

# ELECTRICAL REQUIREMENTS

## NOBLE MV150 Vertical Guppy

Printed 3/13/2022  
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It is very important to keep your electric utility company coordinated with your power requirements. The equipment listed below should be combined with other site loads such as area lighting, charging equipment, office HVAC, mixers, etc. If you are using an on site generator, we would be happy to coordinate a more detailed analysis of voltage stabilization and locked rotor amps with the company you select to supply the generator. Transformer sizes listed below assume a 96% eff., an impedance of .035 to calculate voltage drop, the largest motor is Code G, and show standard available size 3 phase transformers.

### Setup for **460 Volt operation.**

| <b>NOBLE MV150 Vertical Guppy</b>                                |       |               |                 |     |        |               | Wire Size |  |
|--|-------|---------------|-----------------|-----|--------|---------------|-----------|--|
|  | HP    | FLA           | CB              | Str | Heater | Min           | Normal    |  |
| 1.5 KVA Transformer  |       | 3.26          |                 |     |        |               |           |  |
| Transfer Blower  | 50.00 | 57.70         | 100             | #3  | CC94.0 | 4             | 4         |  |
| Vane Feeder  | 2.00  | 2.80          | 15              | #00 | B4.15  | 14            | 12        |  |
| If not all motors run concurrently, *Amps not included in total. |       |               |                 |     |        |               |           |  |
| Total Connected  | 52.00 | 63.76         |                 |     |        |               |           |  |
| +25% of Largest Mot  | 50.00 | 14.43         |                 |     |        | Actual        |           |  |
| Running Design Load  |       | <b>78.19</b>  | Running Design  |     |        | 62.29         | KVA       |  |
| +5 x Largest Motor   |       | 288.50        |                 |     |        |               |           |  |
| Starting Design Load   |       | 366.69        | Starting Design |     |        | 292.15        | KVA       |  |
| 113 KVA Transf. Volt Drop  | 9.47% | Starting, and |                 |     | 2.02%  | when running. |           |  |
| 150 KVA Transf. Volt Drop  | 7.11% | Starting, and |                 |     | 1.51%  | when running. |           |  |