

TPA-09/CZP09CD(O)	9,000 BTU/H(208/230V)	Wall Mounted Heat Pump System
Location: _____	Approval: _____	
Engineer: _____	Date: _____	
Submitted to: _____	Construction: _____	
Submitted by: _____	Unit #: _____	
Reference: _____	Drawing #: _____	

Set Model
 Indoor unit model TPA-09
 Outdoor unit model CZP09CD(O)

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SYSTEM PERFORMANCE DATA

Power supply		
Normal Operational Voltage	(V, Ph, Hz)	208/230, 1, 60
Voltage Range	(V)	187-253
Electrical		
Minimum circuit ampacity	(A)	13.0
Max.fuse	(A)	15.0
Connection wiring		14*4 AWG
Cooling		
Rated Capacity	(Btu/h)	9000
Capacity Range	(Btu/h)	2970~10500
Power Input (Max)	(W)	692
Rated current	(A)	3.17
SEER	(Btu/W)	20
EER	(Btu/W)	13
Heating at 47F		
Rated Capacity	(Btu/h)	10000
Capacity Range	(Btu/h)	2230~11650
Power Input (Max)	(W)	952
Rated current	(A)	4.16
HSPF4	(Btu/W)	10.5
HSPF5	(Btu/W)	9
COP	W/W	3.08
Heating at 17F		
Max Capacity	(Btu/h)	9450

REFRIGERANT PIPE DATA

Design pressure	(PSIG)	550/340
Refrigerant Type	(Oz)	R410A/38.1
Refrigerant precharge	(ft)	25.0
	(m)	7.6
Additional charge for each ft	(oz/ft)	0.16
	(g/ft)	15
Liquid side/ Gas side	(inch)	1/4" / 3/8"
	(mm)	6.35/9.52
Max. pipe length	(ft)	82.0
	(m)	25.0
Max. difference in level	(ft)	32.8
	(m)	10.0
Connection method		(Flared)
Indoor(cooling/ heating)	(Deg. °F)	60~90 / 32~86
	(Deg. °C)	16~32 / 0~30
Outdoor(cooling/heating)	(Deg. °F)	-13~122 / -13~75
	(Deg. °C)	-25~50 / -25~24
Application area	(sq.ft)	129.17~193.75
	(m2)	12~18

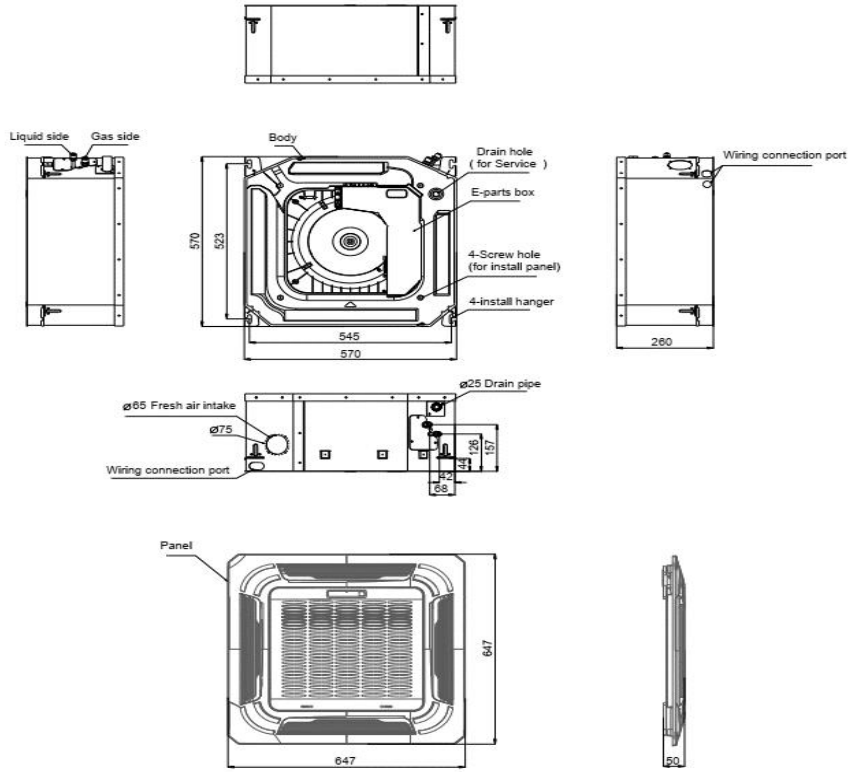
INDOOR UNIT DATA

Indoor fan motor		
Type		Cross-Flow
Model		ZKFP-46-8-1
Qty		1
Input	(W)	45.0
RLA	(A)	-
LRA	(A)	---
Winding Resistance	(Ω)	---
Capacitor	(uF)	---
Speed(Hi/Mi/Lo)	(r/min)	600/520/460
Air flow & Noise level		
Indoor air flow (Hi/Med/Lo) (N)	(CFM)	352.94/305.88/270.59
Indoor noise level (Hi/Med/Lo)	[dB(A)]	37.5/34.5/31.5
Dehumidification		
	(Pint/H)	---
Indoor unit		
Dimension (WxDxH)	(inch)	22.44x22.44x10.24
	(mm)	570x570x260
Packing(WxDxH)	(inch)	26.06x26.06x12.48
	(mm)	662x662x317
Net/Gross weight	(lbs.)	31.97/38.14
	(kg)	14.5/17.3

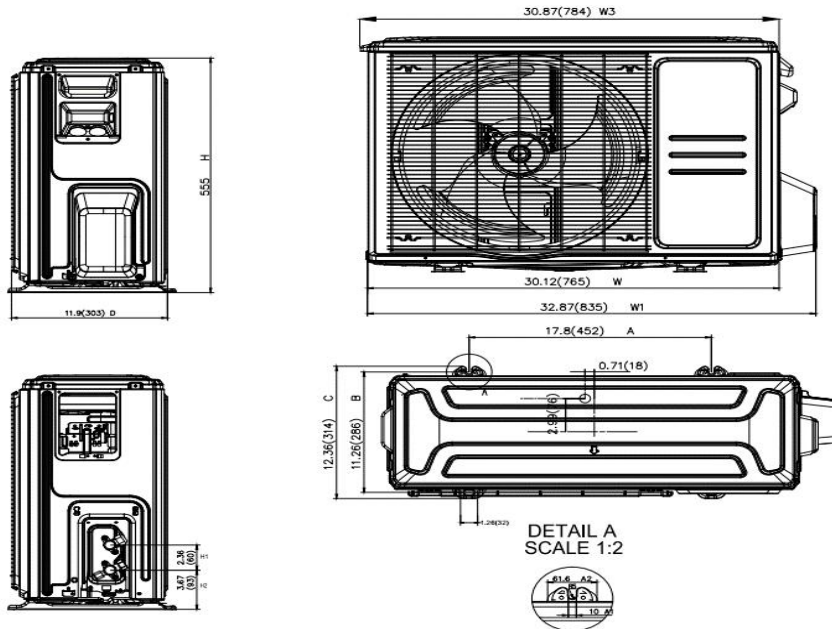
OUTDOOR UNIT DATA

Compressor		
Type		KSK103D33UEZ3
Model		ROTARY
Brand		GMCC
Capacity	(Btu/h)	6944 / 11107
Input	(W)	325 / 826
Rated current (RLA)	(A)	-
Refrigerant oil/oil charge	(ml)	-
Throttle		Capillary + EXV
Outdoor fan motor		
Model		ZKFN-34-10-1
Qty		1
Input	(W)	--
RLA	(A)	--
Speed	(r/min)	800/600
Air flow & Noise level		
Outdoor air flow (Max.)	(CFM)	1294.10
Outdoor noise level	[dB(A)]	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

Indoor unit dimension



Outdoor unit dimension



General Features

Wireless Remote with LCD Display

Sleep

Timer

Self Clean

46F Heating


Silent


Extended Performance Data

TPA-12/CZP12CD(O)	12,000 BTU/H(208/230V)	Wall Mounted Heat Pump System
Location: _____	Approval: _____	
Engineer: _____	Date: _____	
Submitted to: _____	Construction: _____	
Submitted by: _____	Unit #: _____	
Reference: _____	Drawing #: _____	

Set Model
 Indoor unit model TPA-12
 Outdoor unit model CZP12CD(O)

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SYSTEM PERFORMANCE DATA

Power supply		
Normal Operational Voltage	(V, Ph, Hz)	208/230, 1, 60
Voltage Range	(V)	187-253
Electrical		
Minimum circuit ampacity	(A)	13.0
Max.fuse	(A)	15.0
Connection wiring		14*4 AWG
Cooling		
Rated Capacity	(Btu/h)	12000
Capacity Range	(Btu/h)	2800~14100
Power Input (Max)	(W)	857
Rated current	(A)	3.92
SEER	(Btu/W)	22
EER	(Btu/W)	14
Heating at 47F		
Rated Capacity	(Btu/h)	12000
Capacity Range	(Btu/h)	1950~14600
Power Input (Max)	(W)	1045
Rated current	(A)	4.78
HSPF4	(Btu/W)	10.6
HSPF5	(Btu/W)	9
COP	W/W	3.37
Heating at 17F		
Max Capacity	(Btu/h)	9350

REFRIGERANT PIPE DATA

Design pressure	(PSIG)	550/340
Refrigerant Type	(Oz)	R410A/38.1
Refrigerant precharge	(ft)	25.0
	(m)	7.6
Additional charge for each ft	(oz/ft)	0.16
	(g/ft)	15
Liquid side/ Gas side	(inch)	1/4" / 1/2"
	(mm)	6.35/12.7
Max. pipe length	(ft)	82.0
	(m)	25.0
Max. difference in level	(ft)	32.8
	(m)	10.0
Connection method		(Flared)
Indoor(cooling/ heating)	(Deg. °F)	60~90 / 32~86
	(Deg. °C)	16~32 / 0~30
Outdoor(cooling/heating)	(Deg. °F)	-13~122 / -13~75
	(Deg. °C)	-25~50 / -25~24
Application area	(sq.ft)	172.22~247.57
	(m2)	16~23

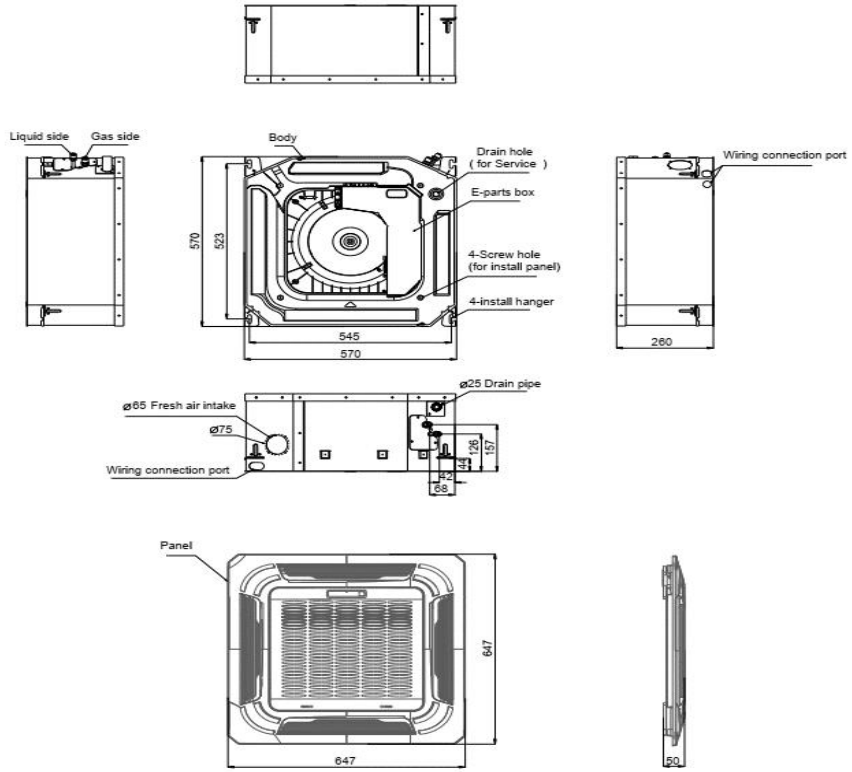
INDOOR UNIT DATA

Indoor fan motor		
Type		Cross-Flow
Model		ZKFP-46-8-1
Qty		1
Input	(W)	45.0
RLA	(A)	-
LRA	(A)	---
Winding Resistance	(Ω)	---
Capacitor	(uF)	---
Speed(Hi/Mi/Lo)	(r/min)	680/580/500
Air flow & Noise level		
Indoor air flow (Hi/Med/Lo) (N)	(CFM)	379/309/261
Indoor noise level (Hi/Med/Lo)	[dB(A)]	40.5/35.5/31.5
Dehumidification		
	(Pint/H)	---
Indoor unit		
Dimension (WxDxH)	(inch)	22.44x22.44x10.24
	(mm)	570x570x260
Packing(WxDxH)	(inch)	26.06x26.06x12.48
	(mm)	662x662x317
Net/Gross weight	(lbs.)	35.27/41.01
	(kg)	16/18.6

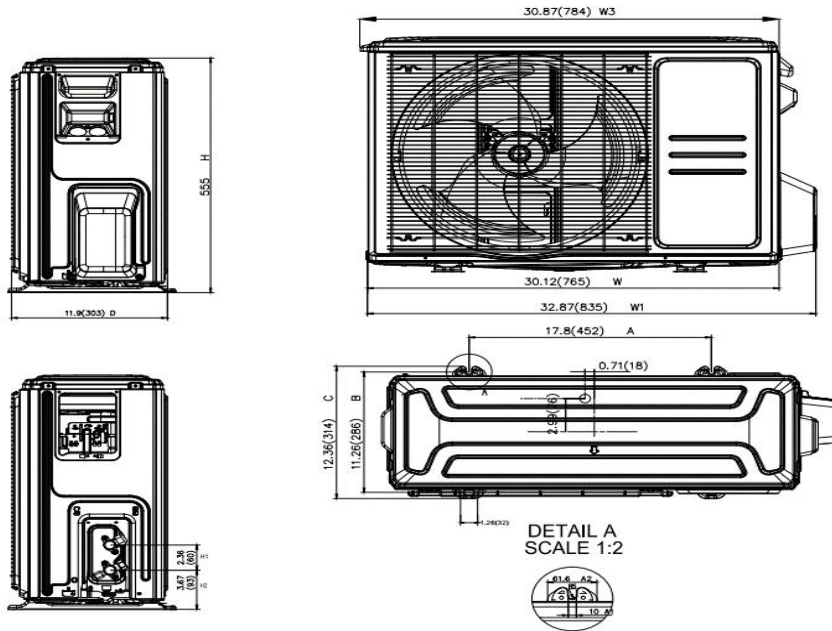
OUTDOOR UNIT DATA

Compressor		
Type		KSK103D33UEZ3
Model		ROTARY
Brand		GMCC
Capacity	(Btu/h)	6944 / 11107
Input	(W)	325 / 826
Rated current (RLA)	(A)	-
Refrigerant oil/oil charge	(ml)	-
Throttle		Capillary +EXV
Outdoor fan motor		
Model		ZKFN-34-10-1
Qty		1
Input	(W)	--
RLA	(A)	--
Speed	(r/min)	800/600
Air flow & Noise level		
Outdoor air flow (Max.)	(CFM)	1294.10
Outdoor noise level	[dB(A)]	53.5
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

Indoor unit dimension



Outdoor unit dimension



General Features

Wireless Remote with LCD Display

Sleep

Timer

Self Clean

46F Heating


Silent


Extended Performance Data

TPA-18/CZP18CD(O)	18,000 BTU/H(208/230V)	Wall Mounted Heat Pump System
Location: _____	Approval: _____	
Engineer: _____	Date: _____	
Submitted to: _____	Construction: _____	
Submitted by: _____	Unit #: _____	
Reference: _____	Drawing #: _____	

Set Model
 Indoor unit model TPA-18
 Outdoor unit model CZP18CD(O)

Certified

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SYSTEM PERFORMANCE DATA		
Power supply		
Normal Operational Voltage (V, Ph, Hz)		208/230, 1, 60
Voltage Range (V)		187-253
Electrical		
Minimum circuit ampacity (A)		17.0
Max.fuse (A)		25.0
Connection wiring		14*4 AWG
Cooling		
Rated Capacity (Btu/h)		16000
Capacity Range (Btu/h)		5600~16000
Power Input (Max) (W)		1340
Rated current (A)		6.01
SEER (Btu/W)		20.5
EER (Btu/W)		12.5
Heating at 47F		
Rated Capacity (Btu/h)		18500
Capacity Range (Btu/h)		7700~18500
Power Input (Max) (W)		1950
Rated current (A)		8.21
HSPF4 (Btu/W)		11.00
HSPF5 (Btu/W)		9.00
COP W/W		2.78
Heating at 17F		
Max Capacity (Btu/h)		13600

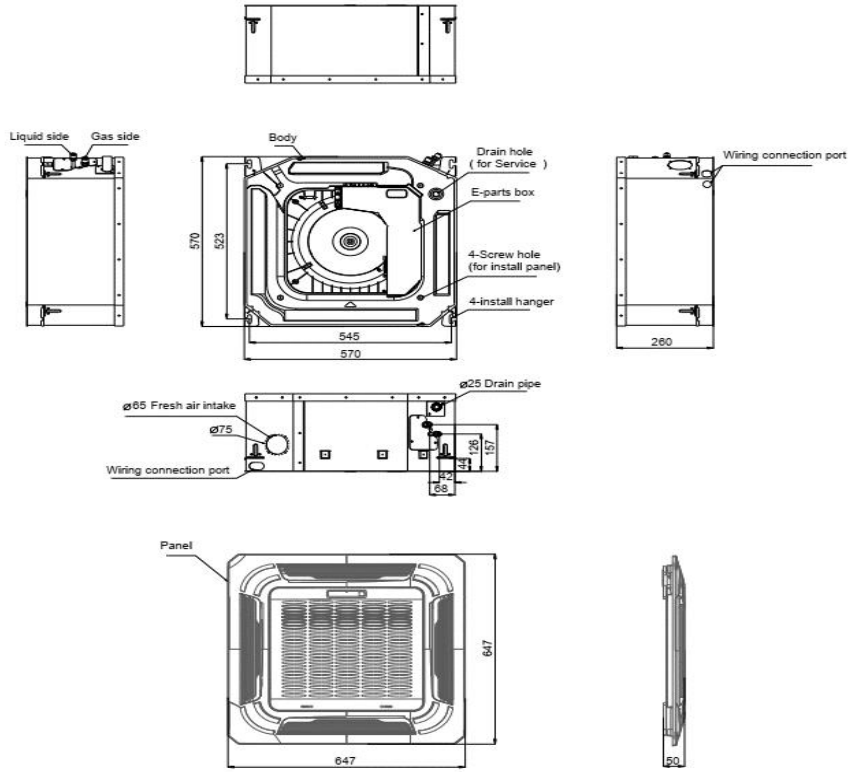
REFRIGERANT PIPE DATA		
Design pressure (PSIG)		550/340
Refrigerant Type (Oz)		R410A/56.44
Refrigerant precharge (ft)		25.0
	(m)	7.6
Additional charge for each ft (oz/ft)		0.16
	(g/ft)	15
Liquid side/ Gas side (inch)		1/4" / 1/2"
	(mm)	6.35/12.7
Max. pipe length (ft)		98.0
	(m)	30.0
Max. difference in level (ft)		66.0
	(m)	20.0
Connection method		(Flared)
Indoor(cooling/ heating) (Deg. °F)		60~90 / 32~86
	(Deg. °C)	16~32 / 0~30
Outdoor(cooling/heating) (Deg. °F)		-13~122 / -13~75
	(Deg. °C)	-25~50 / -25~24
Application area (sq.ft)		247.57~355.21
	(m2)	23~33

INDOOR UNIT DATA		
Indoor fan motor		
Type		Cross-Flow
Model		ZKFP-46-8-1
Qty		1
Input (W)		45.0
RLA (A)		1.5
LRA (A)		---
Winding Resistance (Ω)		---
Capacitor (uF)		---
Speed(Hi/Mi/Lo) (r/min)		730/630/570
Air flow & Noise level		
Indoor air flow (Hi/Med/Lo) (N) (CFM)		562.35/485.29/438.82
Indoor noise level (Hi/Med/Lo) [dB(A)]		43.5/38.5/35.5
Dehumidification (Pint/H)		

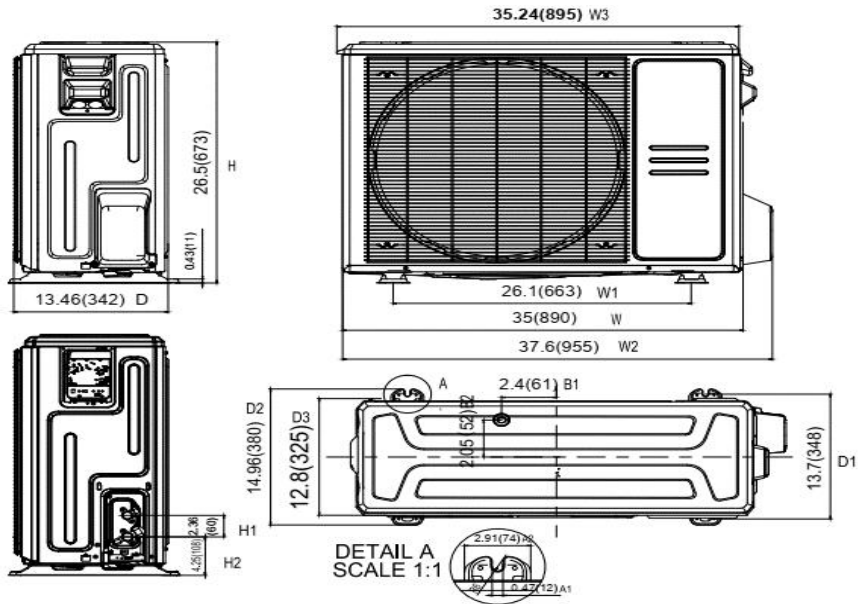
Indoor unit		
Dimension (WxDxH) (inch)		22.44x22.44x10.24
	(mm)	570x570x260
Packing(WxDxH) (inch)		26.06x26.06x12.48
	(mm)	662x662x317
Net/Gross weight (lbs.)		35.71/46.96
	(kg)	16.2/21.3

OUTDOOR UNIT DATA		
Compressor		
Type		KSN140D58UFZ
Model		ROTARY
Brand		GMCC
Capacity (Btu/h)		14723.39/115
Input (W)		1090
Rated current (RLA) (A)		-
Refrigerant oil/oil charge (ml)		-
Throttle		Capillary +EXV
Outdoor fan motor		
Model		ZKFN-80-8-3
Qty		1
Input (W)		--
RLA (A)		--
Speed (r/min)		810/720
Air flow & Noise level		
Outdoor air flow (Max.) (CFM)		1764.70
Outdoor noise level [dB(A)]		58
Outdoor unit		
Dimension (WxDxH) (inch)		35.04x13.46x26.50
	(mm)	890x342x673
Packing (WxDxH) (inch)		39.17x15.67x29.13
	(mm)	995x398x740
Net/ Gross weight (lbs.)		95.02/101.85
	(kg)	43.1/46.2

Indoor unit dimension



Outdoor unit dimension



General Features

Wireless Remote with LCD Display

Sleep

Timer

Self Clean

46F Heating

Silent

Extended Performance Data

TIP24/CZP24CD(O)	24,000 BTU/H(208/230V)	Wall Mounted Heat Pump System
Location: _____	Approval: _____	
Engineer: _____	Date: _____	
Submitted to: _____	Construction: _____	
Submitted by: _____	Unit #: _____	
Reference: _____	Drawing #: _____	

Set Model
 Indoor unit model TIP24
 Outdoor unit model CZP24CD(O)

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SYSTEM PERFORMANCE DATA

Power supply		
Normal Operational Voltage	(V, Ph, Hz)	208/230, 1, 60
Voltage Range	(V)	187-253
Electrical		
Minimum circuit ampacity	(A)	22.0
Max.fuse	(A)	30.0
Connection wiring		14*4 AWG
Cooling		
Rated Capacity	(Btu/h)	24000
Capacity Range	(Btu/h)	8130~26272
Power Input (Max)	(W)	1920
Rated current	(A)	8.78
SEER	(Btu/W)	20.7
EER	(Btu/W)	12.5
Heating at 47F		
Rated Capacity	(Btu/h)	25000
Capacity Range	(Btu/h)	10650~30000
Power Input (Max)	(W)	2210
Rated current	(A)	10
HSPF4	(Btu/W)	10.5
HSPF5	(Btu/W)	8.5
COP	W/W	3.26
Heating at 17F		
Max Capacity	(Btu/h)	17000

REFRIGERANT PIPE DATA

Design pressure	(PSIG)	550/340
Refrigerant Type	(Oz)	R410A/82.89
Refrigerant precharge	(ft)	25.0
	(m)	7.6
Additional charge for each ft	(oz/ft)	0.32
	(g/ft)	30
Liquid side/ Gas side	(inch)	3/8" / 5/8"
	(mm)	9.52/15.9
Max. pipe length	(ft)	164.0
	(m)	50.0
Max. difference in level	(ft)	82.0
	(m)	25.0
Connection method		(Flared)
Indoor(cooling/ heating)	(Deg. °F)	60~90 / 32~86
	(Deg. °C)	16~32 / 0~30
Outdoor(cooling/heating)	(Deg. °F)	-13~122 / -13~75
	(Deg. °C)	-25~50 / -25~24
Application area	(sq.ft)	344.44~505.90
	(m2)	32~47

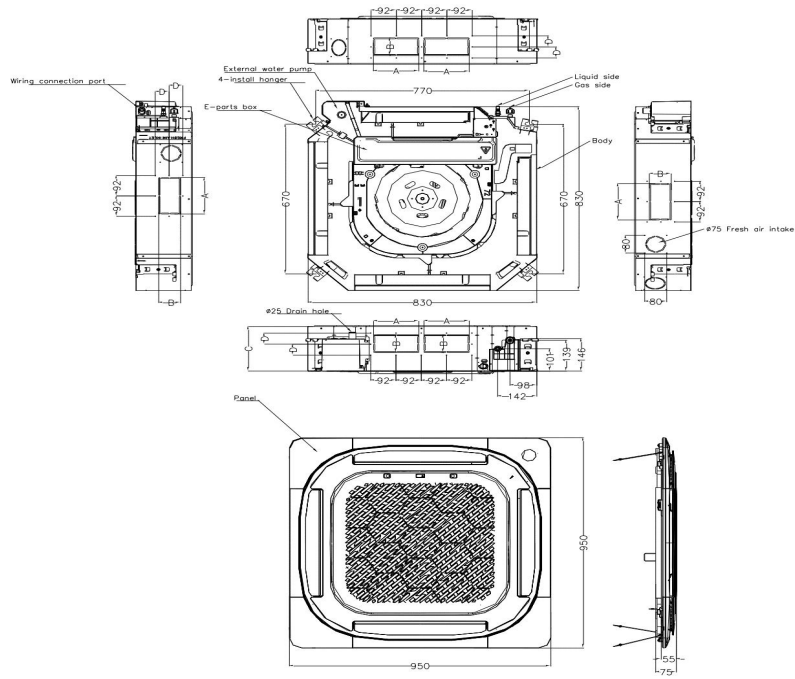
INDOOR UNIT DATA

Indoor fan motor		
Type		Cross-Flow
Model		ZKFN-45-8-1
Qty		1
Input	(W)	72
RLA	(A)	-
LRA	(A)	---
Winding Resistance	(Ω)	---
Capacitor	(uF)	---
Speed(Hi/Mi/Lo)	(r/min)	680/624/568/512
Air flow & Noise level		
Indoor air flow (Hi/Med/Lo) (N)	(CFM)	705.88/635.29/547.06
Indoor noise level (Hi/Med/Lo)	[dB(A)]	49/46/43
Dehumidification		
	(Pint/H)	---
Indoor unit		
Dimension (WxDxH)	(inch)	32.68x32.68x8.07
	(mm)	830x830x205
Packing(WxDxH)	(inch)	35.83x35.83x9.84
	(mm)	910x910x250
Net/Gross weight	(lbs.)	47.18/55.34
	(kg)	21.4/25.1

OUTDOOR UNIT DATA

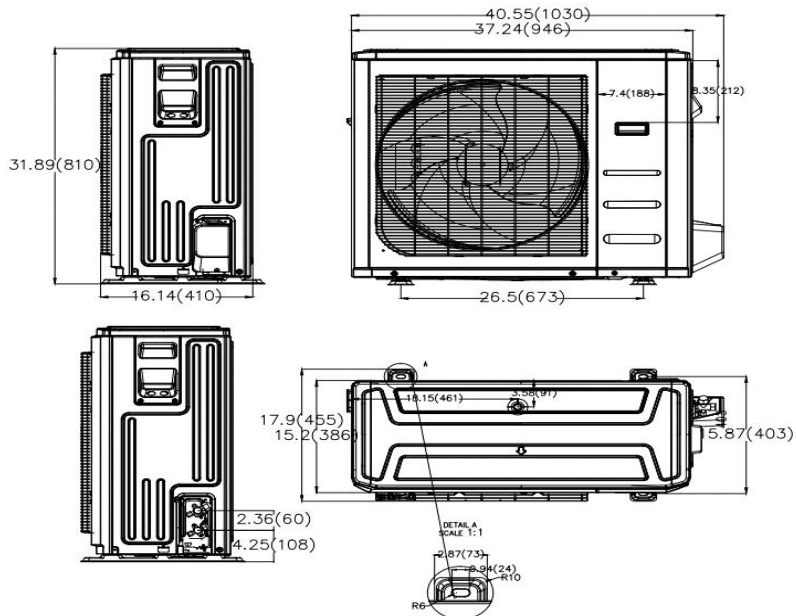
Compressor		
Type		KTM240D43UKT
Model		DUAL ROTARY
Brand		GMCC
Capacity	(Btu/h)	25932.27641
Input	(W)	2045
Rated current (RLA)	(A)	-
Refrigerant oil/oil charge	(ml)	-
Throttle		Capillary + EXV
Outdoor fan motor		
Model		ZKFN-120-8-2
Qty		1
Input	(W)	--
RLA	(A)	--
Speed	(r/min)	900/810/450/360
Air flow & Noise level		
Outdoor air flow (Max.)	(CFM)	2235.30
Outdoor noise level	[dB(A)]	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

Indoor unit dimension



Capacity (Btu/h)	Unit	A	B	C	D
24K	mm	165	80	205	50
	inch	6.5	3.15	8.07	1.97
36K	mm	165	100	245	60
	inch	6.5	3.64	9.65	2.36
48K	mm	165	100	287	60
	inch	6.5	3.64	11.30	2.36

Outdoor unit dimension



General Features

Wireless Remote with LCD Display
Follow Me
Sleep
Timer
Self Clean
46F Heating
Silent

Extended Performance Data