

**Submittal Data: TU42HKI** 42,000 BTUH Ceiling Cassette Heat Pump System

Job Name \_\_\_\_\_ Location \_\_\_\_\_ Date \_\_\_\_\_

Purchaser \_\_\_\_\_ Engineer \_\_\_\_\_

Submitted To \_\_\_\_\_ For  Reference  Approval  Construction

Unit Designation \_\_\_\_\_ Schedule No. \_\_\_\_\_

**GENERAL FEATURES**

- Multi-Speed Fan
- 4-way Discharge Air
- Internal Condensate Drain Pump
- Wireless Remote Controllers
- Power Failure Recovery
- Sentry Condensate Overflow Protection
- Decorative Grille **Included**



**System Ratings**

|                                |       |                     |
|--------------------------------|-------|---------------------|
| <b>Cooling</b>                 |       |                     |
| Rated Capacity                 |       | 39,500 BTU/H        |
| Capacity Range                 |       | 11,000-41,000 BTU/H |
| Power Input (Max)              |       | 4,650 W             |
| SEER                           |       | 16.0                |
| EER                            |       | 9.0                 |
| <b>Heating at 47° F</b>        |       |                     |
| Rated Capacity                 |       | 44,000 BTU/H        |
| Capacity Range                 |       | 12,000-51,000 BTU/H |
| Power Input (Max)              |       | 4,800 W             |
| HSPF                           |       | 9.0                 |
| COP                            |       | 2.9                 |
| <b>Heating at 17° F</b>        |       |                     |
| Rated Capacity                 |       | 24,400 BTU/H        |
| <b>Operating Range</b>         |       |                     |
| Cooling                        | (Max) | 115°F (46 C)        |
|                                | (Min) | 0°F (-18 C)         |
| Heating                        | (Max) | 75°F (24 C)         |
|                                | (Min) | 0°F (-18 C)         |
| <b>Refrigerant Piping Data</b> |       |                     |
| Gas Pipe Size (OD)             |       | 5/8-in              |
| Liquid Pipe Size (OD)          |       | 3/8-in              |
| Connection Method              |       | Flared              |
| MAX Refrigerant Pipe Length    |       | 164-ft              |
| MIN Refrigerant Pipe Length    |       | 10-ft               |
| MAX Refrigerant Pipe Elevation |       | 98-ft               |

**Indoor Unit Data**

|                                       |              |                           |
|---------------------------------------|--------------|---------------------------|
| <b>Fan Motor</b>                      | Output Power | 1/3HP                     |
|                                       | FLA          | 0.9 A                     |
| <b>Airflow</b>                        |              |                           |
| Cooling                               | Wet (Lo/Hi)  | 730/1095 CFM              |
| Heating                               | Dry (Lo/Hi)  | 730/1095 CFM              |
| <b>Sound Pressure Level</b>           |              |                           |
| Cooling                               | (Min/Max)    | 43/51 db(A)               |
| Heating                               | (Min/Max)    | 43/51 db(A)               |
| <b>Dehumidification</b>               |              |                           |
|                                       |              | 1.75 pt/hr                |
| <b>Condensate Drain Lift (Height)</b> |              |                           |
|                                       |              | 39-in                     |
| <b>Power Supply</b>                   |              |                           |
| Normal Operational Voltage            |              | 208/230 V, 1 Phase, 60 Hz |
| Voltage Range                         |              | 187 - 253 V               |
| Interconnecting Cable Wire Size       |              | 18-2 AWG                  |
| MCA                                   |              | 1.5A                      |
| MOCP/Breaker Size                     |              | 15A                       |

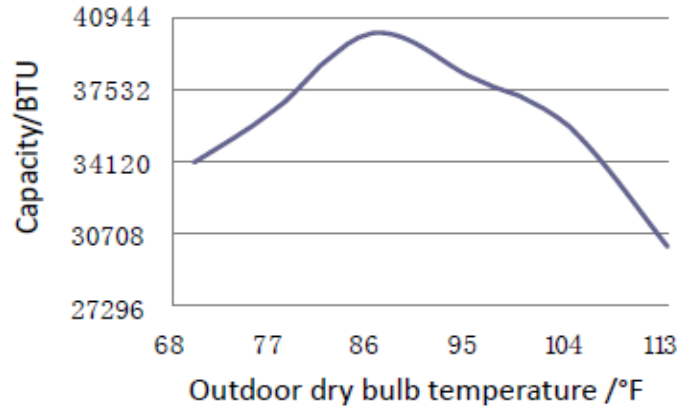
**Outdoor Unit Data**

|                            |              |                           |
|----------------------------|--------------|---------------------------|
| <b>Compressor</b>          |              | DC Inverter Driven Rotary |
| <b>Refrigerant Type</b>    |              | R410A                     |
| <b>Fan Motor</b>           | Output Power | 2 x 1/6HP                 |
|                            | FLA          | 2 x 2.0 A                 |
| <b>Sound Pressure</b>      |              |                           |
| Cooling/Heating            |              | 61/61 db(A)               |
| <b>Power Supply</b>        |              |                           |
| Normal Operational Voltage |              | 208/230 V, 1 Phase, 60 Hz |
| Voltage Range              |              | 187 - 253 V               |
| MCA                        |              | 31.0A                     |
| MOCP/Breaker Size          |              | 50A                       |

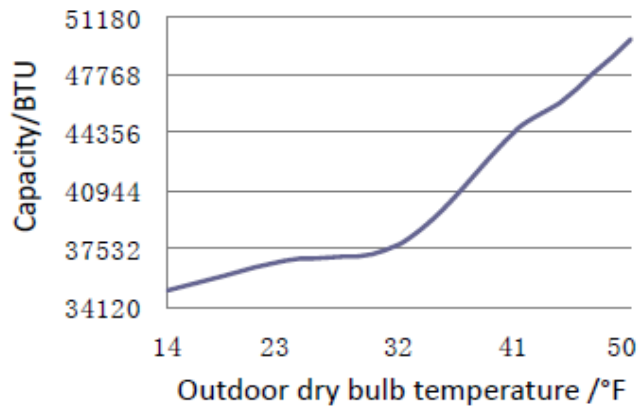


**EXTENDED RATINGS**

**COOLING PERFORMANCE**

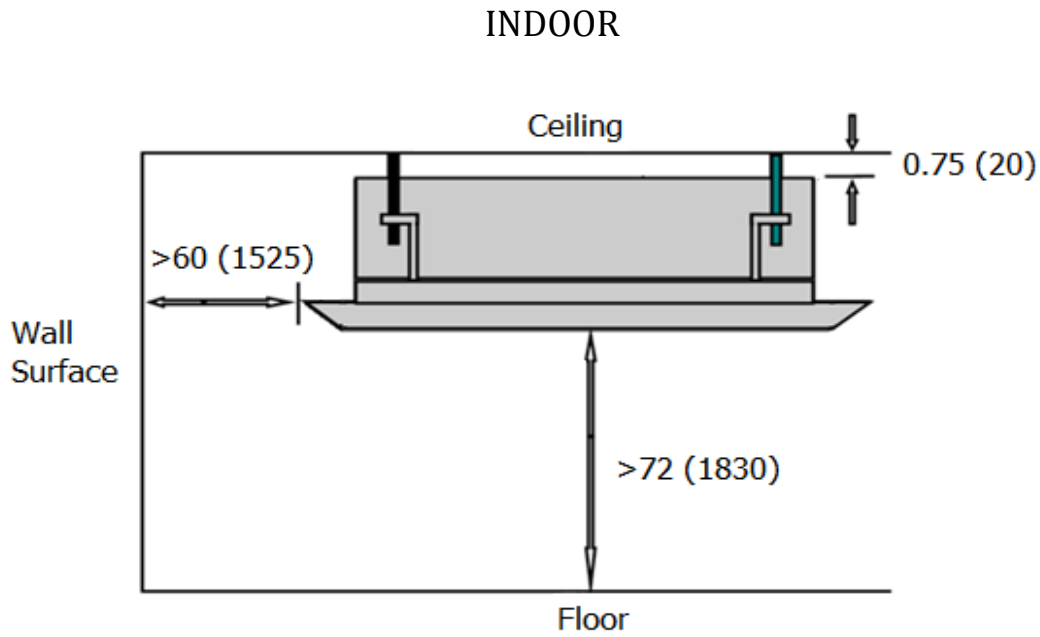


**HEATING PERFORMANCE**

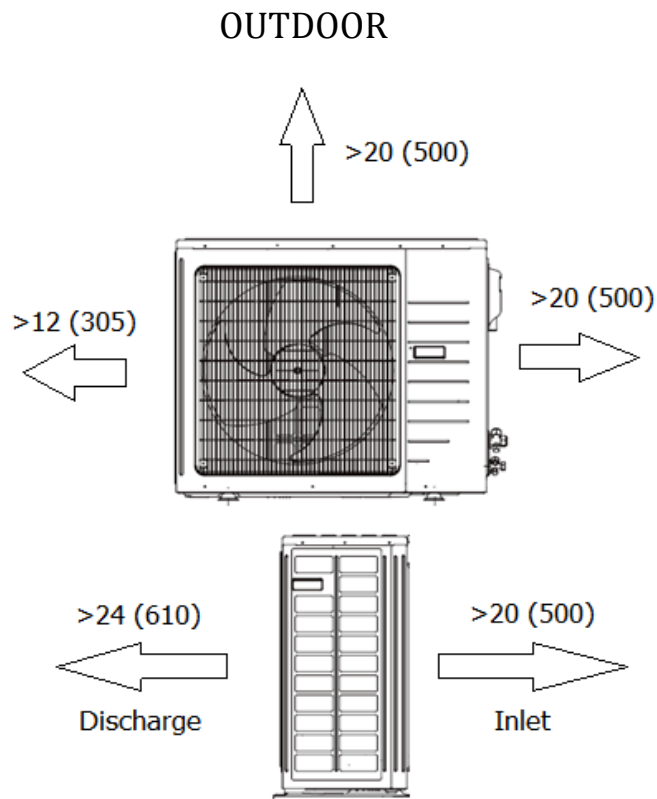


**MINIMUM SPACING REQUIREMENTS**

Units: inch (mm)



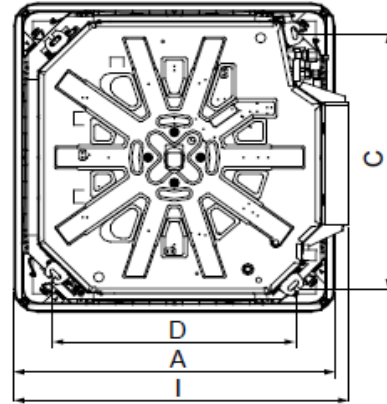
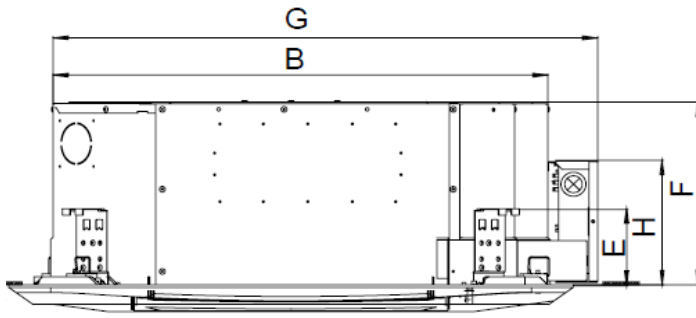
Units: inch (mm)



## DIMENSIONAL SPECIFICATIONS TU42HK1

### INDOOR UNIT DIMENSIONS & WEIGHTS

Units: inch (mm)



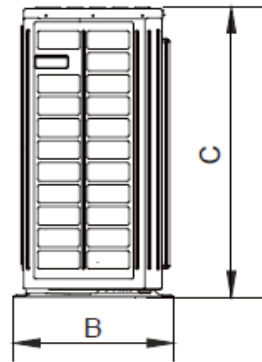
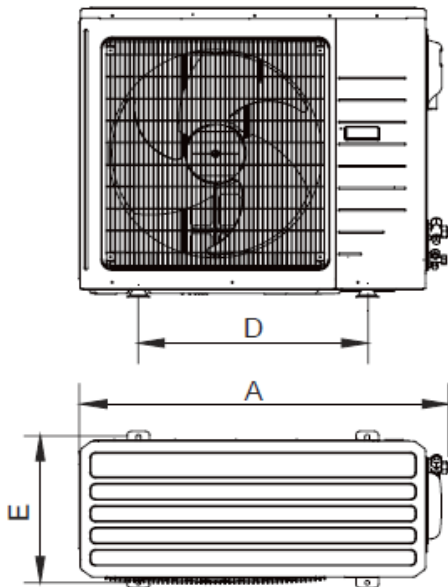
| A      | B     | C     | D     | E     | F     | G      | H     | I      |
|--------|-------|-------|-------|-------|-------|--------|-------|--------|
| 37.375 | 32.75 | 30.75 | 26.75 | 6.25  | 9.5   | 36.125 | 8.5   | 39.125 |
| (950)  | (833) | (780) | (680) | (160) | (240) | (917)  | (215) | (993)  |

|                 |        |
|-----------------|--------|
| Net Weight      | 71 lbs |
| Shipping Weight | 97 lbs |

|                   |                  |
|-------------------|------------------|
| Liquid Line Valve | 3/8-in OD Flared |
| Gas Line Valve    | 5/8-in OD Flared |
| Drain Connector   | 1-in OD          |

### OUTDOOR UNIT DIMENSIONS & WEIGHTS

Units: inch (mm)



|   |               |
|---|---------------|
| A | 37.75 (958)   |
| B | 16.25 (412)   |
| C | 53.125 (1349) |
| D | 22.5 (572)    |
| E | 14.75 (376)   |

|                 |         |
|-----------------|---------|
| Net Weight      | 210 lbs |
| Shipping Weight | 232 lbs |

|                   |                  |
|-------------------|------------------|
| Liquid Line Valve | 3/8-in OD Flared |
| Gas Line Valve    | 5/8-in OD Flared |

**Notes:**

1. Recommended Communication Cable Type 18-2 AWG Stranded Copper 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.