



## SUBMITTAL FORM

### Torin™ Commercial Air to Water Heat Pump

## TORIN™ COMMERCIAL AIR TO WATER HEAT PUMP

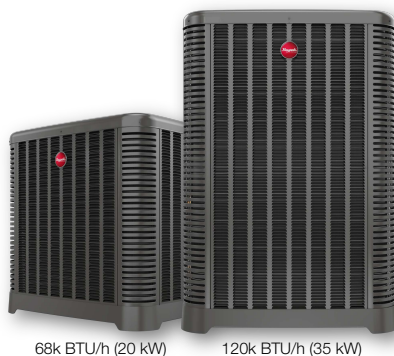
Engineered for superior cold climate operation, this system ensures reliable hot water delivery while significantly reducing energy consumption compared to traditional heating methods.

The Commercial Heat Pump maximizes comfort and minimizes operational costs, making it the ideal choice for businesses seeking a cost-effective, eco-friendly solution.

Date: \_\_\_\_\_ Model: \_\_\_\_\_ Prepared By: \_\_\_\_\_

Job: \_\_\_\_\_ Engineer: \_\_\_\_\_ Notes: \_\_\_\_\_

Location: \_\_\_\_\_ Contractor: \_\_\_\_\_



## FEATURES

**Inverter technology** provides variable capacity control and allows the heat pump compressors to operate more efficiently

**Constant capacity** at cold climates prioritized delivering BTUs to provide hot water even in the coldest of temperatures

**Flexibility** with indoor or outdoor installation is available. A touch screen control is easy to install and navigate making set-up simple

### Features and Benefits

- Low Ambient Performance (-13°F)
- Delivered Hot Water up to 150°F
- User Friendly Touch Screen Control Platform
- No Refrigerant Handling
- Low GWP Refrigerant: R-454B
- BMS Compatible

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| Raypak Model                           | RMHPHDA068VD000                                 |        | RMHPHDA120VD000         |        |
|----------------------------------------|-------------------------------------------------|--------|-------------------------|--------|
| ELECTRICAL INPUT                       |                                                 |        |                         |        |
| Voltage/Phase                          | 480 Volt/ 3 Phase / 60 Hz                       |        |                         |        |
| Full Load                              | 25 A                                            |        | 45 A                    |        |
| MCA                                    | 33 A                                            |        | 44 A                    |        |
| Overcurrent protection device size     | 40 A                                            |        | 50 A                    |        |
| Refrigerant                            | R454b                                           |        |                         |        |
| Heating Capacity, BTU/hr*              | 68,000                                          |        | 120,000                 |        |
| Power Input, kW                        | 4.9                                             |        | 9.8                     |        |
| COP*                                   | 4.5                                             |        | 4.5                     |        |
| Noise Level, dBa @ 10ft                | 75                                              |        | 75                      |        |
| Rated Load Amps @ 54°F SST / 113°F SCT | 8.5 A                                           |        | 12.5 A                  |        |
| TECHNICAL DATA                         |                                                 |        |                         |        |
|                                        | Compressor                                      | Fan    | Compressor              | Fan    |
| Type                                   | Inverter                                        | Axial  | Inverter                | Axial  |
| Number Per Unit                        | 1                                               | 1      | 1                       | 1      |
| FLA (Full Load Amps, each)             | 25                                              | 2.5    | 45                      | 2.5    |
| Pole/RPM                               | 6P/7200                                         | 2/1100 | 6P/7200                 | 2/1100 |
| Air Flow, CFM                          | N/A                                             | 6000   | N/A                     | 6000   |
| Max. Static Pressure for Ducting       | 0.15" W.C.                                      |        | 0.15" W.C.              |        |
| HEAT EXCHANGER (Water Side)            |                                                 |        |                         |        |
| Type of Water Tube                     | Double Wall - 316L Stainless Steel              |        |                         |        |
| Design                                 | Counter Flow Brazed Plate                       |        |                         |        |
| Flow Rate Excl. By Pass, gpm           | 5 - 15                                          |        | 5 - 20                  |        |
| Max. Outlet Water Temp, °F             | 150                                             |        | 150                     |        |
| Design Pressure Drop, PSI              | 4.5                                             |        | 2.5                     |        |
| Max. Operating Pressure, PSI           | 65                                              |        | 65                      |        |
| GENERAL INFORMATION                    |                                                 |        |                         |        |
| Water Connections                      | 1" Copper                                       |        | 1" Copper               |        |
| Drain                                  | 1 1/4 socket connection                         |        | 1 1/4 socket connection |        |
| Defrost                                | Hot Gas Injection                               |        |                         |        |
| Cabinet Construction                   | 18 Gauge painted commercial steel outdoor specs |        |                         |        |
| Approx. Shipping Weight, lbs           | 360                                             |        | 483                     |        |
| Size L x W x H                         | 40" x 40" x 42"                                 |        | 40" x 40" x 58"         |        |

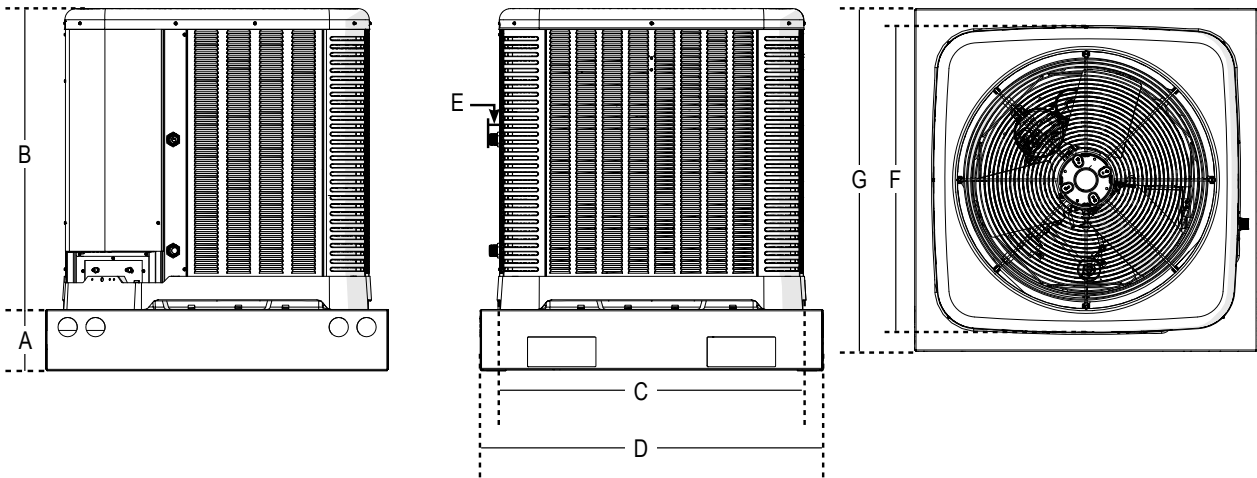
\* DOE test standard, 80°F ambient with 63% humidity, inlet water temperature at 70°F; outlet water temperature at 120°F



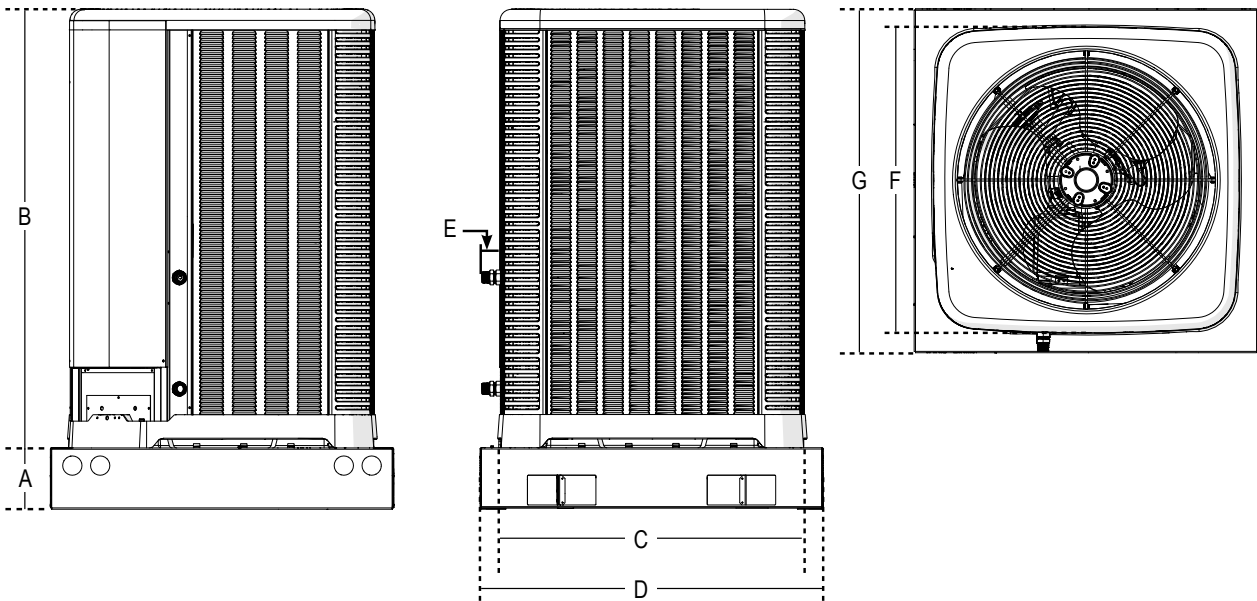
TORIN™ COMMERCIAL AIR TO WATER  
HEAT PUMP

DIMENSIONS AND SPECIFICATIONS FOR 68K BTU/H AND 120K BTU/H

RMHPHDA068V000



RMHPHDA120V000



| MODEL NUMBER   | DIMENSIONS |     |     |     |      |     |     |
|----------------|------------|-----|-----|-----|------|-----|-----|
|                | A          | B   | C   | D   | E    | F   | G   |
| RMHPHDA068V000 | 7"         | 35" | 36" | 40" | 1.2" | 36" | 40" |
| RMHPHDA120V000 | 7"         | 51" | 36" | 40" | 1.4" | 36" | 40" |

All dimensions shown above are in inches.



## TORIN™ COMMERCIAL AIR TO WATER HEAT PUMP

### PARTS FOR 68K BTU/H AND 120K BTU/H

| PART                     | DESCRIPTION                                                                                                      | QTY | PART NUMBER       |
|--------------------------|------------------------------------------------------------------------------------------------------------------|-----|-------------------|
| Unit Control / Display   | Sky 35 Unit Control (min. 1 required)                                                                            |     | 016-024           |
| Primary Circulation Pump | ECM High-Efficiency Circulator Pumps                                                                             |     | VM3450-DD1-RS2W00 |
| Valve                    | Motorized Ball Valve Stainless Steel 1 in. NPT                                                                   |     | JFMSV00009        |
| Control Interface        | BACnet® and Modbus® Interface (ProtoNode)                                                                        |     | 100-10004278      |
| Storage Tank Thermistor  | Tank Well Thermistor                                                                                             |     | 011932            |
| Seismic Tie Down         | Hurricane Tie Down Bracket                                                                                       |     | 10-105931-02      |
|                          | Screw - Self-Drilling 3/4 in.                                                                                    |     | 63-105938-01      |
| Transformer              | Raypak Step-Up Transformer Dry Type model (208V / 480V 3-phase)<br>45 kVa (Recommended for the 120k BTU/h model) |     | T3045K0013B       |
|                          | Raypak Step-Up Transformer Dry Type model (208V / 480V 3-phase)<br>30 kVa (Recommended for the 68k BTU/h model)  |     | T3030K0013B       |

| PART                           | DESCRIPTION                                | QTY | PART NUMBER |
|--------------------------------|--------------------------------------------|-----|-------------|
| Storage Tank<br>(Non-Jacketed) | 200-950 Gallon Storage Tank (Non-Jacketed) |     | STU950A     |
|                                |                                            |     | STU750A     |
|                                |                                            |     | STU500A     |
|                                |                                            |     | STU430A     |
|                                |                                            |     | STU320A     |
|                                |                                            |     | STU200A     |
| Storage Tank<br>(Jacketed)     | 200-950 Gallon Storage Tank (Jacketed)     |     | ST950A      |
|                                |                                            |     | ST750A      |
|                                |                                            |     | ST500A      |
|                                |                                            |     | ST430A      |
|                                |                                            |     | ST320A      |
|                                |                                            |     | ST260A      |
|                                |                                            |     | ST200A      |
| Storage Tank                   | 80-175 Gallon Storage Tank                 |     | ST80(A)     |
|                                |                                            |     | ST120(A)    |
|                                |                                            |     | ST175(A)    |