**Submittal Data: TERRA24HP230V1A**

24,000 BTU/H Wall Mounted Heat-Pump System

<table>
<thead>
<tr>
<th>Job Name</th>
<th>Location</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purchaser</td>
<td>Engineer</td>
<td></td>
</tr>
</tbody>
</table>

Submitted To: For [ ] Reference [ ] Approval [ ] Construction

**Unit Designation**

**Schedule No.**

**GENERAL FEATURES**
- Ultra High Efficiency
- 7 Indoor Fan Speeds
- 4 Way Airflow Operation
- Photocatalytic Filter
- Wireless Remote with LCD Display
- Acrylic Resin/Anti-Corrosion Coil Protection Inside & Out
- 5 year Limited Parts Warranty
- 7 year Limited Compressor Warranty

### System Ratings

#### Cooling
- Rated Capacity: 24,000 BTU/H
- Capacity Range: 6,826-29,352 BTU/H
- Power Input (Max): 2,900 W
- SEER: 21
- EER: 12.0

#### Heating at 47° F
- Rated Capacity: 25,000 BTU/H
- Capacity Range: 7,509-37,543 BTU/H
- Power Input (Max): 4,000 W
- HSPF: 9.2
- COP: 3.3

#### Heating at 17° F
- Rated Capacity: 15,500 BTU/H
- Capacity (Max): 20,444 BTU/H
- Power Input (Max): 3,271 W
- COP: 2.5

### Operating Range

#### Cooling
- (Max): 118°F (48 C)
- (Min): 50°F (10 C)

#### Heating
- (Max): 75°F (24 C)
- (Min): 5°F (-15 C)

### Power Supply

- Normal Operational Voltage: 208/230 V, 1 Phase, 60 Hz
- Voltage Range: 187 - 253 V
- Main Power Wire Size: 10-2 AWG
- Interconnecting Cable Wire Size: 14-4 AWG
- MCA: 20 A
- MOCP/Breaker Size: 30 A

### Indoor Unit Data

- Fan Motor Output Power: 70 W FLA 0.3 A
- Airflow
  - Cooling Wet (Lo/Hi): 353/706 CFM
  - Heating Dry (Lo/Hi): 370/740 CFM
- Sound Pressure Level
  - Cooling (Lo/Hi): 48/52 db(A)
  - Heating (Lo/Hi): 48/52 db(A)
- Dimensions & Weights
  - Unit Dimensions (LxHxD): 46.4 x 12.8 x 10.4-in
  - Weight (Net/Shipping): 40/53 LBS

### Outdoor Unit Data

- Compressor: DC Inverter Driven Rotary
- Refrigerant Type: R410A
- Fan Motor
  - Output Power: 90 W FLA 0.4 A
- Sound Pressure
  - Cooling (Lo/Hi): 56/66 db(A)
  - Heating (Lo/Hi): 56/66 db(A)
- Dimensions & Weights
  - Unit Dimensions (LxHxD): 38.6 x 31.1 x 16.8-in
  - Weight (Net/Shipping): 153/164 LBS
- Refrigerant Piping Data
  - Gas Pipe Size (OD): 5/8-in
  - Liquid Pipe Size (OD): 1/4-in
  - Connection Method: Flared
  - MAX Refrigerant Pipe Length: 98-ft
  - MIN Refrigerant Pipe Length: 10-ft
  - MAX Refrigerant Pipe Height Difference: 33-ft
## EXTENDED RATINGS

### COOLING PERFORMANCE

<table>
<thead>
<tr>
<th>Outdoor Ambient Temperature (DB)</th>
<th>Indoor Entering Air Temperatures (DB)</th>
<th>50% RH</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>62 F</td>
<td>67 F</td>
</tr>
<tr>
<td>TC</td>
<td>SHC</td>
<td>SHC</td>
</tr>
<tr>
<td>25 F</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>35 F</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>45 F</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>55 F</td>
<td>27,574</td>
<td>21,342</td>
</tr>
<tr>
<td>65 F</td>
<td>26,347</td>
<td>20,472</td>
</tr>
<tr>
<td>75 F</td>
<td>25,051</td>
<td>19,590</td>
</tr>
<tr>
<td>85 F</td>
<td>23,795</td>
<td>18,893</td>
</tr>
<tr>
<td>95 F</td>
<td>22,368</td>
<td>17,872</td>
</tr>
<tr>
<td>105 F</td>
<td>21,210</td>
<td>17,223</td>
</tr>
<tr>
<td>115 F</td>
<td>20,067</td>
<td>16,535</td>
</tr>
</tbody>
</table>

### HEATING PERFORMANCE

<table>
<thead>
<tr>
<th>Outdoor Ambient Temperature (DB) (80% RH)</th>
<th>Indoor Entering Air Temperatures (DB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>65 F</td>
</tr>
<tr>
<td>TC</td>
<td>SHC</td>
</tr>
<tr>
<td>5 F</td>
<td>20,537</td>
</tr>
<tr>
<td>15 F</td>
<td>21,953</td>
</tr>
<tr>
<td>25 F</td>
<td>23,292</td>
</tr>
<tr>
<td>35 F</td>
<td>24,593</td>
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<tr>
<td>45 F</td>
<td>25,878</td>
</tr>
<tr>
<td>55 F</td>
<td>25,912</td>
</tr>
<tr>
<td>65 F</td>
<td>25,790</td>
</tr>
</tbody>
</table>

TC- Total Capacity (BtuH)
SHC- Sensible Capacity (BtuH)
DIMENSIONAL SPECIFICATIONS

MINIMUM SPACING REQUIREMENTS

Units: inch (mm)

INDOOR

6 (152) From Ceiling
6 (152) From Wall
60 (1520) From Floor

OUTDOOR

20 (508) From Any Structure
12 (305) From Any Structure
78 (1980) Discharge
12 (305) Inlet

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INDOOR UNIT DIMENSIONS

Units: inch (mm)

OUTDOOR UNIT DIMENSIONS

Units: inch (mm)

Notes:
1. Recommended Interconnecting Cable Type Stranded Bare 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.