

SUBMITTAL DATA

Job Name:	Location:
Engineer:	Drawing #:
Submitted to:	Reference ☐ Approval ☐ Construction ☐

SET MODEL

Indoor unit model:	IUMW109H/I41P
Outdoor unit model:	OUS09H/O4S4P

Certifications:



Electrical Specification

Power supply

Normal Operational Voltage	(V, Ph, Hz)	208/230,1,60
Voltage Range	(V)	187~253

SYSTEM PERFORMANCE DATA

Cooling*

Capacity Rated (Range)	(Btu/h)	9000(2500~11900)
Power Input Rated (Range)	(W)	600(155~985)
Current Rated (Range)	(A)	2.61(0.67~4.28)
SEER	(Btu/W)	25.5
EER	(Btu/W)	15
Cooling at 5 F (-15°C)	(Btu/h)	12000

Heating*

Capacity Rated (Range)	(Btu/h)	10000(3400~13000)
Power Input Rated (Range)	(W)	742(198~1500)
Current Rated (Range)	(A)	3.23(1.64~5.25)
COP	W/W	3.95
HSPF 4	(Btu/W)	12.3
HSPF 5	(Btu/W)	9.2
Heating at 17°F (-8.3 °C)	(Btu/h)	10300
Heating at -4°F (-20°C)	(Btu/h)	6400
COP at -4°F (-20°C)	W/W	1.92

REFRIGERANT PIPING DATA

Throttle Type	EXV
Design Pressure	(PSIG) 550/340
Refrigerant Type/Charge	(kg) R410A / 1.08
	(oz) 38.1
Additional Charge For Each ft	(oz/ft) 0.16
Additional Charge For Each m	(g/m) 15

Liquid Side/ Gas Side	(inch) 1/4"/3/8"
	(mm) 6.35/9.52
Max. pipe length	(ft) 82.02
	(m) 25
Max. difference in level	(ft) 32.81
	(m) 10

INDOOR UNIT DATA

Indoor Fan Motor

Qty	1
Output	(W) 20
Speed(Hi/Mi/Lo)	(r/min) 1100/850/700

Air flow & Noise level & Moisture

Indoor Air Flow (Turbo/Hi/Med/Lo)	(CFM) 382.35/335.29/229.41/176.47
Indoor Noise Level (Hi/Med/Lo)	(dB) 38/34/23
Moisture removal	(L/h) 0.375

Electrical

Minimum Circuit Ampacity	(A) 3
Max. Fuse	(A) 15

Indoor unit

Dimension (WxDxH)	(inch) 33.40x9.18x11.76
	(mm) 25
Packing(WxDxH)	(inch) 36.22x12.20x14.57
	(mm) 920x310x370
Net/Gross weight	(lbs.) 22.71/28.88
	(kg) 10.3/13.1

Operating Temperature Range

Cooling/ Heating	(Deg. °F) 60~90 / 32~86
	(Deg. °C) 16~32 / 0~30

OUTDOOR UNIT DATA

Compressor

Type	ROTARY
Capacity	(Btu/h) 3255
Input	(W) 826
Refrigerant Oil/Oil Charge	(ml) ESTER OIL VG74 310

Outdoor fan motor

Qty	1
Output	(W) 34
Speed	(r/min) 800/600

Electrical

Minimum Circuit Ampacity	(A) 13
Max. Fuse	(A) 15

Air flow & Noise level

Outdoor Air Flow (Max.)	(CFM) 1294
Outdoor Noise Level	(dB) 53

Outdoor unit

Dimension (W×D×H)	(inch) 30.12x11.93x21.85
	(mm) 765x303x555
Packing (W×D×H)	(inch) 34.92x13.27x24.02
	(mm) 887x337x610
Net/ Gross weight	(lbs.) 63.71/69.00
	(kg) 28.9/31.3

Operating Temperature Range

Cooling/ Heating	(Deg. °F) 10.3/13.1 / 10.3/13.1
	(Deg. °C) -13~-122 / -13~-75

ACCESSORIES

Standard Wired Controller (Optional)

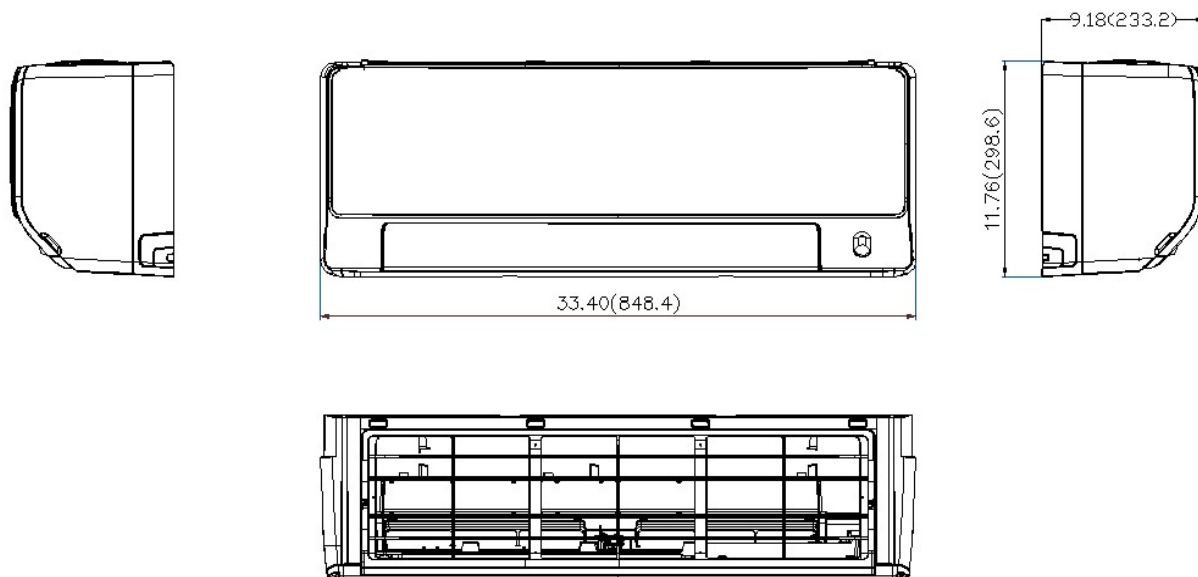
*Rating Conditions per AHRI Standard:

Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB
Cooling | Outdoor: 95° F (35° C) DB / 23.9° C (75° F) WB

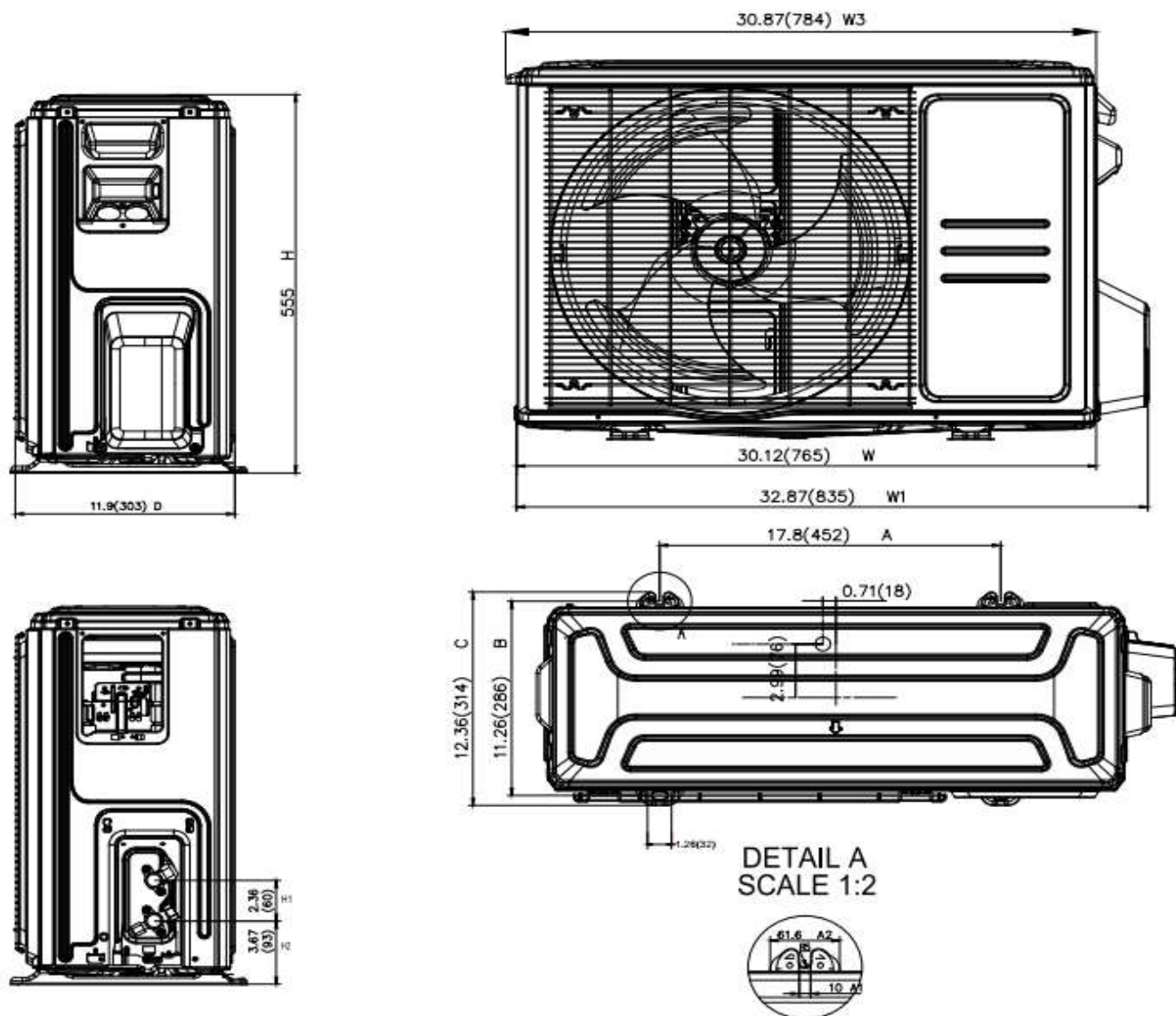
Heating at 47° F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB
Heating at 47° F | Outdoor: 47° F (8° C) DB / 43° F (6° C) WB

Heating at 17° F | Indoor: 70° F (21° C) DB
Heating at 17° F | Outdoor: 17° F (-8° C) DB / 15° F (-9° C) WB

INDOOR UNIT DIMENSION



OUTDOOR UNIT DIMENSION



SUBMITTAL DATA

Job Name:	Location:
Engineer:	Drawing #:
Submitted to:	Reference ☐ Approval ☐ Construction ☐

SET MODEL

Indoor unit model:	IS12H/I4S41R
Outdoor unit model:	IS12H/O4S41R

Certifications:



Electrical Specification

Power supply

Normal Operational Voltage	(V, Ph, Hz)	115,160
Voltage Range	(V)	103.5-126.5

SYSTEM PERFORMANCE DATA

Cooling*

Capacity Rated (Range)	(Btu/h)	12000(3500-13200)
Power Input Rated (Range)	(W)	923(75-930)
Current Rated (Range)	(A)	8(1.4-9.9)
SEER	(Btu/W)	23.5
EER	(Btu/W)	13
Cooling at 5 F (-15°C)	(Btu/h)	12000

Heating*

Capacity Rated (Range)	(Btu/h)	12000(5000-12200)
Power Input Rated (Range)	(W)	1000(280-960)
Current Rated (Range)	(A)	8.7(3.2-10.2)
COP	W/W	3.52
HSPF 4	(Btu/W)	9.9
HSPF 5	(Btu/W)	7.4
Heating at 17°F(-8.3 °C)	(Btu/h)	9100
Heating at -4F(-20°C)	(Btu/h)	5700
COP at -4F(-20°C)	W/W	1.87

REFRIGERANT PIPING DATA

Throttle Type		EXV	Liquid Side/ Gas Side	(inch)	1/4"/1/2"
Design Pressure	(PSIG)	550/340		(mm)	6.35/12.7
Refrigerant Type/Charge	(kg)	R410A / 1.12	Max. pipe length	(ft)	82.02
	(oz)	39.5		(m)	25
Additional Charge For Each ft	(oz/ft)	0.16	Max. difference in level	(ft)	32.81
Additional Charge For Each m	(g/m)	15		(m)	10

INDOOR UNIT DATA

Indoor Fan Motor

Qty		1
Output	(W)	20
Speed(Hi/Mi/Lo)	(r/min)	1200/910/720

Air flow & Noise level & Moisture

Indoor Air Flow (Turbo/Hi/Med/Lo)	(CFM)	411.76/352.94/294.12/235.29
Indoor Noise Level (Hi/Med/Lo)	(dB)	40.5/35/23.5
Moisture removal	(L/h)	1.16

Electrical

Minimum Circuit Ampacity	(A)	3
Max. Fuse	(A)	15

Indoor unit

Dimension (WxDxH)	(inch)	33.40x9.18x11.76
	(mm)	25
Packing(WxDxH)	(inch)	36.22x12.20x14.57
	(mm)	920x310x370
Net/Gross weight	(lbs.)	22.71/28.88
	(kg)	10.3/13.1

Operating Temperature Range

Cooling/ Heating	(Deg. °F)	60~90 / 32~86
	(Deg. °C)	16~32 / 0~30

OUTDOOR UNIT DATA

Compressor

Type		ROTARY
Capacity	(Btu/h)	3255
Input	(W)	826
Refrigerant Oil/Oil Charge	(ml)	ESTER OIL VG74 310

Outdoor fan motor

Qty		1
Output	(W)	34
Speed	(r/min)	850/600

Electrical

Minimum Circuit Ampacity	(A)	19
Max. Fuse	(A)	25

Air flow & Noise level

Outdoor Air Flow (Max.)	(CFM)	794
Outdoor Noise Level	(dB)	54

Outdoor unit

Dimension (W×D×H)	(inch)	30.12x11.93x21.85
	(mm)	765x303x555
Packing (W×D×H)	(inch)	34.92x13.27x24.02
	(mm)	887x337x610
Net/ Gross weight	(lbs.)	66.80/72.31
	(kg)	30.3/32.8

Operating Temperature Range

Cooling/ Heating	(Deg. °F)	10.3/13.1 / 10.3/13.1
	(Deg. °C)	-13~122 / -13~75

ACCESSORIES

Standard Wired Controller (Optional)

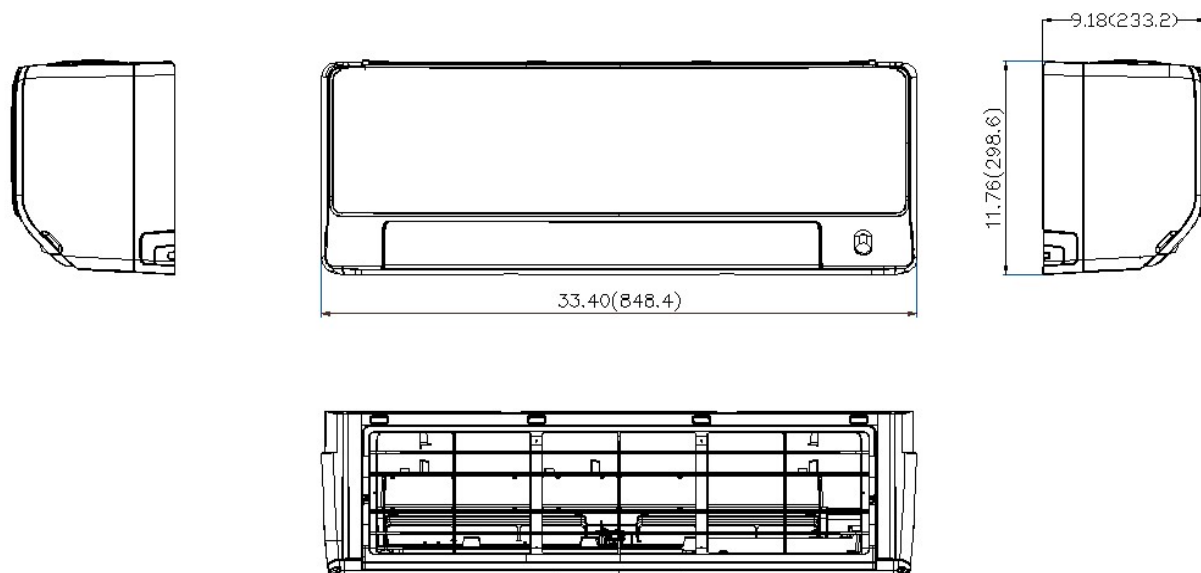
*Rating Conditions per AHRI Standard:

Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB
Cooling | Outdoor: 95° F (35° C) DB / 73.9° F (23.3° C) WB

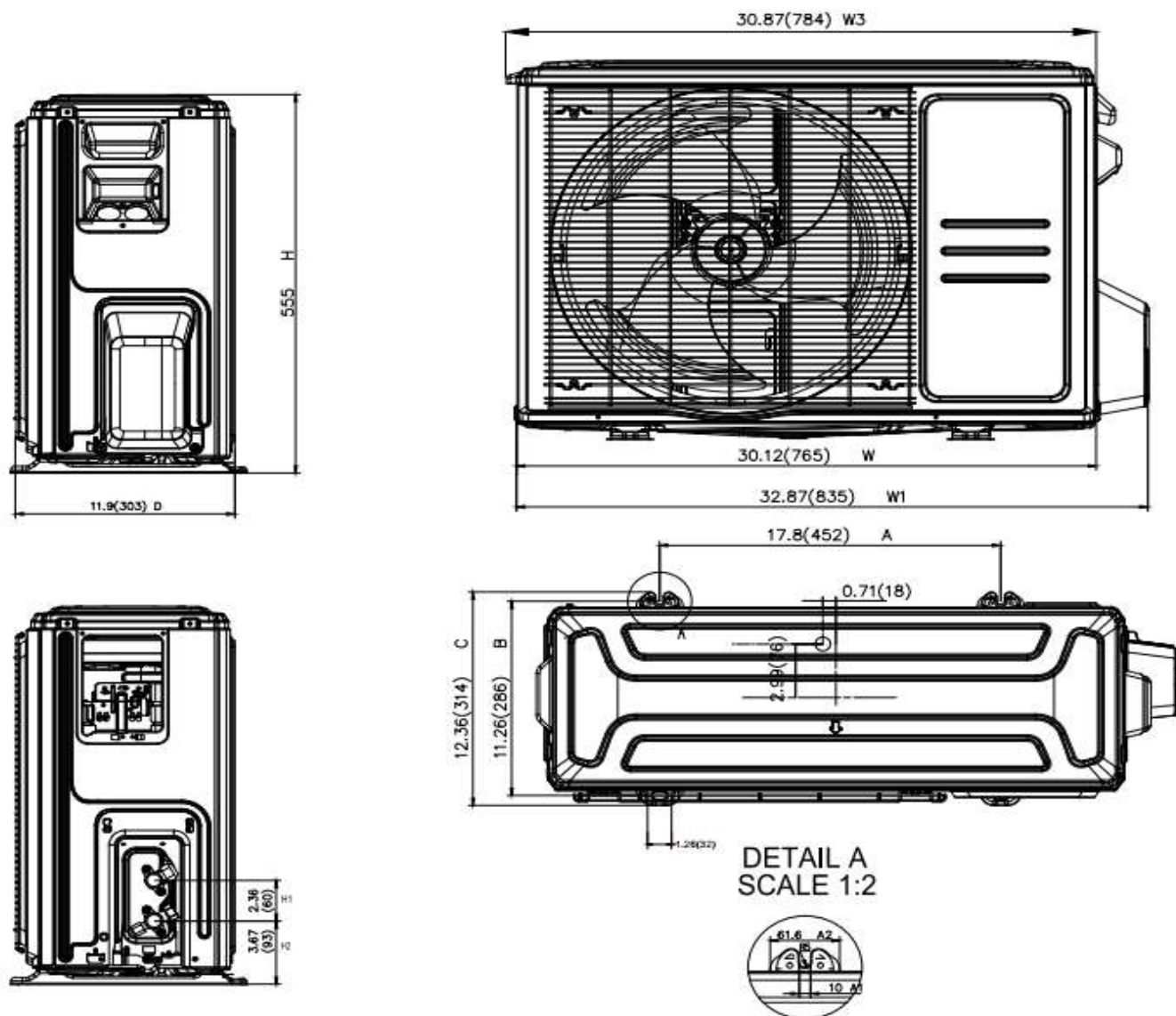
Heating at 47° F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB
Heating at 47° F | Outdoor: 47° F (8° C) DB / 43° F (6° C) WB

Heating at 17° F | Indoor: 70° F (21° C) DB
Heating at 17° F | Outdoor: 17° F (-8° C) DB / 15° F (-9° C) WB

INDOOR UNIT DIMENSION



OUTDOOR UNIT DIMENSION



SUBMITTAL DATA

Job Name:	Location:
Engineer:	Drawing #:
Submitted to:	Reference ☐ Approval ☐ Construction ☐

SET MODEL

Indoor unit model:	IUMW112H/I41P
Outdoor unit model:	OUS12H/O4S4P

Certifications:



Electrical Specification

Power supply		
Normal Operational Voltage	(V, Ph, Hz)	208/230,1,60
Voltage Range	(V)	187~253

SYSTEM PERFORMANCE DATA

Cooling*		
Capacity Rated (Range)	(Btu/h)	12000(3600~13300)
Power Input Rated (Range)	(W)	880(198~1200)
Current Rated (Range)	(A)	3.82(0.86~5.21)
SEER	(Btu/W)	24.6
EER	(Btu/W)	13.7
Cooling at 5 F (-15°C)	(Btu/h)	12000

Heating*		
Capacity Rated (Range)	(Btu/h)	12000(4500~13500)
Power Input Rated (Range)	(W)	945(278~1400)
Current Rated (Range)	(A)	4.1(1.2~6.08)
COP	W/W	3.72
HSPF 4	(Btu/W)	10.7
HSPF 5	(Btu/W)	8.1
Heating at 17°F (-8.3 °C)	(Btu/h)	10100
Heating at -4°F (-20°C)	(Btu/h)	/
COP at -4°F (-20°C)	W/W	/

REFRIGERANT PIPING DATA

Throttle Type	EXV
Design Pressure	(PSIG) 550/340
Refrigerant Type/Charge	(kg) R410A / 1.08
	(oz) 38.1
Additional Charge For Each ft	(oz/ft) 0.16
Additional Charge For Each m	(g/m) 15

Liquid Side/ Gas Side	(inch) 1/4"11/2"
	(mm) 6.35/12.7
Max. pipe length	(ft) 82.02
	(m) 25
Max. difference in level	(ft) 32.81
	(m) 10

INDOOR UNIT DATA

Indoor Fan Motor		
Qty		1
Output	(W)	20
Speed(Hi/Mi/Lo)	(r/min)	1050/930/870
Air flow & Noise level & Moisture		
Indoor Air Flow (Turbo/Hi/Med/Lo)	(CFM)	382.35/335.29/229.41/176.47
Indoor Noise Level (Hi/Med/Lo)	(dB)	36/33.5/22.5
Moisture removal	(L/h)	1.23
Electrical		
Minimum Circuit Ampacity	(A)	3
Max. Fuse	(A)	15

Indoor unit		
Dimension (WxDxH)	(inch)	33.40x9.18x11.76
	(mm)	25
Packing(WxDxH)	(inch)	36.22x12.20x14.57
	(mm)	920x310x370
Net/Gross weight	(lbs.)	22.93/28.88
	(kg)	10.4/13.1
Operating Temperature Range		
Cooling/ Heating	(Deg. °F)	60～90 / 32～86
	(Deg. °C)	16～32 / 0～30

OUTDOOR UNIT DATA

Compressor		
Type		ROTARY
Capacity	(Btu/h)	3255
Input	(W)	826
Refrigerant Oil/Oil Charge	(ml)	ESTER OIL VG74 310
Outdoor fan motor		
Qty		1
Output	(W)	34
Speed	(r/min)	800/600
Electrical		
Minimum Circuit Ampacity	(A)	13
Max. Fuse	(A)	15

Air flow & Noise level		
Outdoor Air Flow (Max.)	(CFM)	1294
Outdoor Noise Level	(dB)	54
Outdoor unit		
Dimension (W×D×H)	(inch)	30.12x11.93x21.85
	(mm)	765x303x555
Packing (W×D×H)	(inch)	34.92x13.27x24.02
	(mm)	887x337x610
Net/ Gross weight	(lbs.)	63.71/69.00
	(kg)	28.9/31.3
Operating Temperature Range		
Cooling/ Heating	(Deg. °F)	10.4/13.1 / 10.4/13.1
	(Deg. °C)	-13~122 / -13~75

ACCESSORIES

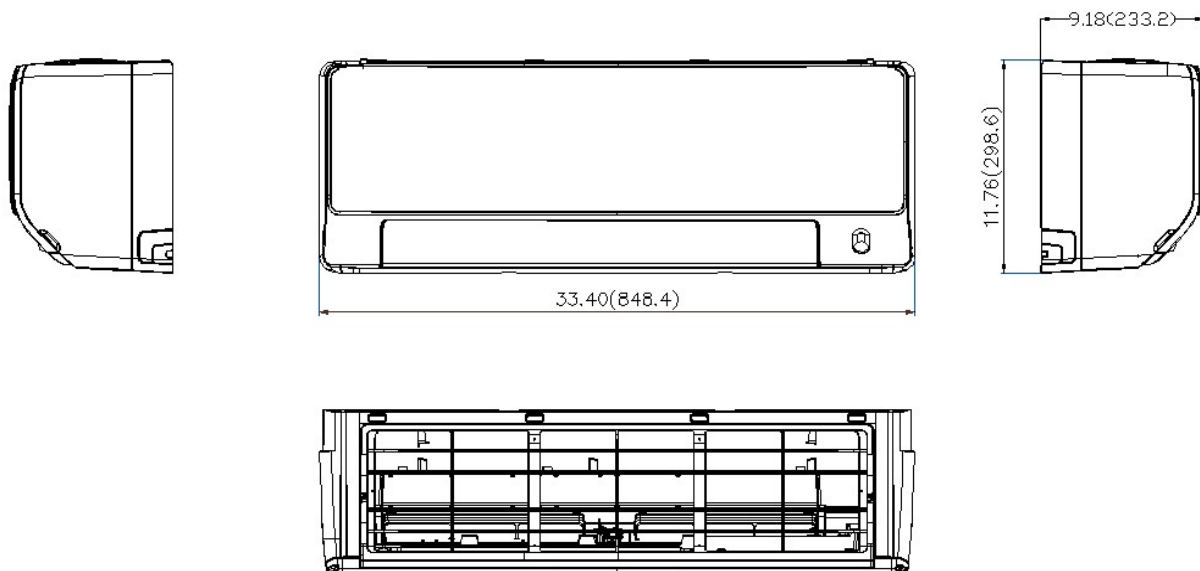
Standard Wired Controller (Optional)

*Rating Conditions per AHRI Standard:
Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB
Cooling | Outdoor: 95° F (35° C) DB / 23.9° C (75° F) WB

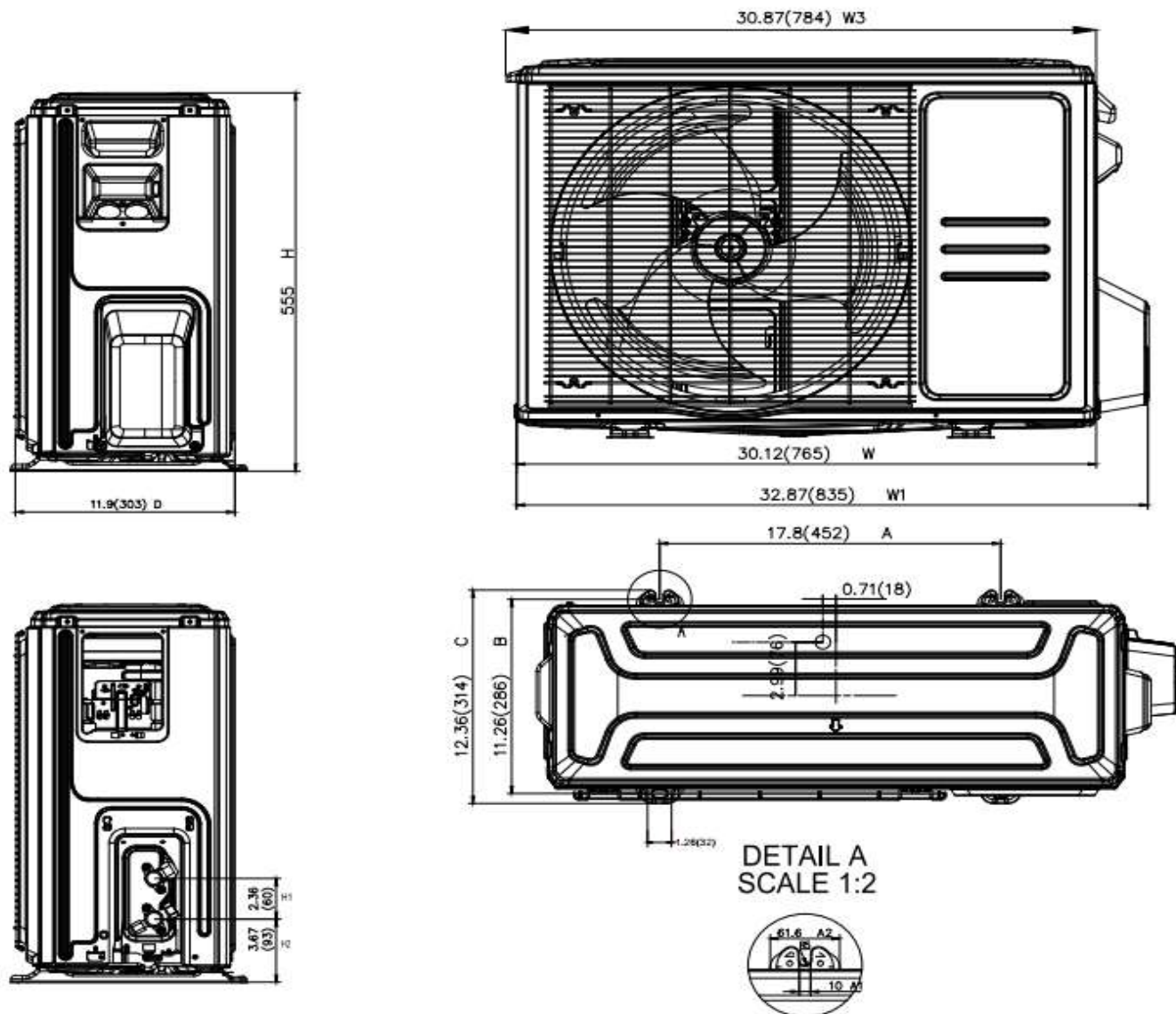
Heating at 47° F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB
Heating at 47° F | Outdoor: 47° F (8° C) DB / 43° F (6° C) WB

Heating at 17° F | Indoor: 70° F (21° C) DB
Heating at 17° F | Outdoor: 17° F (-8° C) DB / 15° F (-9° C) WB

INDOOR UNIT DIMENSION



OUTDOOR UNIT DIMENSION



SUBMITTAL DATA

Job Name:	Location:
Engineer:	Drawing #:
Submitted to:	Reference ☐ Approval ☐ Construction ☐

SET MODEL

Indoor unit model:	IUMW118H/I41P
Outdoor unit model:	OUS18H/O4S4P

Certifications:



Electrical Specification

Power supply

Normal Operational Voltage	(V, Ph, Hz)	208/230,1,60
Voltage Range	(V)	187~253

SYSTEM PERFORMANCE DATA

Cooling*

Capacity Rated (Range)	(Btu/h)	18000(5450~19300)
Power Input Rated (Range)	(W)	1440(465~1720)
Current Rated (Range)	(A)	6.45(2.0~7.5)
SEER	(Btu/W)	23.5
EER	(Btu/W)	12.5
Cooling at 5 F (-15°C)	(Btu/h)	18000

Heating*

Capacity Rated (Range)	(Btu/h)	19000(6200~21000)
Power Input Rated (Range)	(W)	1650(460~1920)
Current Rated (Range)	(A)	7.4(2~8.4)
COP	W/W	3.37
HSPF 4	(Btu/W)	10.8
HSPF 5	(Btu/W)	7.8
Heating at 17°F (-8.3 °C)	(Btu/h)	15600
Heating at -4F (-20°C)	(Btu/h)	11300
COP at -4F (-20°C)	W/W	2.11

REFRIGERANT PIPING DATA

Throttle Type		EXV+Throttle valve	Liquid Side/ Gas Side	(inch)	1/4"/1/2"
Design Pressure	(PSIG)	550/340		(mm)	6.35/12.7
Refrigerant Type/Charge	(kg)	R410A / 1.6	Max. pipe length	(ft)	98.42
	(oz)	56.4		(m)	30
Additional Charge For Each ft	(oz/ft)	0.16	Max. difference in level	(ft)	65.62
Additional Charge For Each m	(g/m)	15		(m)	20

INDOOR UNIT DATA

Indoor Fan Motor

Qty		1
Output	(W)	30
Speed(Hi/Mi/Lo)	(r/min)	1240/1024/916

Air flow & Noise level & Moisture

Indoor Air Flow (Turbo/Hi/Med/Lo)	(CFM)	635.29/523.53/376.47/305.88
Indoor Noise Level (Hi/Med/Lo)	(dB)	46.5/43/32.5
Moisture removal	(L/h)	1.94

Electrical

Minimum Circuit Ampacity	(A)	3
Max. Fuse	(A)	15

Indoor unit

Dimension (WxDxH)	(inch)	40.06x9.72x12.60
	(mm)	30
Packing(WxDxH)	(inch)	43.11x12.80x15.75
	(mm)	1095x325x400
Net/Gross weight	(lbs.)	27.12/35.71
	(kg)	12.3/16.2

Operating Temperature Range

Cooling/ Heating	(Deg. °F)	60~90 / 32~86
	(Deg. °C)	16~32 / 0~30

OUTDOOR UNIT DATA

Compressor

Type		ROTARY
Capacity	(Btu/h)	4315
Input	(W)	1090
Refrigerant Oil/Oil Charge	(ml)	ESTER OIL VG74 440

Outdoor fan motor

Qty	1
Output	(W) 80
Speed	(r/min) 810/720

Electrical

Minimum Circuit Ampacity	(A)	19
Max. Fuse	(A)	30

Air flow & Noise level

Outdoor Air Flow (Max.)	(CFM)	2059
Outdoor Noise Level	(dB)	59

Outdoor unit

Dimension (W×D×H)	(inch)	35.04x13.46x26.50
	(mm)	890x342x673
Packing (W×D×H)	(inch)	39.17x15.67x29.13
	(mm)	995x398x740
Net/ Gross weight	(lbs.)	94.36/100.97
	(kg)	42.8/45.8

Operating Temperature Range

Cooling/ Heating	(Deg. °F)	12.3/16.2 / 12.3/16.2
	(Deg. °C)	-13~-122 / -13~75

ACCESSORIES

Standard Wired Controller (Optional)

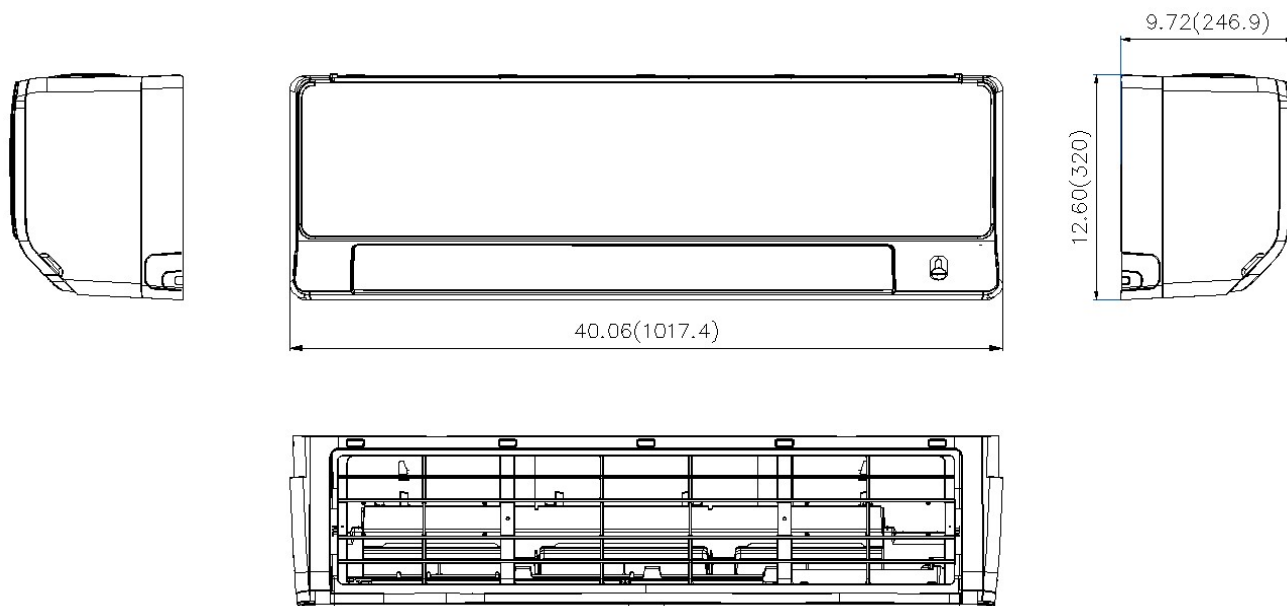
*Rating Conditions per AHRI Standard:

Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB
Cooling | Outdoor: 95° F (35° C) DB / 73.9° C (75° F) WB

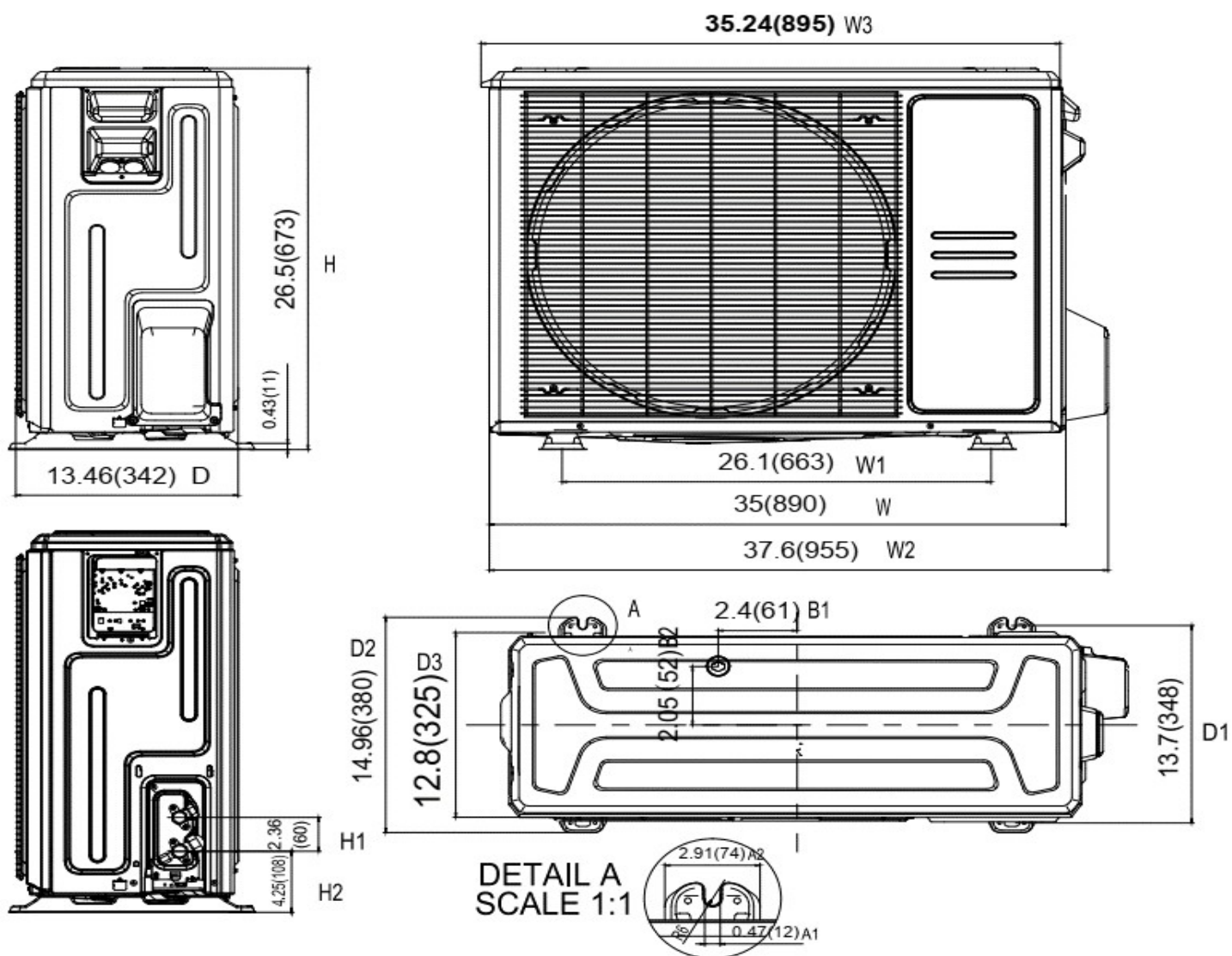
Heating at 47°F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB
Heating at 47°F | Outdoor: 47° F (8° C) DB / 43° F (6° C) WB

Heating at 17° F | Indoor: 70° F (21° C) DB
Heating at 17° F | Outdoor: 17° F (-8° C) DB / 15° F (-9° C) WB

INDOOR UNIT DIMENSION



OUTDOOR UNIT DIMENSION



SUBMITTAL DATA

Job Name:	Location:
Engineer:	Drawing #:
Submitted to:	Reference ☐ Approval ☐ Construction ☐

SET MODEL

Indoor unit model:	IUMW124H/I41P
Outdoor unit model:	OUS24H/O4S4P

Certifications:



Electrical Specification

Power supply

Normal Operational Voltage	(V, Ph, Hz)	208/230,160
Voltage Range	(V)	187~253

SYSTEM PERFORMANCE DATA

Cooling*

Capacity Rated (Range)	(Btu/h)	24000(9200~26800)
Power Input Rated (Range)	(W)	1714(370~2590)
Current Rated (Range)	(A)	8(2.4~11.3)
SEER	(Btu/W)	22
EER	(Btu/W)	14
Cooling at 5 F (-15°C)	(Btu/h)	26800

Heating*

Capacity Rated (Range)	(Btu/h)	25000(10350~27000)
Power Input Rated (Range)	(W)	1953(560~3080)
Current Rated (Range)	(A)	8.7(3.6~13.5)
COP	W/W	3.75
HSPF 4	(Btu/W)	10
HSPF 5	(Btu/W)	7.2
Heating at 17°F (-8.3 °C)	(Btu/h)	19800
Heating at -4°F (-20°C)	(Btu/h)	12200
COP at -4°F (-20°C)	W/W	1.53

REFRIGERANT PIPING DATA

Throttle Type		EXV+Throttle valve	Liquid Side/ Gas Side	(inch)	3/8"/5/8"
Design Pressure	(PSIG)	550/340		(mm)	9.52/15.9
Refrigerant Type/Charge	(kg)	R410A / 2.35	Max. pipe length	(ft)	164.04
	(oz)	82.9		(m)	50
Additional Charge For Each ft	(oz/ft)	0.32	Max. difference in level	(ft)	82.02
Additional Charge For Each m	(g/m)	30		(m)	25

INDOOR UNIT DATA

Indoor Fan Motor

Qty		1
Output	(W)	58
Speed(Hi/Mi/Lo)	(r/min)	1000/850/700

Air flow & Noise level & Moisture

Indoor Air Flow (Turbo/Hi/Med/Lo)	(CFM)	718.82/611.18/414.12/318.82
Indoor Noise Level (Hi/Med/Lo)	(dB)	44/39.5/34
Moisture removal	(L/h)	1.94

Electrical

Minimum Circuit Ampacity	(A)	3
Max. Fuse	(A)	15

Indoor unit

Dimension (WxDxH)	(inch)	46.85x11.20x14.59
	(mm)	50
Packing(WxDxH)	(inch)	50.39x14.17x17.91
	(mm)	1280x360x455
Net/Gross weight	(lbs.)	43.65/54.89
	(kg)	19.8/24.9

Operating Temperature Range

Cooling/ Heating	(Deg. °F)	60~90 / 32~86
	(Deg. °C)	16~32 / 0~30

OUTDOOR UNIT DATA

Compressor

Type	Twin-ROTARY	
Capacity	(Btu/h)	7600
Input	(W)	2045
Refrigerant Oil/Oil Charge	(ml)	ESTER OIL VG74 620

Outdoor fan motor

Qty		1
Output	(W)	120
Speed	(r/min)	900/450

Electrical

Minimum Circuit Ampacity	(A)	23
Max. Fuse	(A)	30

Air flow & Noise level

Outdoor Air Flow (Max.)	(CFM)	2235
Outdoor Noise Level	(dB)	60

Outdoor unit

Dimension (W×D×H)	(inch)	37.24x16.14x31.89
	(mm)	946x410x810
Packing (W×D×H)	(inch)	42.91x19.69x34.84
	(mm)	1090x500x885
Net/ Gross weight	(lbs.)	124.78/134.92
	(kg)	56.6/61.2

Operating Temperature Range

Cooling/ Heating	(Deg. °F)	19.8/24.9 / 19.8/24.9
	(Deg. °C)	-13~122 / -13~75

ACCESSORIES

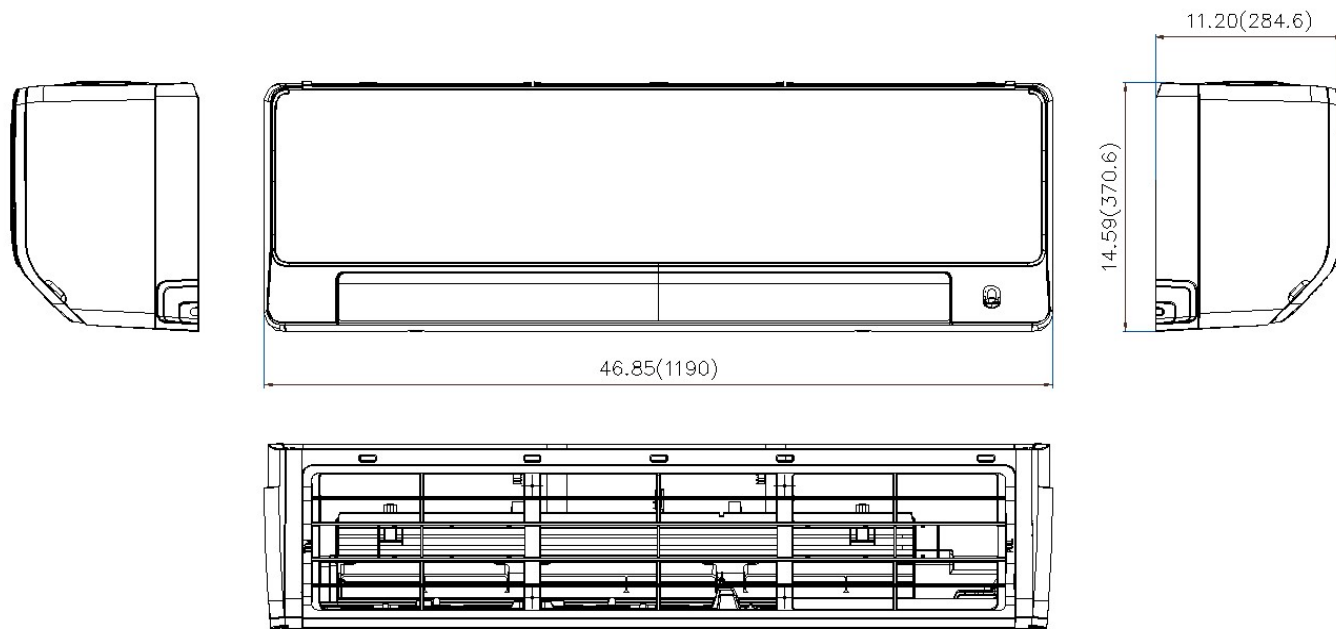
Standard Wired Controller (Optional)

*Rating Conditions per AHRI Standard:
Cooling | Indoor: 80° F (27° C) DB / 67° F (19° C) WB
Cooling | Outdoor: 95° F (35° C) DB / 23.9° C (75° F) WB

Heating at 47°F | Indoor: 70° F (21° C) DB / 60° F (16° C) WB
Heating at 47°F | Outdoor: 47° F (8° C) DB / 43° F (6° C) WB

Heating at 17° F | Indoor: 70° F (21° C) DB
Heating at 17° F | Outdoor: 17° F (-8° C) DB / 15° F (-9° C) WB

INDOOR UNIT DIMENSION



OUTDOOR UNIT DIMENSION

