Refrigerant	• Factory installed R454B Leak Sensor
• Advanced Inverter Technology	• Wide Air-Flow Distribution
• Anti-Corrosive Gold-Fin Coating	• Floor or Ceiling Application
• Thin and Compact Design	• 60% Universal Spare Spares for 3 different bodies
• Intelligent Defrosting	• LED Display
• 3 Minutes Restart Delay	• Fresh Air Intake Availability
• Quiet Operation	• 3D Vertical and Horizontal Air Flow
• Heating operation at -13°F (M4) or -22°F (M4+)	• 5 Modes: Auto, Cool, Heat, Dry, Fan
• Auto-Restart	• Slim Design
• Outdoor Reverse Fan operation	• Other Included Modes: Sleep, Timer, Follow Me, Turbo, Eco
• Drain Pan Heater and Compressor Heating Belt	• Large LED remote Control
• *10 Year Warranty	• *10 Year Warranty

Accessories

7 Day Programmable Thermostat Kit


Model	Description
17317100009536	• Direct wiring connection to M4 Series. No adapter needed • Large Display • Wi-Fi compatible with Amazon, Alexa, Google Home, Apple Home • Includes 19.5ft communication cable

24V Mini Adapter


Model	Description
17222000A68532	• Adapts M4 indoors to work with 24V thermostats • Compact Design for easy installation

Dr. Smart Diagnostic Tool


Model	Description
17222000A55927	• Diagnostic tool for SLIM & M4 Series • Real-Time System Communication & Simulations • Easy Navigation with Display • Lightweight with Built-in Magnets

* Warranty subject to terms and conditions. Customer is responsible for remaining up to date on all warranty requirements. Warranty is valid only when all conditions outlined in the official warranty documentation are met. Current warranty details available at <https://innovair.com/warranty/>

SUBMITTAL DATA SHEET



Series Name: M4 Floor & Ceiling Heat Pump
Model Number: MOS18H2BM0A/MFC18H2BHRA

M4 Floor & Ceiling Heat Pump System	
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION		
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		577 / 547 / 486 / 421 /N/A
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		N/A/43/40/32/29
Dimension (W×D×H)	inch	42.05 x 26.57 x 9.25
	mm	1068.0×675.0×235.0
Package (W×D×H)	inch	45.08 x 29.72 x 12.52
	mm	1145×755×318
Net/Gross Weight	lbs	58.42/70.55
	kg	26.5/32.0

OUTDOOR SPECIFICATION		
Compressor Type		ROTARY
Compressor Model		KSN140D58UFZ
Refrigerant		R454B
Refrigerant Oil Charge(mL)		440
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1765.8
Outdoor Noise Level (dBA)		57.0
Dimension (W×D×H)	inch	35.04 x 13.46 x 26.50
	mm	890.0×342.0×673.0
Package (W×D×H)	inch	39.17 x 15.67 x 29.13
	mm	995×398×740
Net/Gross Weight	lbs	92.59/100.31
	kg	42.0/45.5

EFFICIENCY			
Cooling		Heating	
SEER2	22.3	HSPF2-4	10.4
EER2	12.5	COP	3.30

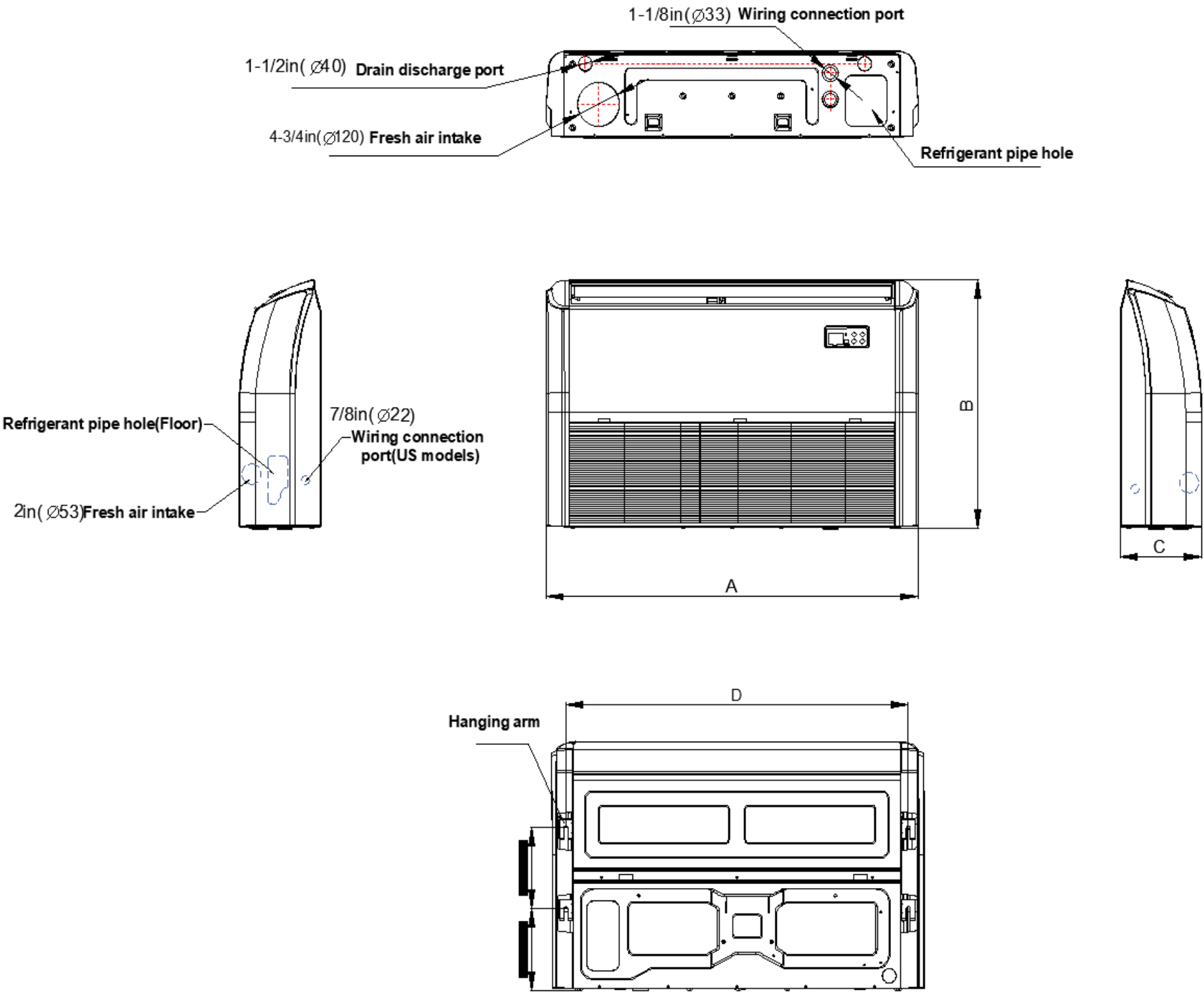
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	18000
Min/Max Capacity	7000~19300
Moisture Removal(L/h)	2.10
Standard Operating Range(°F/°C)	-13~122(-25~50)
Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	18000
1. @ 47°F Min/Max Capacity	7200~22200
2. @ 17°F Rated	13700
3. @ 5°F Rated: Capacity / COP	12800/2.05
3. @ 5°F Max: Capacity	12800
Standard Operating Range(°F/°C)	-13~75(-25~24)
1. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB
2. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 17°F DB/15°F WB
3. Conditions	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

ELECTRICAL	
Power Supply	208/230V,60Hz,1Ph
System MCA	18.00
Connection Wiring	14#x4
System MOCP	20
Compressor RLA	10.0
Outdoor Fan Motor RLA	0.9
Outdoor Fan Motor W	80
Indoor Fan Motor RLA	1.0
Indoor Fan Motor W	96
System Power Input @ Cooling (W)	1440(570 ~ 1680)
System Power Input @ Heating (W)	1599(415 ~1990)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

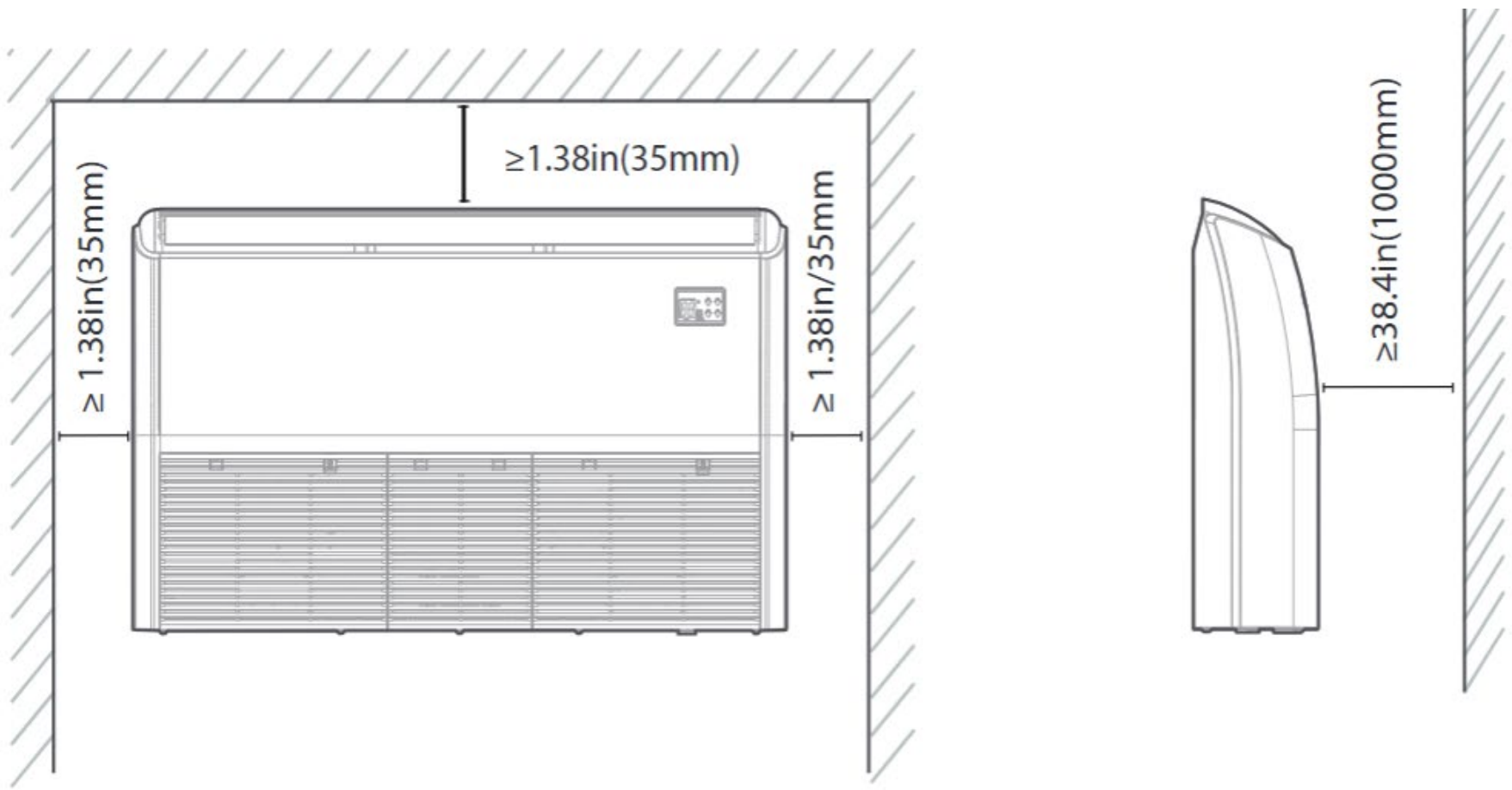
PIPING	
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	6.35mm(1/4in)
Gas Size	12.7mm(1/2in)
Max. Piping Length(ft/m)	98.40(30)
Max. Height Difference(ft/m)	65.60(20)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	47.97(1.36)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.16(15)
Connection Method	Flared

Indoor Unit Dimension

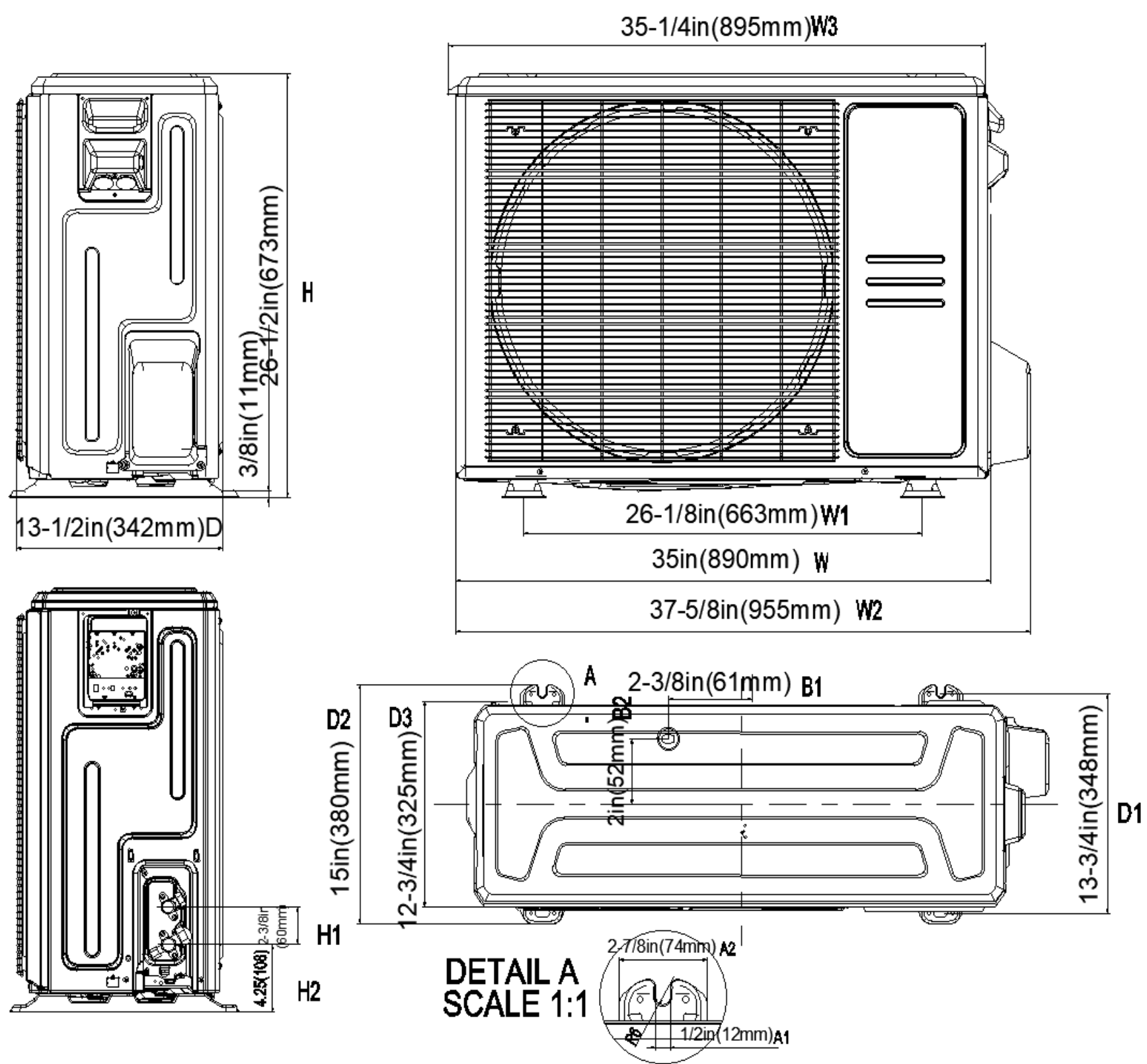


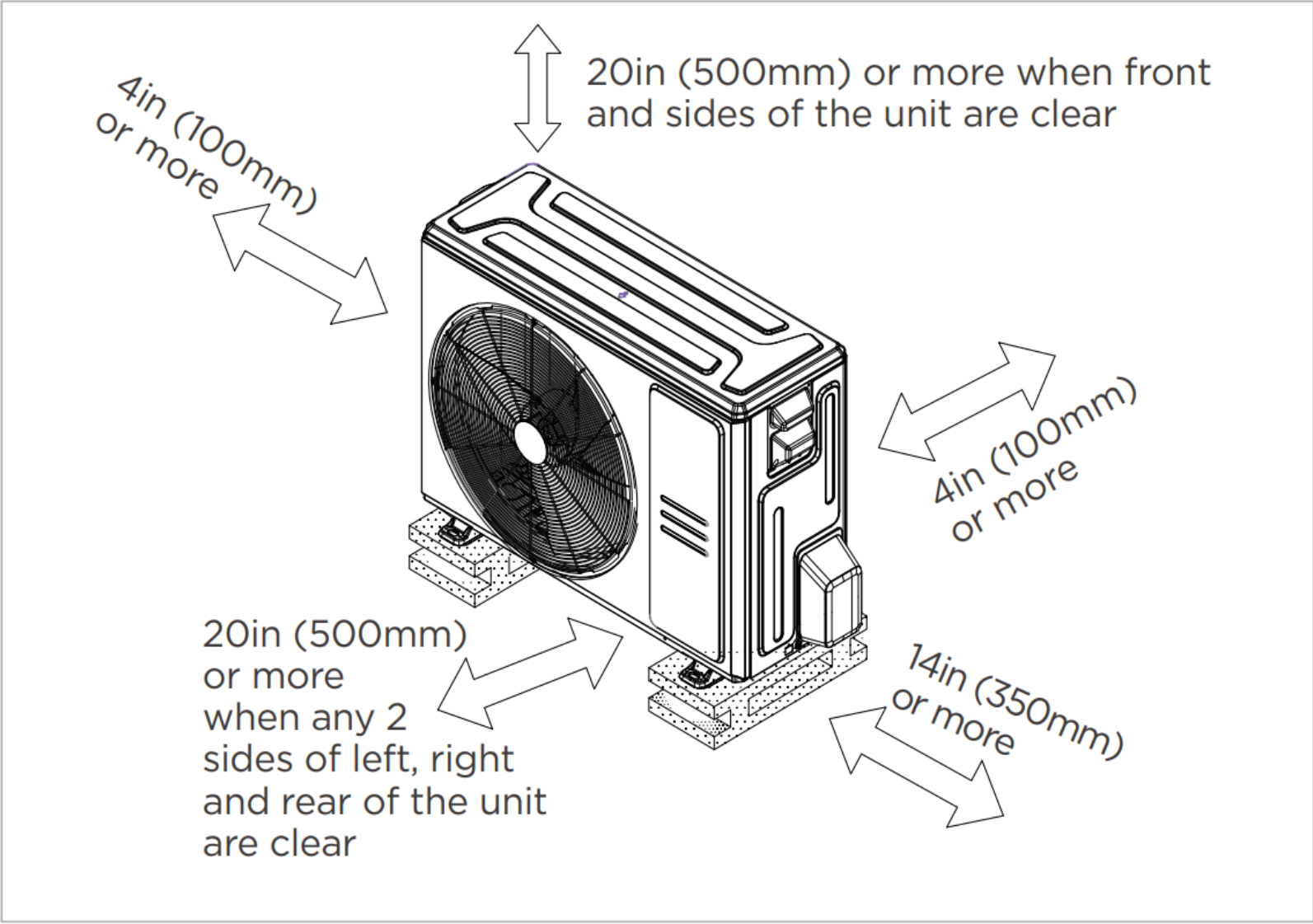
Model	A	B	C	D
18K/24K	42in(1068mm)	26-1/2in(675mm)	9-1/4in(235mm)	38-3/4in(983mm)
36K/48K/60K	65in(1650mm)	26-1/2in(675mm)	9-1/4in(235mm)	61-5/8in(1565mm)

Installation Instruction



Outdoor Unit Dimension





☒ Meets all spatial requirements shown in Installation Clearance Requirements above.

SUBMITTAL DATA SHEET



Series Name: M4 Floor & Ceiling Heat Pump
Model Number: MOS24H2BM0A/MFC24H2BHRBA

M4 Floor & Ceiling Heat Pump System	
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION		
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		736 / 706 / 606 / 453 / 377
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		51/49/45/34/29
Dimension (W×D×H)	inch	42.05 x 26.57 x 9.25
	mm	1068.0×675.0×235.0
Package (W×D×H)	inch	45.08 x 29.72 x 12.52
	mm	1145×755×318
Net/Gross Weight	lbs	61.29/73.19
	kg	27.8/33.2

OUTDOOR SPECIFICATION		
Compressor Type		ROTARY
Compressor Model		KTM240D46UKT2
Refrigerant		R454B
Refrigerant Oil Charge(mL)		620
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		2236.7
Outdoor Noise Level (dBA)		59.0
Dimension (W×D×H)	inch	37.24 x 16.14 x 31.89
	mm	946.0×410.0×810.0
Package (W×D×H)	inch	42.91 x 19.68 x 34.84
	mm	1090×500×885
Net/Gross Weight	lbs	122.13/132.28
	kg	55.4/60.0

EFFICIENCY			
Cooling		Heating	
SEER2	21.1	HSPF2-4	11.1
EER2	12.2	COP	2.99

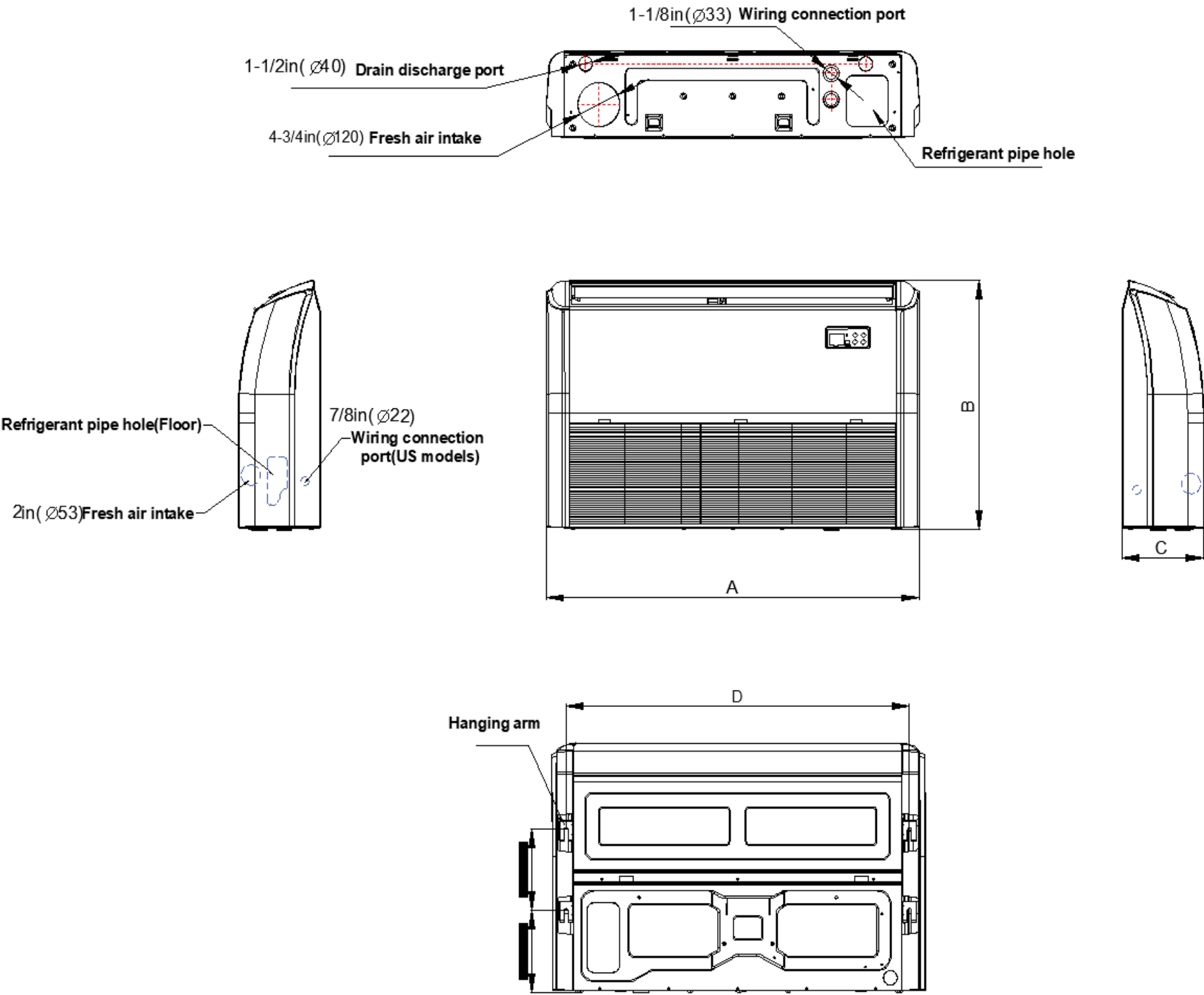
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	24000
Min/Max Capacity	11100~29000
Moisture Removal(L/h)	3.07
Standard Operating Range(°F/°C)	-13~122(-25~50)
Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	24400
1. @ 47°F Min/Max Capacity	11800~32600
2. @ 17°F Rated	20000
3. @ 5°F Rated: Capacity / COP	18600/2.27
3. @ 5°F Max: Capacity	18600
Standard Operating Range(°F/°C)	-13~75(-25~24)
1. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB
2. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 17°F DB/15°F WB
3. Conditions	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

ELECTRICAL	
Power Supply	208/230V,60Hz,1Ph
System MCA	24.00
Connection Wiring	14#x4
System MOCP	25
Compressor RLA	15.4
Outdoor Fan Motor RLA	1.0
Outdoor Fan Motor W	120
Indoor Fan Motor RLA	1.0
Indoor Fan Motor W	96
System Power Input @ Cooling (W)	1967(820 ~ 2610)
System Power Input @ Heating (W)	2385(675 ~2990)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

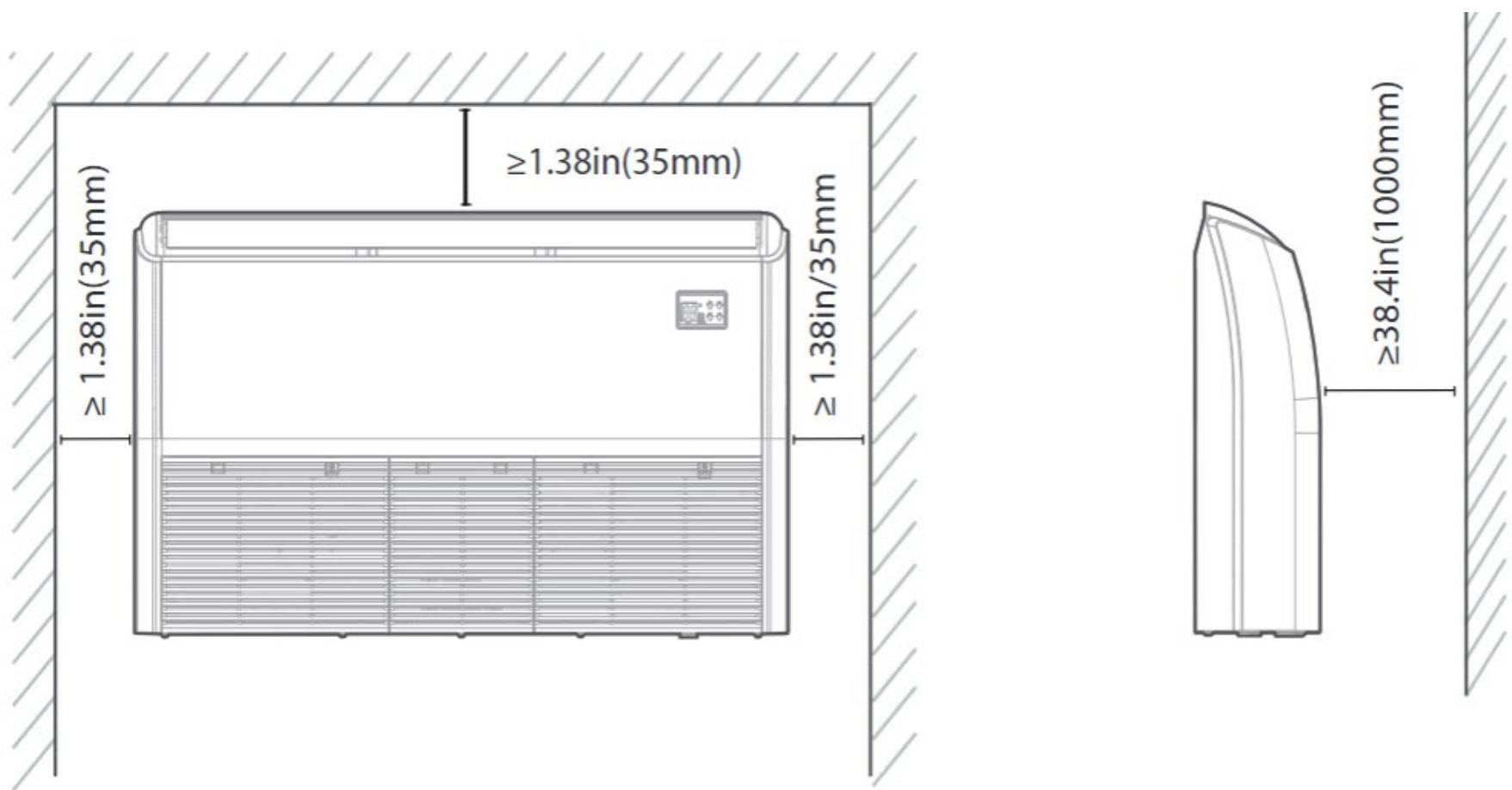
PIPING	
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	9.52mm(3/8in)
Gas Size	15.9mm(5/8in)
Max. Piping Length(ft/m)	164.00(50)
Max. Height Difference(ft/m)	82.00(25)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	70.55(2.00)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.32(30)
Connection Method	Flared

Indoor Unit Dimension

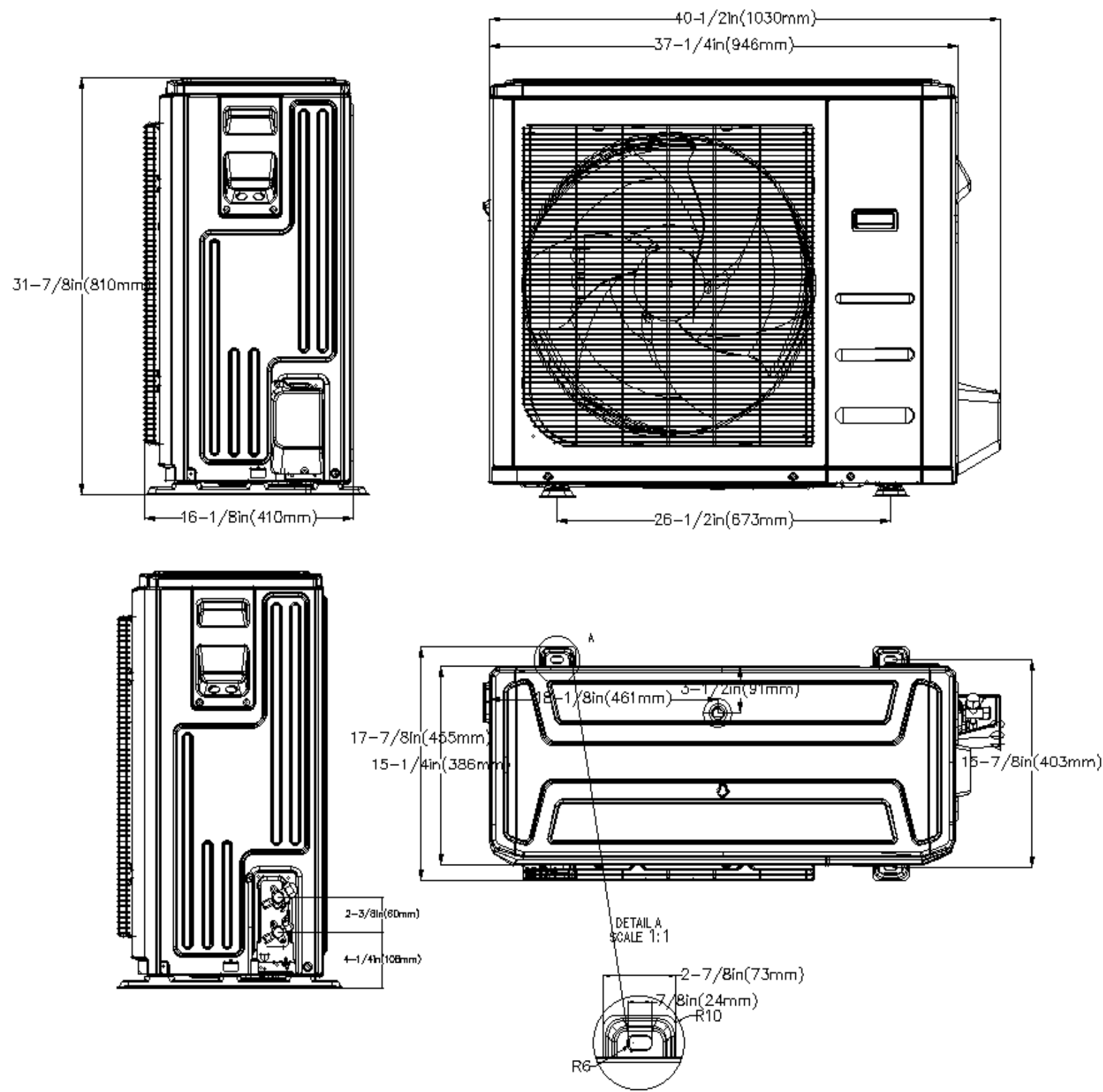


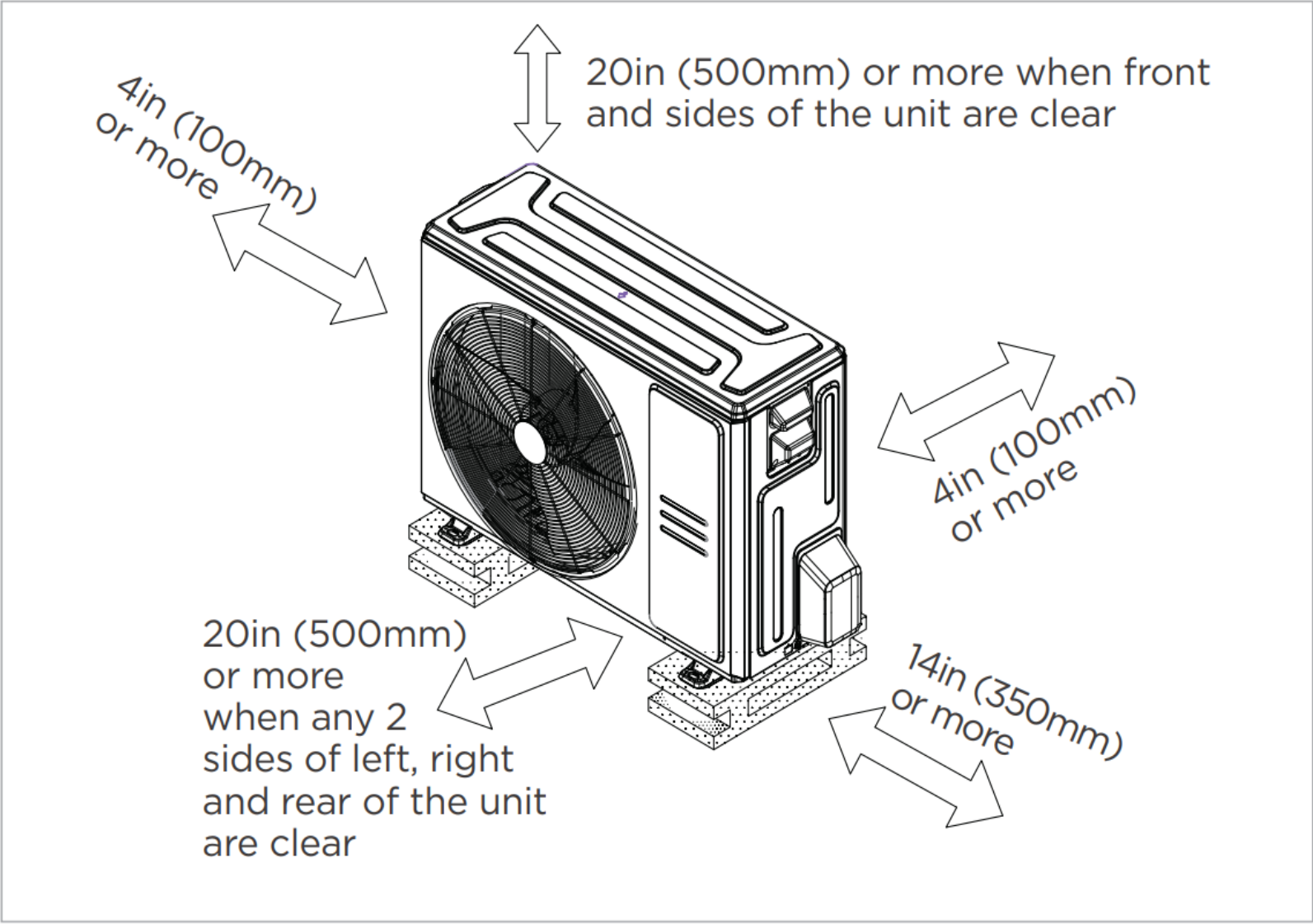
Model	A	B	C	D
18K/24K	42in(1068mm)	26-1/2in(675mm)	9-1/4in(235mm)	38-3/4in(983mm)
36K/48K/60K	65in(1650mm)	26-1/2in(675mm)	9-1/4in(235mm)	61-5/8in(1565mm)

Installation Instruction



Outdoor Unit Dimension





☒ Meets all spatial requirements shown in Installation Clearance Requirements above.

SUBMITTAL DATA SHEET



Series Name: M4 Floor & Ceiling Heat Pump
Model Number: MOS36H2BM0A / MFC36H2BHRA

M4 Floor & Ceiling Heat Pump System	
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION		
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		1224.3 / 1088.9 / 988.8 / 765.2 / 653.3
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		50.5/49.0/44.5/37.0/33.0
Dimension (W×D×H)	inch	64.96 x 26.57 x 9.25
	mm	1650.0×675.0×235.0
Package (W×D×H)	inch	67.91 x 29.72 x 12.52
	mm	1725×755×318
Net/Gross Weight	lbs	88.85/104.94
	kg	40.3/47.6

OUTDOOR SPECIFICATION		
Compressor Type		ROTARY
Compressor Model		KTF310D43UMT
Refrigerant		R454B
Refrigerant Oil Charge(mL)		1000
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		2413.3
Outdoor Noise Level (dBA)		64.0
Dimension (W×D×H)	inch	37.24 x 16.14 x 31.89
	mm	946.0×410.0×810.0
Package (W×D×H)	inch	42.91 x 19.68 x 34.84
	mm	1090×500×885
Net/Gross Weight	lbs	152.34/162.48
	kg	69.1/73.7

EFFICIENCY			
Cooling		Heating	
SEER2	20.0	HSPF2-4	10.0
EER2	10.1	COP	3.34

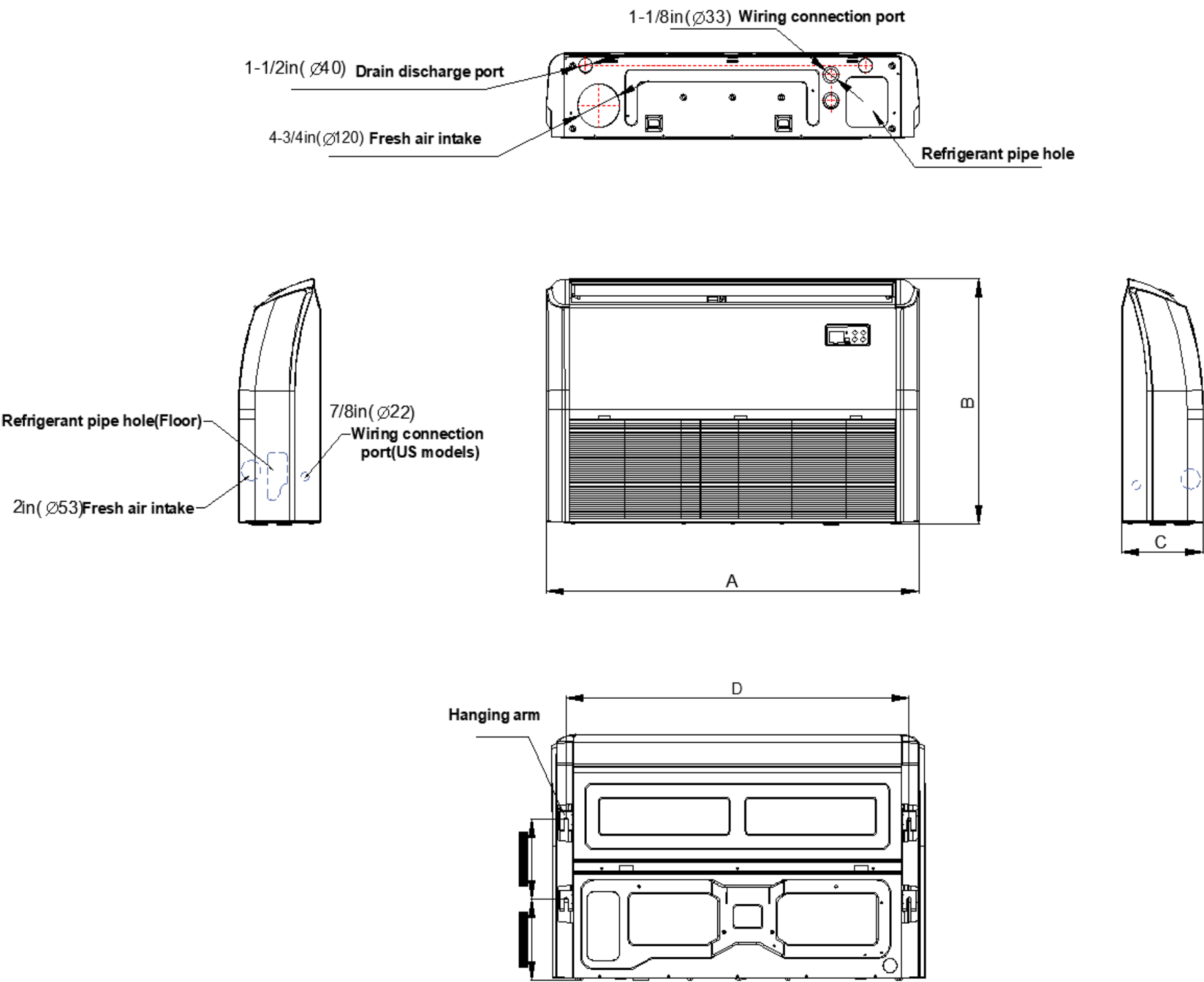
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	36000
Min/Max Capacity	7300~39500
Moisture Removal(L/h)	3.23
Standard Operating Range(°F/°C)	-13~122(-25~50)
Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	38000
1. @ 47°F Min/Max Capacity	14100~40400
2. @ 17°F Rated	26400
3. @ 5°F Rated: Capacity / COP	26000/2.17
3. @ 5°F Max: Capacity	26000
Standard Operating Range(°F/°C)	-13~75(-25~24)
1. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB
2. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 17°F DB/15°F WB
3. Conditions	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

ELECTRICAL	
Power Supply	208/230V,60Hz,1Ph
System MCA	33.00
Connection Wiring	14#x3
System MOCP	35
Compressor RLA	21.5
Outdoor Fan Motor RLA	1.4
Outdoor Fan Motor W	120
Indoor Fan Motor RLA	1.0
Indoor Fan Motor W	90
System Power Input @ Cooling (W)	3529(560 ~ 4180)
System Power Input @ Heating (W)	3334(855 ~3500)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

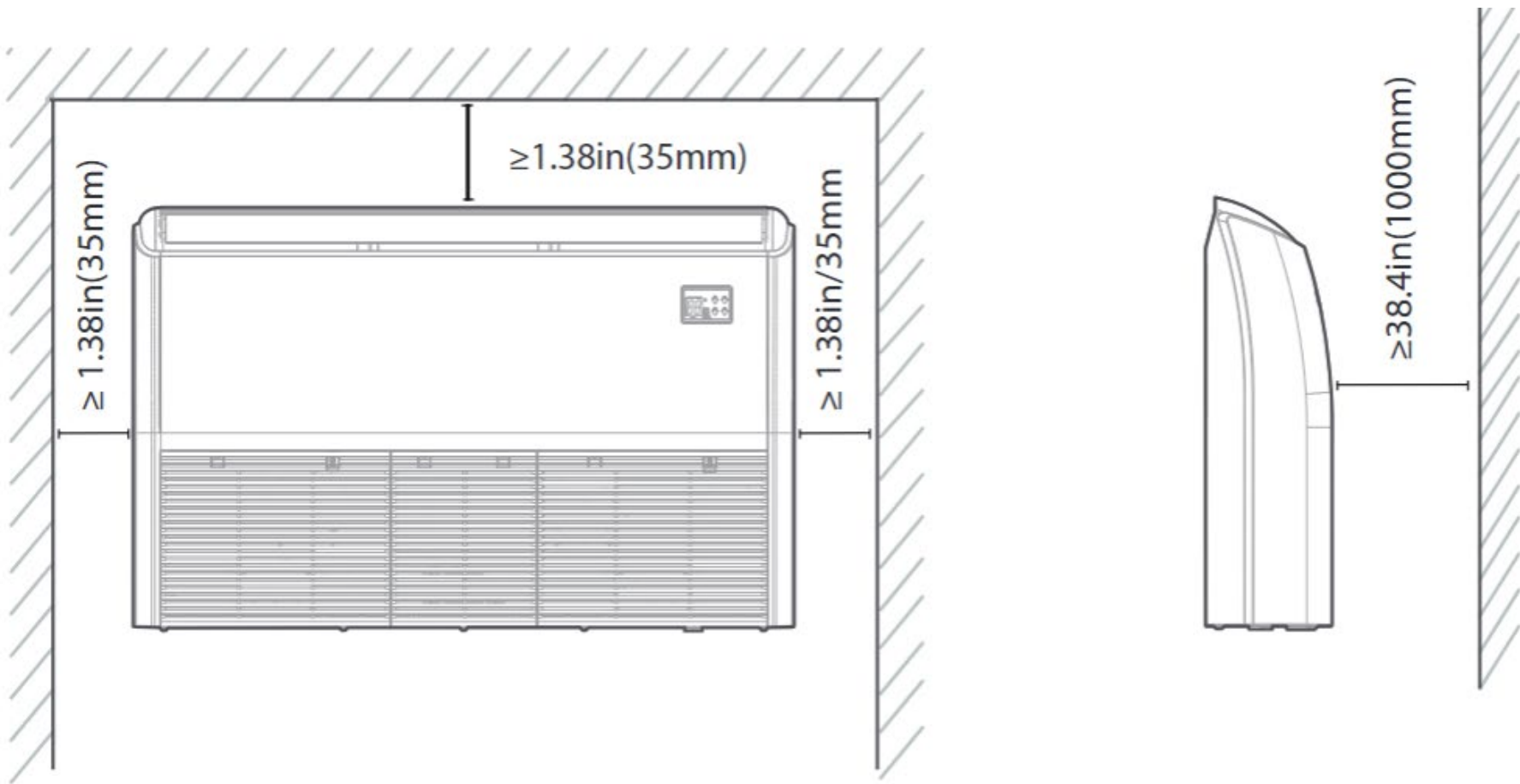
PIPING	
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	246.00(75)
Max. Height Difference(ft/m)	98.40(30)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	91.71(2.60)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.32(30)
Connection Method	Flared

Indoor Unit Dimension

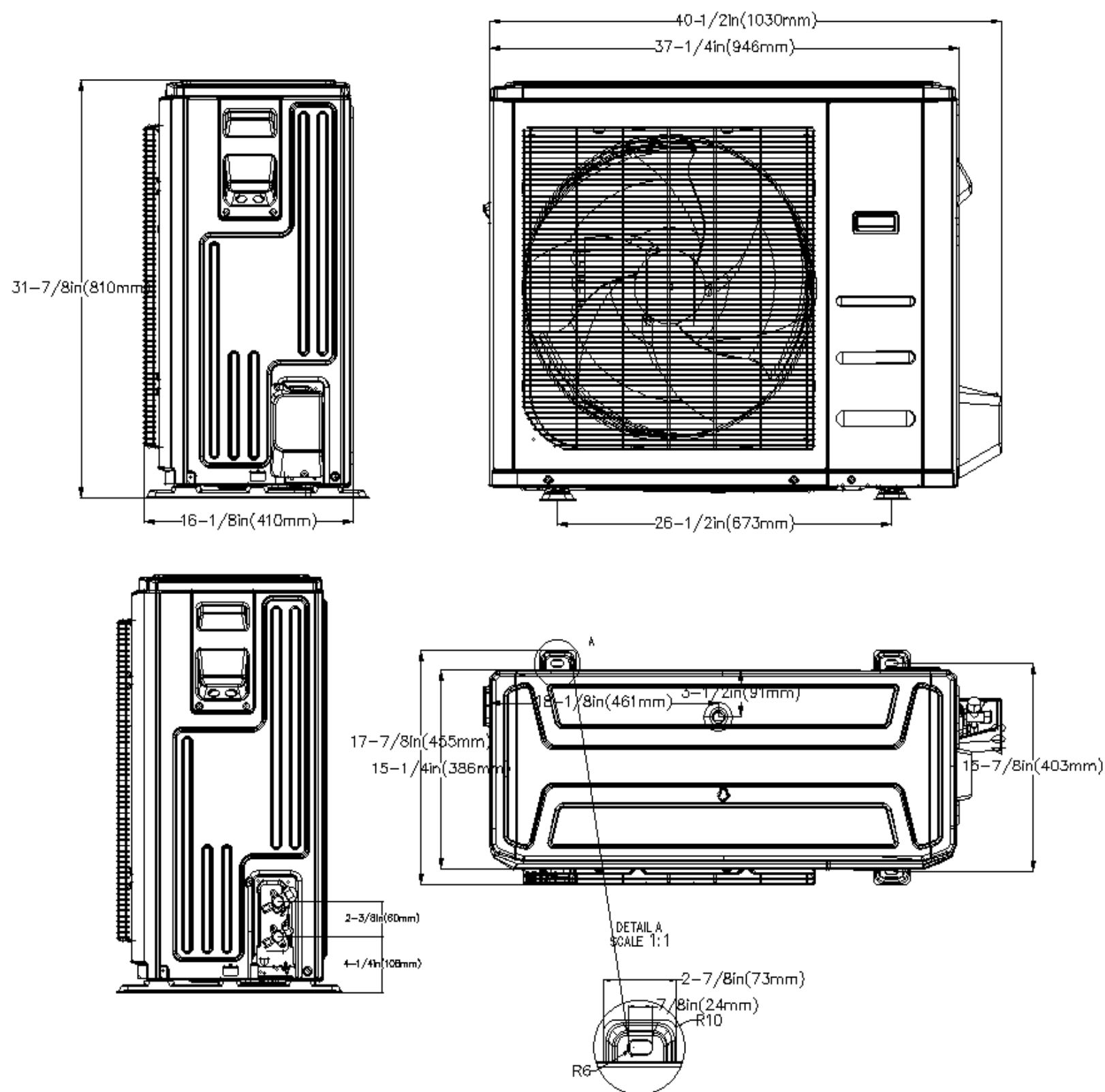


Model	A	B	C	D
18K/24K	42in(1068mm)	26-1/2in(675mm)	9-1/4in(235mm)	38-3/4in(983mm)
36K/48K/60K	65in(1650mm)	26-1/2in(675mm)	9-1/4in(235mm)	61-5/8in(1565mm)

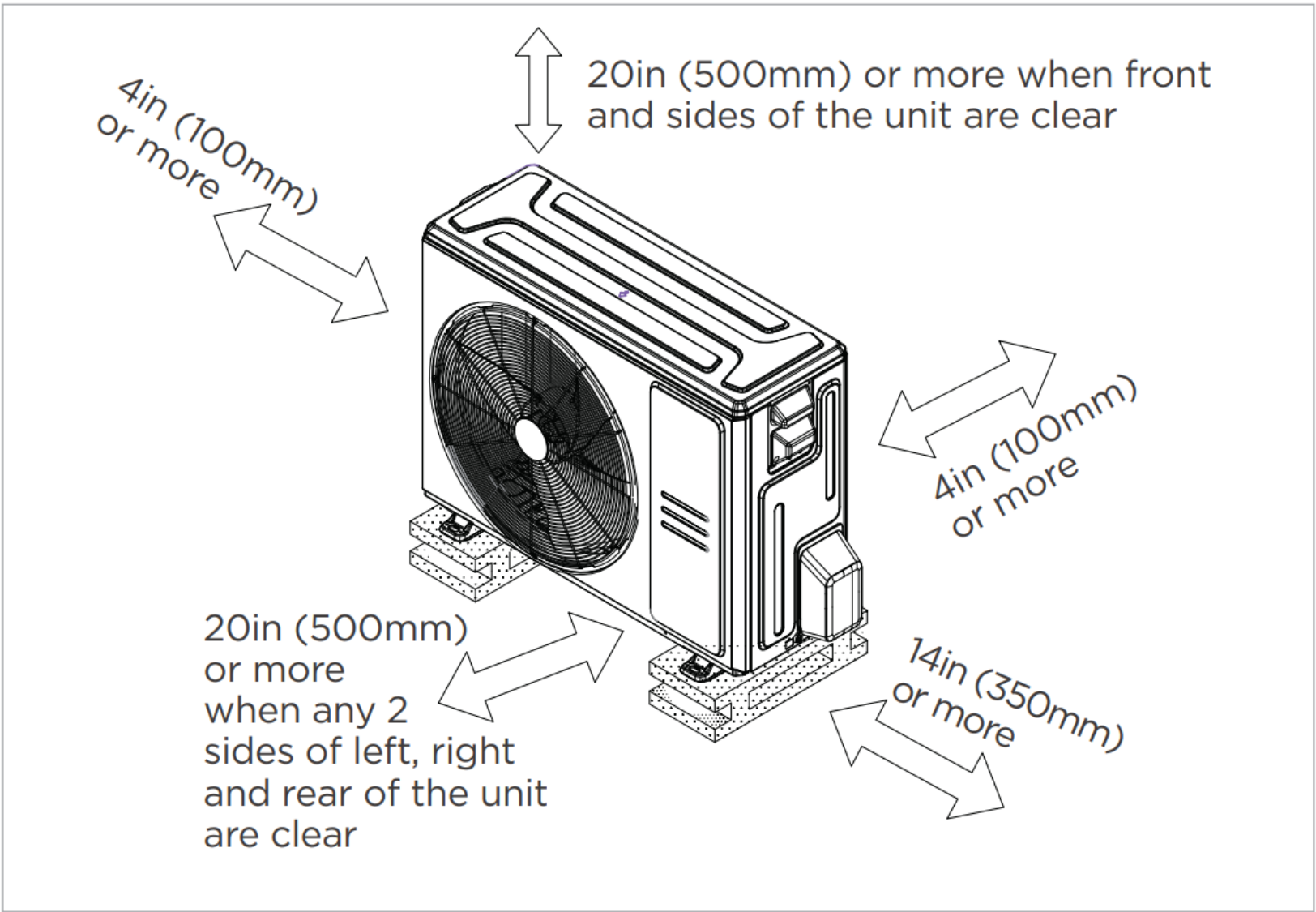
Installation Instruction



Outdoor Unit Dimension



Installation Instruction



☑ Meets all spatial requirements shown in Installation Clearance Requirements above.

SUBMITTAL DATA SHEET



Series Name: M4 Floor & Ceiling Heat Pump
Model Number: MOS48H2BM0A / MFC48H2BHRA

M4 Floor & Ceiling Heat Pump System	
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION		
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		1353.8 / 1236.1 / 1083.0 / 800.5 / 665.1
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		N/A/53.0/49.0/39.0/34.5
Dimension (W×D×H)	inch	64.96 x 26.57 x 9.25
	mm	1650.0×675.0×235.0
Package (W×D×H)	inch	67.91 x 29.72 x 12.52
	mm	1725×755×318
Net/Gross Weight	lbs	89.07/105.16
	kg	40.4/47.7

OUTDOOR SPECIFICATION		
Compressor Type		ROTARY
Compressor Model		KTQ420D1UMU
Refrigerant		R454B
Refrigerant Oil Charge(mL)		1400
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		4237.9
Outdoor Noise Level (dBA)		62.5
Dimension (W×D×H)	inch	37.48 x 16.34 x 52.48
	mm	952.0×415.0×1333.0
Package (W×D×H)	inch	43.11 x 19.49 x 57.48
	mm	1095×495×1460
Net/Gross Weight	lbs	208.78/239.86
	kg	94.7/108.8

EFFICIENCY			
Cooling		Heating	
SEER2	19.8	HSPF2-4	10.2
EER2	9.5	COP	2.82

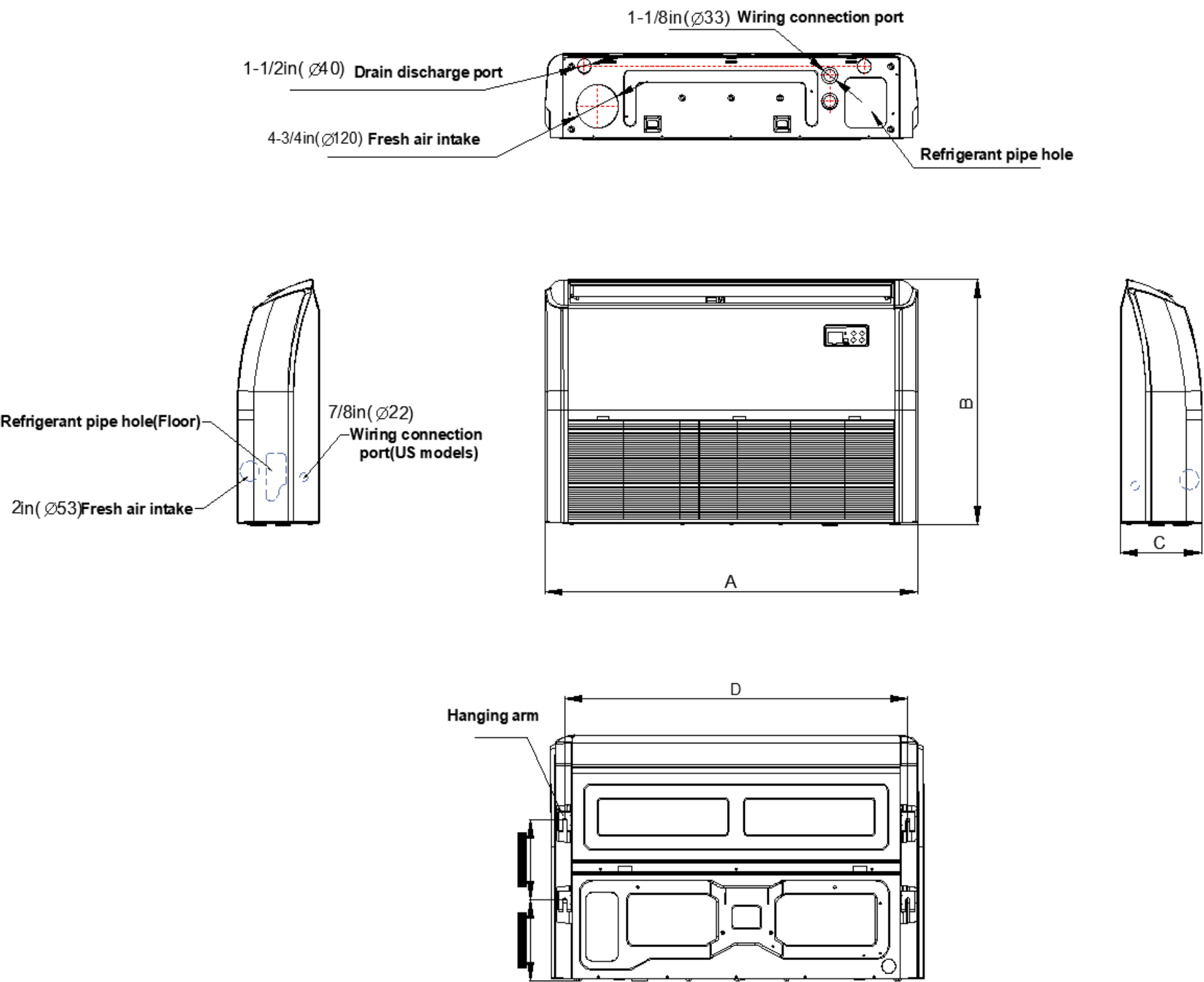
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	48000
Min/Max Capacity	10100~50000
Moisture Removal(L/h)	5.95
Standard Operating Range(°F/°C)	-13~122(-25~50)
Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	50000
1. @ 47°F Min/Max Capacity	15800~59100
2. @ 17°F Rated	39500
3. @ 5°F Rated: Capacity / COP	38500/1.95
3. @ 5°F Max: Capacity	38500
Standard Operating Range(°F/°C)	-13~75(-25~24)
1. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB
2. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 17°F DB/15°F WB
3. Conditions	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

ELECTRICAL	
Power Supply	208/230V,60Hz,1Ph
System MCA	39.00
Connection Wiring	14#x3
System MOCP	40
Compressor RLA	24.0
Outdoor Fan Motor RLA	1.2
Outdoor Fan Motor W	85
Indoor Fan Motor RLA	1.0
Indoor Fan Motor W	90
System Power Input @ Cooling (W)	5053(830 ~ 5280)
System Power Input @ Heating (W)	5196(575 ~5860)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

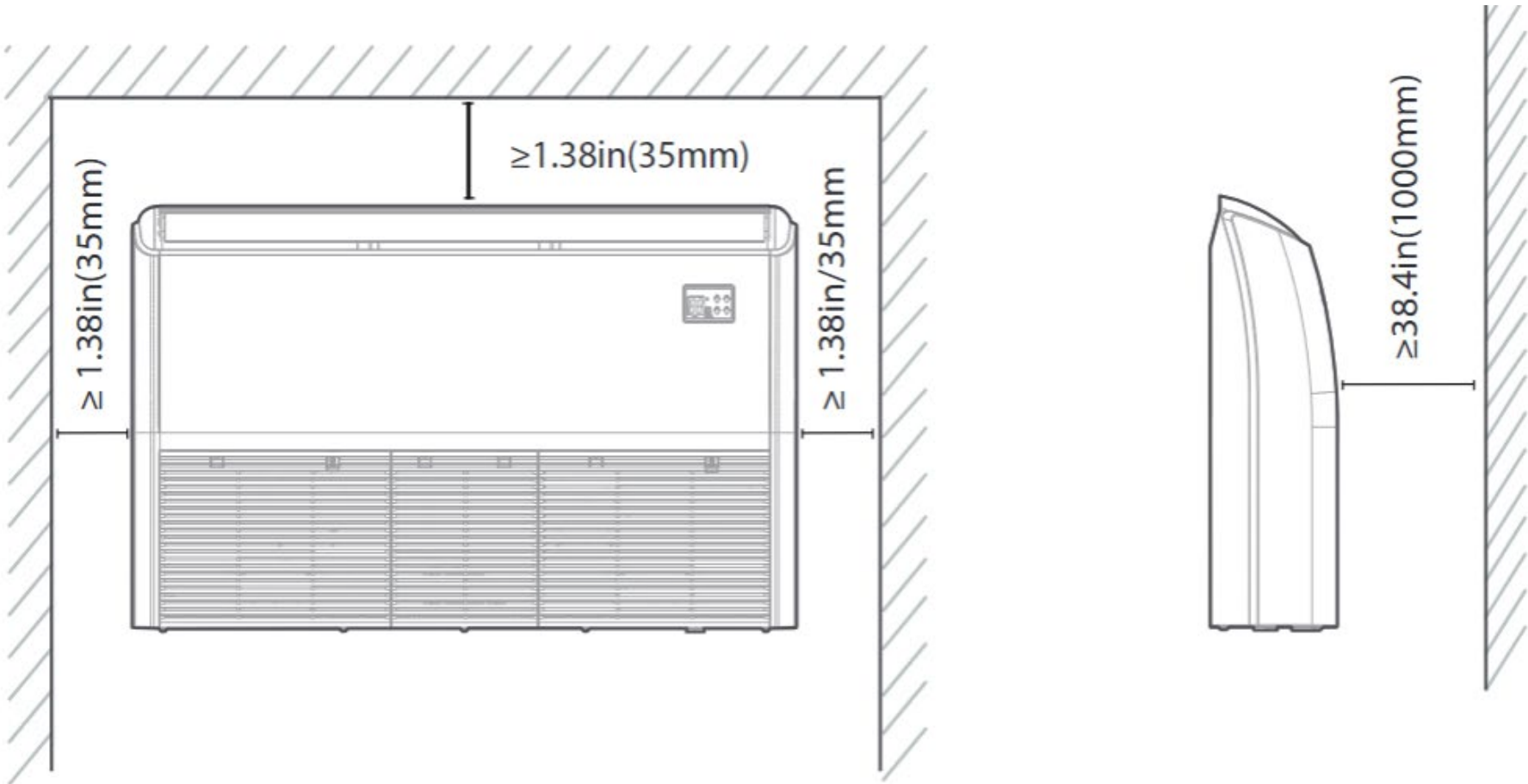
PIPING	
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	246.00(75)
Max. Height Difference(ft/m)	98.40(30)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	126.99(3.60)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.32(30)
Connection Method	Flared

Indoor Unit Dimension

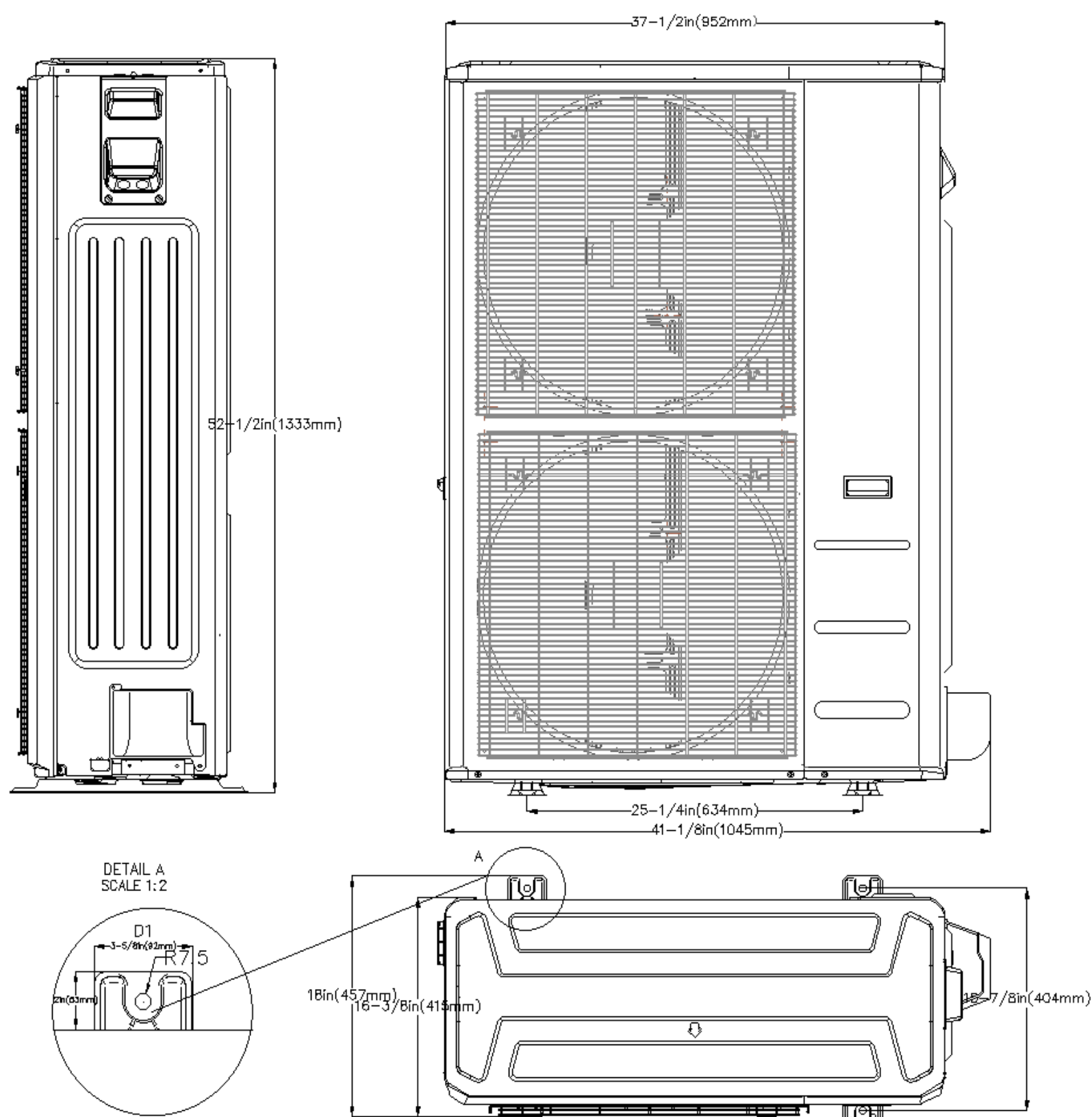


Model	A	B	C	D
18K/24K	42in(1068mm)	26-1/2in(675mm)	9-1/4in(235mm)	38-3/4in(983mm)
36K/48K/60K	65in(1650mm)	26-1/2in(675mm)	9-1/4in(235mm)	61-5/8in(1565mm)

Installation Instruction



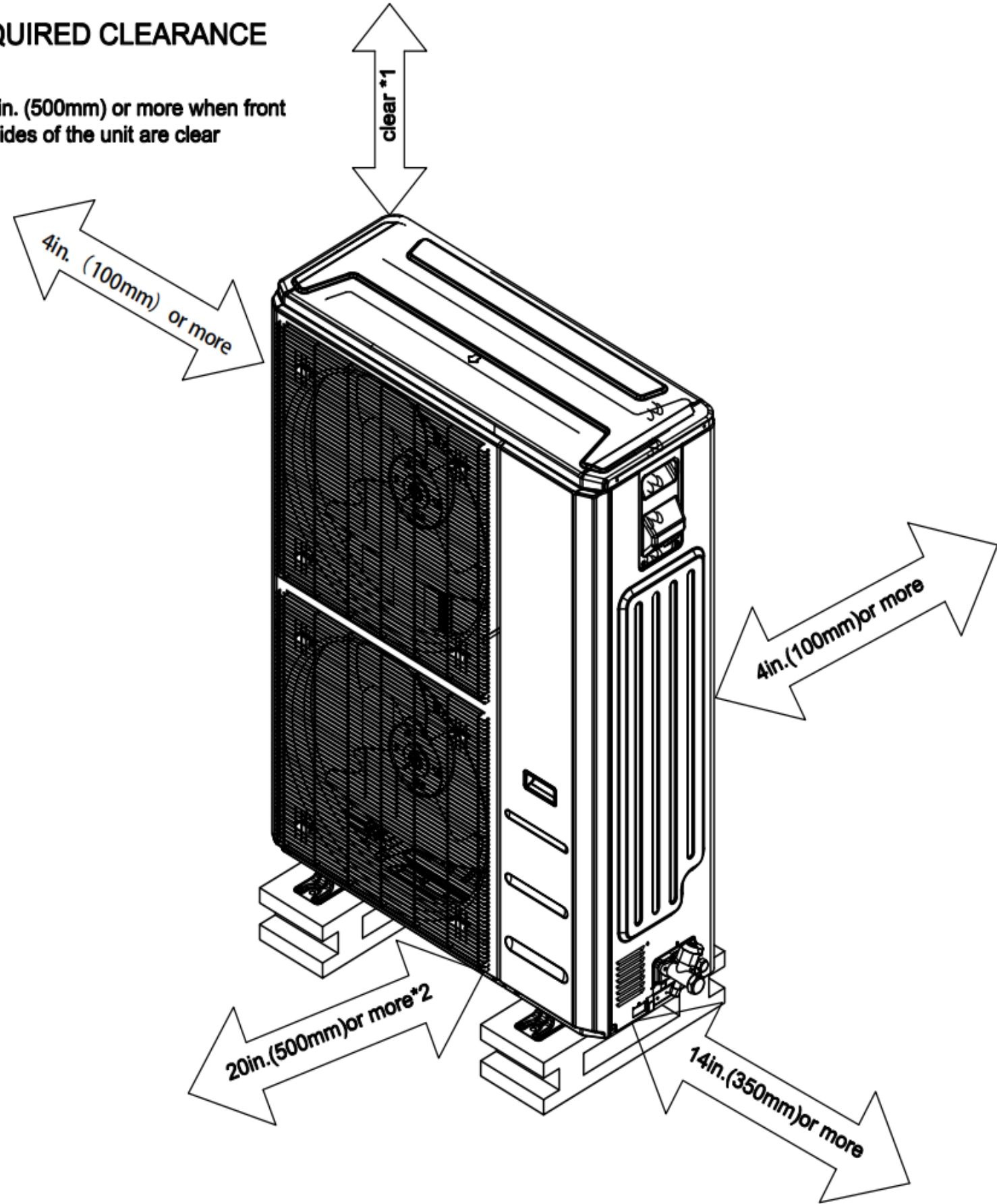
Outdoor Unit Dimension



Installation Instruction

REQUIRED CLEARANCE

*1 20in. (500mm) or more when front and sides of the unit are clear



*2 When any 2 sides of left, right and rear of the unit are clear

SUBMITTAL DATA SHEET



Series Name: M4 Floor & Ceiling Heat Pump
Model Number: MOS60H2BM0A / MFC60H2BHRA

M4 Floor & Ceiling Heat Pump System	
Location:	Approval:
Engineer:	Date:
Submitted to:	Construction:
Submitted by:	Unit #:
Reference:	Drawing #:



INDOOR SPECIFICATION		
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		1365.6 / 1236.1 / 1118.3 / 882.9 / 777
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		N/A/54.5/49.5/41.5/38.5
Dimension (W×D×H)	inch	64.96 x 26.57 x 9.25
	mm	1650.0×675.0×235.0
Package (W×D×H)	inch	67.91 x 29.72 x 12.52
	mm	1725×755×318
Net/Gross Weight	lbs	95.24/111.33
	kg	43.2/50.5

OUTDOOR SPECIFICATION		
Compressor Type		ROTARY
Compressor Model		KTQ420D1UMU
Refrigerant		R454B
Refrigerant Oil Charge(mL)		1400
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		4237.9
Outdoor Noise Level (dBA)		63.5
Dimension (W×D×H)	inch	37.48 x 16.34 x 52.48
	mm	952.0×415.0×1333.0
Package (W×D×H)	inch	43.11 x 19.49 x 58.27
	mm	1095×495×1480
Net/Gross Weight	lbs	209.44/240.08
	kg	95/108.9

EFFICIENCY			
Cooling		Heating	
SEER2	19.5	HSPF2-4	9.5
EER2	9.5	COP	3.05

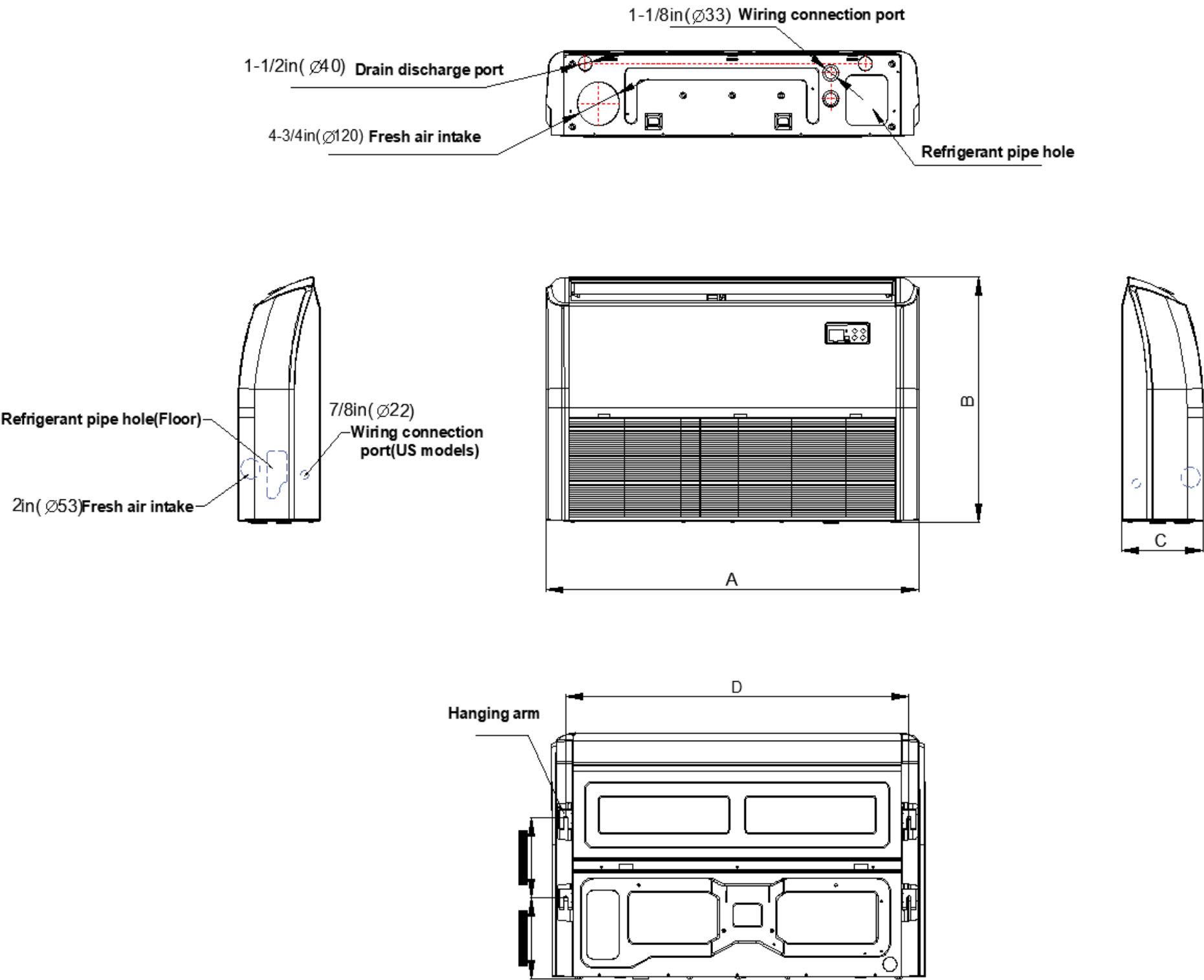
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	54000
Min/Max Capacity	15000~54500
Moisture Removal(L/h)	7.48
Standard Operating Range(°F/°C)	-13~122(-25~50)
Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	60000
1. @ 47°F Min/Max Capacity	20200~60000
2. @ 17°F Rated	37200
3. @ 5°F Rated: Capacity / COP	35000/2.01
3. @ 5°F Max: Capacity	35000
Standard Operating Range(°F/°C)	-13~75(-25~24)
1. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 47°F DB/43°F WB
2. Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 17°F DB/15°F WB
3. Conditions	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

ELECTRICAL	
Power Supply	208/230V,60Hz,1Ph
System MCA	42.00
Connection Wiring	14#x3
System MOCP	45
Compressor RLA	25.0
Outdoor Fan Motor RLA	2.2
Outdoor Fan Motor W	85
Indoor Fan Motor RLA	2.0
Indoor Fan Motor W	160
System Power Input @ Cooling (W)	5625(1400 ~ 6050)
System Power Input @ Heating (W)	5765(1150 ~5765)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

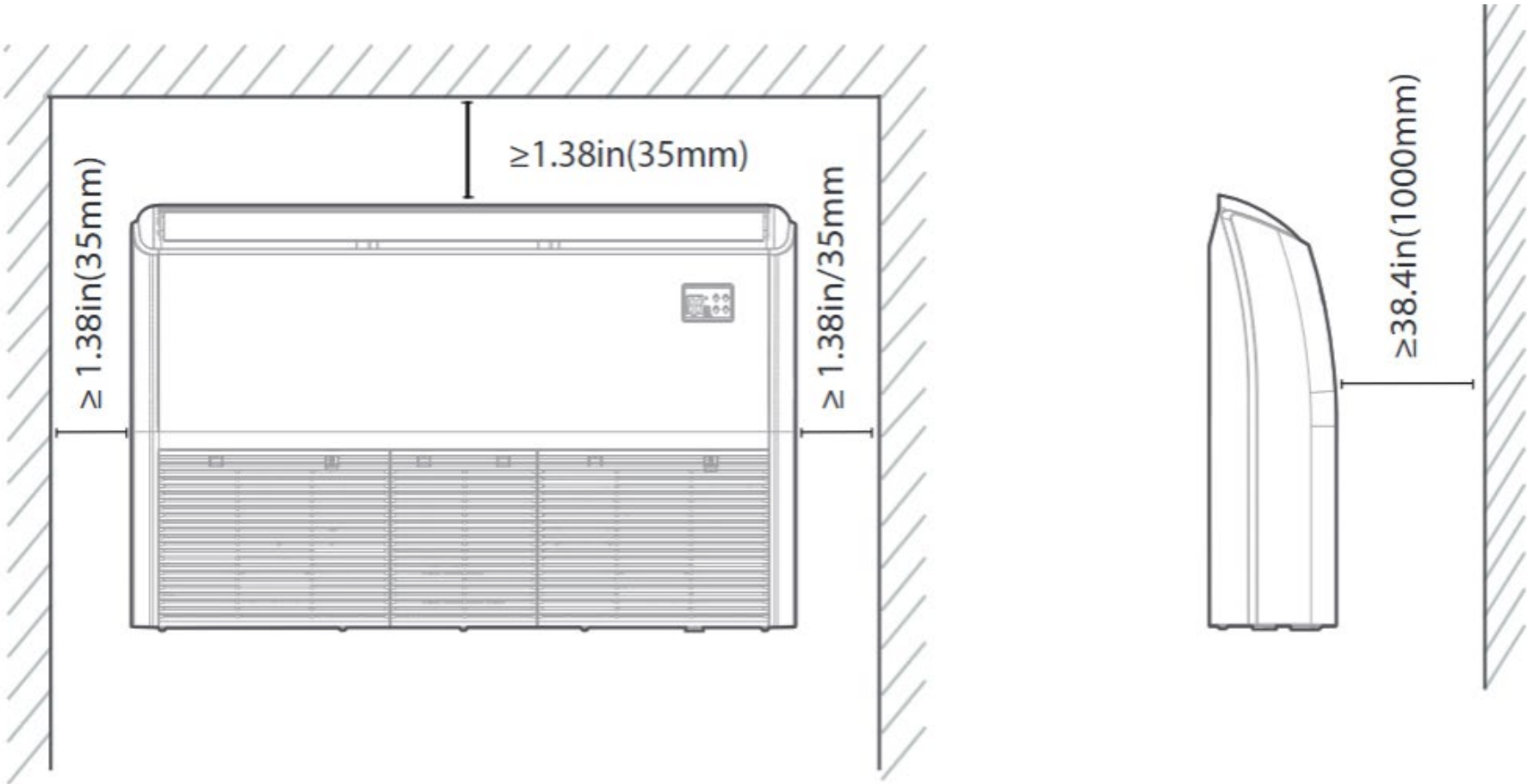
PIPING	
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	EXV+Throttle valve
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	246.00(75)
Max. Height Difference(ft/m)	98.40(30)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	144.62(4.10)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.32(30)
Connection Method	Flared

Indoor Unit Dimension

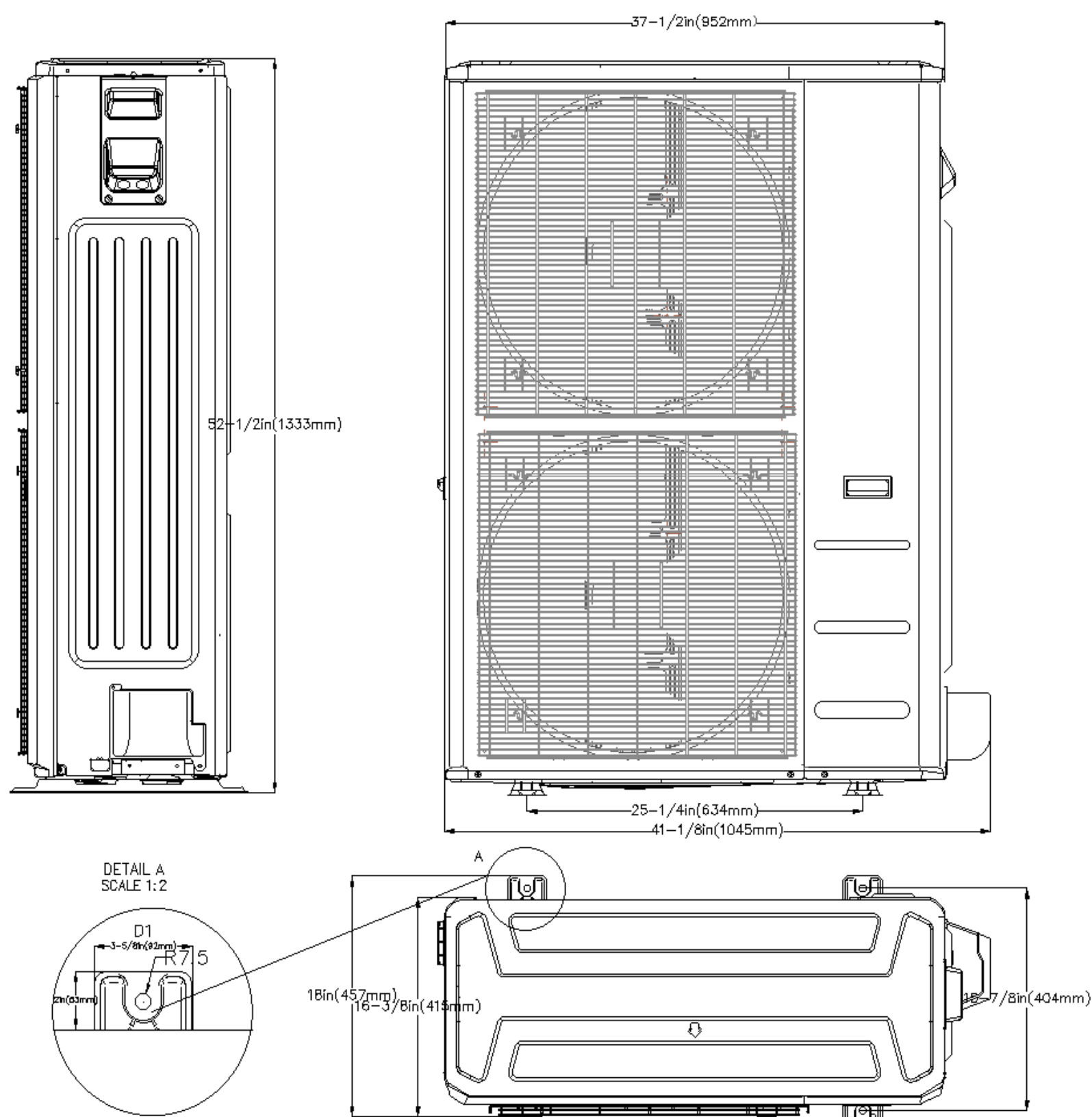


Model	A	B	C	D
18K/24K	42in(1068mm)	26-1/2in(675mm)	9-1/4in(235mm)	38-3/4in(983mm)
36K/48K/60K	65in(1650mm)	26-1/2in(675mm)	9-1/4in(235mm)	61-5/8in(1565mm)

Installation Instruction



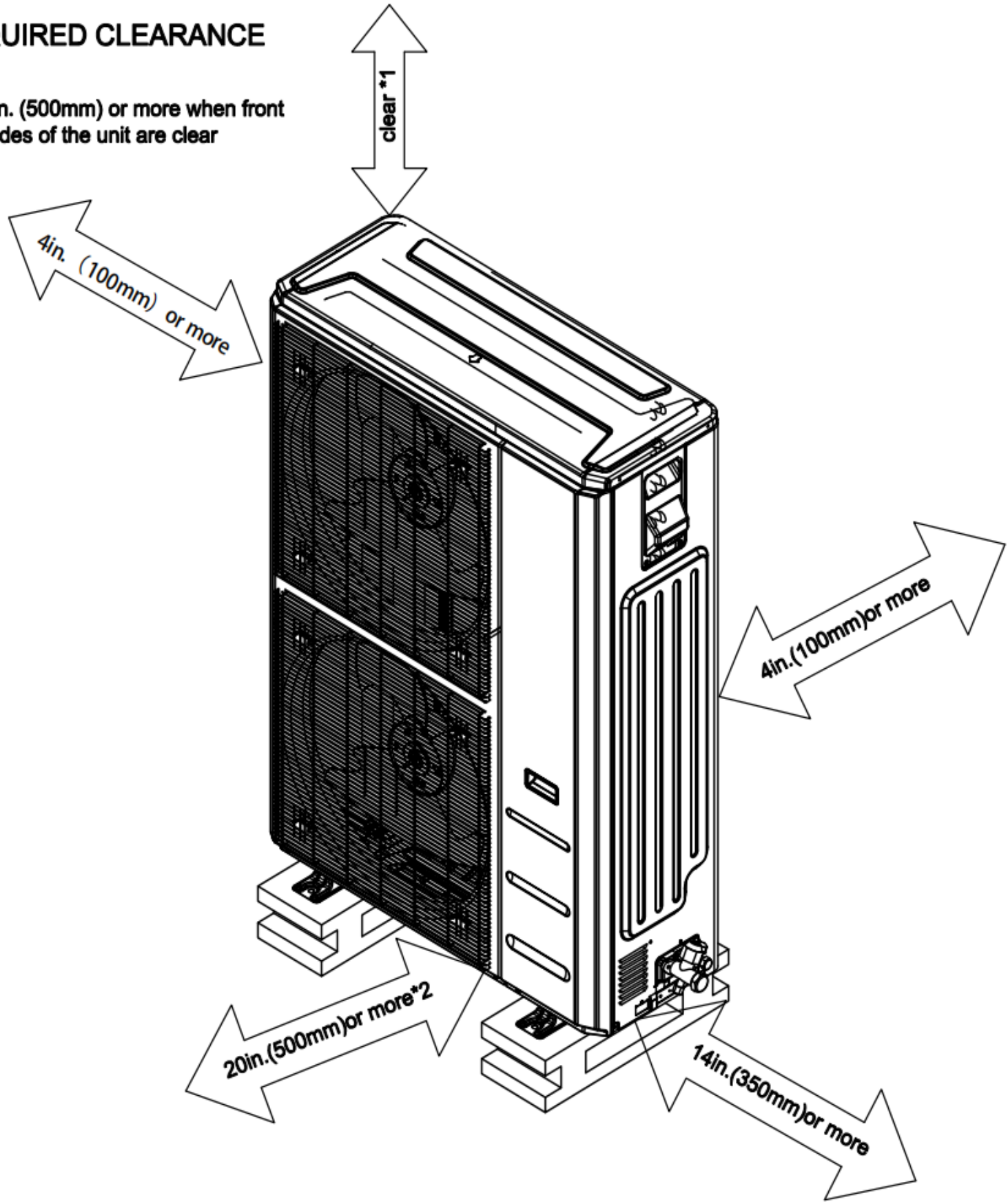
Outdoor Unit Dimension



Installation Instruction

REQUIRED CLEARANCE

*1 20in. (500mm) or more when front and sides of the unit are clear



*2 When any 2 sides of left, right and rear of the unit are clear