



ENERFIT RTU INFORMATION SHEET AND CHECKLIST

OVERVIEW:

1. The Enerfit retrofit is unique to each RTU and is shipped in a kit that is tagged for each RTU. In order to most accurately price and build the Enerfit, RTU nameplate information is required in all cases.

Experience has taught us that nameplate photos (in English) along with a sticky note with the RTU # in the nameplate photo are the easiest and most accurate way to get the RTU information.

Transcribed nameplate information is more difficult to get and less accurate than a photo.

2. **See page 2 for option and specifications checklist.**
See page 3 for nameplate examples.
See page 4 for information required for payback estimate.

If an RTU does not have a nameplate, contact Enerfit at 423-629-4175 for assistance.

Please note if any of the RTUs have the following:

1. Horizontal discharge and/or return configuration
 2. Physical restrictions on RTU access
 3. Significant physical damage (burned control boards, damaged condenser coils, etc.)
3. Required info for Enerfit order / not required for quote: we also need to know the actual measured line voltage going to one of the RTUs. This will prevent nuisance VFD faults.



ENERFIT RTU CHECKLIST

Job Name _____

Same configuration for all units? (if not, specify by Unit Tag)

One check required for items 1-5:

1. Enerfit Version

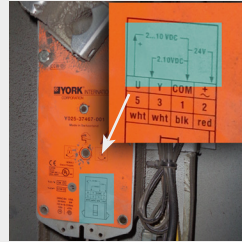
- V1 - Existing thermostat or DDC controls to remain in place to control cooling and heating functions of the RTU. Enerfit to work in conjunction with existing controls.
- V2 - Enerfit replaces existing thermostat or DDC controls and stages cooling and heating functions of the RTU.

2. Integrated Economizer by Enerfit - ASHRAE 90 (Available with V1 or V2)

- No Economizer
- Temperature comparison economizer
- Enthalpy comparison economizer
- Needs to meet California Economizer Standards Title 24 FDD

Economizer Notes

If any damper operators are not 0-10VDC or 2-10VDC, then one photo of a typical damper operator is required. Enerfit will provide a signal converter, if possible.



3. Demand Controlled Ventilation (Controls CO2 levels in Conditioned Space)

- DCV Not Required
- DCV Required

4. Refrigerant Superheat (saves time / provides add'l information to service technician for troubleshooting)

- Superheat Not Required
- Superheat Required

5. EnerTouch (Indoor Touchscreen that shows all unit statuses - enables web browser remote access)

- EnerTouch Not Required
- EnerTouch Required

6. V1 Options

- Liquid line temperatures
- Filter differential pressure
- Building pressure
- Additional alarms (specify):

V2 Options

- Building pressure
- Liquid line temperatures
- Filter differential pressure
- Compressor status
- Additional alarms (specify):

7. Other:



INFORMATION REQUIRED for ENERFIT PAYBACK ESTIMATE

To Determine Payback Estimate:

If a cost/energy saving estimate is required, the following information is required:

The Enerfit Rep Sheet that is part of the Enerfit quote calculates savings using approximate annual run hours, blended electrical rate and percentage of full load kW of the evaporator fan motor.

- A. Run Hours:** For our purposes, run hours are defined as the number of hours per year that the fan runs in continuous mode - this would include all of the hours the fan runs in occupied mode & the hours it runs prior to or after occupancy.

Typical retail stores run around 4,800 hours, a 24/7 unit would run 8,760 hours annually.

- B. Blended Electrical Rate:** Blended electrical rate is the total electrical bill including kW demand (kWd) and miscellaneous charges divided by the total kilowatt hours (kWh) for the billing period.

- C. % Loading of Evaporator Fan:** % of full load kW. Example: if the evaporator fan motor is 10 HP and is using 8 BHP, then enter 0.8 as the "Fan Load" on the Enerfit quote sheet. Measuring the running amperage and dividing that value by the nameplate FLA is another way to approximate the % loading of the evaporator fan.

The most accurate way is to use a kW meter to read the actual kW of the the fan motor and divide that by the motor full load kW. (To convert horsepower (HP) to kilowatts (kW) multiply the HP by 0.746)

- D. Fan Operation:** Continuous (Fan ON) or Intermittent Fan (Fan AUTO)?
Continuous Fan: The fan always runs during occupied hours regardless of mode
Intermittent Fan/Fan Auto: The fan only runs when the unit is in cooling, heating or economizer mode