



| | | |
|--------------------------|-------------------------------|--------------------------------------|
| FPA-18/CHF18CD(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 FPA-18
 Outdoor unit model CHF18CD(O)

Certified

AHRI 

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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) | 16.0 |
| Max.fuse | (A) | 25.0 |
| Connection wiring | 14AWG*4 | Stranded, unshielded |
| Cooling | | |
| Rated Capacity | (Btu/h) | 17000 |
| Capacity Range | (Btu/h) | 7800~19900 |
| Power Input (Max) | (W) | 1360 |
| Rated current | (A) | 8.80 |
| SEER | (Btu/W) | 20.2 |
| EER | (Btu/W) | 12.5 |

| | | |
|-----------------------|---------|------------|
| Heating at 47F | | |
| Rated Capacity | (Btu/h) | 18000 |
| Capacity Range | (Btu/h) | 8600~21500 |
| Power Input (Max) | (W) | 1655 |
| Rated current | (A) | 10.90 |
| HSPF4 | (Btu/W) | 10.6 |
| HSPF5 | (Btu/W) | 8.6 |
| COP | W/W | 3.19 |

| | | |
|-----------------------|---------|-------|
| Heating at 17F | | |
| 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) | 247.57~355.21 |
| | (m2) | 23~33 |

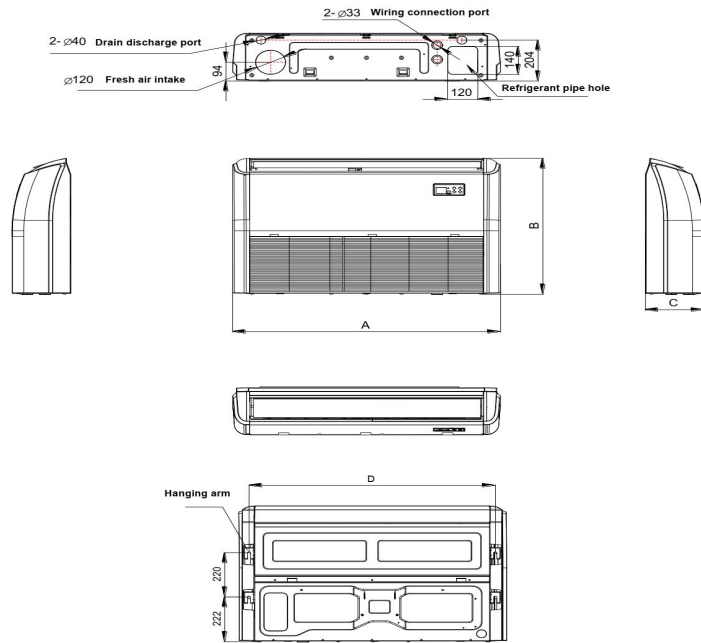
INDOOR UNIT DATA

| | | |
|-----------------------------------|----------|----------------------|
| Indoor fan motor | | |
| Type | | Cross-Flow |
| Model | | ZKFN-90-8-1 |
| Qty | | 1 |
| Input | (W) | 96.0 |
| RLA | (A) | - |
| LRA | (A) | --- |
| Winding Resistance | (Ω) | --- |
| Capacitor | (uF) | --- |
| Speed(Hi/Mi/Lo) | (r/min) | 950/850/750 |
| Air flow & Noise level | | |
| Indoor air flow (Hi/Med/Lo) | (CFM) | 548.24/485.29/420.59 |
| Indoor noise level (Hi/Med/Lo) | [dB(A)] | 45.5/43/39 |
| Dehumidification | | |
| | (Pint/H) | --- |
| Indoor unit | | |
| Dimension (WxDxH) | (inch) | 42.05x26.57x9.25 |
| | (mm) | 1068x675x235 |
| Packing(WxDxH) | (inch) | 45.08x29.72x12.52 |
| | (mm) | 1145x755x318 |
| Net/Gross weight | (lbs.) | 57.10/68.34 |
| | (kg) | 25.9/31 |

OUTDOOR UNIT DATA

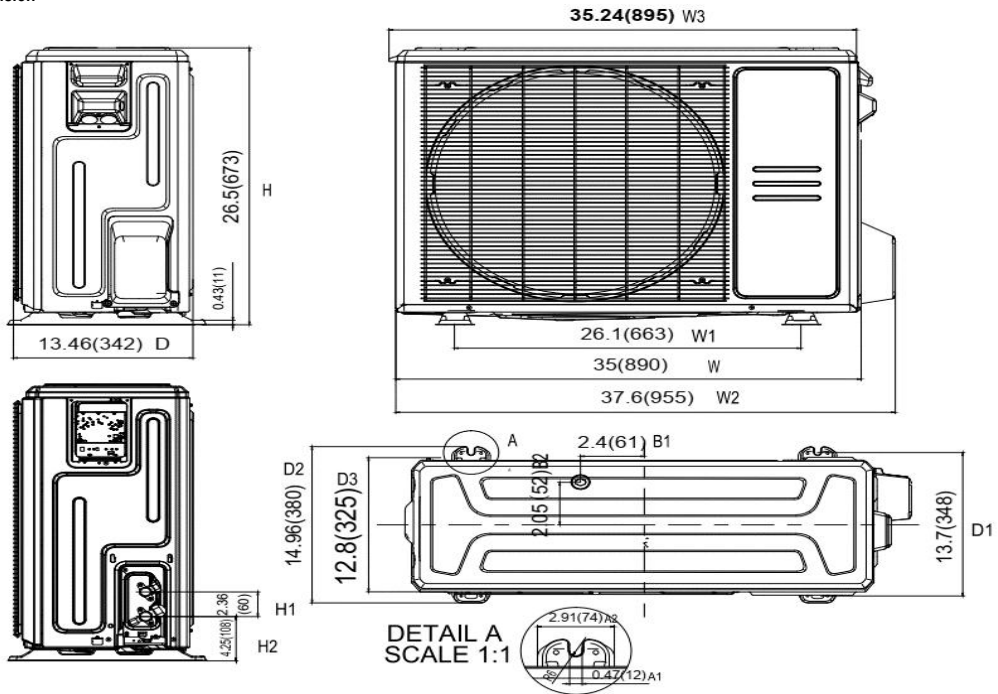
| | | |
|-----------------------------------|---------|-------------------|
| Compressor | | |
| Type | | KTM240D43UKT |
| Model | | DUAL ROTARY |
| Brand | | GMCC |
| Capacity | (Btu/h) | 25932.27641 |
| Input | (W) | 2045 |
| Rated current (RLA) | (A) | - |
| Refrigerant oil/oil charge | (ml) | - |
| Throttle | | Capillary + EXV |
| Outdoor fan motor | | |
| Model | | ZKFN-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)] | 59 |
| Outdoor unit | | |
| Dimension (WxDxH) | (inch) | 35.04x13.46x26.50 |
| | (mm) | 890x342x673 |
| Packing (WxDxH) | (inch) | 39.17x15.67x29.13 |
| | (mm) | 995x398x740 |
| Net/ Gross weight | (lbs.) | 100.97/108.03 |
| | (kg) | 45.8/49 |

Indoor unit dimension



| Capacity (Btu/h) | Unit | A | B | C | D |
|------------------|------|-------|-------|------|-------|
| 18K / 24K | mm | 1068 | 675 | 235 | 983 |
| | inch | 42.05 | 26.57 | 9.25 | 38.70 |
| 36K | mm | 1285 | 675 | 235 | 1200 |
| | inch | 50.59 | 26.57 | 9.25 | 47.24 |
| 48K/60K | mm | 1650 | 675 | 235 | 1565 |
| | inch | 64.96 | 26.57 | 9.25 | 61.61 |

Outdoor unit dimension



General Features

Wired controller(optional)
Weekly-time wired controller(optional)
Central controller
Long distance Alarm and ON/OFF controller(optional)
Build-in pump(optional)
3D airflow

Extended Performance Data

| | | |
|--------------------------|-------------------------------|--------------------------------------|
| FPA-24/CHF24CD(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 FPA-24
 Outdoor unit model CHF24CD(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) | 25.0 |
| Max.fuse | (A) | 35.0 |
| Connection wiring | 14AWG*4 Stranded, unshielded | |
| Cooling | | |
| Rated Capacity | (Btu/h) | 24000 |
| Capacity Range | (Btu/h) | 5400~26800 |
| Power Input (Max) | (W) | 2087 |
| Rated current | (A) | 9.55 |
| SEER | (Btu/W) | 20.2 |
| EER | (Btu/W) | 11.5 |
| Heating at 47F | | |
| Rated Capacity | (Btu/h) | 24600 |
| Capacity Range | (Btu/h) | 12500~30500 |
| Power Input (Max) | (W) | 2000 |
| Rated current | (A) | 9.15 |
| HSPF4 | (Btu/W) | 11.6 |
| HSPF5 | (Btu/W) | 10.0 |
| COP | W/W | 3.52 |
| Heating at 17F | | |
| Max Capacity | (Btu/h) | 26661 |

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 |

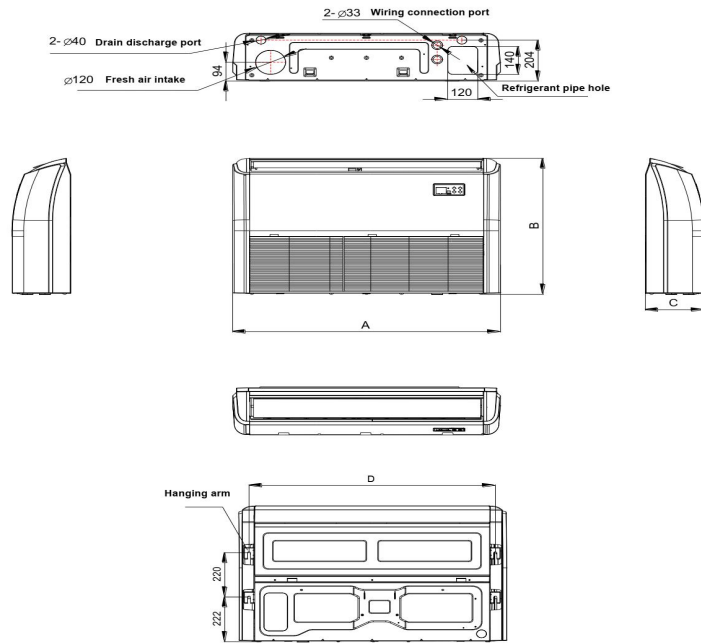
INDOOR UNIT DATA

| | | |
|-----------------------------------|----------|----------------------|
| Indoor fan motor | | |
| Type | | Cross-Flow |
| Model | | ZKFN-90-8-1 |
| Qty | | 1 |
| Input | (W) | 96.0 |
| RLA | (A) | - |
| LRA | (A) | --- |
| Winding Resistance | (Ω) | --- |
| Capacitor | (uF) | --- |
| Speed(Hi/Mi/Lo) | (r/min) | 1350/1260/1120 |
| Air flow & Noise level | | |
| Indoor air flow (Hi/Med/Lo) | (CFM) | 758.82/708.24/598.24 |
| Indoor noise level (Hi/Med/Lo) | [dB(A)] | 51/47.5/42 |
| Dehumidification | | |
| | (Pint/H) | --- |
| Indoor unit | | |
| Dimension (WxDxH) | (inch) | 42.05x26.57x9.25 |
| | (mm) | 1068x675x235 |
| Packing(WxDxH) | (inch) | 45.08x29.72x12.52 |
| | (mm) | 1145x755x318 |
| Net/Gross weight | (lbs.) | 60.63/72.09 |
| | (kg) | 27.5/32.7 |

OUTDOOR UNIT DATA

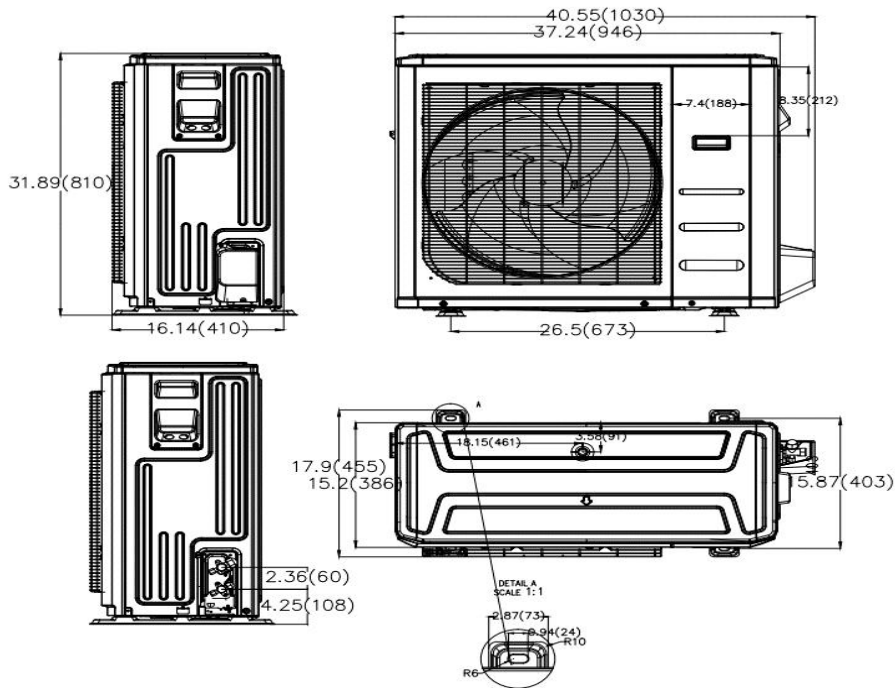
| | | |
|-----------------------------------|---------|-------------------|
| Compressor | | |
| Type | | KTM240D43UKT |
| Model | | DUAL ROTARY |
| Brand | | GMCC |
| Capacity | (Btu/h) | 25932.27641 |
| Input | (W) | 2045 |
| Rated current (RLA) | (A) | - |
| Refrigerant oil/oil charge | (ml) | - |
| Throttle | | Capillary + EXV |
| Outdoor fan motor | | |
| Model | | ZKFN-120-8-2 |
| Qty | | 1 |
| Input | (W) | -- |
| RLA | (A) | -- |
| Speed | (r/min) | 1150/1050/900/850 |
| Air flow & Noise level | | |
| Outdoor air flow (Max.) | (CFM) | 2235.30 |
| Outdoor noise level | [dB(A)] | 62 |
| Outdoor unit | | |
| Dimension (WxDxH) | (inch) | 37.24x16.14x31.89 |
| | (mm) | 946x410x810 |
| Packing (WxDxH) | (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 |
|------------------|------|-------|-------|------|-------|
| 18K / 24K | mm | 1068 | 675 | 235 | 983 |
| | inch | 42.05 | 26.57 | 9.25 | 38.70 |
| 36K | mm | 1285 | 675 | 235 | 1200 |
| | inch | 50.59 | 26.57 | 9.25 | 47.24 |
| 48K/60K | mm | 1650 | 675 | 235 | 1565 |
| | inch | 64.96 | 26.57 | 9.25 | 61.61 |

Outdoor unit dimension



General Features

Wired controller(optional)
Weekly-time wired controller(optional)
Central controller
Long distance Alarm and ON/OFF controller(optional)
Build-in pump(optional)
3D airflow

Extended Performance Data

SUBMITTAL DATA SHEET



| | | |
|----------------------------|-------------------------------|--------------------------------------|
| FPA-36DU/CHF36CD(O) | 36,000 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: FPA-36DU
 Outdoor unit model: CHF36CD(O)

Certified

AHRI

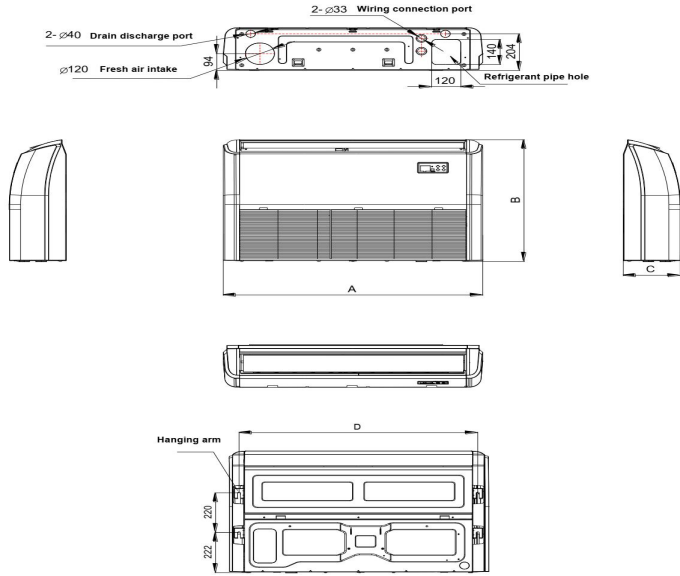
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| SYSTEM PERFORMANCE DATA | | |
|-------------------------------|-------------|----------------------------|
| Power supply | | |
| Normal Operational Voltage | (V, Ph, Hz) | 208/230, 1, 60 |
| Voltage Range | (V) | 187-253 |
| Electrical | | |
| Minimum circuit ampacity | (A) | 41.0 |
| Max.fuse | (A) | 50.0 |
| Connection wiring | | 14AWG*2 Stranded, shielded |
| Cooling | | |
| Rated Capacity | (Btu/h) | 36000 |
| Capacity Range | (Btu/h) | 7774~42165 |
| Power Input (Max) | (W) | 4200 |
| Rated current | (A) | 17.8 |
| SEER | (Btu/W) | 17.5 |
| EER | (Btu/W) | 8.6 |
| Heating at 47F | | |
| Rated Capacity | (Btu/h) | 39000 |
| Capacity Range | (Btu/h) | 11501~45750 |
| Power Input (Max) | (W) | 4250 |
| Rated current | (A) | 19 |
| HSPF4 | (Btu/W) | 10 |
| HSPF5 | (Btu/W) | 8.5 |
| COP | W/W | 2.69 |
| Heating at 17F | | |
| Max Capacity | (Btu/h) | 25000 |
| REFRIGERANT PIPE DATA | | |
| Design pressure | (PSIG) | 550/340 |
| Refrigerant Type | (Oz) | R410A/148 |
| 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) | Optional |
| | (mm) | Optional |
| Max. pipe length | (ft) | 213.0 |
| | (m) | 65.0 |
| Max. difference in level | (ft) | 98.0 |
| | (m) | 30.0 |
| Connection method | | (Flared) |
| Indoor(cooling/ heating) | (Deg. °F) | / No |
| | (Deg. °C) | 92/188/213 / Yes |
| Outdoor(cooling/heating) | (Deg. °F) | -22~-122 / -22~-75 |
| | (Deg. °C) | -30~-50 / -30 ~ 24 |
| Application area | (sq.ft) | 516.67 ~ 753.47 |
| | (m2) | 48 ~ 70 |

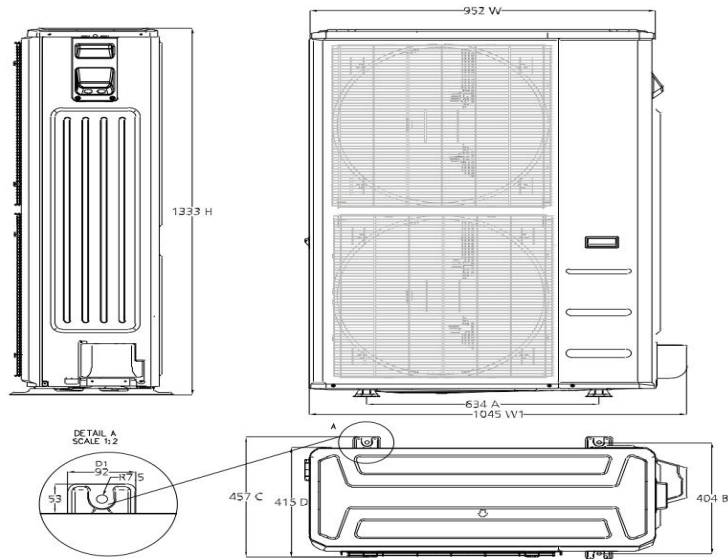
| INDOOR UNIT DATA | | |
|-----------------------------------|----------|-----------------------|
| Indoor fan motor | | |
| Type | | Cross-Flow |
| Model | | ZKFN-115-8-1 |
| Qty | | 1 |
| Input | (W) | 130.0 |
| RLA | (A) | - |
| LRA | (A) | --- |
| Winding Resistance | (Ω) | --- |
| Capacitor | (uF) | --- |
| Speed(Hi/Mi/Lo) | (r/min) | 1300/1150/800 |
| Air flow & Noise level | | |
| Indoor air flow (Hi/Med/Lo) (No c | (CFM) | 1036.47/917.06/637.65 |
| Indoor noise level (Hi/Med/Lo) | [dB(A)] | 51.5/48.0/40.5 |
| Dehumidification | | |
| | (Pint/H) | --- |
| Indoor unit | | |
| Dimension (WxDxH) | (inch) | 50.59x26.57x9.25 |
| | (mm) | 1285x675x235 |
| Packing(WxDxH) | (inch) | 53.54x29.72x12.32 |
| | (mm) | 1360x755x318 |
| Net/Gross weight | (lbs.) | 69.00/81.57 |
| | (kg) | 31.3/37 |
| OUTDOOR UNIT DATA | | |
| Compressor | | |
| Type | | EAPQ420D1UMUA |
| Model | | ROTARY |
| Brand | | GMCC |
| Capacity | (Btu/h) | 44015 |
| Input | (W) | 3565 |
| Rated current (RLA) | (A) | - |
| Refrigerant oil/oil charge | (ml) | INT01L-4639 |
| Throttle | | Capillary +EXV |
| Outdoor fan motor | | |
| Model | | ZKFN-85-8-22-5 |
| Qty | | 2 |
| Input | (W) | -- |
| RLA | (A) | -- |
| Speed | (r/min) | 900/850/800/750 |
| Air flow & Noise level | | |
| Outdoor air flow (Max.) | (CFM) | 4500.00 |
| Outdoor noise level | [dB(A)] | 63.0 |
| Outdoor unit | | |
| Dimension (W×D×H) | (inch) | 37.48x16.34x52.48 |
| | (mm) | 952x415x1333 |
| Packing (W×D×H) | (inch) | 43.11x19.49x58.27 |
| | (mm) | 1095x495x1480 |
| Net/ Gross weight | (lbs.) | 220.24/248.02 |
| | (kg) | 99.9/112.5 |

Indoor unit dimension



| Capacity (Btu/h) | Unit | A | B | C | D |
|------------------|------|-------|-------|------|-------|
| 18K / 24K | mm | 1068 | 675 | 235 | 983 |
| | inch | 42.05 | 26.57 | 9.25 | 38.70 |
| 36K | mm | 1285 | 675 | 235 | 1200 |
| | inch | 50.59 | 26.57 | 9.25 | 47.24 |
| 48K/60K | mm | 1650 | 675 | 235 | 1565 |
| | inch | 64.96 | 26.57 | 9.25 | 61.61 |

Outdoor unit dimension



General Features

Wired controller(optional)

Weekly-time wired controller(optional)

Central controller

Long distance Alarm and ON/OFF controller(optional)

Build-in pump(optional)

3D airflow

Extended Performance Data

SUBMITTAL DATA SHEET



| | | |
|----------------------------|-------------------------------|--------------------------------------|
| FPA-48DU/CHF48CD(O) | 48,000 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: FPA-48DU
 Outdoor unit model: CHF48CD(O)

Certified

AHRI

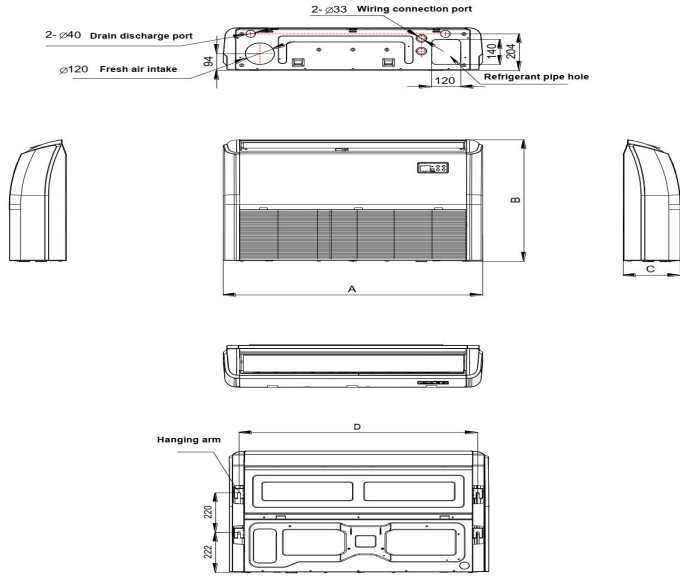
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| SYSTEM PERFORMANCE DATA | | | |
|-------------------------------|-------------|----------------------------|----------------|
| Power supply | | | |
| Normal Operational Voltage | (V, Ph, Hz) | | 208/230, 1, 60 |
| Voltage Range | (V) | | 187-253 |
| Electrical | | | |
| Minimum circuit ampacity | (A) | | 42.0 |
| Max.fuse | (A) | | 50.0 |
| Connection wiring | | 14AWG*2 Stranded, shielded | |
| Cooling | | | |
| Rated Capacity | (Btu/h) | | 48000 |
| Capacity Range | (Btu/h) | | 2150~48051 |
| Power Input (Max) | (W) | | 5930 |
| Rated current | (A) | | 24.86 |
| SEER | (Btu/W) | | 17 |
| EER | (Btu/W) | | 8.20 |
| Heating at 47F | | | |
| Rated Capacity | (Btu/h) | | 50000 |
| Capacity Range | (Btu/h) | | 11889~56363 |
| Power Input (Max) | (W) | | 4930 |
| Rated current | (A) | | 20.60 |
| HSPF4 | (Btu/W) | | 10.8 |
| HSPF5 | (Btu/W) | | 9.1 |
| COP | W/W | | 2.97 |
| Heating at 17F | | | |
| Max Capacity | (Btu/h) | | 35000 |
| REFRIGERANT PIPE DATA | | | |
| Design pressure | (PSIG) | | 550/340 |
| Refrigerant Type | (Oz) | R410A/148 | |
| 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) | Optional | |
| | (mm) | Optional | |
| Max. pipe length | (ft) | | 213.0 |
| | (m) | | 65.0 |
| Max. difference in level | (ft) | | 98.0 |
| | (m) | | 30.0 |
| Connection method | | | (Flared) |
| Indoor(cooling/ heating) | (Deg. °F) | / No | |
| | (Deg. °C) | 72/147/167 / Yes | |
| Outdoor(cooling/heating) | (Deg. °F) | -22~-122 / -22~-75 | |
| | (Deg. °C) | -30~-50 / -30~-24 | |
| Application area | (sq.ft) | 688.89~1011.81 | |
| | (m2) | 64~94 | |

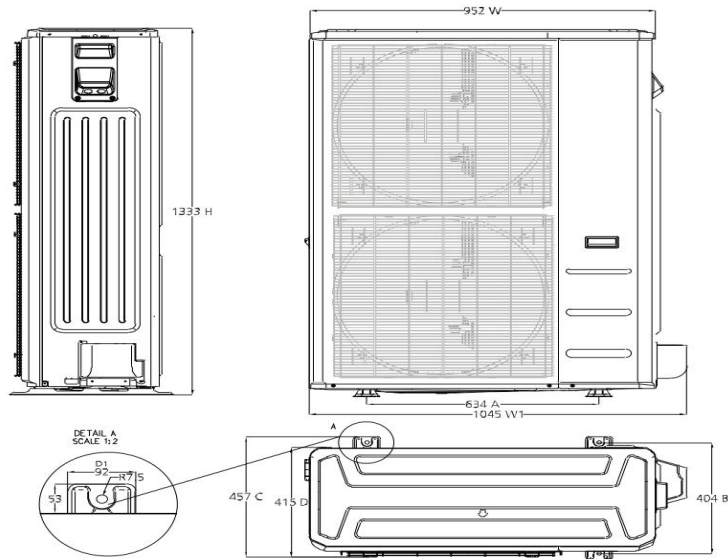
| INDOOR UNIT DATA | | | |
|-----------------------------------|----------|-------------------------|--|
| Indoor fan motor | | | |
| Type | | Cross-Flow | |
| Model | | ZKFN-90-8-1 | |
| Qty | | 2 | |
| Input | (W) | 96.0 | |
| RLA | (A) | - | |
| LRA | (A) | --- | |
| Winding Resistance | (Ω) | --- | |
| Capacitor | (uF) | --- | |
| Speed(Hi/Mi/Lo) | (r/min) | 1320/1200/1120 | |
| Air flow & Noise level | | | |
| Indoor air flow (Hi/Med/Lo) (No c | (CFM) | 1352.94/1117.65/1000.00 | |
| Indoor noise level (Hi/Med/Lo) | [dB(A)] | 55.0/49.5/44.5 | |
| Dehumidification | | | |
| | (Pint/H) | --- | |
| Indoor unit | | | |
| Dimension (WxDxH) | (inch) | 64.96x26.57x9.25 | |
| | (mm) | 1650x675x235 | |
| Packing(WxDxH) | (inch) | 67.91x29.72x12.32 | |
| | (mm) | 1725x755x318 | |
| Net/Gross weight | (lbs.) | 87.74/102.29 | |
| | (kg) | 39.8/46.4 | |
| OUTDOOR UNIT DATA | | | |
| Compressor | | | |
| Type | | EAPQ420D1UMUA | |
| Model | | ROTARY | |
| Brand | | GMCC | |
| Capacity | (Btu/h) | 44015 | |
| Input | (W) | 3565 | |
| Rated current (RLA) | (A) | - | |
| Refrigerant oil/oil charge | (ml) | INT01L-4639 | |
| Throttle | | Capillary +EXV | |
| Outdoor fan motor | | | |
| Model | | ZKFN-85-8-22-5 | |
| Qty | | 2 | |
| Input | (W) | --- | |
| RLA | (A) | --- | |
| Speed | (r/min) | 900/850/800/750 | |
| Air flow & Noise level | | | |
| Outdoor air flow (Max.) | (CFM) | 4500.00 | |
| Outdoor noise level | [dB(A)] | 65 | |
| Outdoor unit | | | |
| Dimension (WxDxH) | (inch) | 37.48x16.34x52.48 | |
| | (mm) | 952x415x1333 | |
| Packing (WxDxH) | (inch) | 43.11x19.49x58.27 | |
| | (mm) | 1095x495x1480 | |
| Net/ Gross weight | (lbs.) | 227.07/255.73 | |
| | (kg) | 103/116 | |

Indoor unit dimension



| Capacity (Btu/h) | Unit | A | B | C | D |
|------------------|------|-------|-------|------|-------|
| 18K / 24K | mm | 1068 | 675 | 235 | 983 |
| | inch | 42.05 | 26.57 | 9.25 | 38.70 |
| 36K | mm | 1285 | 675 | 235 | 1200 |
| | inch | 50.59 | 26.57 | 9.25 | 47.24 |
| 48K/60K | mm | 1650 | 675 | 235 | 1565 |
| | inch | 64.96 | 26.57 | 9.25 | 61.61 |

Outdoor unit dimension



General Features

Wired controller(optional)

Weekly-time wired controller(optional)

Central controller

Long distance Alarm and ON/OFF controller(optional)

Build-in pump(optional)

3D airflow

Extended Performance Data