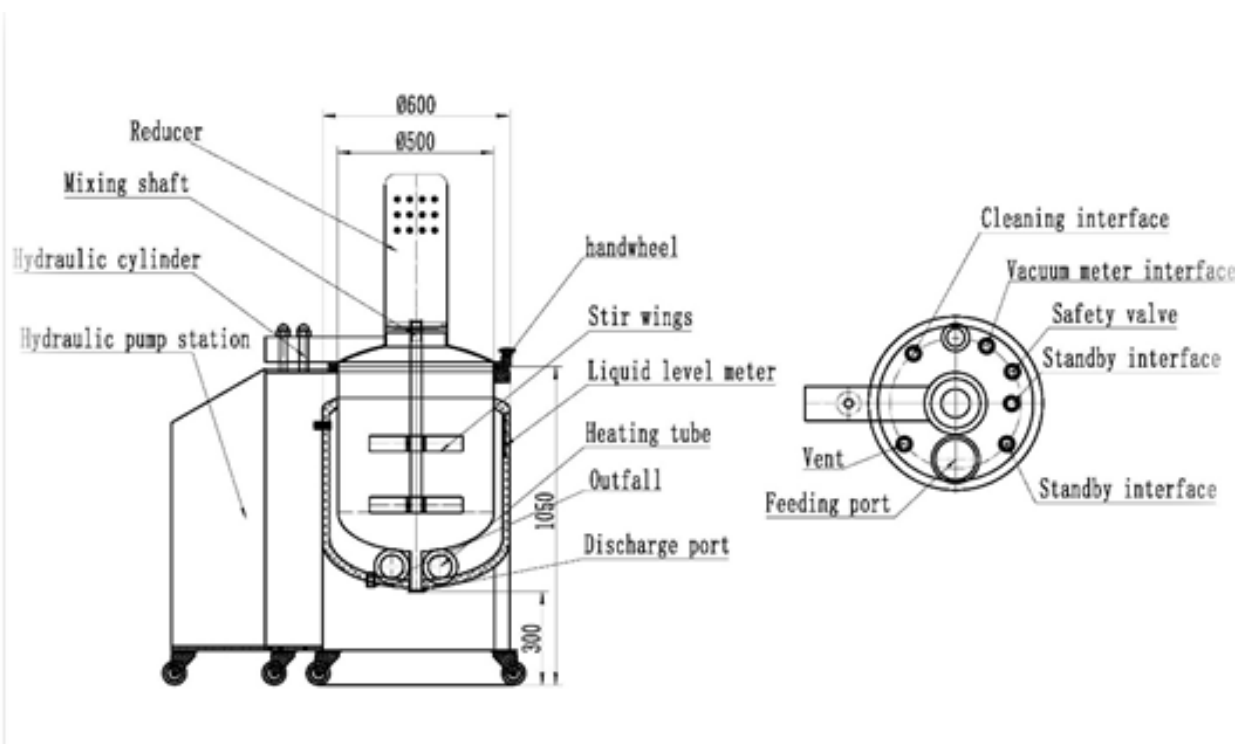


## QEG-100A 100L Pilot Digester



### 1.0 Specifications

|                                   |   |
|-----------------------------------|---|
| CAPACITY                          | 100 cubic liters                            |
| DIMENSIONS (W X D X H)            | 43.0" x 34.3" x 75.5"                       |
| HEATER WATTAGE (IMMERSION HEATER) | 5 kw (2.5 kW each)                          |
| MOTOR FOR MIXER                   | 0.75 kW                                     |
| HYDRAULIC PUMP                    | 0.75 kW                                     |
| TEMPERATURE RANGE                 | Ambient to 70°C                             |
| TEMPERATURE UNIFORMITY            | +/-1.5°C at 50°C                            |
| TEMPERATURE TIME TO 50°C          | 30 minutes                                  |
| CONTROLS                          | Programmable control for heating and mixing |
| POWER                             | 110-120V / Single Phase / 50/60Hz / 6.5KW   |
| ROTATION SPEED                    | 30-150 rpm variable speed                   |
| WEIGHT                            | 500 kg                                      |
| WARRANTY                          | 1 year                                      |

# QEG-100A 100L Pilot Digester

## 2. Utility Connections

### 2.1 Main Power

It is important that the unit specifications be examined to determine the operating voltage, frequency and phase of the system. Refer to the electrical schematic supplied with the unit when making the power and control field-wiring connections. It is important to identify the options that were purchased with the unit in order to confirm which field connections are required.

**CAUTION** Improper wire connections may eventually result in damage to the equipment. Do NOT rewire the unit's individual components.

**WARNING** Verify power is turned off before making connections to the equipment.

**NOTE** All wiring must conform to local and national electrical code requirements. Only use copper conductors. Wiring terminations may become loose during transit of the equipment; therefore, it is required to verify that all wiring terminations be checked to verify they are secure. It is important to verify that the main power supply coincides with the voltage, phase and frequency information specified on the document. The supply voltage measured at the unit must be within  $\pm 10\%$  of the voltage specified.

Route the main power wires into the electric box and terminate the wires at the line side of the main power disconnect switch as shown in the electrical drawing.

**CAUTION** Prior to unit operation, an adequate unit-to-earth ground must be connected to the unit.

### 2.2 Electrical schematic

The wiring of the pilot digester is shown in Figure 2 on Page 3. Three-wire grounding devices (hot-neutral-ground) are required. As the hydraulic pump and mixer will not work at the same time, 50A 125V 2P 3W NEMA 5-50 plug and 50 A 125V NEMA 5-50R Heavy Duty Flush Mount Power Receptacle as below are recommended.



