

SUBMITTAL

Mini-Split Comfort Series



Submittal Data Sheet

Series Name: Mini-split Comfort Series 9k (115V)

Model Number: CE09H/O6S41R - CE09H/I6S41R



High Wall 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)		312.0/235.4 / 170.7 / 135.4 / 105.9
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		43.5/37.0/33.0/23.0/18.5
Dimension (W×D×H)	inch	28.70 x 7.87 x 11.50
	mm	729.0×200.0×292.0
Package (W×D×H)	inch	31.10 x 10.63 x 14.76
	mm	790×270×375
Net/Gross Weight	lbs	18.30/23.59
	kg	8.3/10.7

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		KSK103D33UEZ3
Refrigerant		R454B
Refrigerant Oil Charge(mL)		310
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1294.1
Outdoor Noise Level (dBA)		53.0
Dimension (W×D×H)	inch	30.12 x 11.93 x 21.85
	mm	765.0×303.0×555.0
Package (W×D×H)	inch	34.92 x 13.27 x 24.02
	mm	887×337×610
Net/Gross Weight	lbs	56.66/62.17
	kg	25.7/28.2

EFFICIENCY

Cooling		Heating	
SEER2	21.5	HSPF2-4	9.1
EER2	12.5	COP	3.15

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	9000
Min/Max Capacity	2900~10500
Moisture Removal(L/h)	1.0
Standard Operating Range(°F/°C)	5~122(-15~50)
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	10000
1. @ 47°F Min/Max Capacity	2400~11200
2. @ 17°F Rated	6600
3. @ 5°F Rated: Capacity / COP	7000/1.95
3. @ 5°F Max: Capacity	7000
Standard Operating Range(°F/°C)	5~75(-15~24)
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	115V,60Hz,1Ph
System MCA	18.0
Connection Wiring	14#x4
System MOCP	20
Compressor RLA	13.5
Outdoor Fan Motor RLA	0.5
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	0.3
Indoor Fan Motor W	20
System Power Input @ Cooling (W)	720(300 ~ 880)
System Power Input @ Heating (W)	930(320 ~930)
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)	Capillary
Liquid Size	6.35mm(1/4in)
Gas Size	9.52mm(3/8in)
Max. Piping Length(ft/m)	82.00(25)
Max. Height Difference(ft/m)	49.20(15)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/g)	21.52(0.61)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.16(15)
Connection Method	Flared

Submittal Data Sheet

Series Name: Mini-split Comfort Series 9k (115V)

Model Number: CE12H/O6S41R - CE12H/I6S41R



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INDOOR SPECIFICATION

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		353.2/294.3 / 235.4 / 176.6 / 129.5
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		45.0/41.0/37.0/27.5/18.5
Dimension (W×D×H)	inch	31.57 x 7.87 x 11.61
	mm	802.0×200.0×295.0
Package (W×D×H)	inch	34.45 x 11.22 x 14.96
	mm	875×285×380
Net/Gross Weight	lbs	19.40/25.57
	kg	8.8/11.6

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		KSN98D64UFZ3
Refrigerant		R454B
Refrigerant Oil Charge(mL)		300
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1235.3
Outdoor Noise Level (dBA)		52.5
Dimension (W×D×H)	inch	30.12 x 11.93 x 21.85
	mm	765.0×303.0×555.0
Package (W×D×H)	inch	34.92 x 13.27 x 24.02
	mm	887×337×610
Net/Gross Weight	lbs	61.29/67.02
	kg	27.8/30.4

EFFICIENCY

Cooling		Heating	
SEER2	21.3	HSPF2-4	8.7
EER2	10.0	COP	3.15

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	12000
Min/Max Capacity	3800~12600
Moisture Removal(L/h)	1.3
Standard Operating Range(°F/°C)	5~122(-15~50)
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	12000
1. @ 47°F Min/Max Capacity	2730~12500
2. @ 17°F Rated	7800
3. @ 5°F Rated: Capacity / COP	7000/1.85
3. @ 5°F Max: Capacity	7000
Standard Operating Range(°F/°C)	5~75(-15~24)
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	115V,60Hz,1Ph
System MCA	19.0
Connection Wiring	14#x4
System MOCP	20
Compressor RLA	14.0
Outdoor Fan Motor RLA	0.6
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	0.6
Indoor Fan Motor W	20
System Power Input @ Cooling (W)	1200(400 ~ 1280)
System Power Input @ Heating (W)	1116(320 ~1180)
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)	Capillary
Liquid Size	6.35mm(1/4in)
Gas Size	9.52mm(3/8in)
Max. Piping Length(ft/m)	82.00(25)
Max. Height Difference(ft/m)	49.20(15)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/g)	24.34(0.69)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.16(15)
Connection Method	Flared

Submittal Data Sheet

Series Name: Mini-split Comfort Series

Model Number: CE09H/O6S41P - CE09H/I6S41P



High Wall Heat Pump System

Location:	Approval:
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INDOOR SPECIFICATION

Indoor Air Flow (Turbo/H/M/L/Si) (CFM)		306.1 / 247.2 / 176.6 / 141.3 / N/A
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		43.0/38.5/33.0/24.0/19.5
Dimension (W×D×H)	inch	28.70 x 7.87 x 11.50
	mm	729.0×200.0×292.0
Package (W×D×H)	inch	31.10 x 10.63 x 14.76
	mm	790×270×375
Net/Gross Weight	lbs	18.08/23.15
	kg	8.2/10.5

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		KSK103D33UEZ3
Refrigerant		R454B
Refrigerant Oil Charge(mL)		310
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1294.1
Outdoor Noise Level (dBA)		53.5
Dimension (W×D×H)	inch	30.12 x 11.93 x 21.85
	mm	765.0×303.0×555.0
Package (W×D×H)	inch	34.92 x 13.27 x 24.02
	mm	887×337×610
Net/Gross Weight	lbs	54.23/59.74
	kg	24.6/27.1

EFFICIENCY

Cooling		Heating	
SEER2	21.6	HSPF2-4	9.4
EER2	12.6	COP	3.27

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	9000
Min/Max Capacity	2900~10500
Moisture Removal(L/h)	0.9
Standard Operating Range(°F/°C)	5~122(-15~50)
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	10000
1. @ 47°F Min/Max Capacity	2400~11200
2. @ 17°F Rated	6600
3. @ 5°F Rated: Capacity / COP	7000/2.00
3. @ 5°F Max: Capacity	7000
Standard Operating Range(°F/°C)	5~75(-15~24)
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	12.0
Connection Wiring	14#x4
System MOCP	15
Compressor RLA	7.0
Outdoor Fan Motor RLA	0.3
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	0.3
Indoor Fan Motor W	20
System Power Input @ Cooling (W)	714(300 ~ 880)
System Power Input @ Heating (W)	896(320 ~ 1100)
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)	Capillary
Liquid Size	6.35mm(1/4in)
Gas Size	9.52mm(3/8in)
Max. Piping Length(ft/m)	82.00(25)
Max. Height Difference(ft/m)	49.20(15)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/g)	21.52(0.61)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.16(15)
Connection Method	Flared

Submittal Data Sheet

Series Name: Mini-split Comfort Series

Model Number: CE12H/O6S41P - CE12H/I6S41P



High Wall 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)	347.3 / 294.3 / 194.2 / 153.0 / /
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	46/41/35/24/18.5
Dimension (W×D×H)	inch 31.57 x 7.87 x 11.61
	mm 802.0×200.0×295.0
Package (W×D×H)	inch 34.45 x 11.22 x 14.96
	mm 875×285×380
	lbs 18.96/25.13
Net/Gross Weight	kg 8.6/11.4

OUTDOOR SPECIFICATION

Compressor Type	ROTARY
Compressor Model	KSN98D64UFZ3
Refrigerant	R454B
Refrigerant Oil Charge(mL)	300
Refrigerant Oil	VG74
Outdoor Air Flow (Max) (CFM)	1235.3
Outdoor Noise Level (dBA)	53.0
Dimension (W×D×H)	inch 30.12 x 11.93 x 21.85
	mm 765.0×303.0×555.0
Package (W×D×H)	inch 34.92 x 13.27 x 24.02
	mm 887×337×610
	lbs 59.08/64.37
Net/Gross Weight	kg 26.8/29.2

EFFICIENCY

Cooling	Heating
SEER2	21.3
EER2	10.8
HSPF2-4	9.2
COP	3.34

PERFORMANCE of Cooling

Cooling (Btu/hr)

Rated Capacity	12000
Min/Max Capacity	2700~13800
Moisture Removal(L/h)	1.4
Standard Operating Range(°F/°C)	5~122(-15~50)
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	12000
1. @ 47°F Min/Max Capacity	4200~14100
2. @ 17°F Rated	8300
3. @ 5°F Rated: Capacity / COP	8000/1.80
3. @ 5°F Max: Capacity	8000
Standard Operating Range(°F/°C)	5~75(-15~24)
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	13.0
Connection Wiring	14#x4
System MOCP	15
Compressor RLA	7.5
Outdoor Fan Motor RLA	0.4
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	0.4
Indoor Fan Motor W	30
System Power Input @ Cooling (W)	1111(220 ~ 1430)
System Power Input @ Heating (W)	1053(235 ~1310)
MCA: Min. circuit amps (A)	
RLA: Rated load amps (A)	
MOCP: Max. over current protection (A)	
W: Fan motor rated output (W)	

PIPING

Throttle type(Indoor)	N/A
Throttle type(Outdoor)	Capillary
Liquid Size	6.35mm(1/4in)
Gas Size	9.52mm(3/8in)
Max. Piping Length(ft/m)	82.00(25)
Max. Height Difference(ft/m)	49.20(15)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/g)	24.69(0.7)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.16(15)
Connection Method	Flared

Submittal Data Sheet

Series Name: Mini-split Comfort Series

Model Number: CE18H/O6S41P - CE18H/I6S41P



High Wall 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)		470.9 / 400.2 / 329.6 / 270.8 / /
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		49.0/45/38/23/19
Dimension (W×D×H)	inch	38.23 x 8.98 x 12.64
	mm	971.0×228.0×321.0
Package (W×D×H)	inch	41.14 x 12.01 x 15.94
	mm	1045×305×405
Net/Gross Weight	lbs	25.35/32.85
	kg	11.5/14.9

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		KSN140D21UFZ
Refrigerant		R454B
Refrigerant Oil Charge(mL)		440
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1235.3
Outdoor Noise Level (dBA)		58.0
Dimension (W×D×H)	inch	31.69 x 12.99 x 21.81
	mm	805.0×330.0×554.0
Package (W×D×H)	inch	36.02 x 14.57 x 24.21
	mm	915×370×615
Net/Gross Weight	lbs	72.31/78.48
	kg	32.8/35.6

EFFICIENCY

Cooling		Heating	
SEER2	20.2	HSPF2-4	9.1
EER2	11.5	COP	3.08

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	18000
Min/Max Capacity	2600~18600
Moisture Removal(L/h)	2.5
Standard Operating Range(°F/°C)	5~122(-15~50)
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	18800
1. @ 47°F Min/Max Capacity	6100~19200
2. @ 17°F Rated	11700
3. @ 5°F Rated: Capacity / COP	11500/2.00
3. @ 5°F Max: Capacity	11500
Standard Operating Range(°F/°C)	5~75(-15~24)
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	15.0
Connection Wiring	14#x4
System MOCP	20
Compressor RLA	10.0
Outdoor Fan Motor RLA	0.4
Outdoor Fan Motor W	34
Indoor Fan Motor RLA	0.5
Indoor Fan Motor W	30
System Power Input @ Cooling (W)	1565(280 ~ 1680)
System Power Input @ Heating (W)	1790(365 ~2010)
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)	Capillary
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/g)	40.57(1.15)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.16(15)
Connection Method	Flared

Submittal Data Sheet

Series Name: Mini-split Comfort Series

Model Number: CE24H/O6S41P - CE24H/I6S41P



High Wall 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)		729.9 / 547.4 / 400.2 / 329.6 / /
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		54.0/46/41.0/28/22
Dimension (W×D×H)	inch	42.60 x 9.21 x 13.27
	mm	1082.0×234.0×337.0
Package (W×D×H)	inch	45.47 x 16.34 x 12.40
	mm	1155×415×315
	lbs	30.64/39.68
Net/Gross Weight	kg	13.9/18.0

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Compressor Model		KTM240D46UKT2
Refrigerant		R454B
Refrigerant Oil Charge(mL)		620
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		1764.7
Outdoor Noise Level (dBA)		62.0
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
	lbs	94.58/102.29
Net/Gross Weight	kg	42.9/46.4

EFFICIENCY

Cooling		Heating	
SEER2	18.5	HSPF2-4	9.0
EER2	9.6	COP	3.22

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	24000
Min/Max Capacity	6200~24700
Moisture Removal(L/h)	3.0
Standard Operating Range(°F/°C)	5~122(-15~50)
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	25000
1. @ 47°F Min/Max Capacity	11900~27200
2. @ 17°F Rated	17200
3. @ 5°F Rated: Capacity / COP	22000/1.97
3. @ 5°F Max: Capacity	22000
Standard Operating Range(°F/°C)	5~75(-15~24)
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	19.0
Connection Wiring	14#x4
System MOCP	20
Compressor RLA	13.8
Outdoor Fan Motor RLA	0.8
Outdoor Fan Motor W	80
Indoor Fan Motor RLA	0.6
Indoor Fan Motor W	58
System Power Input @ Cooling (W)	2474(290 ~ 2630)
System Power Input @ Heating (W)	2275(970 ~ 2770)
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

PIPING

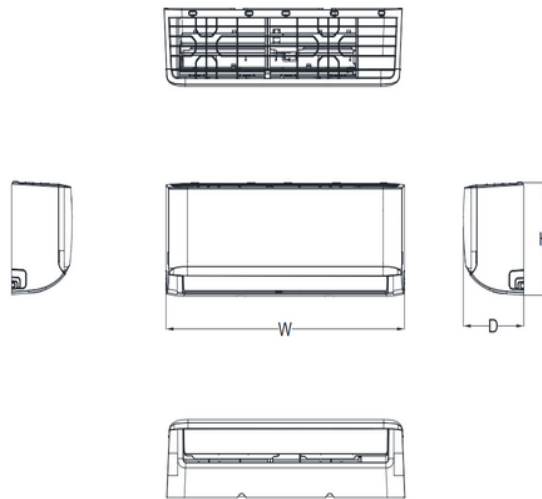
Throttle type(Indoor)	N/A
Throttle type(Outdoor)	Throttle valve
Liquid Size	9.52mm(3/8in)
Gas Size	15.9mm(5/8in)
Max. Piping Length(ft/m)	164.00(50)
Max. Height Difference(ft/m)	82.00(25)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/g)	53.62(1.52)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.32(30)
Connection Method	Flared

SUBMITTAL

Dimensions & Installation Manual

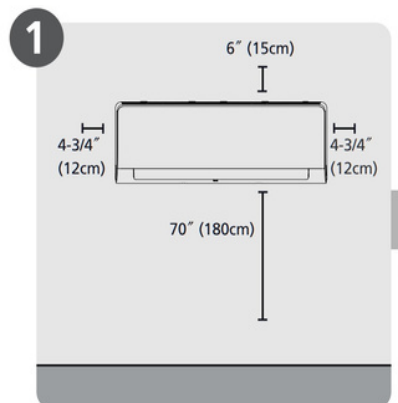


Indoor Unit Dimension

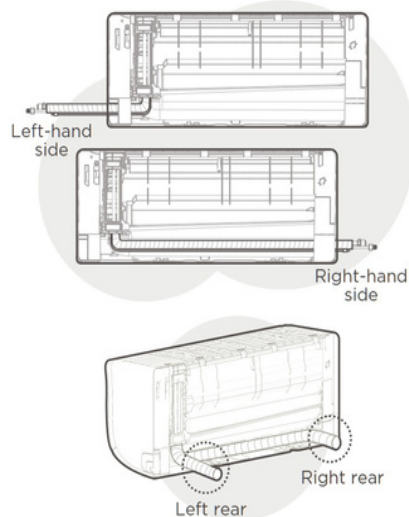


Capacity	Body Code	W(inch/mm)	D(mm/inch)	H(mm/inch)
6K~9K	A	28-3/4in /729mm	7-7/8in /200mm	11-1/2in /292mm
9K~12K	B	31-5/8in /802mm	7-7/8in /200mm	11-5/8in /295mm
18K	C	38-1/4in /971mm	9in/228mm	12-5/8in /321mm
18K~24K	D	42-5/8in /1082mm	9-1/4in/234mm	13-1/4in /337mm
30K~36K	F	49-5/8in /1259mm	11-1/8in/283mm	14-1/4in /362mm

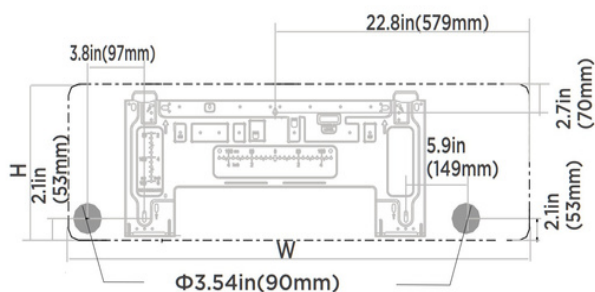
Installation Instruction



Select Installation Location



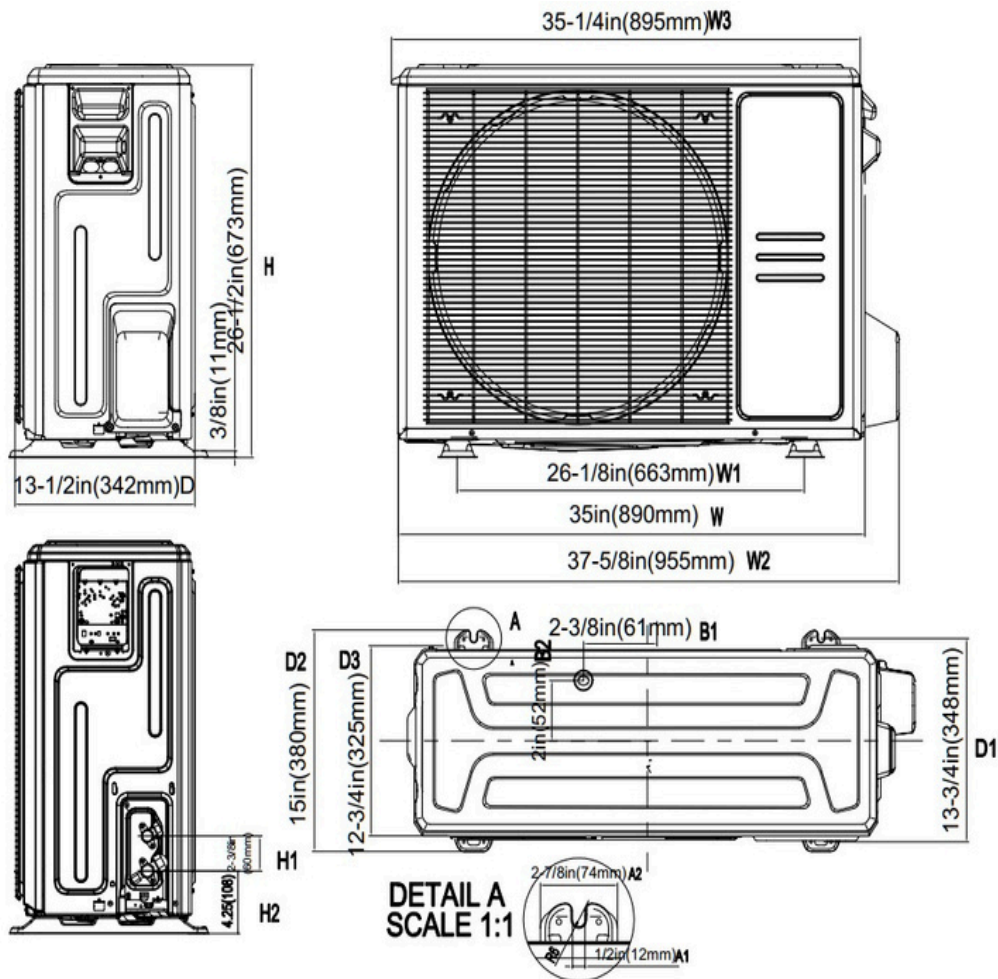
NOTE:
Based on the position of the wall hole relative to the mounting plate, choose the side from which the piping will exit the unit. You have four options for the exit direction of



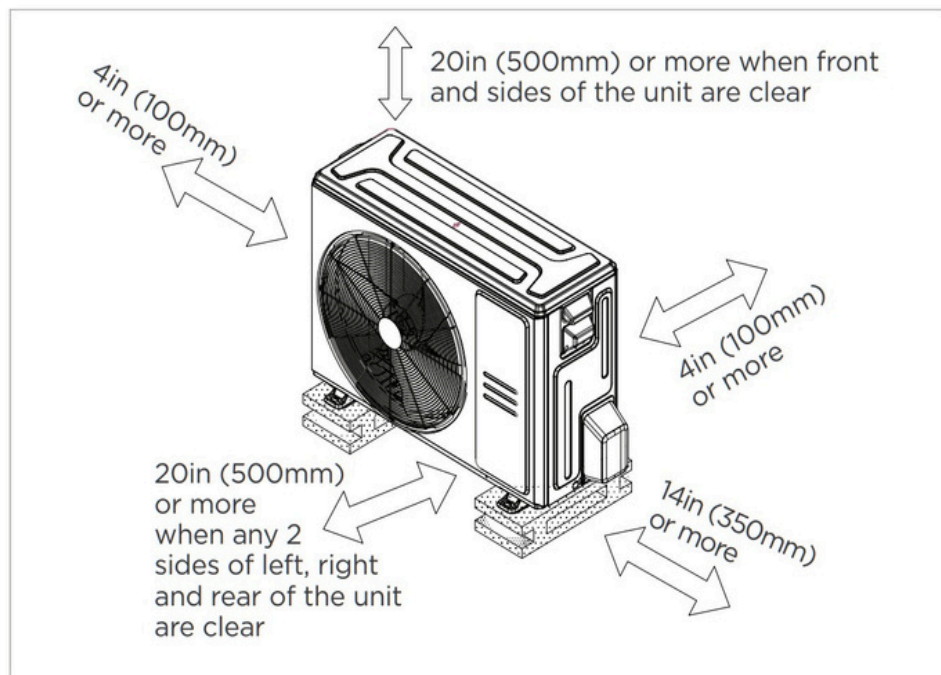
Indoor unit dimensions(WxH):
42.6in(1082mm)x13.3(338mm)

NOTE:
When the gas side connective pipe is Φ (5/8in)16mm or more, the wall hole should be (3-1/2in)90mm.

Outdoor Unit Dimension



Installation Instruction



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

FEATURES

- Indoor unit TU1 copper coil
- Humidity control
- 1~100% fan speed setting
- WiFi capability: through WiFi dongle or wired controller with built-in WiFi
- OTA(by using WiFi dongle)
- Multiple control options available:
 - Two way communication wired controller:120N(X6)
 - Two way communication wired controller with built-in WiFi:120N(X6W)
 - Infrared wired controller: 120L
 - Wireless remote controller
 - Third-Party 24V Thermostat*