

# SUBMITTAL DATA SHEET

**ComfortStar®**

## CARAT24CD-HP

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

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

### Set Model

Indoor unit model CARAT24CD(I)-HP  
 Outdoor unit model CARAT24CD(O)-HP

### Certified

AHRI



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## SYSTEM PERFORMANCE DATA

### Cooling (Standard conditions)

|              |         |                   |
|--------------|---------|-------------------|
| Power supply | V-Ph-Hz | 208/230V,1Ph,60HZ |
| Capacity     | Btu/h   | 24000             |
| Range        | Btu/h   | 6200~24600        |
| Input        | W       | 2520              |
| Range        | W       | 292~2900          |
| Current      | A       | 11.2              |
| Range        | A       | 1.95~12.7         |
| EER          | Btu/w   | 9.5               |
| EER2         | Btu/w   | 9.5               |
| SEER         | Btu/w   | 18.5              |
| SEER2        | Btu/w   | 18.5              |

### Heating (Standard conditions)

|                   |       |            |
|-------------------|-------|------------|
| Capacity          | Btu/h | 24000      |
| Range             | Btu/h | 6800~26800 |
| Input             | W     | 2320       |
| Range             | W     | 437~2900   |
| Current           | A     | 10.25      |
| Range             | A     | 2.88~12.7  |
| COP               | W/W   | 3.03       |
| HSPF              |       | 10         |
| HSPF2             |       | 8.6        |
| Rated Power Input | W     | 3700       |
| Rated Current     | A     | 16         |

## REFRIGERANT PIPE DATA

### Compressor

|                            |    |                    |
|----------------------------|----|--------------------|
| Model                      |    | KTM240D43UKT       |
| Type                       |    | Twin-ROTARY        |
| Brand                      |    | GMCC               |
| Capacity                   | W  | 7600               |
| Input                      | W  | 2045               |
| Rated current(RLA)         | A  | 9.30               |
| Refrigerant oil/oil charge | ml | ESTER OIL VG74 620 |
| Refrigerant type           | kg | R410A/1.78         |
|                            | oz | R410A/62.83        |

### Refrigerant piping

|                              |          |                             |
|------------------------------|----------|-----------------------------|
| Liquid side/ Gas side        | mm(inch) | 9.52mm(3/8in)/15.9mm(5/8in) |
| Max. refrigerant pipe length | m        | 50                          |
|                              | inch     | 1968.50                     |
| Max. difference in level     | m        | 25                          |
|                              | inch     | 984.25                      |

### Application area (Cooling Standard)

|  |     |              |
|--|-----|--------------|
|  | m2  | 32~47        |
|  | ft2 | 344.44-505.9 |

## INDOOR UNIT DATA

### Indoor fan motor

|                               |       |               |
|-------------------------------|-------|---------------|
| Model                         |       | ZKFP-58-8-1-5 |
| Input                         | W     | 58            |
| Speed(Hi/Mi/Lo)               | r/min | 1200/1080/600 |
| Indoor air flow (Hi/Mi/Lo)    | m3/h  | 929/684/562   |
|                               | CFM   | 546/402/331   |
| Indoor noise level (Hi/Mi/Lo) | dB(A) | 45/39.5/36    |

### Indoor unit dimension

|                  |      |                   |
|------------------|------|-------------------|
| Dimension(W*D*H) | mm   | 1082x234x337      |
|                  | inch | 42.60x9.21x13.27  |
| Packing (W*D*H)  | mm   | 1155x415x315      |
|                  | inch | 45.47x16.34x12.40 |
| Net/Gross weight | kg   | 13.6/17.2         |
|                  | lbs  | 29.98/37.92       |

## OUTDOOR UNIT DATA

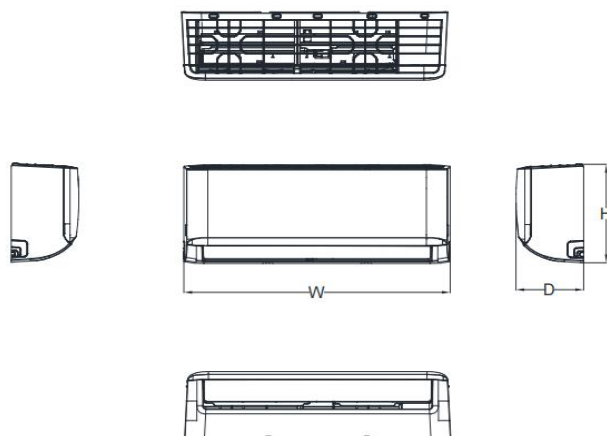
### Outdoor fan motor

|                     |       |             |
|---------------------|-------|-------------|
| Model               |       | ZKFN-80-8-3 |
| Input               | W     | /           |
| Speed               | r/min | 810/720     |
| Outdoor air flow    | m3/h  | 3000        |
|                     | CFM   | 1765.7      |
| Outdoor noise level | dB(A) | 60          |

### Outdoor unit dimension

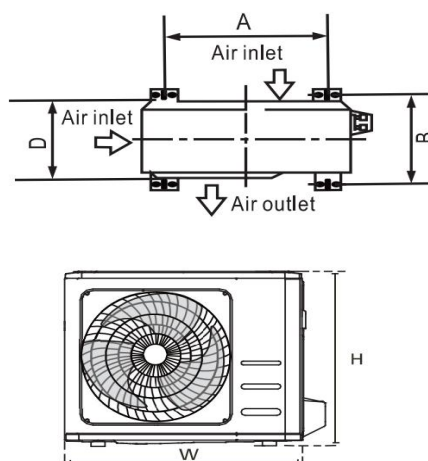
|                  |      |                   |
|------------------|------|-------------------|
| Dimension(W*D*H) | mm   | 890x342x673       |
|                  | inch | 35.04x13.46x26.50 |
| Packing (W*D*H)  | mm   | 1030x438x750      |
|                  | inch | 40.55x17.24x29.53 |
| Net/Gross weight | kg   | 44.4/49.5         |
|                  | lbs  | 97.99/109.13      |

# Indoor unit dimension



| Capacity | Body Code | W(mm/inch) | D(mm/inch) | H(mm/inch) |
|----------|-----------|------------|------------|------------|
| 6K~11K   | A         | 729/28.7   | 200/7.87   | 292/11.5   |
| 8K~14K   | B         | 802/31.57  | 200/7.87   | 295/11.61  |
| 12K~21K  | C         | 971/38.23  | 228/8.98   | 321/12.64  |
| 18K~28K  | D         | 1082/42.6  | 234/9.21   | 337/13.27  |
| 27K~36K  | F         | 1259/49.57 | 283/11.14  | 362/14.25  |

# Outdoor unit dimension



| Outdoor Unit Dimensions (mm)<br>W x H x D | Mounting Dimensions |                 |
|-------------------------------------------|---------------------|-----------------|
|                                           | Distance A (mm)     | Distance B (mm) |
| 681x434x285 (26.8"x17"x11.2")             | 460 (18.10")        | 292 (11.49")    |
| 700x550x270 (27.5"x21.6"x10.62")          | 450 (17.7")         | 260 (10.24")    |
| 700x550x275 (27.5"x21.6"x10.82")          | 450 (17.7")         | 260 (10.24")    |
| 720x495x270 (28.3"x19.5"x10.6")           | 452 (17.7")         | 255 (10.0")     |
| 728x555x300 (28.66"x21.85"x11.81")        | 452 (17.79")        | 302(11.89")     |
| 770x555x300 (30.3"x21.85"x11.81")         | 487 (19.2")         | 298 (11.73")    |
| 800x554x333 (31.5"x21.8"x13.1")           | 514 (20.24")        | 340 (13.39")    |
| 845x702x363 (33.25"x27.63"x14.29")        | 540 (21.26")        | 350 (13.8")     |
| 946x810x420 (37.21"x31.9"x16.53")         | 673 (26.5")         | 403 (15.87")    |