

# SUBMITTAL DATA SHEET

Series Name: Arctic Series Heat Pump  
Model Number: CPARS18KR3A/CPARS18KR3C



## 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)	600/530/440	
Indoor Noise Level (Turbo/H/M/L/Si) (dBA)	47/45/43	
Dimension (W×D×H)	inch	17-1/2x21x45
	mm	445x534x1143
Package (W×D×H)	inch	21-1/16x27-3/4x51-9/16
	mm	535x705x1310
Net/Gross Weight	lbs	112.4/128.9
	kg	50.9/58.5

## OUTDOOR SPECIFICATION

Compressor Type	ROTARY	
Refrigerant	R32	
Refrigerant Oil Charge(mL)	500	
Refrigerant Oil	VG74	
Outdoor Air Flow (Max) (CFM)	2059	
Outdoor Noise Level (dBA)	56	
Dimension (W×D×H)	inch	38-9/16x15-1/4x27-9/16
	mm	980x388x700
Package (W×D×H)	inch	40-3/16x16-15/16x30-5/16
	mm	1020x430x770
Net/Gross Weight	lbs	105.8/112.4
	kg	48.0/51.0

## EFFICIENCY

Cooling		Heating	
SEER2	19.2	HSPF2-4	9.0
EER2	11.6	COP	3.4

## PERFORMANCE of Cooling

Cooling (Btu/hr)	
Rated Capacity	18,000
Min/Max Capacity	6,000-23,000
Moisture Removal(L/h)	1.69
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	22,000
1. @ 47°F Min/Max Capacity	4,600-24,000
2. @ 17°F Rated	22,000
3. @ 5°F Rated: Capacity	22,000
3. @ 5°F Max: Capacity	22,000
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

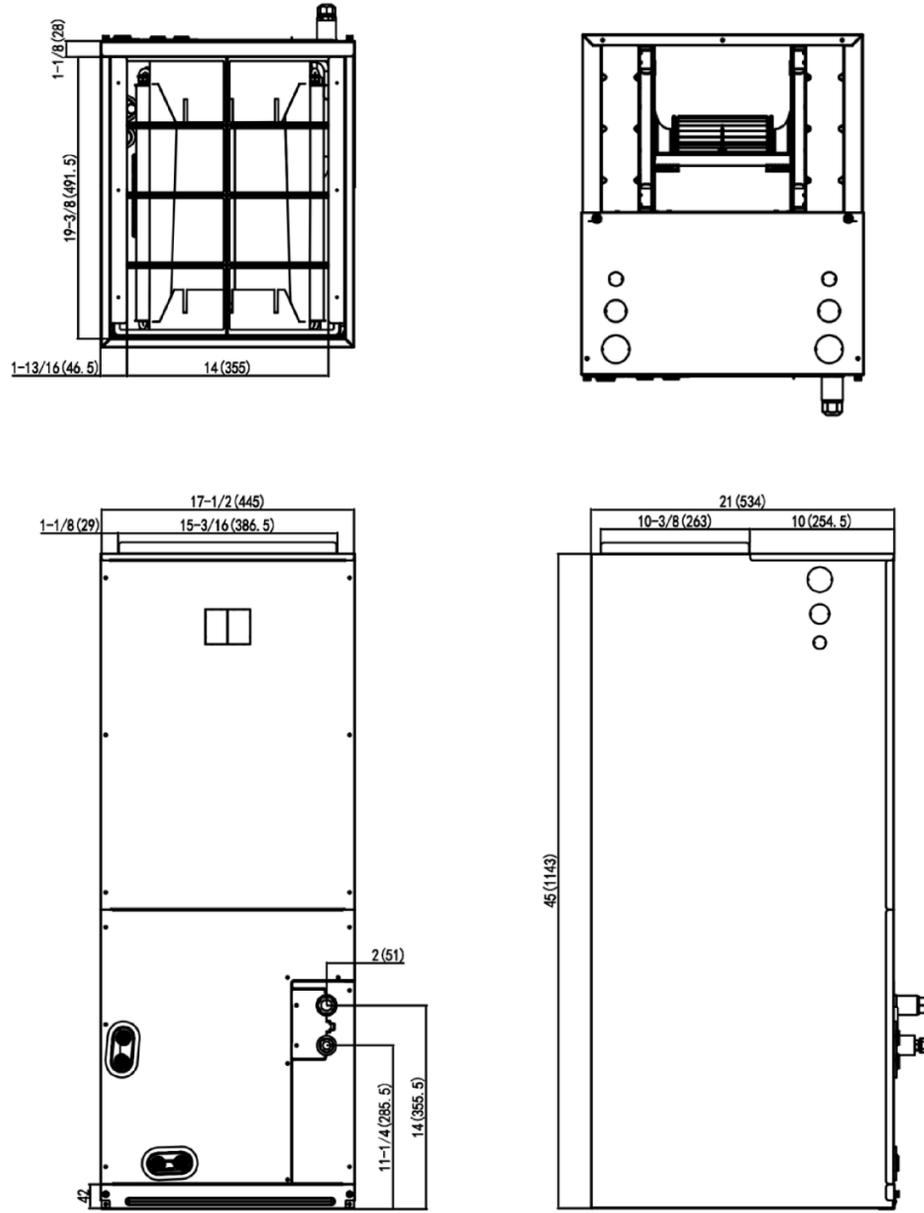
## ELECTRICAL

Power Supply	208/230V,60Hz,1Ph
System MCA	18
Connection Wiring	AWG 14-3
System MOCP	30
Compressor RLA	13
Outdoor Fan Motor RLA	1.1
Indoor Fan Motor RLA	2.7
Indoor Fan Motor W	250
System Power Input @ Cooling (W)	1,552
System Power Input @ Heating (W)	1,896
MCA: Min. circuit amps (A)	MOCP: Max. over current protection (A)
RLA: Rated load amps (A)	W: Fan motor rated output (W)

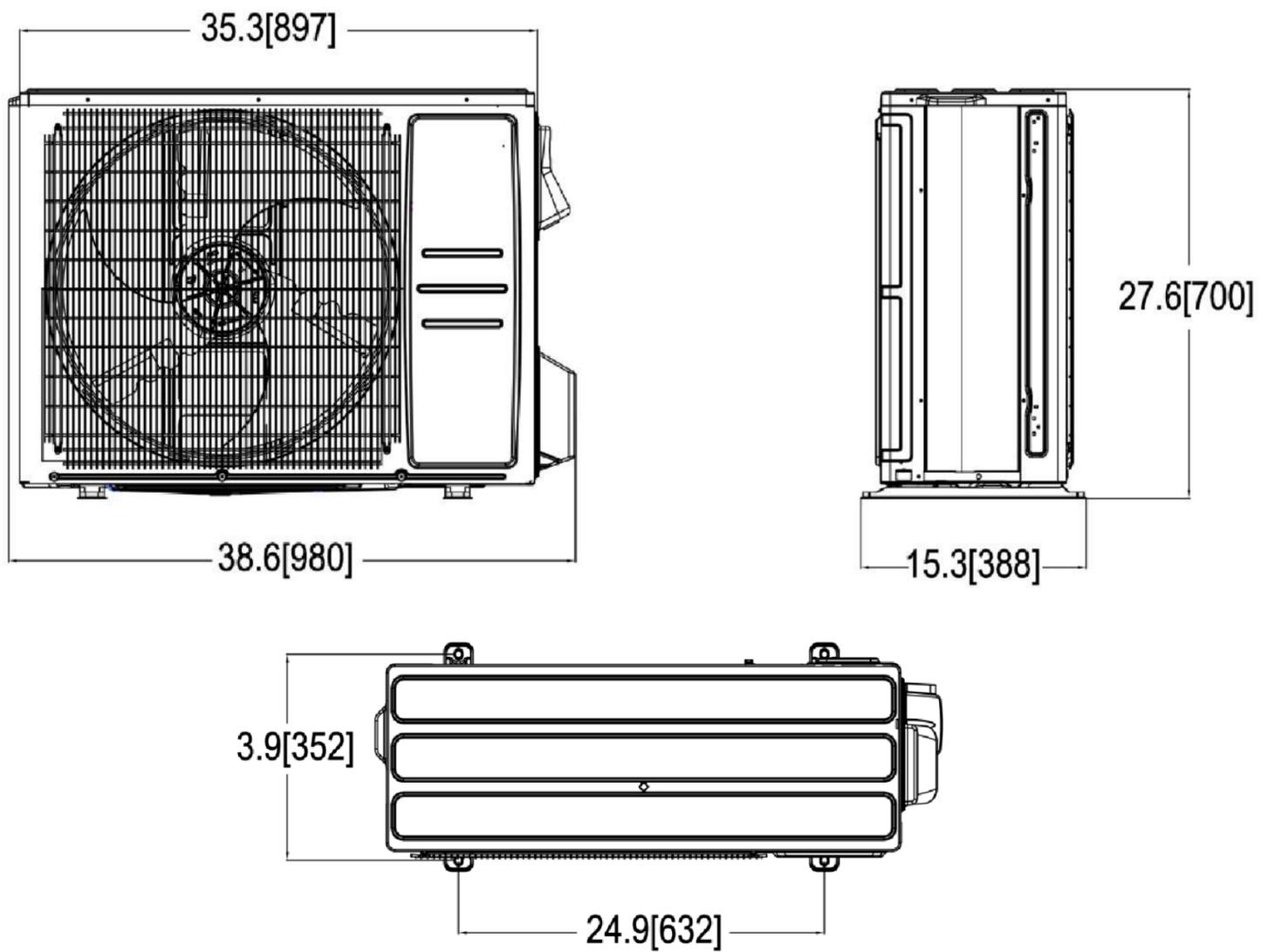
## PIPING

Liquid Size	3/8(Φ9.52)
Gas Size	5/8(Φ15.88)
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)	52.91(1.5)
Additional Charge of Refrigerant((oz/ft)/(g/m))	0.16(15)
Connection Method	Flared

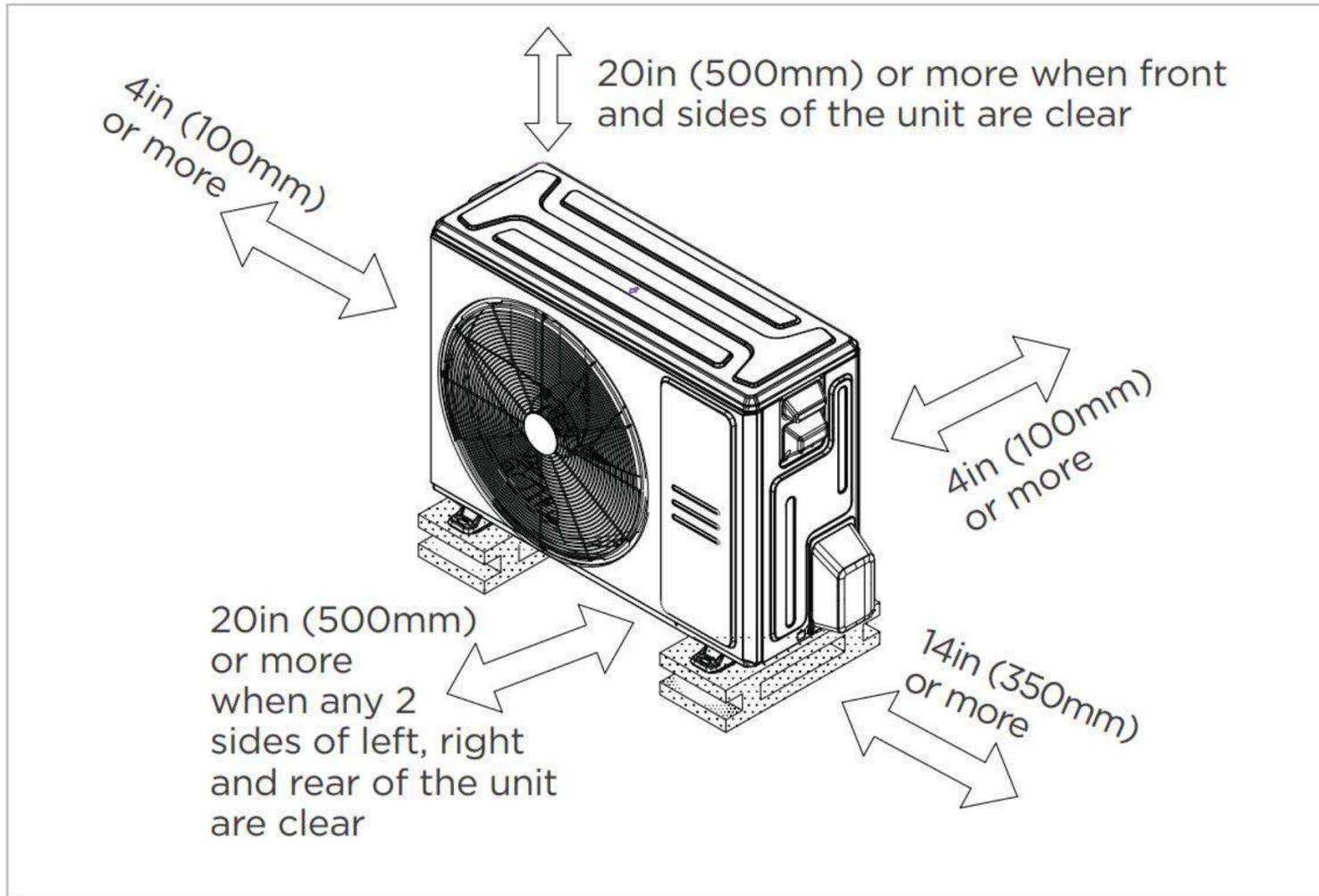
Indoor Unit Dimension



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