



Auer Electric, LLC  
 6205 Tinwood Drive  
 Fuquay Varina, NC 27526  
 (919) 753-5682  
 auerelectric.net

### Sizing Report

Rated Nominal Voltage                    240  
 Generator Fuel Choice                    Propane  
 Sizing Method (NEC 220)                Part IV  
 (Part III required for selected circuit implementation, Both valid for whole house)

|                                                 |      |           |
|-------------------------------------------------|------|-----------|
| General Lighting & Receptacles                  |      | Load (kW) |
| Square Footage Being Covered (ft <sup>2</sup> ) | 1300 | 3.9       |
| Small Appliance Circuits (20 amps)              |      |           |
| Kitchen Circuits                                | 2    | 3         |
| Laundry Circuits                                | 1    | 1.5       |

|                                               | Managed Loads | Estimated (kW) | Nameplate (amps) | 240 V | Load (kW) |
|-----------------------------------------------|---------------|----------------|------------------|-------|-----------|
| <b>Fixed-In-Place Appliances &amp; Motors</b> |               |                |                  |       |           |
| Furnace (Forced Air)                          |               | 0.7            |                  |       | 0.7       |
| Refrigerator                                  |               | 0.8            |                  |       | 0.8       |
| Well Pump                                     |               | 1.5            |                  |       | 1.5       |
| Microwave                                     |               | 1.3            |                  |       | 1.3       |

|                                       | Managed Loads | Estimated (kW) | Nameplate (amps) | 240 V | Load (kW) |
|---------------------------------------|---------------|----------------|------------------|-------|-----------|
| <b>Air Conditioning &amp; Cooling</b> |               |                |                  |       |           |
| 2.5 Ton Unit                          |               | 2.5            |                  | X     | 2.5       |

|                                 | Managed Loads | Estimated (kW) | Nameplate (amps) | 240 V | Load (kW) |
|---------------------------------|---------------|----------------|------------------|-------|-----------|
| <b>Heating &amp; Heat Pumps</b> |               |                |                  |       |           |

|                                     | Estimated (LRA) | Actual (LRA) | Utilized (LRA) |
|-------------------------------------|-----------------|--------------|----------------|
| <b>Transient Requirement</b>        |                 |              |                |
| Largest Motor's Starting Amps (LRA) | 72              | 0            | 72             |

|                                                          | Load (kW) | NEC Required |
|----------------------------------------------------------|-----------|--------------|
| Summary NEC Load                                         |           |              |
| General Lighting & Receptacles                           | 8.4       |              |
| Fixed-in-Place Appliances & Motors                       | 4.3       |              |
| Sum of all General Loads                                 | 12.6      | 11.1         |
| Cooling                                                  | 2.5       | 2.5          |
| Heating (w/demand factors)                               | 0.0       | 0.0          |
| Larger of Heating & Cooling                              | 2.5       | 2.5          |
| Sizing based on requirements of NEC Article 220, Part IV |           | 13.6         |
| Elevation                                                |           | 0 ft         |
| Minimum size generator for motor starting requirements   |           | 13           |
| BTU load required                                        |           | 272500       |

16 kW Generac Model Generator Recommended