

Job Name: _____

Location: _____

Engineer: _____

Submitted to: _____

Submitted by: _____

Reference: _____

Date: _____

Approval: _____

Construction: _____

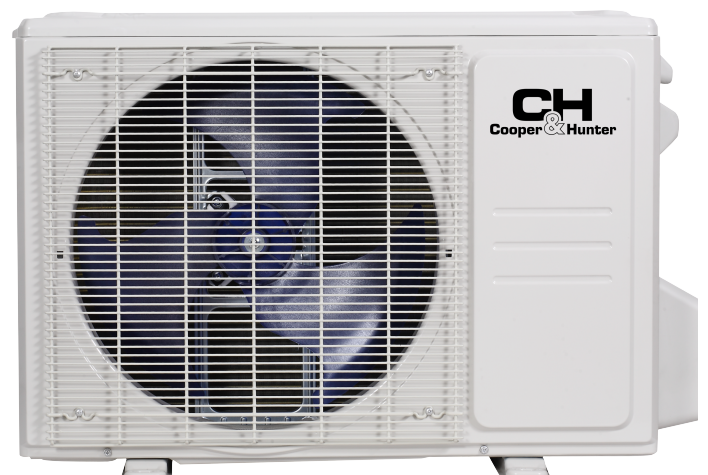
Unit #: _____

Drawing #: _____

KEY FEATURES:

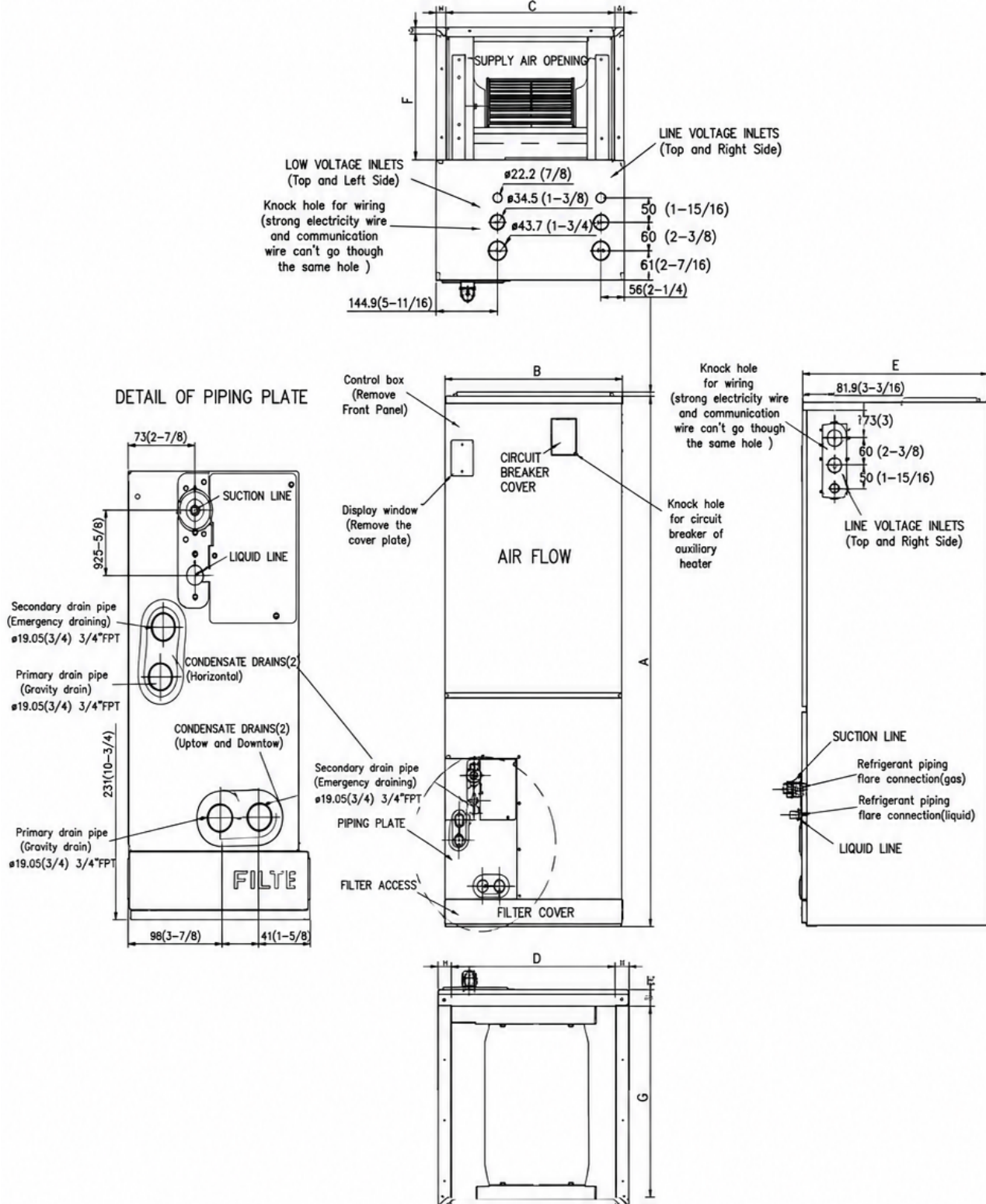
- Heat Pump operation (heating and cooling)
- Inverter-driven DC compressor for variable capacity
- 24V communicating controls compatible with a communicating indoor unit
- Available from 1.5 to 5 tons (18,000–60,000 BTU)
- R-454B refrigerant
- Variable-speed outdoor fan motor
- Soft start with very low starting current
- High part-load efficiency (excellent SEER2)
- Wide operating range for both cooling and heating
- Built-in diagnostics and fault reporting
- Quiet operation due to inverter modulation

NOTES:

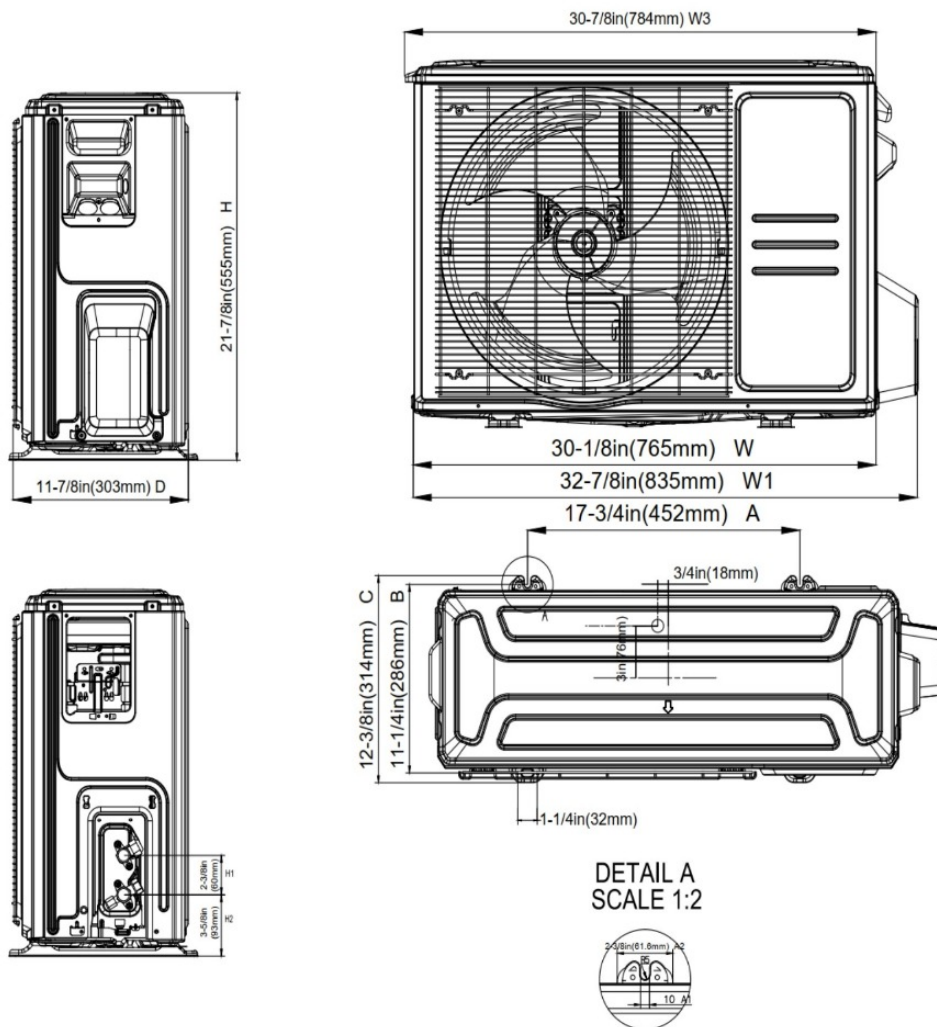


Indoor Model			CH-MP18AHU24V
Power supply		V, Ph, Hz	115/208/230V,60Hz
Communication wiring			AWG 20x2
Cooling	Capacity	Btu/h	18,000 (6,100~20,700)
	Input	w	1,875
	Rated current	A	8.3
	EER/EER2	Btu/w	9.5
	SEER/SEER2	Btu/w	17.0
Heating at 47 °F	Capacity	Btu/h	18000 (7,400~20,100)
	Input	W	1579 (480 ~1,770)
	Rated current	A	7.0 (2.6 ~7.9)
	COP	W/W	3.34
	HSPF4/HSPF2-4		8.3
	HSPF5/HSPF2-5		6.6
Indoor fan motor		Qty	1
		Input	250
		RLA	4.4/3.0
Indoor air flow (Turbo/Hi/Med/Lo) (No duct)		CFM	618 / 574 / 530 / 486 / N\A
ESP (range)		In.wg.	0-0.8 In.W.G
Indoor noise level (Hi/Med/Lo)		dB(A)	44/42/40/37/N\A
Dehumidification		L/H	4.33
Indoor unit	Dimensions (WxDxH)	inch	21.02 x 17.52 x 45.00
	Packing (WxDxH)	inch	26.57 x 20.87 x 48.62
	Net/Gross weight	lbs	105/127
Drainage water pipe diameter		inch	3/4"
Refrigerant piping (Liquid side/Gas side)		inch	3/8" 3/4"
Design pressure		PSIG	550 / 340
Controller			120N/24V
Room temperature	Cooling	F	60~90
	Heating	F	60~90

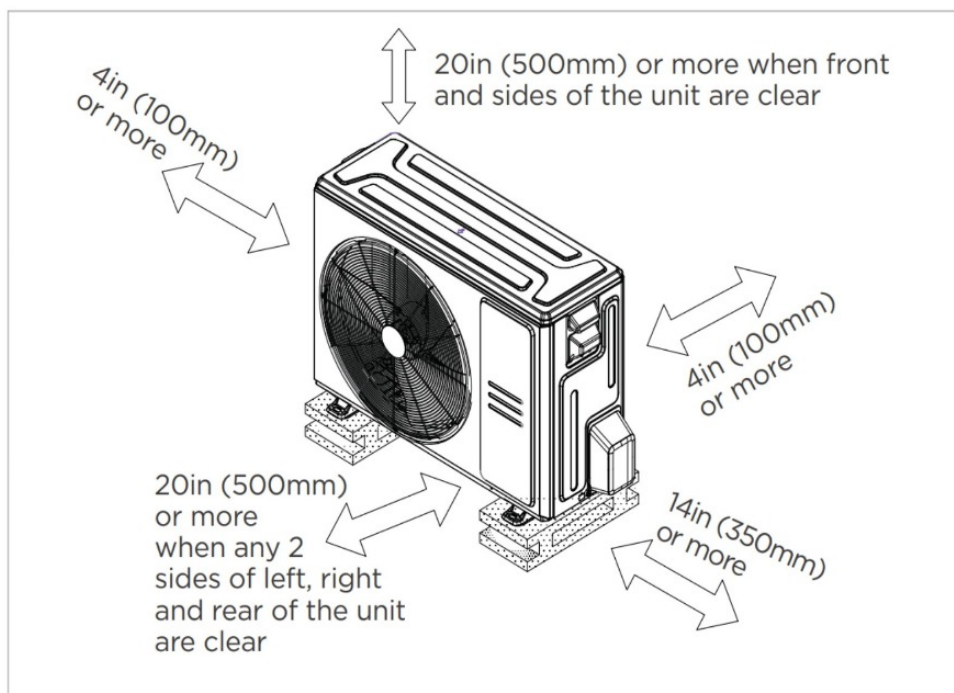
Outdoor Model			CH-ALT18HP24V-230VO
Power supply		V, Ph, Hz	115/208/230V,60Hz
Min. circuit ampacity		A	16
Max. fuse		A	20
Compressor	Model		KSN140D21UFZ
	Type		ROTARY
	Brand		GMCC
	Capacity	Btu/h	N/A
	Input	w	1,140.00
	Rated current (RLA)	A	0.8
	Refrigerant oil	oz	VG74
Outdoor fan motor	Qty		1
	Input	w	34
	RLA	A	0.8
	Speed	r/min	840/700/500
Outdoor air flow (Max)		CFM	1236
Outdoor noise level (Max)		dB(A)	49.68
Throttle type			EXV
Outdoor unit	Dimensions (WxDxH)	inch	30.12 x 11.93 x 21.85
	Packing (WxDxH)	inch	34.92 x 13.27 x 24.02
	Net/Gross weight	inch	66.80/73.19
Refrigerant	Type		R454B
	Precharge	ft	24.6
Additional charge for 1/4 inch liquid pipe		oz	
Additional charge for 3/8 inch liquid pipe		oz	.7 oz/ft
Refrigerant piping	Liquid side/Gas side	inch	3/8" 3/4"
	Max. pipe length	ft	98.4'
	Max. difference in level	ft	65.6'
Ambient temperature	Cooling	F	-13~122
	Heating	F	-13~75



Dimensions	Model	18/24/30k		36/48/60k	
		inch	mm	inch	mm
A	Model Height	45	1143	49	1245
B	Model Width	17-1/2	445	21	534
C	Supply Air Opening Width	15-5/8	397	19-1/8	486
D	Return Air Opening Width	15-1/8	384	18-5/8	473
E	Model Depth	21	534	21	534
F	Supply Air Opening Depth	10-1/4	260	10-1/4	260
G	Return Air Opening Depth	18-3/4	476	18-3/4	476
H	Supply Air Opening Clearance	15/16	24	15/16	24
I	Return Air Opening Side Clearance	1-1/4	32	1-1/4	32
J	Return Air Opening Front Clearance	1-1/2	38	1-5/8	41
K	Return Air Opening Back Clearance	5/8	16	5/8	16



Installation Instruction For Outdoor Unit



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