

SUBMITTAL DATA SHEET

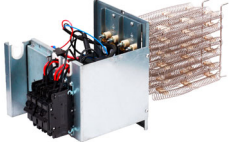


SLIM4 Heat Pump Wall Mount Front Return System

Outdoor	Indoor	Controls		
				
		Wifi Thermostat (Included)	Remote Control (Included)	Smart Thermostat (Optional)

Outdoor Key Features	Indoor Key Features
• Eco-Friendly R454B Refrigerant • Advanced Inverter Technology • Anti-Corrosive Gold-Fin Coating • Thin and Compact Design • Separate 24V and RS485 - (S1/S2) Terminals • Intelligent Defrosting • 3 Minutes Restart Delay • Heating operation at -13°F • Quiet Operation • Auto-Restart • Drain Pan Heater and Compressor Heating Belt • *10 Year Warranty	• Dual-Voltage 115V or 208~230V • Flared Connections • Factory installed R454B Leak Sensor • Bottom or Front Return Flexibility. Vertical Upflow • All-Aluminum Coil • Multiple Fan Speeds • Constant Airflow up to 0.8" in W.C. • Electronic Expansion Valve Control • 24V or RS485 Communication. Self-Diagnostic • Wall-Mount or Frame Mount • Auxiliary Heating • *10 Year Warranty

Accessories

Heater Kit


Model	Description
WFM0302BW	3kW Heat Kit w/ circuit breaker
WFM0502BW	5kW Heat Kit w/ circuit breaker
WFM0802BW	7.5kW Heat Kit w/ circuit breaker
WFM1002BW	10kW Heat Kit w/ circuit breaker

EcoBridge Integration Kit


Model	Description
22011500000438	• R454B Integration Kit for non-A2L indoors • Integration Board, R454B Sensor, and Sensor bracket included

SLIM Smart Thermostat


Model	Description
SLIMST900X	• Touchscreen Smart Thermostat • 24V or 485V Communication • Can control Multiple units • Advanced Icheck Self-Diagnostics • Wi-Fi compatible with Amazon, Alexa, Google Home, Apple Home

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

innovair®

Series Name: SLIM4 Heat Pump Series
Model Number: SOV18H2BA / SWV18BDA

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



INDOOR SPECIFICATION		
ESP(inWG)		0~0.8
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		618.0 / 576.8 / 529.7 / 488.5 / /
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		48.0/47/45/39/N/A
Dimension (W×D×H)	inch	20.28 x 15.71 x 36.54
	mm	515×399×928
Package (W×D×H)	inch	22.83 x 19.49 x 42.91
	mm	580×495×1090
Net/Gross Weight	lbs	111.33/91.49
	kg	50.5/41.5

OUTDOOR SPECIFICATION		
Compressor Type		ROTARY
Compressor Model		KSN140D58UFZ
Refrigerant		R454B
Refrigerant Oil Charge(mL)		440
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1450.9
Outdoor Noise Level (dBA)		55.5
Dimension (W×D×H)	inch	31.69 x 12.99 x 21.81
	mm	805×330×554
Package (W×D×H)	inch	36.02 x 14.57 x 24.21
	mm	915×370×615
Net/Gross Weight	lbs	77.16/83.77
	kg	35/38

EFFICIENCY			
Cooling		Heating	
SEER2	18.5	HSPF2-4	9.4
EER2	11.5	COP	3.55

PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	18000
Min/Max Capacity	5900~20600
Moisture Removal(L/h)	1.87
Standard Operating Range(°F/°C)	-25~50(-25~50)
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

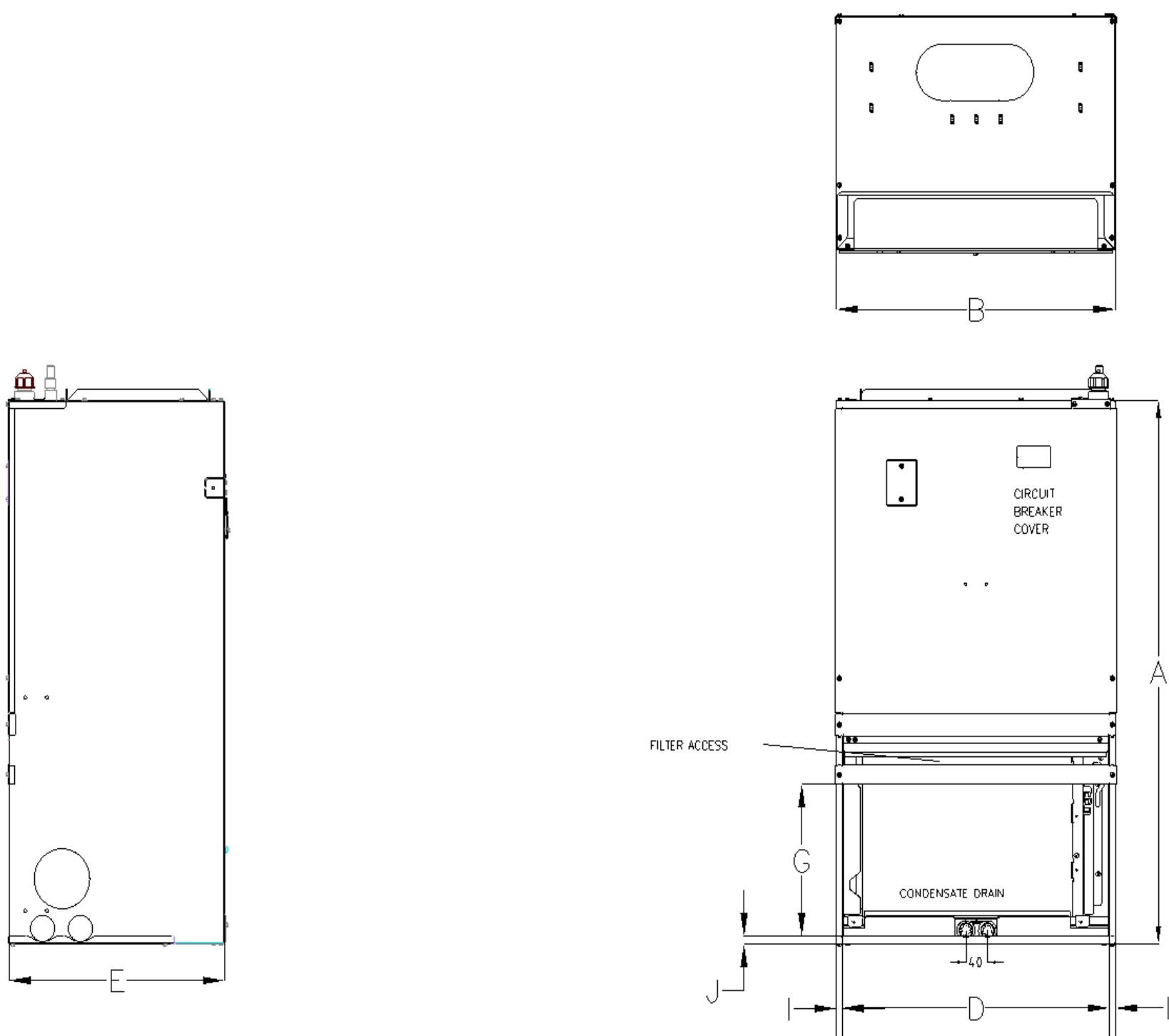
PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	18000
2. @ 47°F Min/Max Capacity	3900~19600
3. @ 17°F Rated	12600
4. @ 5°F Rated: Capacity / COP	11400/2.1
5. @ 5°F Max: Capacity	11400
Standard Operating Range(°F/°C)	-25~24(-25~24)
1. Rated Heating Conditions:	Indoor: 70°F DB/60°F WB Outdoor: 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 Operating at Max. Frequency	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

ELECTRICAL	
Indoor Power Supply	115/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	4
Indoor MOP	15
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	16
Outdoor MOP	20
Communication Wiring	AWG 20-2
Compressor RLA	10
Outdoor Fan Motor RLA	0.8
Outdoor Fan Motor W	/
Indoor Fan Motor RLA	3
Indoor Fan Motor W	250
System Power Input @ Cooling (W)	1565(360 ~ 1820)
System Power Input @ Heating (W)	1485(275 ~1610)
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)	EXV
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
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)	51.15(1.45)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.7(65)
Connection Method	Flared*

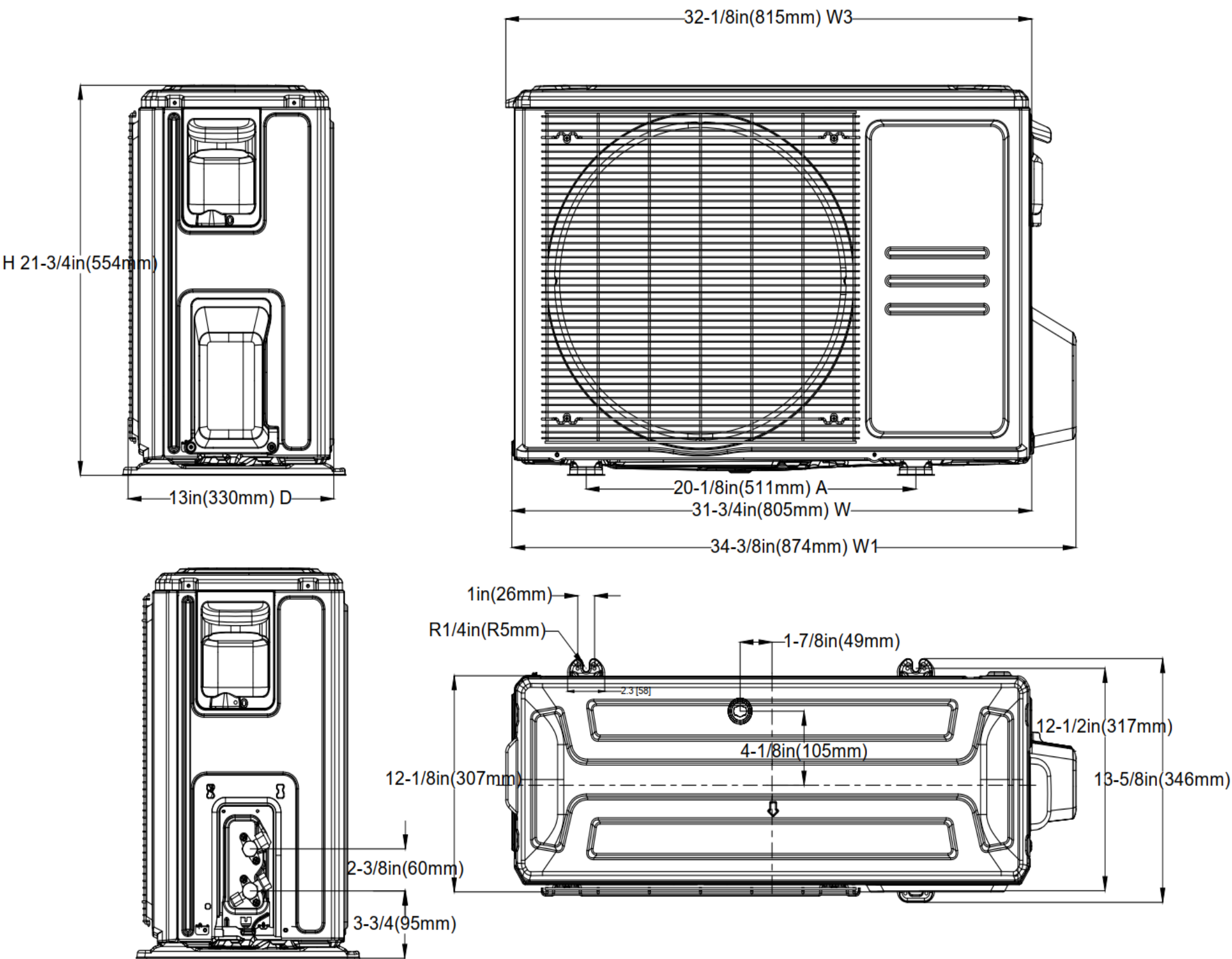
*The gas valve of the outdoor unit is 5/8", 5/8" to 3/4" flare to flare connector is required for the installation.

Indoor Unit Dimension

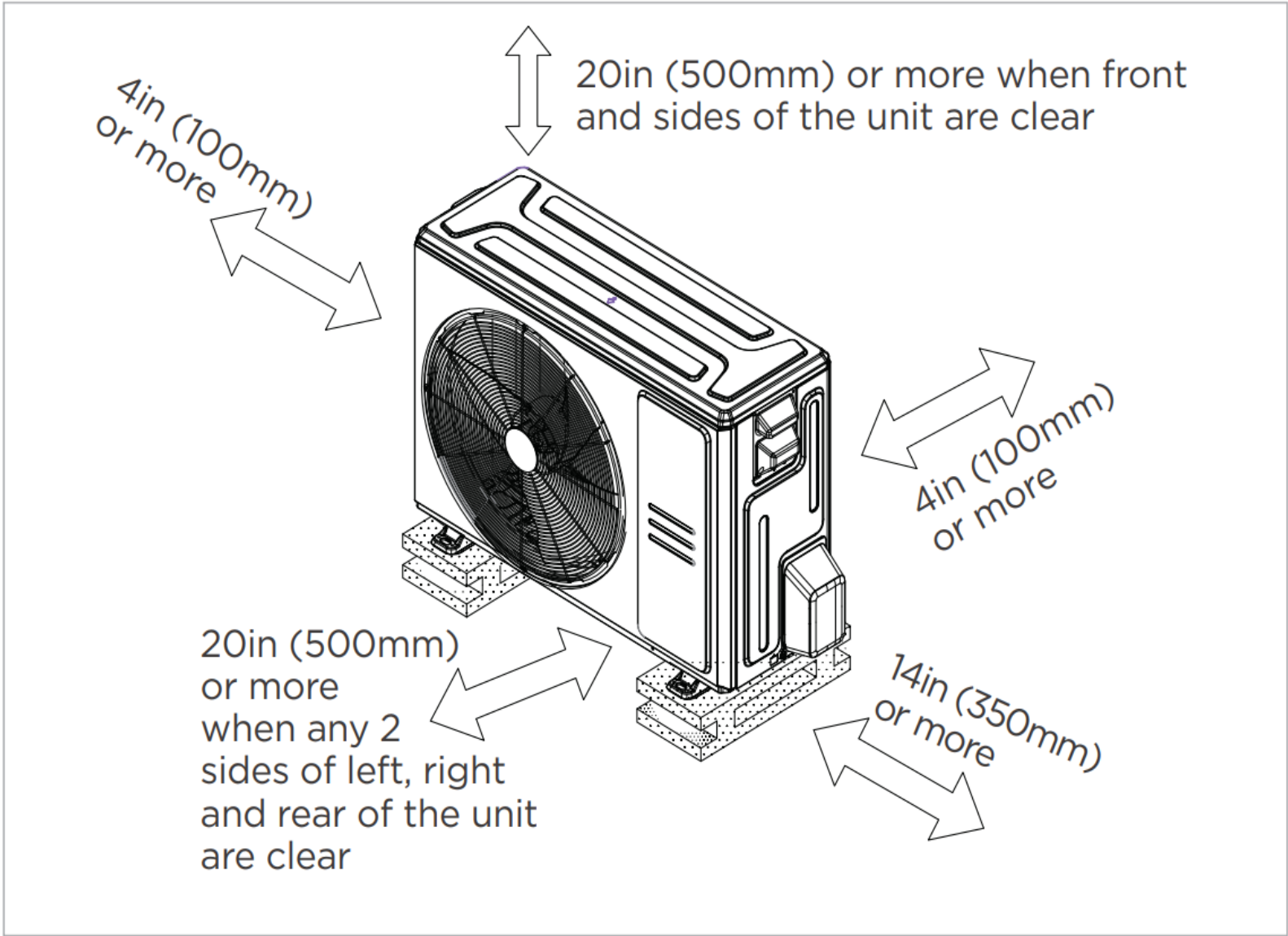


Measurement	Description	18K/24K (inch)	18K/24K (mm)	30K/36K (inch)	30K/36K (mm)
A	Model Height	36.5	928	40	1017
B	Model Width	20.3	515	22	559
C	Supply Air Opening Width	17.4	442	18.8	479
D	Return Air Opening Width	19.4	494	21.2	538
E	Model Depth	15.7	399	19	483
F	Supply Air Opening Depth	10.4	265	9.3	235
G	Return Air Opening Depth	10.3	261	13.1	333
H	Supply Air Opening Clearance	1.1	29	1.6	41
I	Return Air Opening Side Clearance	0.42	11	0.42	11
J	Return Air Opening Front Clearance	0.47	12	0.63	16

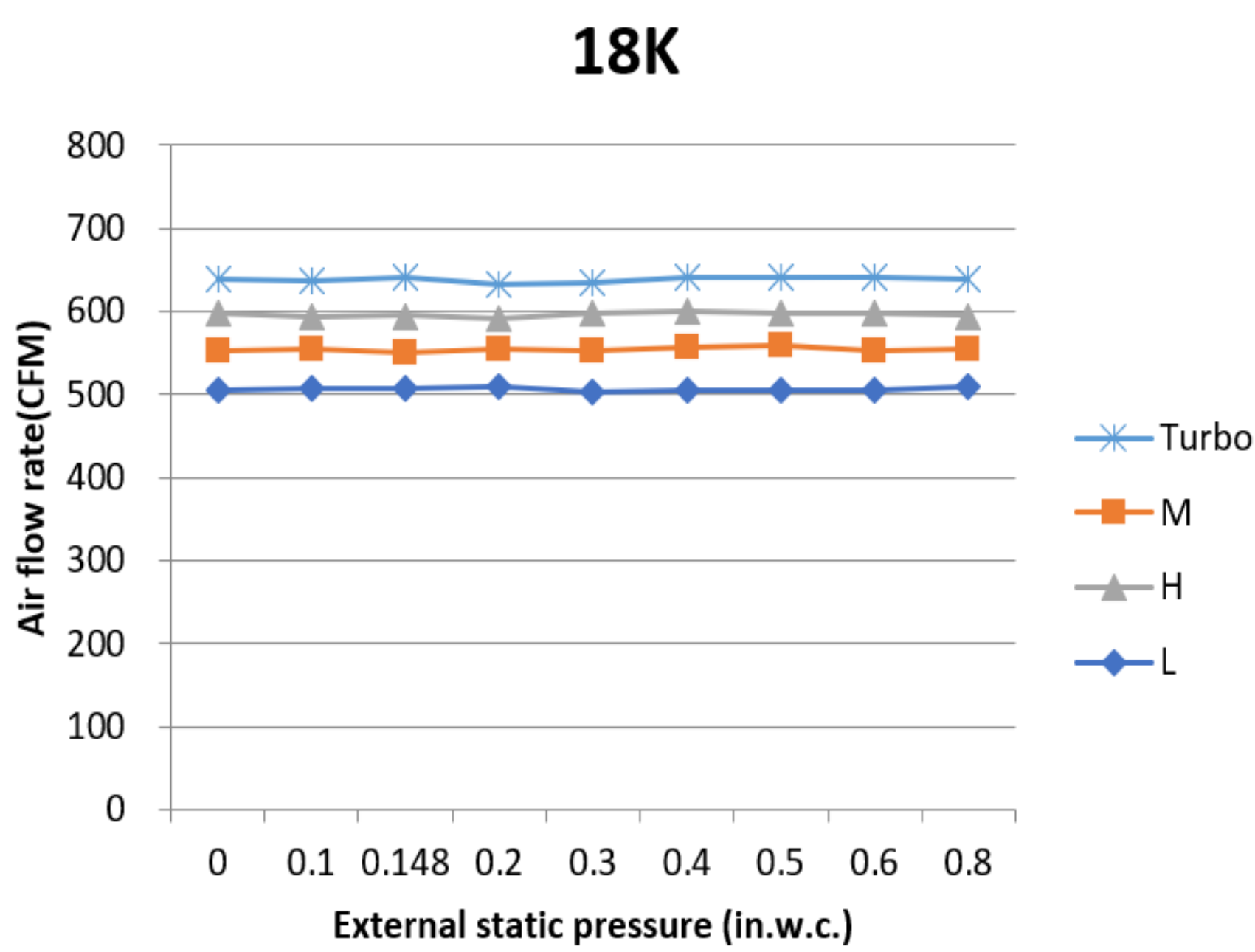
Outdoor Unit Dimension



Installation Instruction For Outdoor Unit



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



SUBMITTAL DATA SHEET

innovair®

Series Name: SLIM4 Heat Pump Series
Model Number: SOV24H2BA / SWV24BDA

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



INDOOR SPECIFICATION		
ESP(inWG)		0~0.8
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		824.0 / 759.3 / 694.5 / 629.8 / /
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		53.0/51/48/37.5/N/A
Dimension (W×D×H)	inch	20.28 x 15.71 x 36.54
	mm	515×399×928
Package (W×D×H)	inch	22.83 x 19.49 x 42.91
	mm	580×495×1090
Net/Gross Weight	lbs	91.49/111.33
	kg	41.5/50.5

OUTDOOR SPECIFICATION		
Compressor Type		ROTARY
Compressor Model		KTM240D46UKT2
Refrigerant		R454B
Refrigerant Oil Charge(mL)		620
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1765.8
Outdoor Noise Level (dBA)		59
Dimension (W×D×H)	inch	35.04 x 13.46 x 26.50
	mm	890×342×673
Package (W×D×H)	inch	39.17 x 15.67 x 29.13
	mm	995×398×740
Net/Gross Weight	lbs	101.41/109.13
	kg	46/49.5

EFFICIENCY			
Cooling		Heating	
SEER2	17.4	HSPF2-4	10.4
EER2	10.8	COP	3.80

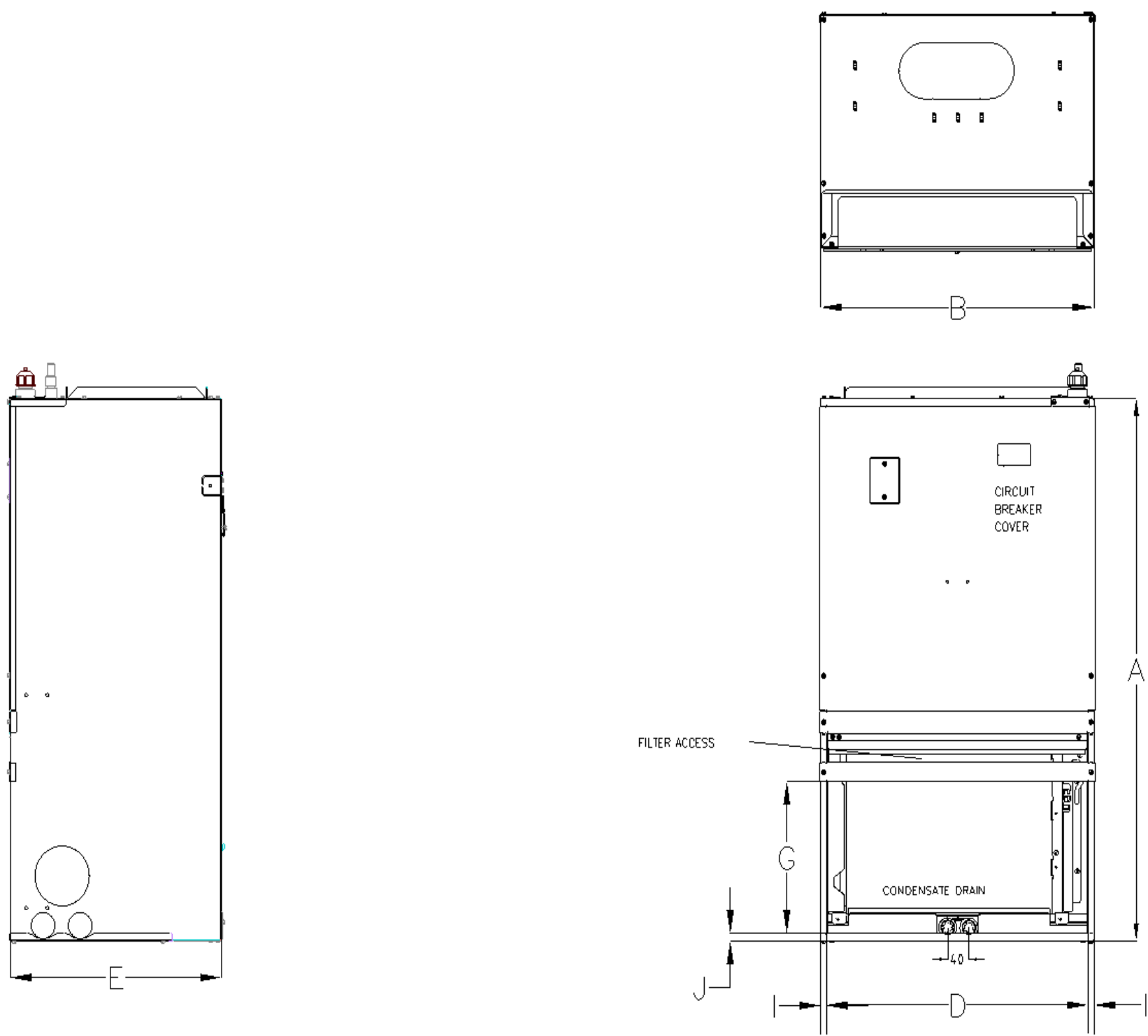
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	24000
Min/Max Capacity	10100~27500
Moisture Removal(L/h)	2.5
Standard Operating Range(°F/°C)	-25~50(-25~50)
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	25000
2. @ 47°F Min/Max Capacity	7000~32200
3. @ 17°F Rated	20800
4. @ 5°F Rated: Capacity / COP	19400/1.96
5. @ 5°F Max: Capacity	19400
Standard Operating Range(°F/°C)	-25~24(-25~24)
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 Operating at Max. Frequency	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

ELECTRICAL	
Indoor Power Supply	115/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	4
Indoor MOP	15
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	19
Outdoor MOP	20
Communication Wiring	AWG 20-2
Compressor RLA	14
Outdoor Fan Motor RLA	1
Outdoor Fan Motor W	/
Indoor Fan Motor RLA	3
Indoor Fan Motor W	250
System Power Input @ Cooling (W)	2222(830 ~ 2850)
System Power Input @ Heating (W)	1980(455 ~2590)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

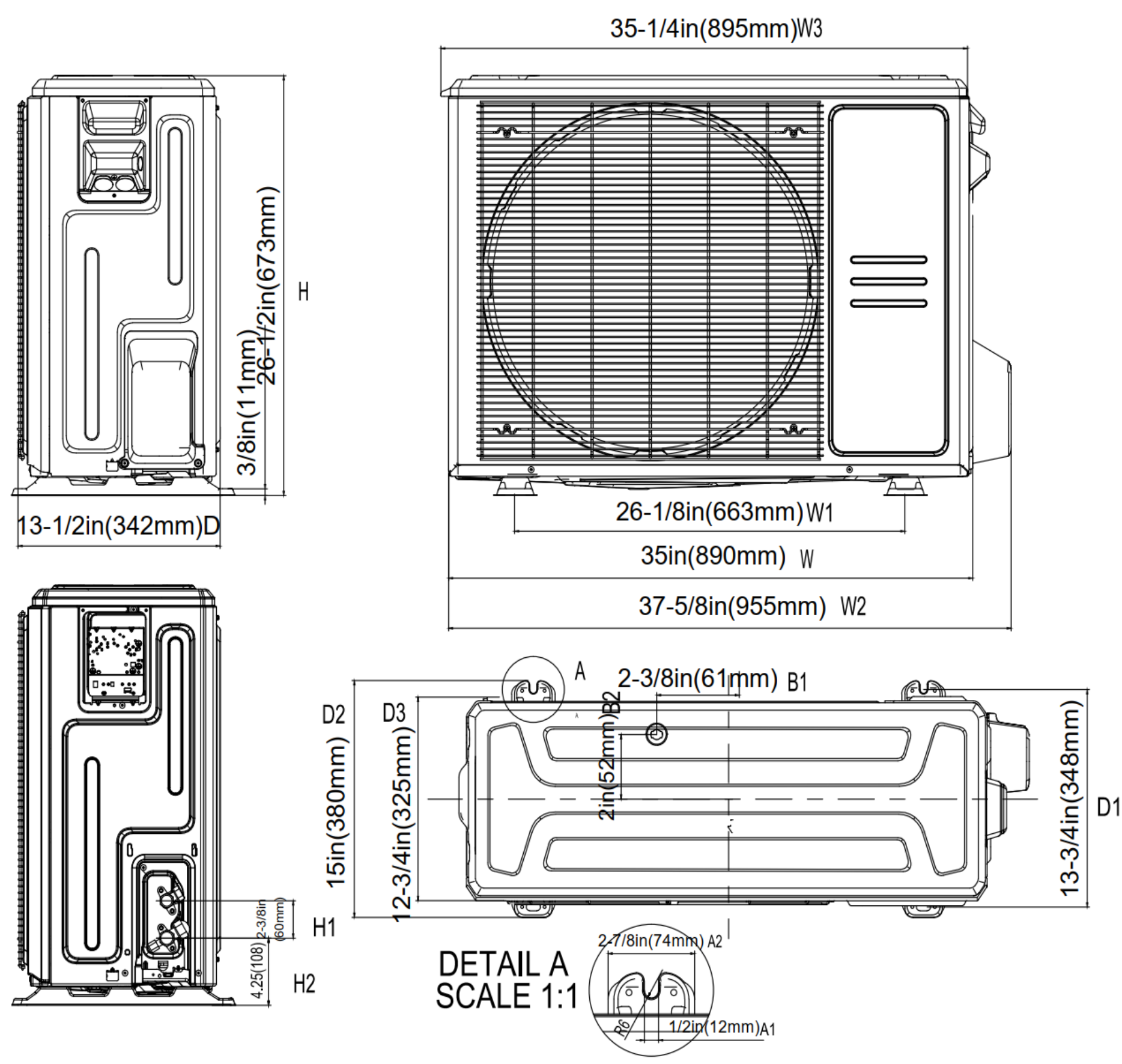
PIPING	
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	164(50)
Max. Height Difference(ft/m)	82(25)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	74.08(2.1)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.7(65)
Connection Method	Flared

Indoor Unit Dimension

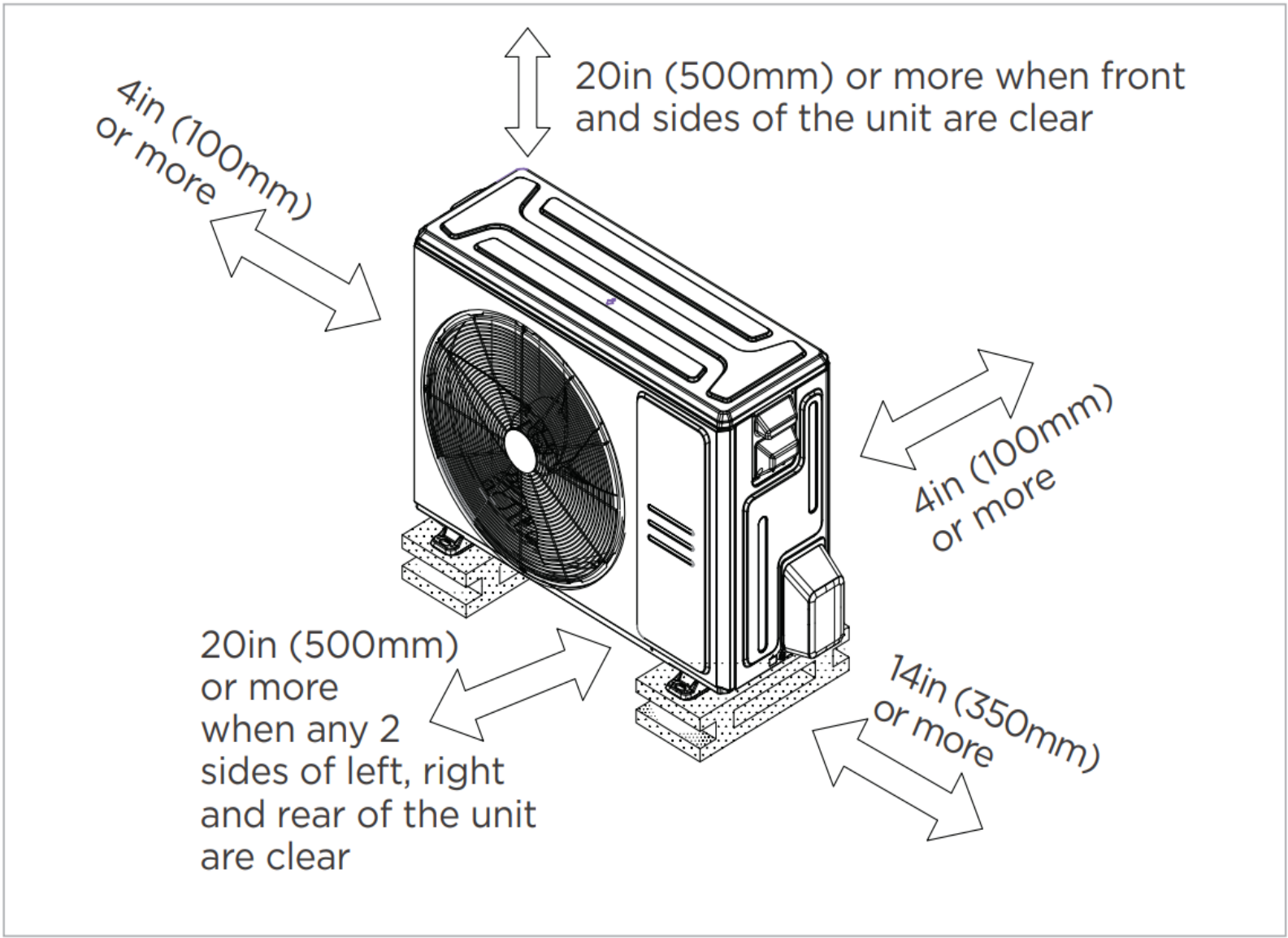


Measurement	Description	18K/24K (inch)	18K/24K (mm)	30K/36K (inch)	30K/36K (mm)
A	Model Height	36.5	928	40	1017
B	Model Width	20.3	515	22	559
C	Supply Air Opening Width	17.4	442	18.8	479
D	Return Air Opening Width	19.4	494	21.2	538
E	Model Depth	15.7	399	19	483
F	Supply Air Opening Depth	10.4	265	9.3	235
G	Return Air Opening Depth	10.3	261	13.1	333
H	Supply Air Opening Clearance	1.1	29	1.6	41
I	Return Air Opening Side Clearance	0.42	11	0.42	11
J	Return Air Opening Front Clearance	0.47	12	0.63	16

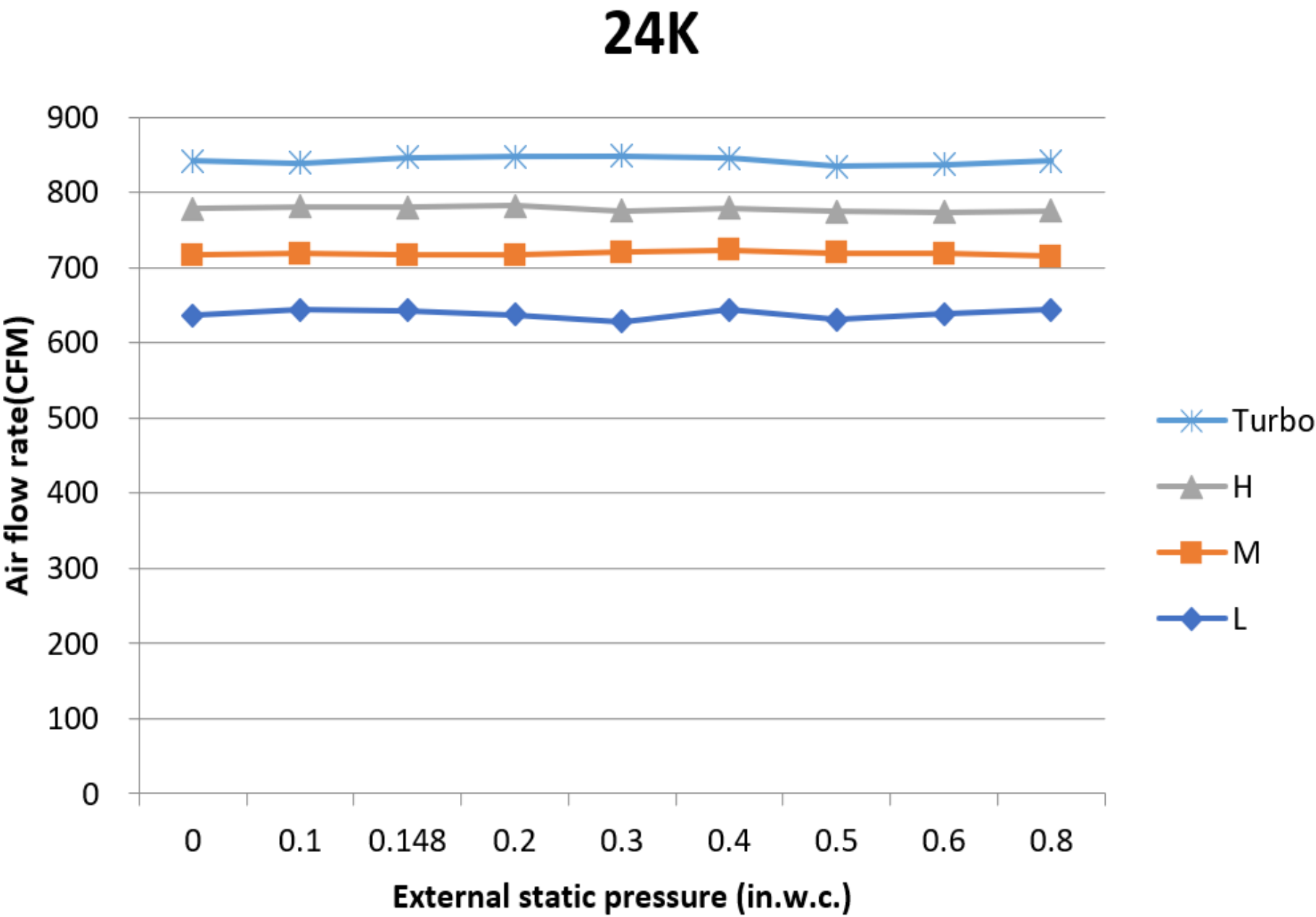
Outdoor Unit Dimension



Installation Instruction For Outdoor Unit



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



SUBMITTAL DATA SHEET

innovair®

Series Name: SLIM4 Heat Pump Series
Model Number: [SOV30H2BA](#) / [SWV30BDA](#)

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



INDOOR SPECIFICATION		
ESP(inWG)		0~0.8
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		988.8 / 894.7 / 806.4 / 712.2 / N/A
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		50.5/50/48/36/N/A
Dimension (W×D×H)	inch	22.01 x 19.02 x 40.04
	mm	559×483×1017
Package (W×D×H)	inch	24.61 x 22.83 x 46.97
	mm	625×580×1193
Net/Gross Weight	lbs	110.23/131.39
	kg	50/59.6

OUTDOOR SPECIFICATION		
Compressor Type		ROTARY
Compressor Model		KTF250D22UMT
Refrigerant		R454B
Refrigerant Oil Charge(mL)		670
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		3001.9
Outdoor Noise Level (dBA)		61
Dimension (W×D×H)	inch	37.24 x 16.14 x 31.89
	mm	946×410×810
Package (W×D×H)	inch	42.91 x 19.69 x 34.84
	mm	1090×500×885
Net/Gross Weight	lbs	141.76/152.34
	kg	64.3/69.1

EFFICIENCY			
Cooling		Heating	
SEER2	18.6	HSPF2-4	8.7
EER2	11	COP	3.5

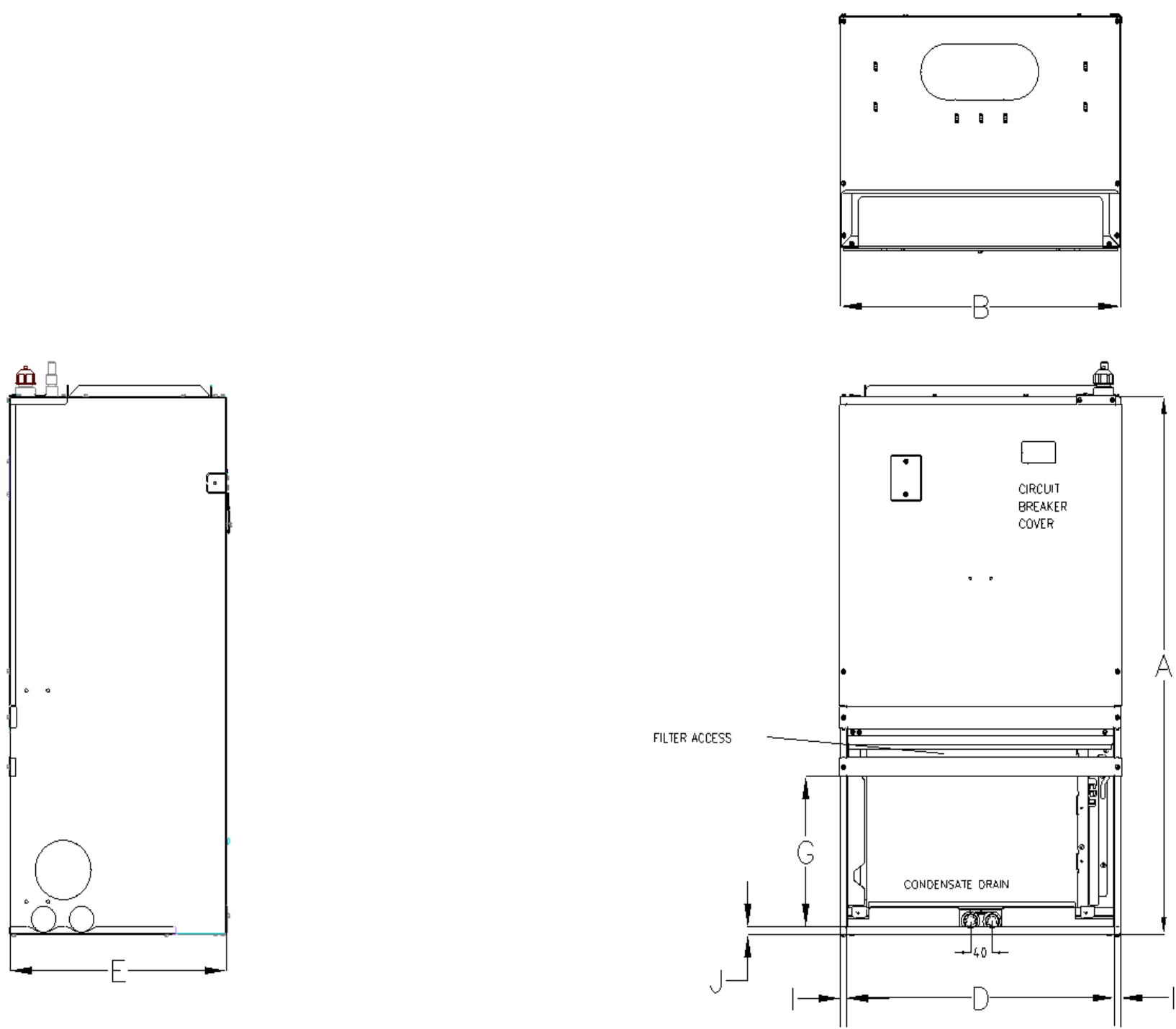
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	30000
Min/Max Capacity	10100~34400
Moisture Removal(L/h)	2.99
Standard Operating Range(°F/°C)	-25~50(-25~50)
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	31000
2. @ 47°F Min/Max Capacity	6500~31900
3. @ 17°F Rated	18200
4. @ 5°F Rated: Capacity / COP	18700/1.99
5. @ 5°F Max: Capacity	18700
Standard Operating Range(°F/°C)	-25~24(-25~24)
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 Operating at Max. Frequency	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

ELECTRICAL	
Indoor Power Supply	115/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	6
Indoor MOP	15
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	22.5
Outdoor MOP	25
Communication Wiring	AWG 20-2
Compressor RLA	17
Outdoor Fan Motor RLA	1.1
Outdoor Fan Motor W	/
Indoor Fan Motor RLA	4.5
Indoor Fan Motor W	375
System Power Input @ Cooling (W)	2727(670 ~ 3130)
System Power Input @ Heating (W)	2596(400 ~2550)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

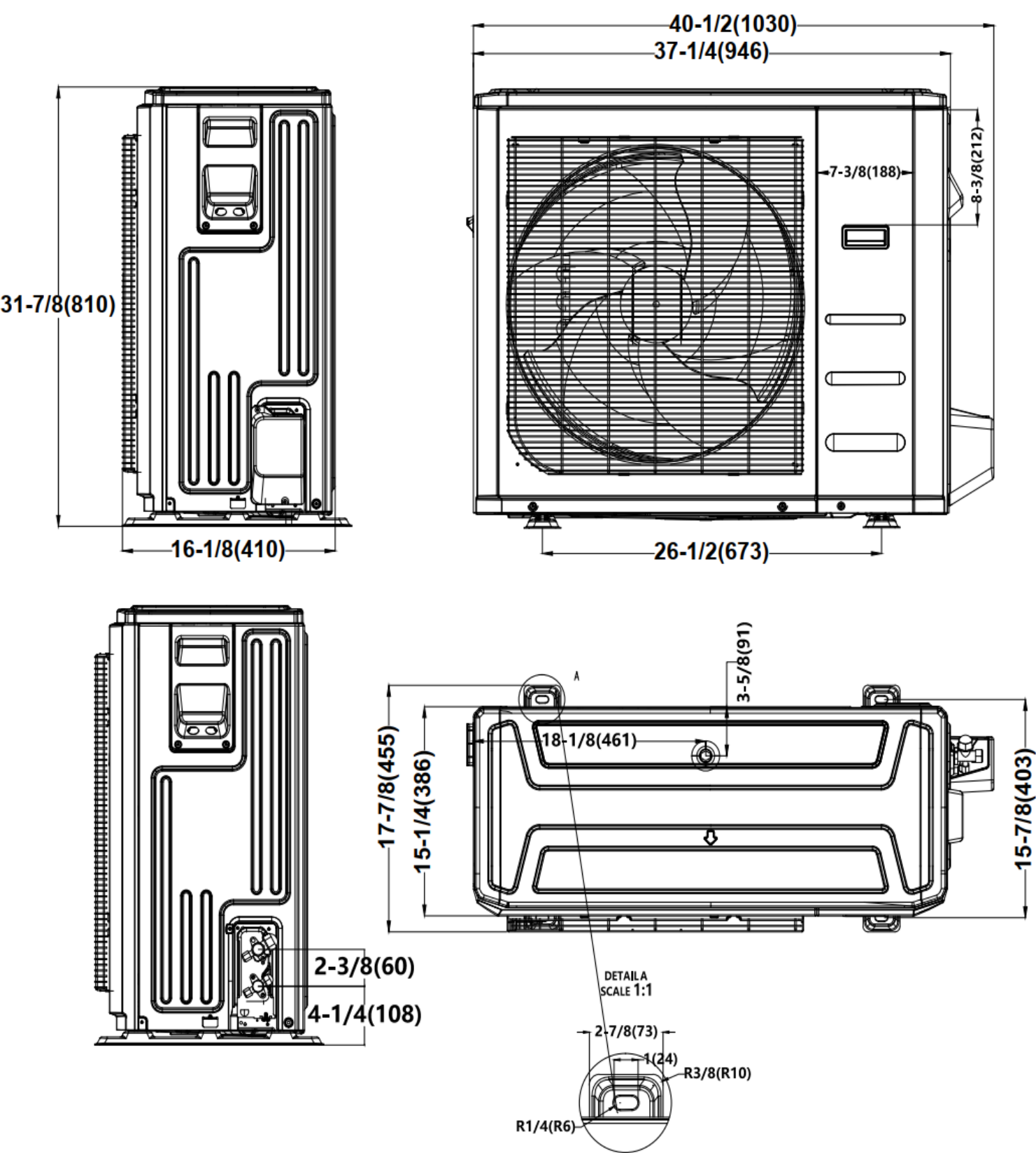
PIPING	
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	164(50)
Max. Height Difference(ft/m)	82(25)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	91.71(2.6)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.7(65)
Connection Method	Flared

Indoor Unit Dimension

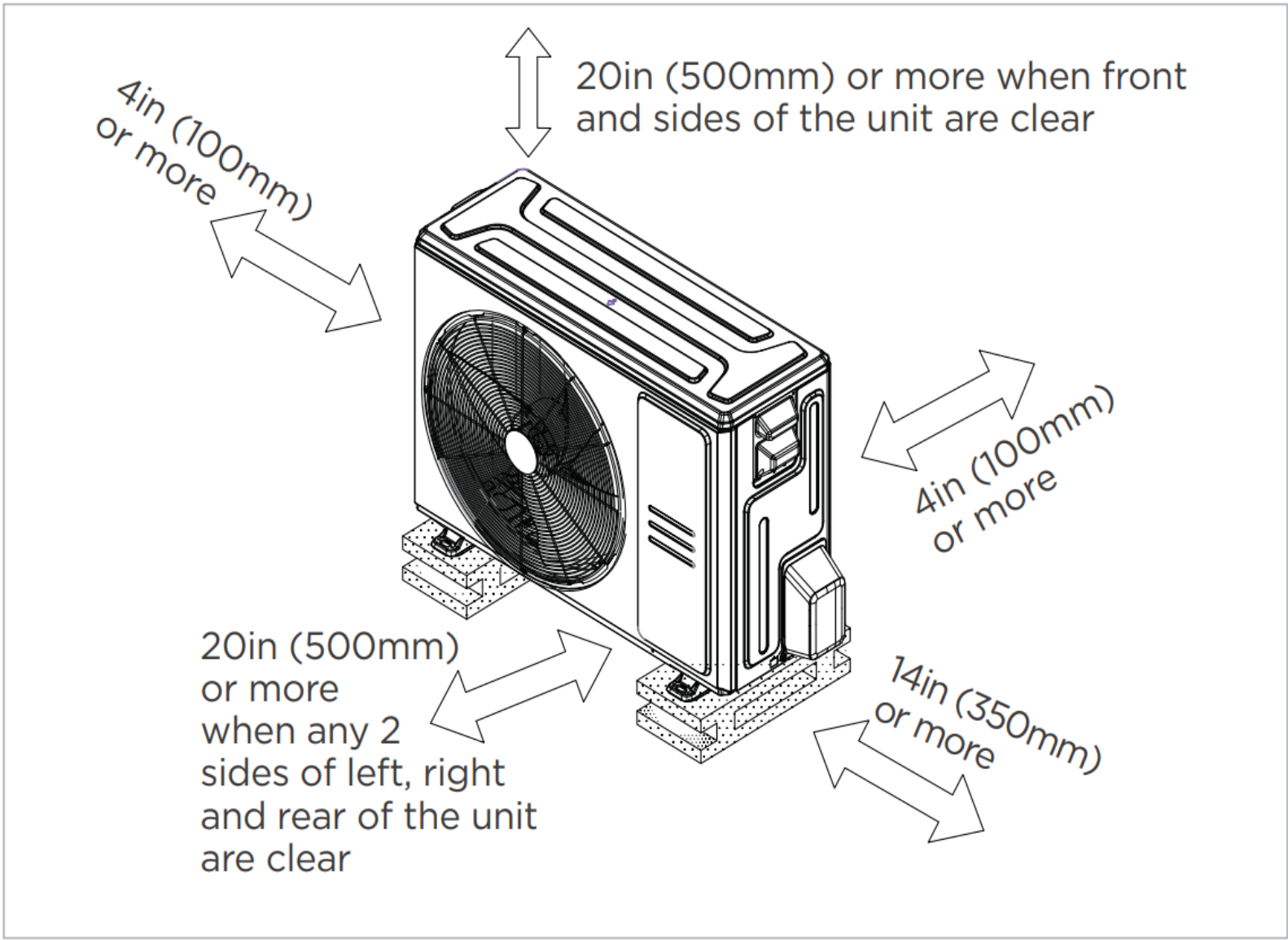


Measurement	Description	18K/24K (inch)	18K/24K (mm)	30K/36K (inch)	30K/36K (mm)
A	Model Height	36.5	928	40	1017
B	Model Width	20.3	515	22	559
C	Supply Air Opening Width	17.4	442	18.8	479
D	Return Air Opening Width	19.4	494	21.2	538
E	Model Depth	15.7	399	19	483
F	Supply Air Opening Depth	10.4	265	9.3	235
G	Return Air Opening Depth	10.3	261	13.1	333
H	Supply Air Opening Clearance	1.1	29	1.6	41
I	Return Air Opening Side Clearance	0.42	11	0.42	11
J	Return Air Opening Front Clearance	0.47	12	0.63	16

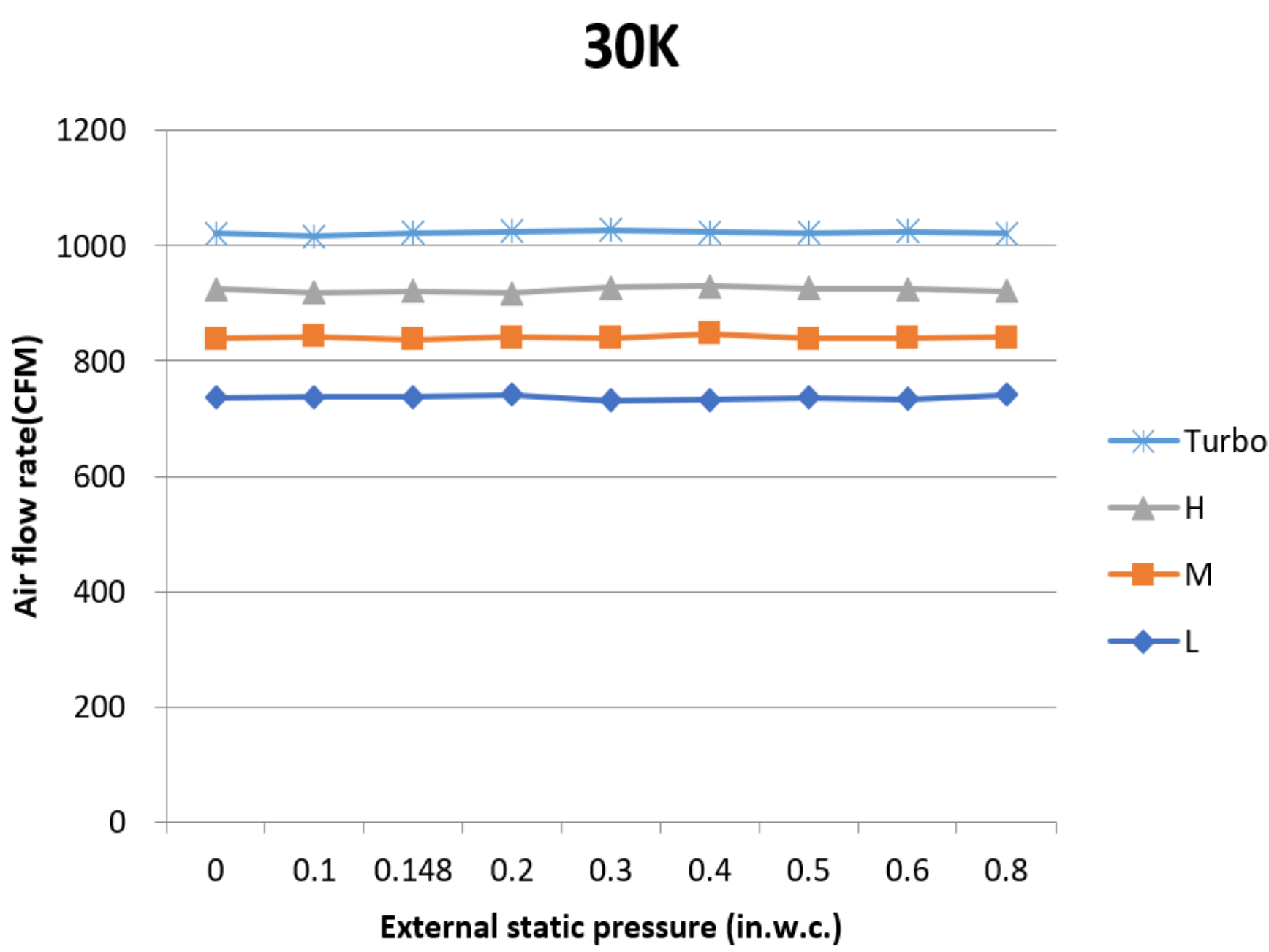
Outdoor Unit Dimension



Installation Instruction For Outdoor Unit



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



SUBMITTAL DATA SHEET

innovair®

Series Name: SLIM4 Heat Pump Series
Model Number: SOV36H2BA / SWV36BDA

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



INDOOR SPECIFICATION		
ESP(inWG)		0~0.8
Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		1189.0 / 1083.0 / 971.2 / 865.2 / /
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		//50.5/48/36.5//
Dimension (W×D×H)	inch	22.01 x 19.02 x 40.04
	mm	559×483×1017
Package (W×D×H)	inch	24.61 x 22.83 x 46.97
	mm	625×580×1193
Net/Gross Weight	lbs	109.57/130.73
	kg	49.7/59.3

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)		62
Dimension (W×D×H)	inch	37.24 x 16.14 x 31.89
	mm	946×410×810
Package (W×D×H)	inch	42.91 x 19.69 x 34.84
	mm	1090×500×885
Net/Gross Weight	lbs	153.22/163.58
	kg	69.5/74.2

EFFICIENCY			
Cooling		Heating	
SEER2	16.7	HSPF2-4	9.3
EER2	10.2	COP	3.3

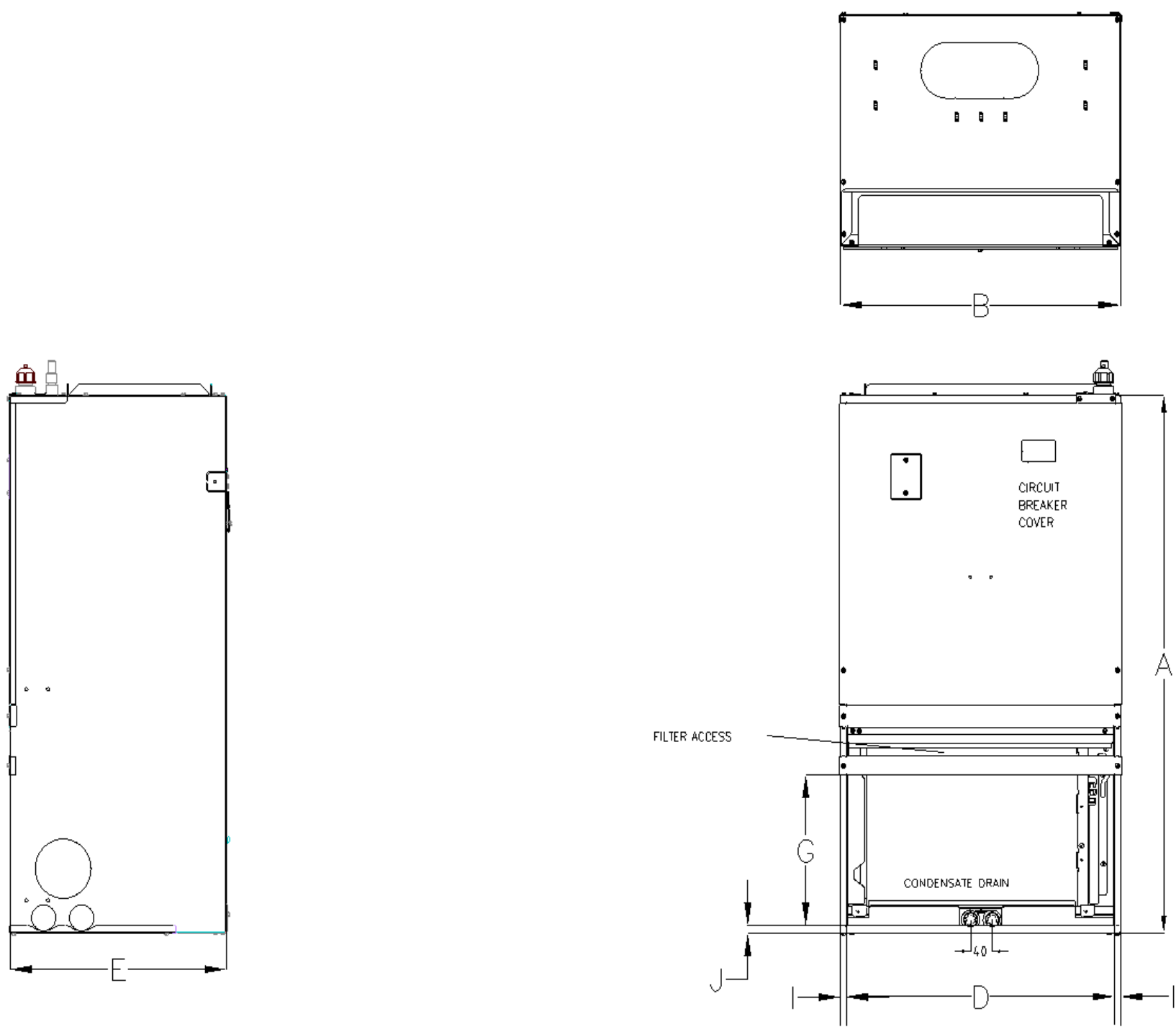
PERFORMANCE of Cooling	
Cooling (Btu/hr)	
Rated Capacity	36000
Min/Max Capacity	11800~39000
Moisture Removal(L/h)	3.37
Standard Operating Range(°F/°C)	-25~50(-25~50)
Rated Cooling Conditions:	Indoor: 80°F DB/67°F WB Outdoor: 95°F DB/75°F WB

PERFORMANCE of Heating	
Heating (Btu/hr)	
1. @ 47°F Rated	37000
2. @ 47°F Min/Max Capacity	6900~41000
3. @ 17°F Rated	24800
4. @ 5°F Rated: Capacity / COP	29200/1.99
5. @ 5°F Max: Capacity	29200
Standard Operating Range(°F/°C)	-25~24(-25~24)
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 Operating at Max. Frequency	Indoor: 70°F DB/60°F WB Outdoor: 5°F DB/5°F WB

ELECTRICAL	
Indoor Power Supply	115/208/230V,60Hz,1Ph
Indoor MCA 115V/(208/230V)	6.5
Indoor MOP	15
Outdoor Power Supply	208/230V,60Hz,1Ph
Outdoor MCA	24
Outdoor MOP	30
Communication Wiring	AWG 20-2
Compressor RLA	17.5
Outdoor Fan Motor RLA	1.5
Outdoor Fan Motor W	/
Indoor Fan Motor RLA	5
Indoor Fan Motor W	375
System Power Input @ Cooling (W)	3529(760 ~ 4090)
System Power Input @ Heating (W)	3189(490 ~3710)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

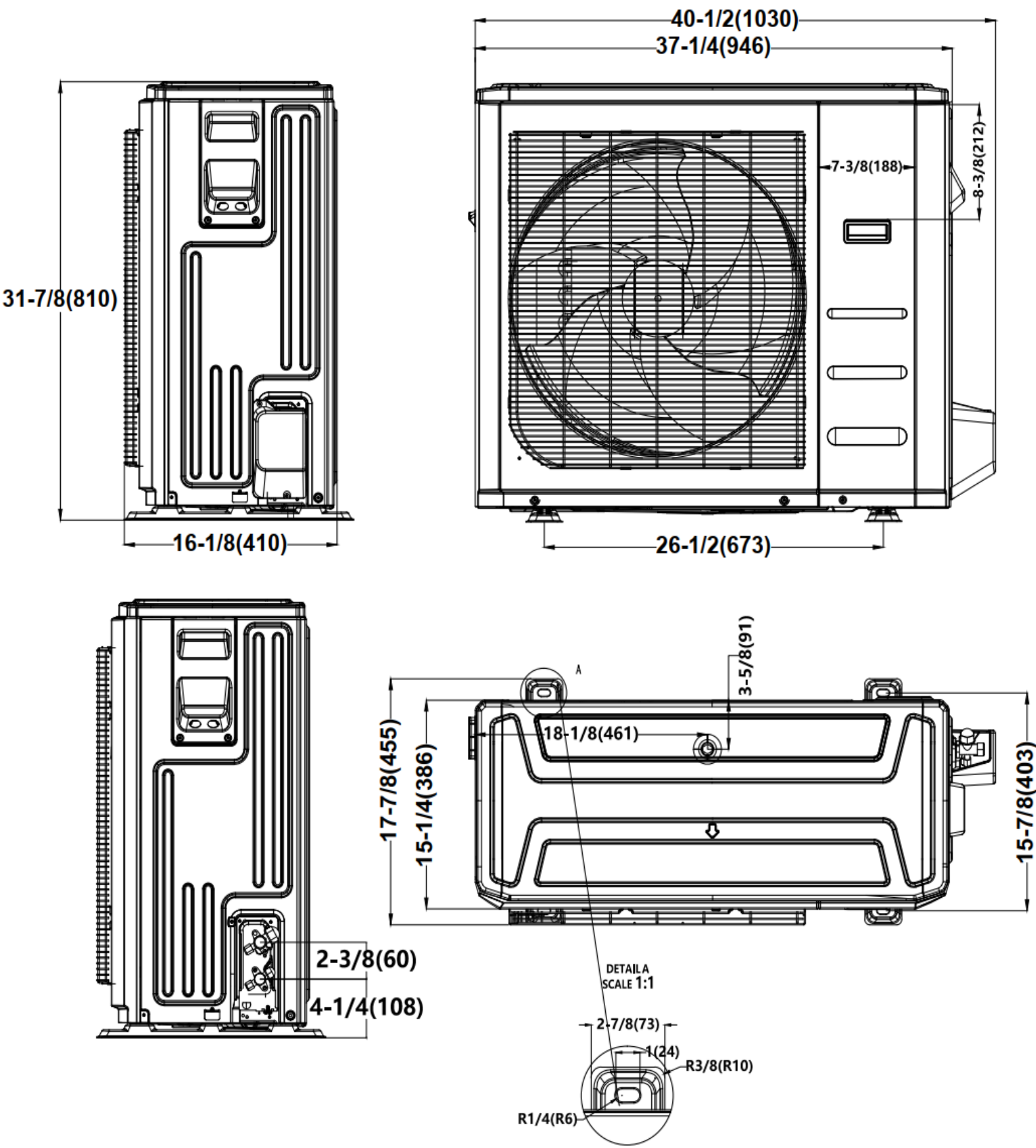
PIPING	
Throttle type(Indoor)	EXV
Throttle type(Outdoor)	EXV
Liquid Size	9.52mm(3/8in)
Gas Size	19mm(3/4in)
Max. Piping Length(ft/m)	246(75)
Max. Height Difference(ft/m)	98.40(30)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	116.40(3.3)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.7(65)
Connection Method	Flared

Indoor Unit Dimension

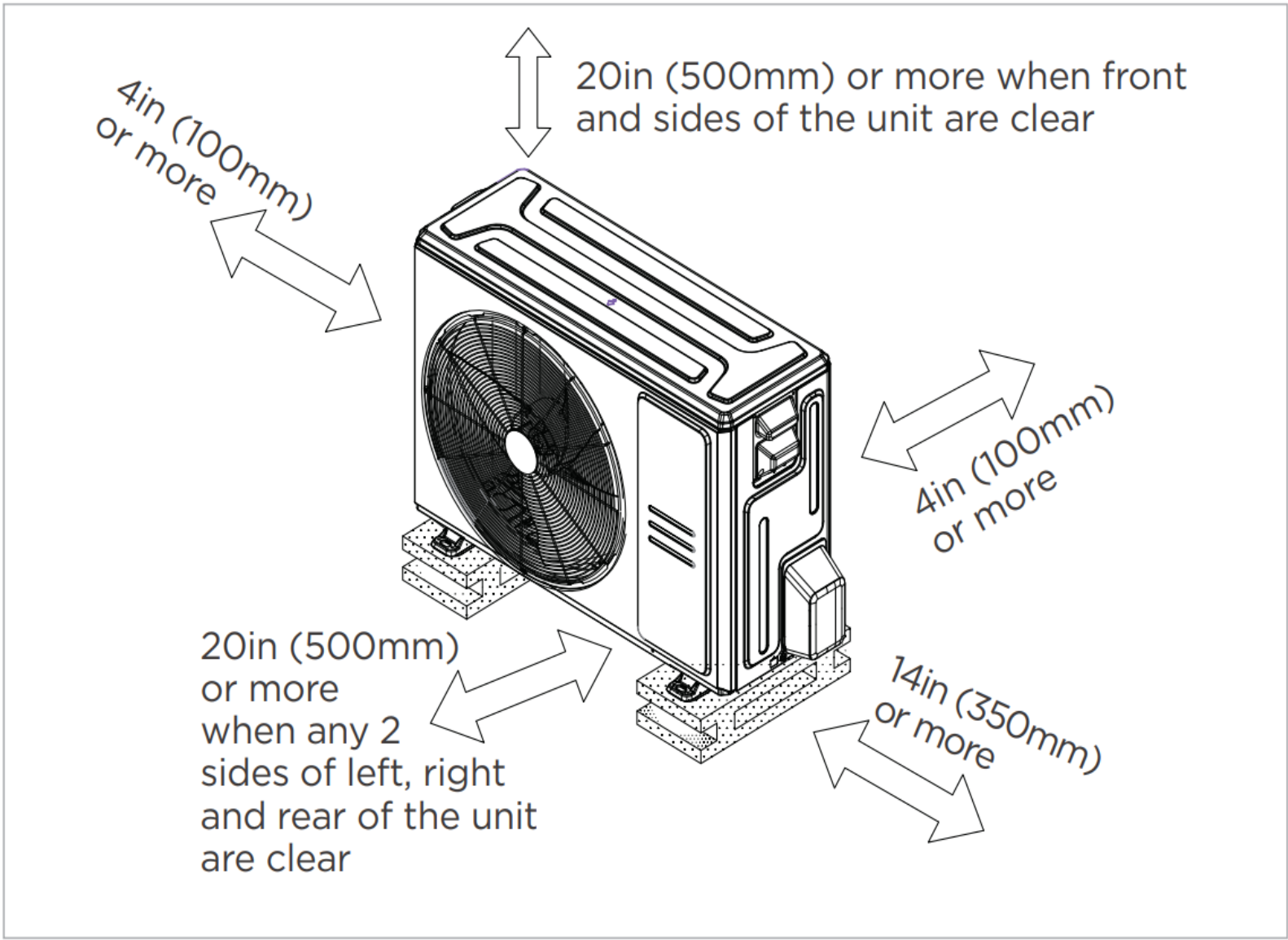


Measurement	Description	18K/24K (inch)	18K/24K (mm)	30K/36K (inch)	30K/36K (mm)
A	Model Height	36.5	928	40	1017
B	Model Width	20.3	515	22	559
C	Supply Air Opening Width	17.4	442	18.8	479
D	Return Air Opening Width	19.4	494	21.2	538
E	Model Depth	15.7	399	19	483
F	Supply Air Opening Depth	10.4	265	9.3	235
G	Return Air Opening Depth	10.3	261	13.1	333
H	Supply Air Opening Clearance	1.1	29	1.6	41
I	Return Air Opening Side Clearance	0.42	11	0.42	11
J	Return Air Opening Front Clearance	0.47	12	0.63	16

Outdoor Unit Dimension



Installation Instruction For Outdoor Unit



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

