

## Submittal Data: TW12HQ2C2D 12,000 BTU/H (208/230V) Wall Mounted Heat Pump System

|                  |              |                                                                                                            |
|------------------|--------------|------------------------------------------------------------------------------------------------------------|
| Job Name         | Location     | Date                                                                                                       |
| Purchaser        | Engineer     |                                                                                                            |
| Submitted To     | For          | <input type="checkbox"/> Reference <input type="checkbox"/> Approval <input type="checkbox"/> Construction |
| Unit Designation | Schedule No. |                                                                                                            |

### GENERAL FEATURES

- Compact and Quiet Design
- High Efficiency DC Inverter Technology
- Vertical Swing Louver
- Wireless Remote with LCD Display
- XK-41 Wired Tether Controller ( Sold Separately)
- Low Ambient Cool to 0 deg F
- Blue Fin Condenser Coil
- 5 year Limited Parts Warranty
- 7 year Limited Compressor Warranty



### System Ratings Indoor Unit Data

|                         |                    |                             |              |             |
|-------------------------|--------------------|-----------------------------|--------------|-------------|
| <b>Cooling</b>          |                    | <b>Fan Motor</b>            | Type         | Cross-Flow  |
| Rated Capacity          | 12,000 BTU/H       |                             | Output Power | 20 W        |
| Capacity Range          | 3,100-13,000 BTU/H |                             | FLA          | 0.1 A       |
| Power Input (Max)       | 1,350 W            | <b>Airflow</b>              |              |             |
| SEER                    | 22.0               | Cooling Wet (Lo/Hi)         |              | 171/400 CFM |
| EER                     | 12.5               | Heating Dry (Lo/Hi)         |              | 171/400 CFM |
| <b>Heating at 47° F</b> |                    | <b>Sound Pressure Level</b> |              |             |
| Rated Capacity          | 13,000 BTU/H       | Cooling (Min/Max)           |              | 29/45 db(A) |
| Capacity Range          | 2,400-14,000 BTU/H | Heating (Min/Max)           |              | 29/45 db(A) |
| Power Input (Max)       | 1,400 W            | <b>Dehumidification</b>     |              |             |
| HSPF                    | 10.1               |                             |              | 2.96 pt/hr  |
| COP                     | 3.5                |                             |              |             |

### Heating at 17° F Outdoor Unit Data

|                         |             |                         |                  |                           |
|-------------------------|-------------|-------------------------|------------------|---------------------------|
| <b>Heating at 17° F</b> |             | <b>Compressor</b>       | Type             | DC Inverter Driven Rotary |
| Rated Capacity          | 7,100 BTU/H |                         | RLA              | 6.6 A                     |
| <b>Operating Range</b>  |             | <b>Refrigerant Type</b> |                  |                           |
| Cooling                 | (Max)       | 115°F (46 C)            |                  | R410A                     |
|                         | (Min)       | 0°F (-18 C)             |                  |                           |
| Heating                 | (Max)       | 75°F (24 C)             | <b>Fan Motor</b> | Output Power              |
|                         | (Min)       | -4°F (-20 C)            |                  | 30 W                      |
|                         |             |                         | FLA              | 0.36 A                    |

### Refrigerant Piping Data

|                       |        |                       |             |
|-----------------------|--------|-----------------------|-------------|
| Gas Pipe Size (OD)    | 1/2-in | <b>Sound Pressure</b> |             |
| Liquid Pipe Size (OD) | 1/4-in | Cooling/Heating       | 54/54 db(A) |

### Electrical Data

|                            |                           |  |  |
|----------------------------|---------------------------|--|--|
| <b>Power Supply</b>        |                           |  |  |
| Normal Operational Voltage | 208/230 V, 1 Phase, 60 Hz |  |  |
| Voltage Range              | 187 - 253 V               |  |  |
| MCA                        | 9.0 A                     |  |  |
| MOCP/Breaker Size          | 15 A                      |  |  |
| Main Power Wire Size       | 14-2 AWG                  |  |  |



# EXTENDED RATINGS

## COOLING PERFORMANCE (BtuH)\*

| Outdoor Ambient DB | Indoor Ambient Temperature |       |              |       |              |        |              |        |
|--------------------|----------------------------|-------|--------------|-------|--------------|--------|--------------|--------|
|                    | 68F DB (20C)               |       | 73F DB (23C) |       | 80F DB (27C) |        | 82F DB (28C) |        |
|                    | 57F WB (14C)               |       | 61F WB (16C) |       | 67F WB (19C) |        | 68F WB (20C) |        |
|                    | TC                         | SHC   | TC           | SHC   | TC           | SHC    | TC           | SHC    |
| 5°F                | 7,656                      | 6,005 | 8,088        | 6,341 | 9,128        | 7,159  | 9,508        | 7,458  |
| 14°F               | 7,852                      | 6,159 | 8,292        | 6,503 | 9,476        | 7,431  | 9,871        | 7,740  |
| 23°F               | 8,388                      | 6,580 | 8,972        | 7,038 | 10,280       | 8,063  | 10,708       | 8,399  |
| 32°F               | 10,172                     | 7,978 | 10,880       | 8,533 | 11,916       | 9,343  | 12,413       | 9,732  |
| 41°F               | 11,520                     | 9,035 | 12,240       | 9,598 | 13,080       | 10,259 | 13,625       | 10,686 |
| 50°F               | 11,384                     | 8,930 | 12,108       | 9,497 | 12,960       | 10,166 | 13,500       | 10,589 |
| 59°F               | 11,104                     | 8,707 | 11,824       | 9,274 | 12,840       | 10,072 | 13,375       | 10,492 |
| 68°F               | 10,824                     | 8,488 | 11,544       | 9,055 | 12,600       | 9,882  | 13,125       | 10,294 |
| 77°F               | 10,548                     | 8,273 | 11,264       | 8,833 | 12,360       | 9,696  | 12,875       | 10,100 |
| 86°F               | 10,244                     | 8,034 | 10,960       | 8,594 | 12,000       | 9,412  | 12,500       | 9,804  |
| 95°F               | 9,996                      | 7,840 | 10,708       | 8,399 | 11,844       | 9,290  | 12,338       | 9,678  |
| 104°F              | 9,748                      | 7,645 | 10,460       | 8,205 | 11,688       | 9,169  | 12,175       | 9,551  |
| 113°F              | 9,248                      | 7,252 | 9,960        | 7,812 | 11,192       | 8,776  | 11,658       | 9,142  |

## HEATING PERFORMANCE (BtuH)\*

| Outdoor Ambient DB | Indoor Ambient Temperature |        |              |        |              |        |              |        |
|--------------------|----------------------------|--------|--------------|--------|--------------|--------|--------------|--------|
|                    | 68F DB (20C)               |        | 73F DB (23C) |        | 80F DB (27C) |        | 86F DB (30C) |        |
|                    | 57F WB (14C)               |        | 61F WB (16C) |        | 67F WB (19C) |        | 72F WB (22C) |        |
|                    | TC                         | SHC    | TC           | SHC    | TC           | SHC    | TC           | SHC    |
| -4°F               | 6,821                      | 6,821  | 6,756        | 6,756  | 6,642        | 6,642  | 6,374        | 6,374  |
| 0°F                | 7,390                      | 7,390  | 7,321        | 7,321  | 7,199        | 7,199  | 6,902        | 6,902  |
| 6°F                | 7,796                      | 7,796  | 7,723        | 7,723  | 7,593        | 7,593  | 7,280        | 7,280  |
| 10°F               | 8,121                      | 8,121  | 8,044        | 8,044  | 7,910        | 7,910  | 7,585        | 7,585  |
| 16°F               | 8,365                      | 8,365  | 8,288        | 8,288  | 8,149        | 8,149  | 7,812        | 7,812  |
| 19°F               | 8,531                      | 8,531  | 8,446        | 8,446  | 8,308        | 8,308  | 7,963        | 7,963  |
| 24°F               | 9,478                      | 9,478  | 9,397        | 9,397  | 9,254        | 9,254  | 8,913        | 8,913  |
| 32°F               | 10,583                     | 10,583 | 10,502       | 10,502 | 10,359       | 10,359 | 10,018       | 10,018 |
| 41°F               | 11,846                     | 11,846 | 11,765       | 11,765 | 11,627       | 11,627 | 11,282       | 11,282 |
| 43°F               | 12,163                     | 12,163 | 12,082       | 12,082 | 11,940       | 11,940 | 11,598       | 11,598 |
| 47°F               | 13,264                     | 13,264 | 13,130       | 13,130 | 12,903       | 12,903 | 12,342       | 12,342 |
| 53°F               | 13,398                     | 13,398 | 13,260       | 13,260 | 13,028       | 13,028 | 12,464       | 12,464 |
| 59°F               | 13,703                     | 13,703 | 13,565       | 13,565 | 13,325       | 13,325 | 12,748       | 12,748 |
| 64°F               | 13,995                     | 13,995 | 13,853       | 13,853 | 13,609       | 13,609 | 13,020       | 13,020 |
| 70°F               | 14,259                     | 14,259 | 14,113       | 14,113 | 13,869       | 13,869 | 13,268       | 13,268 |
| 75°F               | 14,458                     | 14,458 | 14,312       | 14,312 | 14,060       | 14,060 | 13,451       | 13,451 |

\* Maximum system capacity

TC- Total Capacity ( BtuH)

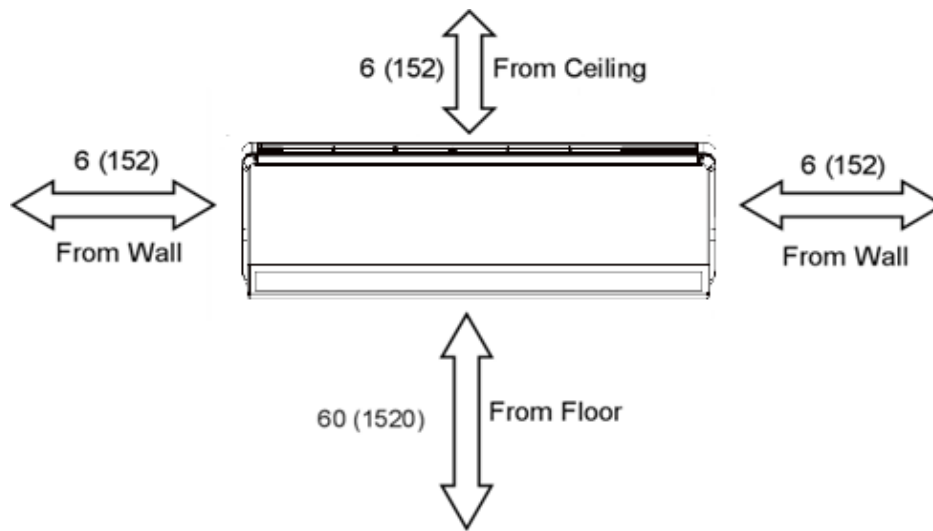
SHC- Sensible Capacity (BtuH)

## DIMENSIONAL SPECIFICATIONS

### MINIMUM SPACING REQUIREMENTS

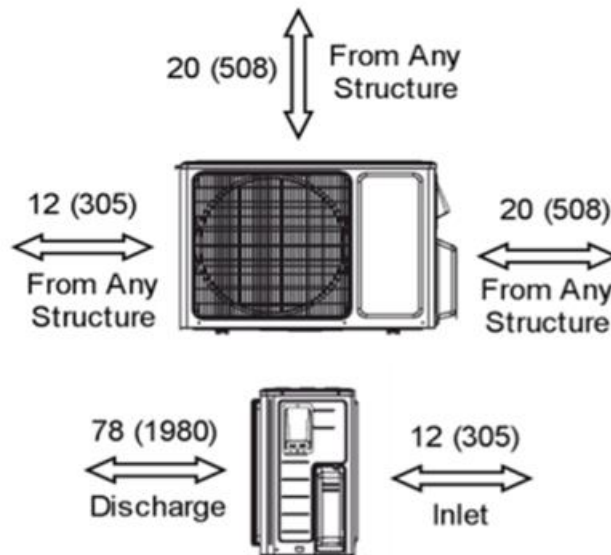
Units: inch (mm)

#### INDOOR



Units: inch (mm)

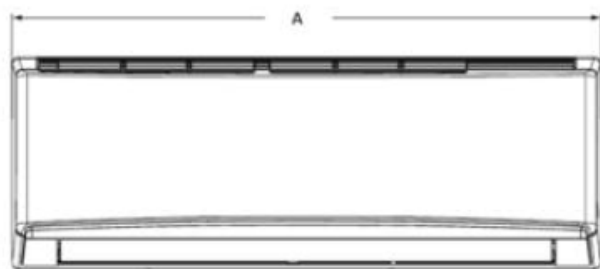
#### OUTDOOR



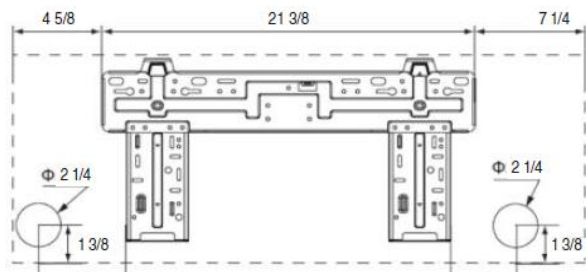
## DIMENSIONAL SPECIFICATIONS

### INDOOR UNIT DIMENSIONS

Units: inch



| Dimensions |      |
|------------|------|
| A          | 33.4 |
| B          | 11.4 |
| C          | 8.2  |

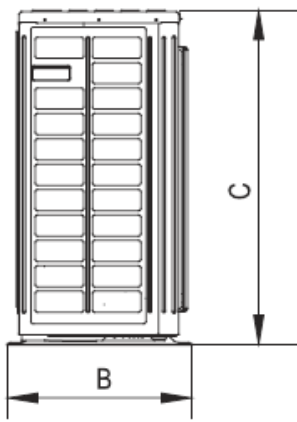
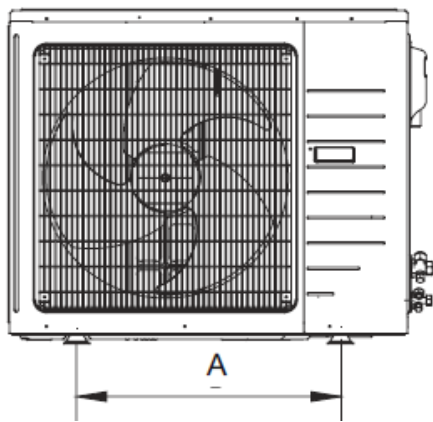


Weight (Net/Gross) 22.1/26.5 lbs

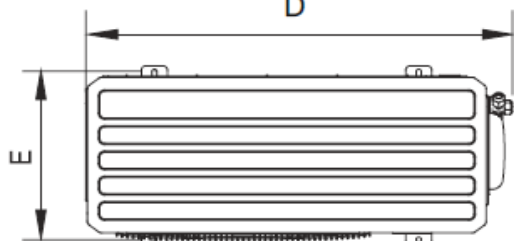
|                   |                  |
|-------------------|------------------|
| Liquid Line Valve | 1/4-in OD Flared |
| Gas Line Valve    | 1/2-in OD Flared |
| Drain Connector   | 5/8-in OD        |

### OUTDOOR UNIT DIMENSIONS

Units: inch



| Dimensions |      |
|------------|------|
| A          | 21.3 |
| B          | 12.6 |
| C          | 21.3 |
| D          | 33.4 |
| E          | 11.3 |



Weight (Net/Gross) 86.0/93.0 lbs

|                   |                  |
|-------------------|------------------|
| Liquid Line Valve | 1/4-in OD Flared |
| Gas Line Valve    | 1/2-in OD Flared |

#### Notes:

1. Recommended Interconnecting Cable Type 14 AWG-4 Stranded Copper Conductors THHN 600V Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.

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