

<b>TPA-09/CHF09CD(O)</b>	<b>9,000 BTU/H(208/230V)</b>	<b>Wall Mounted Heat Pump System</b>
Location: _____	Approval: _____	
Engineer: _____	Date: _____	
Submitted to: _____	Construction: _____	
Submitted by: _____	Unit #: _____	
Reference: _____	Drawing #: _____	

**Set Model**  
 Indoor unit model TPA-09  
 Outdoor unit model CHF09CD(O)

**Certified**

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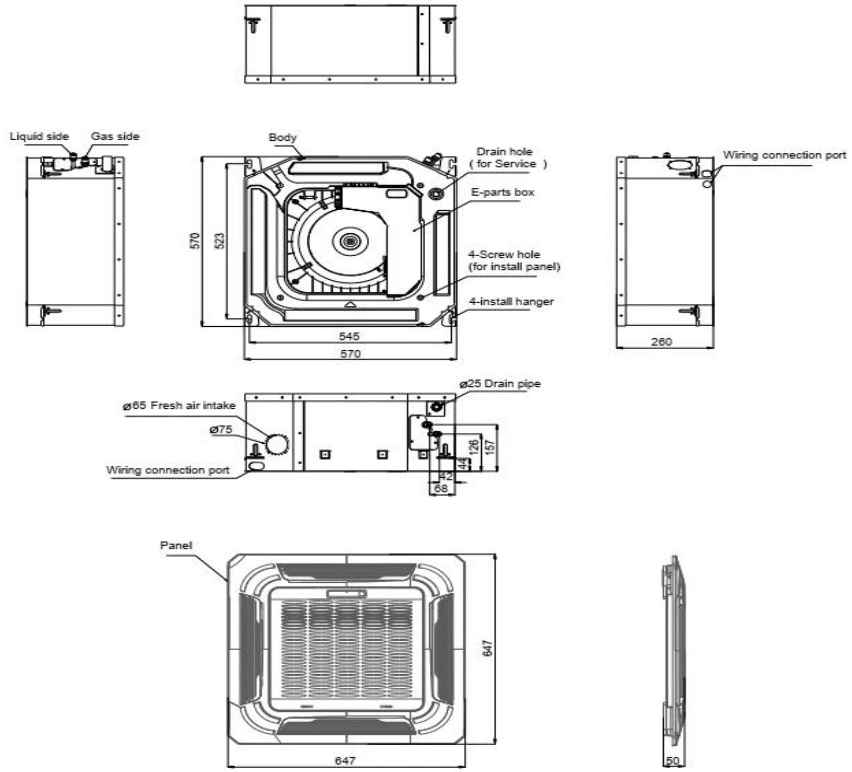
SYSTEM PERFORMANCE DATA		
<b>Power supply</b>		
Normal Operational Voltage	(V, Ph, Hz)	208/230, 1, 60
Voltage Range	(V)	187-253
<b>Electrical</b>		
Minimum circuit ampacity	(A)	15.0
Max.fuse	(A)	15.0
Connection wiring		14*4 AWG
<b>Cooling</b>		
Rated Capacity	(Btu/h)	9000
Capacity Range	(Btu/h)	2850~11100
Power Input (Max)	(W)	692
Rated current	(A)	3.17
SEER	(Btu/W)	20.5
EER	(Btu/W)	13
<b>Heating at 47F</b>		
Rated Capacity	(Btu/h)	10000
Capacity Range	(Btu/h)	2270~12500
Power Input (Max)	(W)	1000
Rated current	(A)	4.58
HSPF4	(Btu/W)	10.8
HSPF5	(Btu/W)	9
COP	W/W	2.93
<b>Heating at 17F</b>		
Max Capacity	(Btu/h)	11800

REFRIGERANT PIPE DATA		
Design pressure	(PSIG)	550/340
Refrigerant Type	(Oz)	R410A/41.62
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)	-22~122 / -22~75
	(Deg. °C)	-30~50 / -30~24
Application area	(sq.ft)	129.17~193.75
	(m2)	12~18

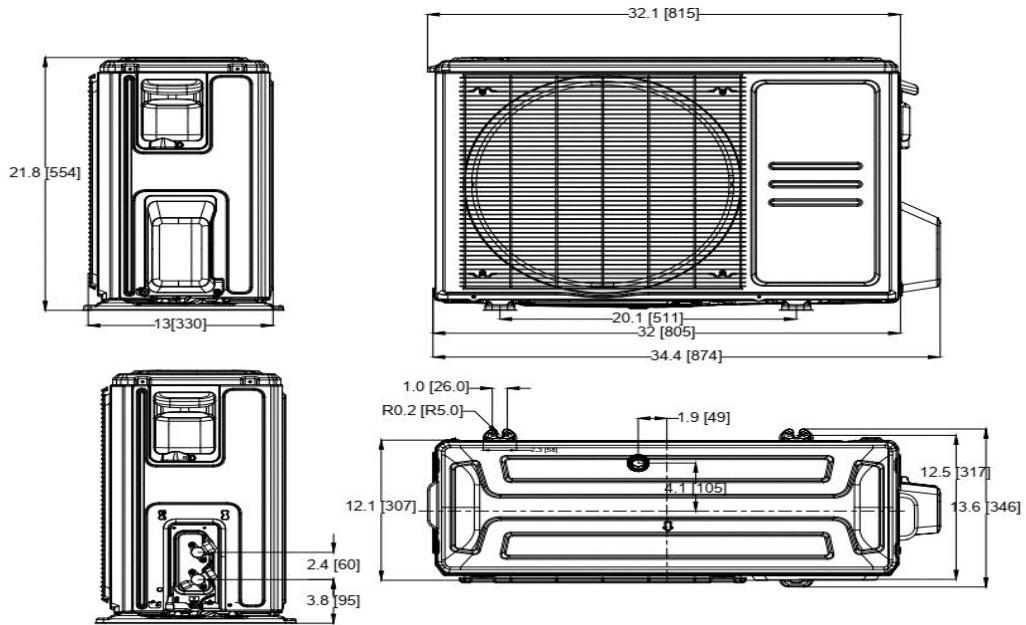
INDOOR UNIT DATA		
<b>Indoor fan motor</b>		
Type		Cross-Flow
Model		ZKFP-46-8-1
Qty		1
Input	(W)	45.0
RLA	(A)	-
LRA	(A)	---
Winding Resistance	(Ω)	---
Capacitor	(uF)	---
Speed(Hi/Mi/Lo)	(r/min)	600/520/460
<b>Air flow &amp; Noise level</b>		
Indoor air flow (Hi/Med/Lo) (N)	(CFM)	352.94/305.88/270.59
Indoor noise level (Hi/Med/Lo)	[dB(A)]	39.5/36/32.5
<b>Dehumidification</b>		
	(Pint/H)	---
<b>Indoor unit</b>		
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		
<b>Compressor</b>		
Type		KTN110D42UFZ
Model		DUAL ROTARY
Brand		GMCC
Capacity	(Btu/h)	11822.58
Input	(W)	885
Rated current (RLA)	(A)	-
Refrigerant oil/oil charge	(ml)	-
Throttle		Capillary +EXV
<b>Outdoor fan motor</b>		
Model		ZKFN-34-10-1
Qty		1
Input	(W)	--
RLA	(A)	--
Speed	(r/min)	850/680/450
<b>Air flow &amp; Noise level</b>		
Outdoor air flow (Max.)	(CFM)	1323.50
Outdoor noise level	[dB(A)]	54.5
<b>Outdoor unit</b>		
Dimension (WxDxH)	(inch)	31.69x12.99x21.81
	(mm)	805x330x554
Packing (WxDxH)	(inch)	36.02x14.57x24.21
	(mm)	915x370x615
Net/ Gross weight	(lbs.)	74.07/80.25
	(kg)	33.6/36.4

Indoor unit dimension



Outdoor unit dimension



**General Features**

Wireless Remote with LCD Display

Sleep

Timer

Self Clean

46F Heating

Silent


**Extended Performance Data**

<b>TPA-12/CHF12CD(O)</b>	<b>12,000 BTU/H(208/230V)</b>	<b>Wall Mounted Heat Pump System</b>
Location: _____	Approval: _____	
Engineer: _____	Date: _____	
Submitted to: _____	Construction: _____	
Submitted by: _____	Unit #: _____	
Reference: _____	Drawing #: _____	

**Set Model**  
 Indoor unit model TPA-12  
 Outdoor unit model CHF12CD(O)

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### SYSTEM PERFORMANCE DATA

<b>Power supply</b>		
Normal Operational Voltage	(V, Ph, Hz)	208/230, 1, 60
Voltage Range	(V)	187-253
<b>Electrical</b>		
Minimum circuit ampacity	(A)	15.0
Max.fuse	(A)	15.0
Connection wiring		14*4 AWG
<b>Cooling</b>		
Rated Capacity	(Btu/h)	12000
Capacity Range	(Btu/h)	3000~13700
Power Input (Max)	(W)	945
Rated current	(A)	4.32
SEER	(Btu/W)	21.5
EER	(Btu/W)	12.7
<b>Heating at 47F</b>		
Rated Capacity	(Btu/h)	12000
Capacity Range	(Btu/h)	2000~15300
Power Input (Max)	(W)	1091
Rated current	(A)	4.99
HSPF4	(Btu/W)	10.6
HSPF5	(Btu/W)	8.8
COP	W/W	3.22
<b>Heating at 17F</b>		
Max Capacity	(Btu/h)	14000

### REFRIGERANT PIPE DATA

Design pressure	(PSIG)	550/340
Refrigerant Type	(Oz)	R410A/41.62
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)	-22~122 / -22~75
	(Deg. °C)	-30~50 / -30~24
Application area	(sq.ft)	172.22~247.57
	(m2)	16~23

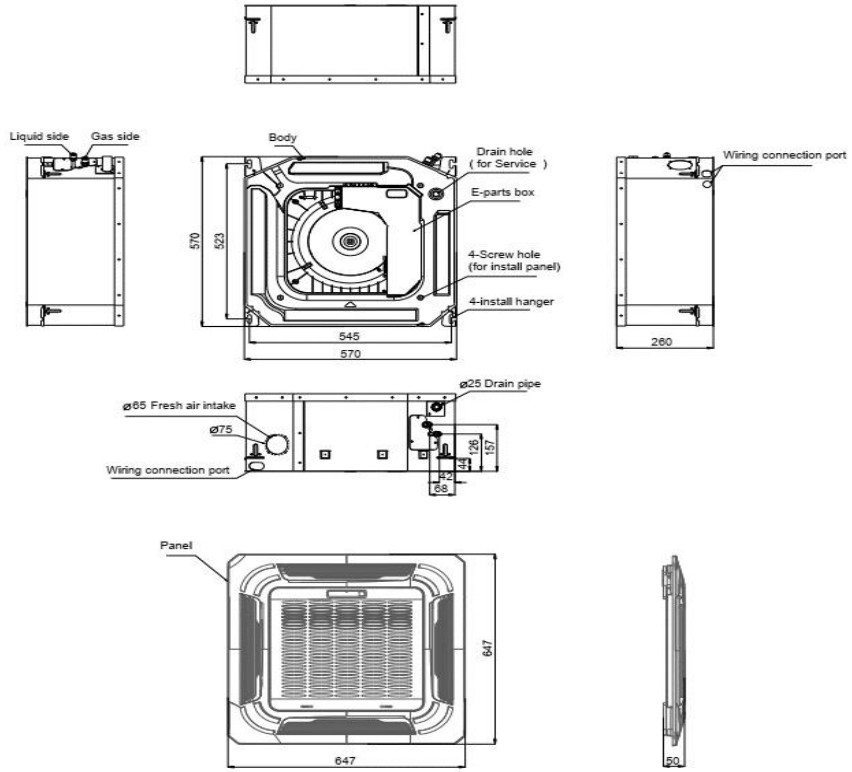
### INDOOR UNIT DATA

<b>Indoor fan motor</b>		
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
<b>Air flow &amp; Noise level</b>		
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
<b>Dehumidification</b>		
	(Pint/H)	---
<b>Indoor unit</b>		
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

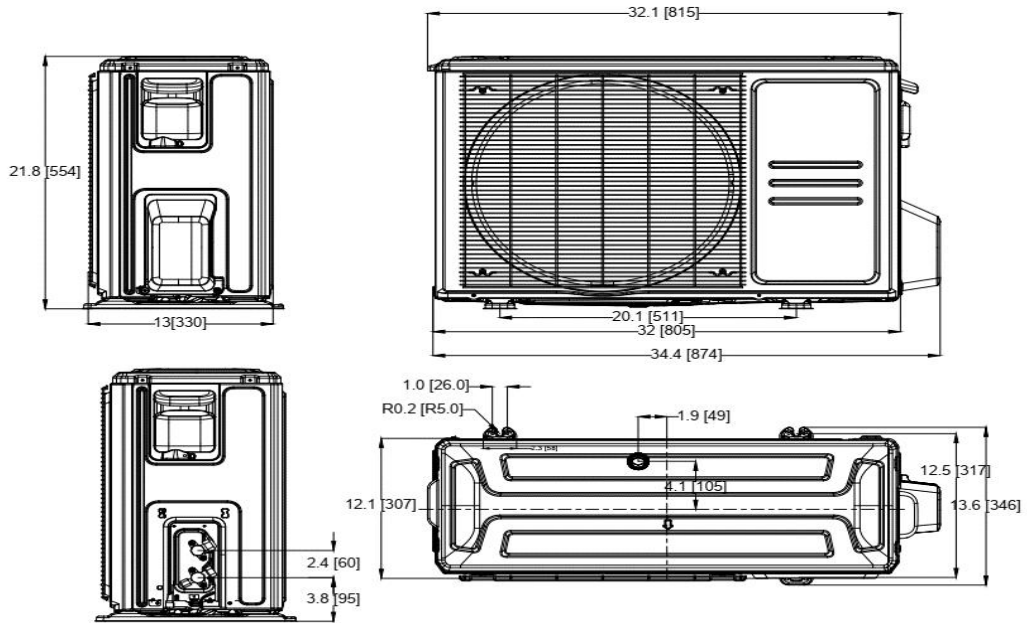
### OUTDOOR UNIT DATA

<b>Compressor</b>		
Type		KTN110D42UFZ
Model		DUAL ROTARY
Brand		GMCC
Capacity	(Btu/h)	11822.58
Input	(W)	885
Rated current (RLA)	(A)	-
Refrigerant oil/oil charge	(ml)	-
Throttle		Capillary +EXV
<b>Outdoor fan motor</b>		
Model		ZKFN-34-10-1
Qty		1
Input	(W)	--
RLA	(A)	--
Speed	(r/min)	850/680/450
<b>Air flow &amp; Noise level</b>		
Outdoor air flow (Max.)	(CFM)	1323.50
Outdoor noise level	[dB(A)]	56
<b>Outdoor unit</b>		
Dimension (W×D×H)	(inch)	31.69x12.99x21.81
	(mm)	805x330x554
Packing (W×D×H)	(inch)	36.02x14.57x24.21
	(mm)	915x370x615
Net/ Gross weight	(lbs.)	73.63/79.37
	(kg)	33.4/36

Indoor unit dimension



Outdoor unit dimension



**General Features**

Wireless Remote with LCD Display

Sleep

Timer

Self Clean

46F Heating


Silent


**Extended Performance Data**

<b>TPA-18/CHF18CD(O)</b>	<b>18,000 BTU/H(208/230V)</b>	<b>Wall Mounted Heat Pump System</b>
Location: _____	Approval: _____	
Engineer: _____	Date: _____	
Submitted to: _____	Construction: _____	
Submitted by: _____	Unit #: _____	
Reference: _____	Drawing #: _____	

**Set Model**  
 Indoor unit model TPA-18  
 Outdoor unit model CHF18CD(O)

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### SYSTEM PERFORMANCE DATA

<b>Power supply</b>		
Normal Operational Voltage	(V, Ph, Hz)	208/230, 1, 60
Voltage Range	(V)	187-253
<b>Electrical</b>		
Minimum circuit ampacity	(A)	16.0
Max.fuse	(A)	25.0
Connection wiring		14*4 AWG
<b>Cooling</b>		
Rated Capacity	(Btu/h)	16000
Capacity Range	(Btu/h)	5600~17000
Power Input (Max)	(W)	1280
Rated current	(A)	8.0
SEER	(Btu/W)	20.0
EER	(Btu/W)	12.5
<b>Heating at 47F</b>		
Rated Capacity	(Btu/h)	18000
Capacity Range	(Btu/h)	8700~21000
Power Input (Max)	(W)	1832
Rated current	(A)	11.0
HSPF4	(Btu/W)	10.3
HSPF5	(Btu/W)	8.7
COP	W/W	2.88
<b>Heating at 17F</b>		
Max Capacity	(Btu/h)	18000

### REFRIGERANT PIPE DATA

Design pressure	(PSIG)	550/340
Refrigerant Type	(Oz)	R410A/65.2
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)	-22~122 / -22~75
	(Deg. °C)	-30~50 / -30~24
Application area	(sq.ft)	226.04~333.68
	(m2)	21~31

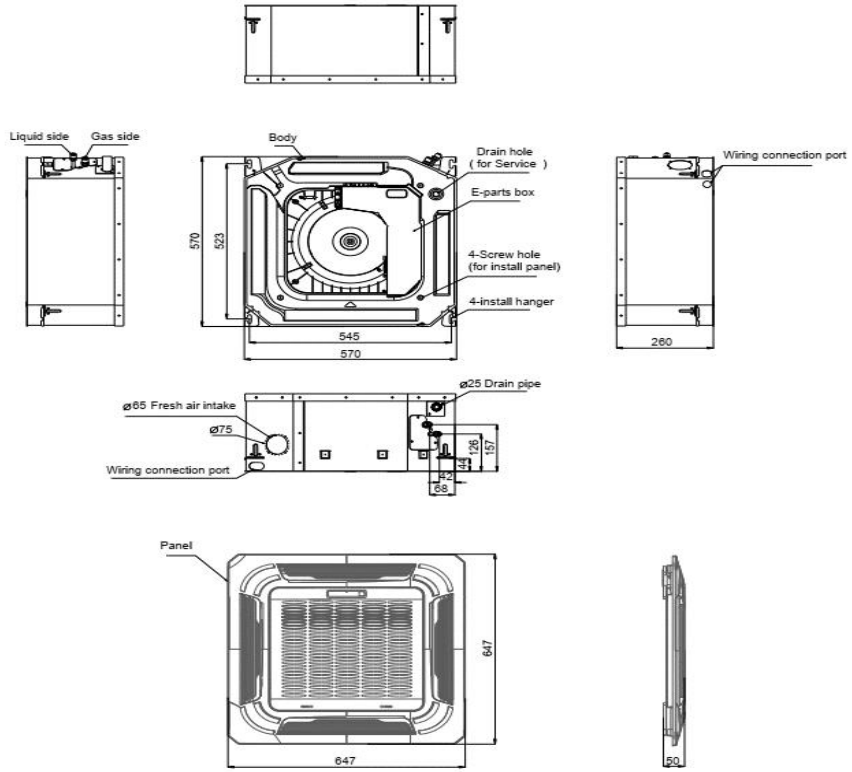
### INDOOR UNIT DATA

<b>Indoor fan motor</b>		
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)	730/630/570
<b>Air flow &amp; Noise level</b>		
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
<b>Dehumidification</b>		
	(Pint/H)	---
<b>Indoor unit</b>		
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

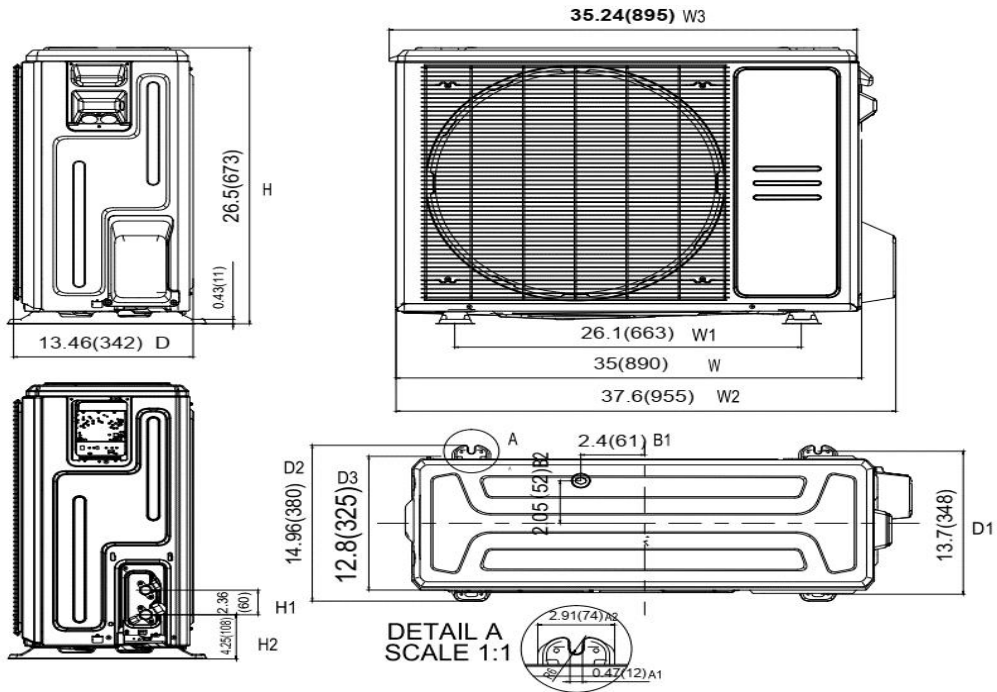
### OUTDOOR UNIT DATA

<b>Compressor</b>		
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
<b>Outdoor fan motor</b>		
Model		ZKFN-80-8-3
Qty		1
Input	(W)	--
RLA	(A)	--
Speed	(r/min)	810/720
<b>Air flow &amp; Noise level</b>		
Outdoor air flow (Max.)	(CFM)	1764.70
Outdoor noise level	[dB(A)]	59
<b>Outdoor unit</b>		
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.)	100.97/108.03
	(kg)	45.8/49

Indoor unit dimension



Outdoor unit dimension





**General Features**

Wireless Remote with LCD Display

Sleep

Timer

Self Clean

46F Heating

Silent

**Extended Performance Data**

<b>TIP24/CHF24CD(O)</b>	<b>24,000 BTU/H(208/230V)</b>	<b>Wall Mounted Heat Pump System</b>
Location: _____	Approval: _____	
Engineer: _____	Date: _____	
Submitted to: _____	Construction: _____	
Submitted by: _____	Unit #: _____	
Reference: _____	Drawing #: _____	

**Set Model**  
 Indoor unit model      TIP24  
 Outdoor unit model    CHF24CD(O)

**Certified**

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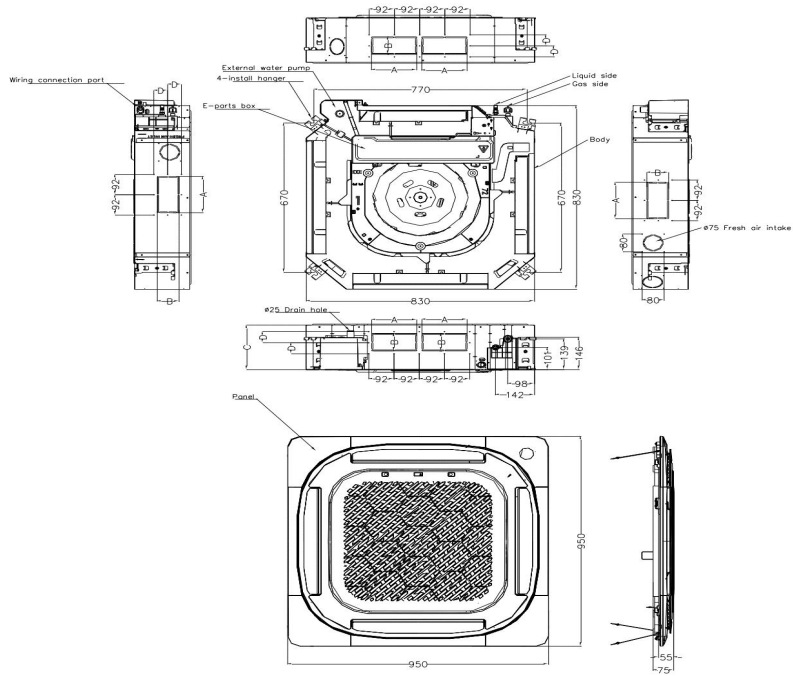
SYSTEM PERFORMANCE DATA		
<b>Power supply</b>		
Normal Operational Voltage	(V, Ph, Hz)	208/230, 1, 60
Voltage Range	(V)	187-253
<b>Electrical</b>		
Minimum circuit ampacity	(A)	25.0
Max.fuse	(A)	35.0
Connection wiring		14*4 AWG
<b>Cooling</b>		
Rated Capacity	(Btu/h)	24000
Capacity Range	(Btu/h)	8000~25000
Power Input (Max)	(W)	2182
Rated current	(A)	8.5
SEER	(Btu/W)	20.2
EER	(Btu/W)	11
<b>Heating at 47F</b>		
Rated Capacity	(Btu/h)	25000
Capacity Range	(Btu/h)	111840~27000
Power Input (Max)	(W)	2093
Rated current	(A)	9.8
HSPF4	(Btu/W)	11.6
HSPF5	(Btu/W)	9
COP	W/W	3.50
<b>Heating at 17F</b>		
Max Capacity	(Btu/h)	24100

REFRIGERANT PIPE DATA		
Design pressure	(PSIG)	550/340
Refrigerant Type	(Oz)	R410A/91.7
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)	-22~122 / -22~75
	(Deg. °C)	-30~50 / -30~24
Application area	(sq.ft)	344.44~505.90
	(m2)	32~47

INDOOR UNIT DATA		
<b>Indoor fan motor</b>		
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
<b>Air flow &amp; Noise level</b>		
Indoor air flow (Hi/Med/Lo) (N)	(CFM)	705.88/635.29/547.06
Indoor noise level (Hi/Med/Lo)	[dB(A)]	48/45.5/43
<b>Dehumidification</b>		
	(Pint/H)	---
<b>Indoor unit</b>		
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

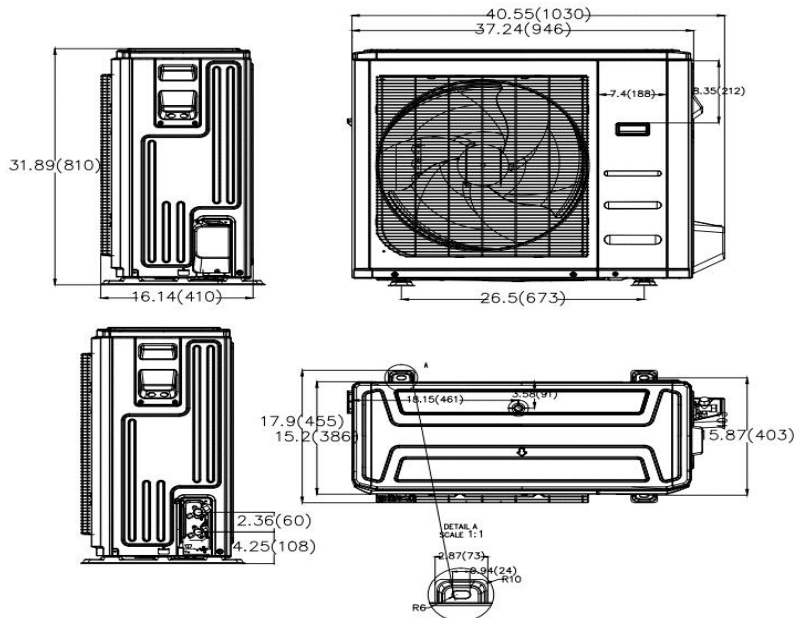
OUTDOOR UNIT DATA		
<b>Compressor</b>		
Type		KTM240D43UKT
Model		DUAL ROTARY
Brand		GMCC
Capacity	(Btu/h)	25932.27641
Input	(W)	2045
Rated current (RLA)	(A)	-
Refrigerant oil/oil charge	(ml)	-
Throttle		Capillary + EXV
<b>Outdoor fan motor</b>		
Model		ZKFN-120-8-2
Qty		1
Input	(W)	--
RLA	(A)	--
Speed	(r/min)	1150/1050/900/850
<b>Air flow &amp; Noise level</b>		
Outdoor air flow (Max.)	(CFM)	2235.30
Outdoor noise level	[dB(A)]	62
<b>Outdoor unit</b>		
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.)	134.48/144.40
	(kg)	61/65.5

### 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**