

SUBMITTAL DATA SHEET

Series Name: Arctic Series Heat Pump
Model Number: CPARS48KR3A/CPARS48KR3C



Air Handler 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)		1550/1300/1050
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)		53/51/49
Dimension (W×D×H)	inch	24-1/2x21x53
	mm	622x534x1346
Package (W×D×H)	inch	27-15/16x27-15/16x59-7/16
	mm	710x710x1510
Net/Gross Weight	lbs	154.3/177.5
	kg	70/80.5

OUTDOOR SPECIFICATION

Compressor Type		ROTARY
Refrigerant		R32
Refrigerant Oil Charge(mL)		1000
Refrigerant Oil		VG74
Outdoor Air Flow (Max) (CFM)		4000
Outdoor Noise Level (dBA)		60
Dimension (W×D×H)	inch	39-13/16x15-3/4x51-15/16
	mm	1011x455x808
Package (W×D×H)	inch	42-1/2x16-15/16x56-11/16
	mm	1080x430x1440
Net/Gross Weight	lbs	209.38/229.3
	kg	94/104

EFFICIENCY

Cooling		Heating	
SEER2	17.0	HSPF2-4	9.5
EER2	10.0	COP	3.4

PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	48,000
Min/Max Capacity	9,000~55,000
Moisture Removal(L/h)	4.84
Standard Operating Range(°F/°C)	5~125(-15~52)
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	49,000
1. @ 47°F Min/Max Capacity	8,000-56,000
2. @ 17°F Rated	48,000
3. @ 5°F Rated: Capacity	48,000
3. @ 5°F Max: Capacity	48,000
Standard Operating Range(°F/°C)	-22~75(-30~24)
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

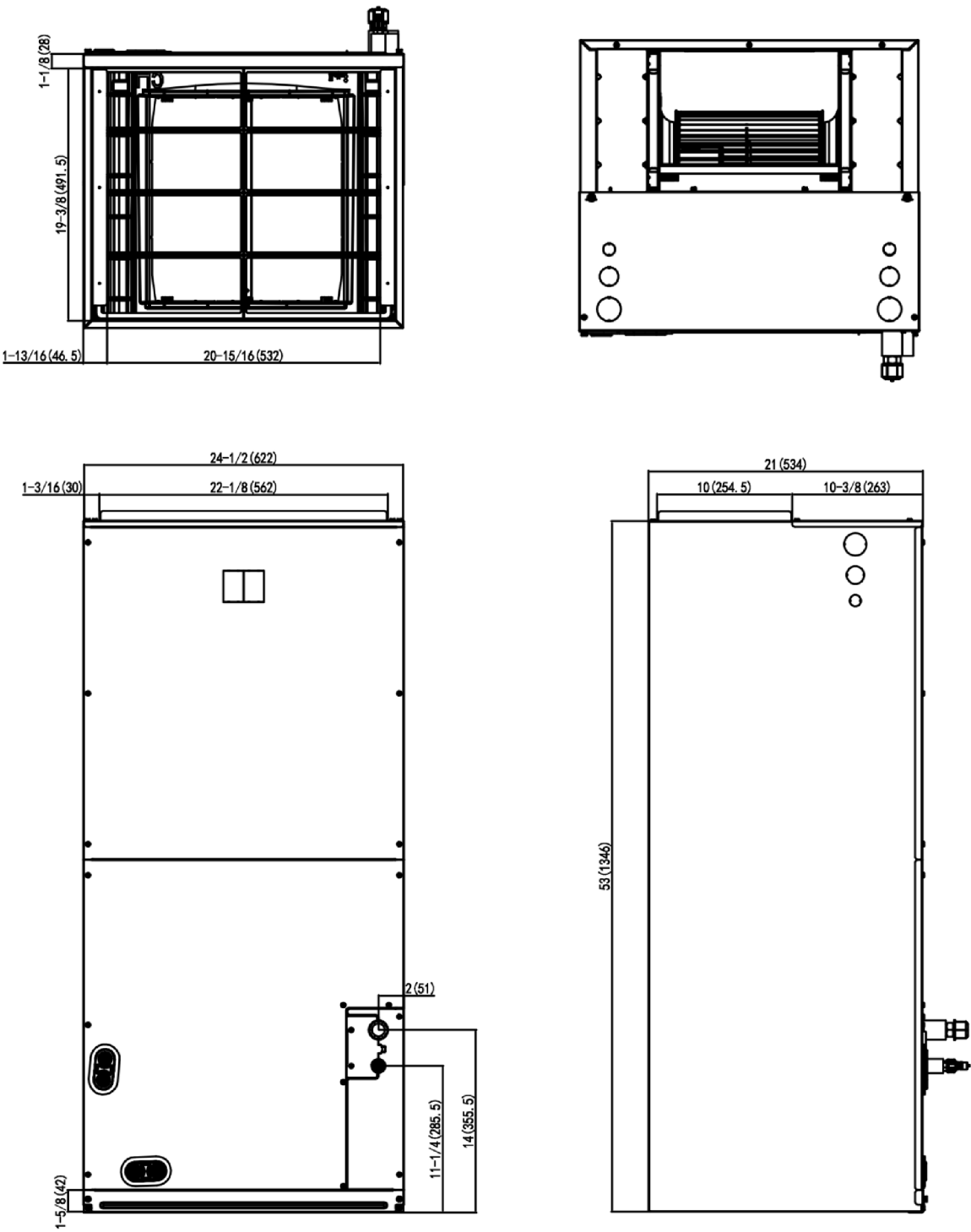
ELECTRICAL

Power Supply	208/230V,60Hz,1Ph
System MCA	34
Connection Wiring	AWG 8-3
System MOCP	50
Compressor RLA	25
Outdoor Fan Motor RLA	2.2
Indoor Fan Motor RLA	4.9
Indoor Fan Motor W	750
System Power Input @ Cooling (W)	4,800
System Power Input @ Heating (W)	4,224
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

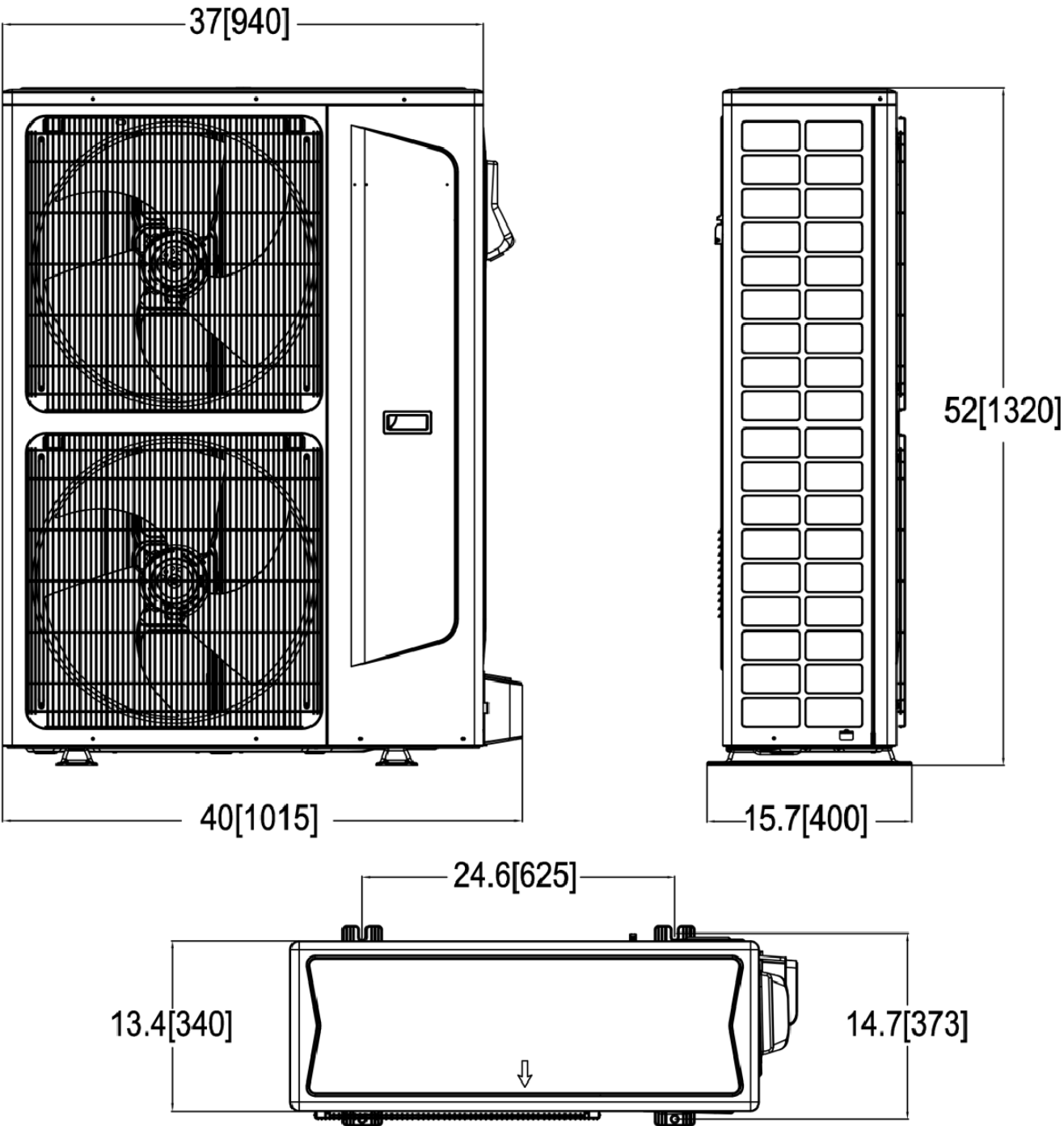
PIPING

Liquid Size	3/8(Φ9.52)
Gas Size	3/4(Φ19.05)
Max. Piping Length(ft/m)	98.4(30)
Max. Height Difference(ft/m)	49(15)
Max. Pre-charged Length(ft/m)	24.6(7.5)
Refrigerant Pre-charged Amount(oz/kg)	144.62(4.1)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.16(15)
Connection Method	Flared

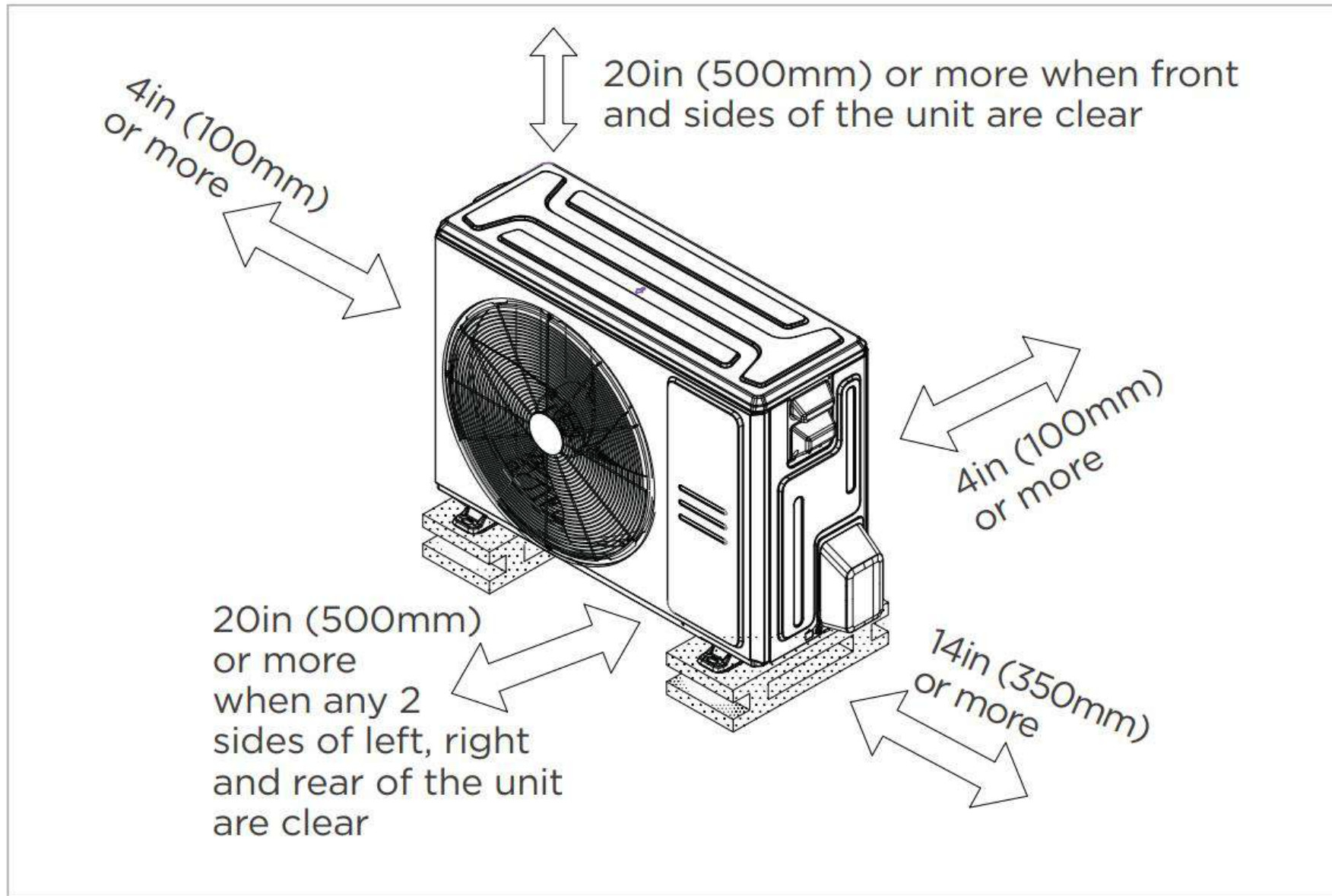
Indoor Unit Dimension



Outdoor Unit Dimension



Installation Instruction



Meets all spatial requirements shown in Installation Clearance Requirements above.

- Reliable operation in extreme conditions: effective heating down to -13°F and cooling up to 125°F ambient for year-round comfort
- Wide voltage range (170–263V) for stable performance during power fluctuations and PCB surge protection
- Extended refrigerant piping: up to 164 ft total length and 98 ft height difference for greater installation flexibility
- Four-position installation versatility: Upflow, Downflow, Horizontal Left, Horizontal Right
- Auto-restart after power interruptions, automatically resuming prior settings
- Refrigerant cooling system to reduce PCB temperatures and prevent overheating
- Dual-protocol communication support (24V and 485) for seamless integration
- High external static pressure: rated up to 0.5 in. W.C., maximum up to 1.0 in. W.C.
- AHRI certified and ETL listed