

**Ceiling & Floor Heat Pump System**

Location: \_\_\_\_\_  
 Engineer: \_\_\_\_\_  
 Submitted to: \_\_\_\_\_  
 Submitted by: \_\_\_\_\_  
 Reference: \_\_\_\_\_

Approval: \_\_\_\_\_  
 Date: \_\_\_\_\_  
 Construction: \_\_\_\_\_  
 Unit #: \_\_\_\_\_  
 Drawing #: \_\_\_\_\_

**Set Model**  
 Indoor unit model CH-36LFCF1 CH-36LFCF1  
 Outdoor unit model CH-N36LCU-230V0 CH-N36LCU-230V0

**Certified**  
 AHRI  
 CSA  
  
 C US



**SYSTEM PERFORMANCE DATA**

|                                   |             |                            |
|-----------------------------------|-------------|----------------------------|
| <b>Power supply</b>               |             |                            |
| Normal Operational Voltage        | (V, Ph, Hz) | 208/230V, 1Ph, 60Hz        |
| Voltage Range                     | (V)         | 187-253                    |
| <b>Electrical</b>                 |             |                            |
| Minimum circuit ampacity(Outdoor) | (A)         | 30.0                       |
| Max. fuse(Outdoor)                | (A)         | 45.0                       |
| Connection wiring                 |             | 14AWG*2 Standard, shielded |
| <b>Cooling</b>                    |             |                            |
| Capacity                          | (Btu/h)     | 36000(11476-36000)         |
| Power Input                       | (W)         | 4235(480-4390)             |
| Current                           | (A)         | 19.09(3.47-19.09)          |
| SEER2                             | (Btu/W)     | 19.0                       |
| EER2                              | (Btu/W)     | 8.5                        |
| <b>Heating</b>                    |             |                            |
| Capacity                          | (Btu/h)     | 38000(11467-38000)         |
| Power Input                       | (W)         | 4150(665-4150)             |
| Current                           | (A)         | 18.04(4.64-18.04)          |
| HSPF2-4                           | (Btu/W)     | 9.0                        |
| HSPF2-5                           | (Btu/W)     | 7.0                        |
| COP                               | W/W         | 2.68                       |
| Heat at 17F(H32)                  | (Btu/h)     | 23000                      |
| Heat at 5F(H42)                   | (Btu/h)     | 22000                      |
| COP at 5F(H42)                    | W/W         | 1.80                       |

**INDOOR UNIT DATA**

|                                       |         |                         |
|---------------------------------------|---------|-------------------------|
| <b>Indoor fan motor</b>               |         |                         |
| Model                                 |         | ZKFN-115-8-1            |
| Qty                                   |         | 1                       |
| Input                                 | (W)     | 130.0                   |
| Output                                | (W)     | 115.0                   |
| RLA                                   | (A)     | 1.50                    |
| Speed(Hi/Mi/Lo)                       | (r/min) | 1300/1150/800           |
| <b>Air flow &amp; Noise level</b>     |         |                         |
| Indoor air flow (Hi/Med/Lo) (No duct) | (CFM)   | //1036.47/917.06/637.65 |
| Indoor noise level (Hi/Med/Lo)        | [dB(A)] | 51.5/48.0/40.5          |
| <b>Dehumidification</b>               | (L/H)   | 4.78                    |
| <b>Indoor unit</b>                    |         |                         |
| Dimension (WxDxH)                     | (inch)  | 50.59x26.57x9.25        |
|                                       | (mm)    | 1285x675x235            |
| Packing(WxDxH)                        | (inch)  | 53.54x29.72x12.52       |
|                                       | (mm)    | 1360x755x318            |
| Net/Gross weight                      | (lb.)   | 69.00/81.57             |
|                                       | (kg)    | 31.3/37                 |

**REFRIGERANT PIPE DATA**

|                                |              |                    |
|--------------------------------|--------------|--------------------|
| Throttle type                  | Indoor unit  | N/A                |
|                                | Outdoor unit | EXV-Throttle valve |
| Design pressure                | (PSIG)       | 550/340            |
| Refrigerant Type               |              | R410A              |
| Refrigerant charge             | oz           | 113.00             |
| Refrigerant precharge          | (ft)         | 25.0               |
|                                | (m)          | 7.5                |
| Additional charge for each ft  | (oz/ft)      | 0.32               |
| Additional charge for each m   | (g/m)        | 30.0               |
| Liquid side/ Gas side(indoor)  | (inch)       | 3/8"5/8"           |
|                                | (mm)         | 9.52/15.9          |
| Liquid side/ Gas side(outdoor) | (inch)       | 3/8"5/8"           |
|                                | (mm)         | 9.52/15.9          |
| Max. pipe length               | (ft)         | 213.3              |
|                                | (m)          | 65.0               |
| Max. difference in level       | (ft)         | 98.4               |
|                                | (m)          | 30.0               |
| Connection method              |              | Flared             |
| Indoor(cooling)                | (Deg. °F)    | 62~90              |
|                                | (Deg. °C)    | 17~32              |
| Indoor(heating)                | (Deg. °F)    | 32~86              |
|                                | (Deg. °C)    | 0~30               |
| Outdoor(cooling)               | (Deg. °F)    | 5~122              |
|                                | (Deg. °C)    | -15~50             |
| Outdoor(heating)               | (Deg. °F)    | 5~75               |
|                                | (Deg. °C)    | -15~24             |

**OUTDOOR UNIT DATA**

|                                   |         |                   |
|-----------------------------------|---------|-------------------|
| <b>Compressor</b>                 |         |                   |
| Type                              |         | ROTARY            |
| Model                             |         | KTF310D43UMT      |
| Brand                             |         | GMCC              |
| Capacity                          | (Btu/h) | 34154             |
| Input                             | (W)     | 2765              |
| Rated current (RLA)               | (A)     | 23.5              |
| Refrigerant oil/oil charge        | (ml)    | VG74/1000         |
| <b>Outdoor fan motor</b>          |         |                   |
| Model                             |         | ZKFN-120-8-2      |
| Qty                               |         | 1                 |
| Input                             | (W)     | 150.00            |
| Output                            | (W)     | 120.00            |
| RLA                               | (A)     | 1.35              |
| Speed                             | (r/min) | 950/800/500       |
| <b>Air flow &amp; Noise level</b> |         |                   |
| Outdoor air flow (Max.)           | (CFM)   | 3000.0            |
| Outdoor noise level               | [dB(A)] | 65.0              |
| <b>Outdoor unit</b>               |         |                   |
| Dimension (WxDxH)                 | (inch)  | 37.24x16.14x31.89 |
|                                   | (mm)    | 946x410x810       |
| Packing (WxDxH)                   | (inch)  | 42.91x19.69x34.84 |
|                                   | (mm)    | 1090x500x885      |
| Net/ Gross weight                 | (lb.)   | 155.42/166.23     |
|                                   | (kg)    | 70.5/75.4         |

**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**