

MODEL: 8090-902-278

### SPECIFICATIONS:

**MODEL NUMBER:** 8090-902-278

**PUMP DESIGN:** Positive Displacement 3 Chamber Diaphragm Pump

**CHECK VALVE:** (2-Way Op) Prevents Reverse Flow & 6 Ft. Head Forward Flow

**CAM:** 2.5 Degree

**MOTOR:** Permanent Magnet, P/N 11-160-10, Thermally Protected

**VOLTAGE:** 230VAC Nominal

**PRESSURE SWITCH:** Adjustable Shut-Off (Range 80-110 PSI)

Factory Set @ 100 PSI, Turn On 75 PSI  $\pm 5$  PSI

**LIQUID TEMPERATURE:** 180 Degrees Fahrenheit (82 Degrees Centigrade) Max.

**PRIME:** Self-Priming Up To 9 Ft. Vertical,  
Max. Inlet Pressure 30 PSI (2.1 Bar)

**PORTS:** 3/8"-18 NPT Female

**MATERIAL OF CONSTRUCTION:**

PLASTICS- Nylon

VALVES- EPDM

DIAPHRAGM- Santoprene

FASTENERS- Zinc Plated Steel

**NET WEIGHT:** 4.8 Lbs (2.18 Kg)

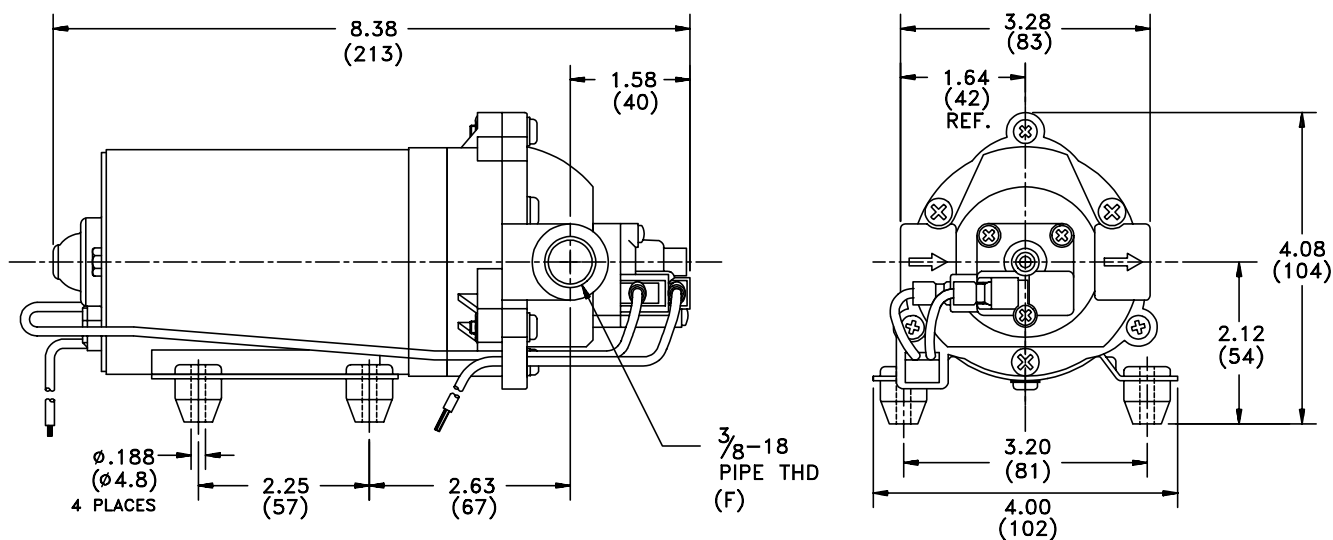
**DUTY CYCLE:** Intermittent (See Temperature Rise Chart)

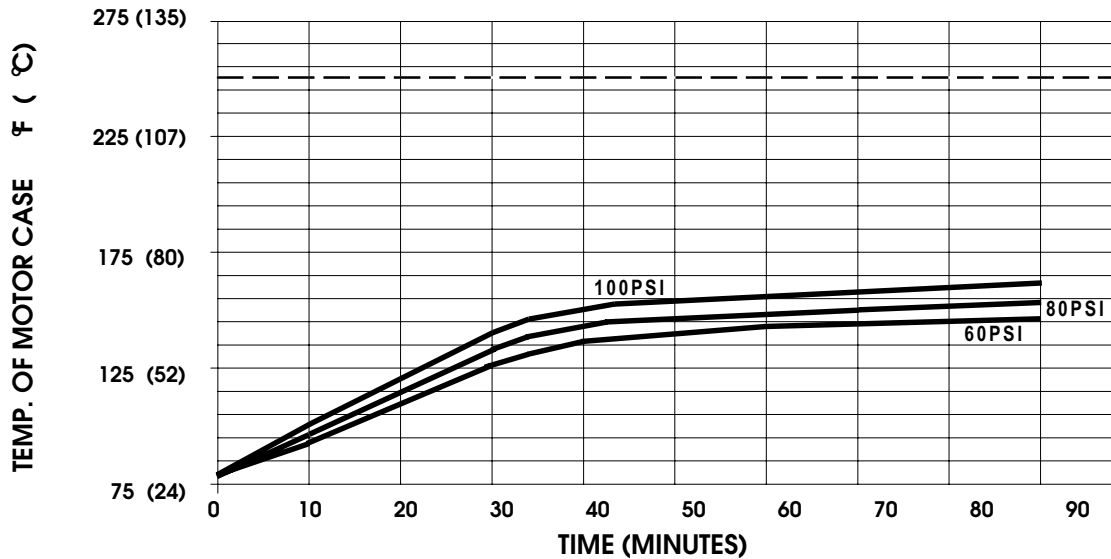
**TYPICAL APPLICATIONS:** Soil Extraction

**BYPASS:** 100 PSI

**APPROVALS:** VDE Approved

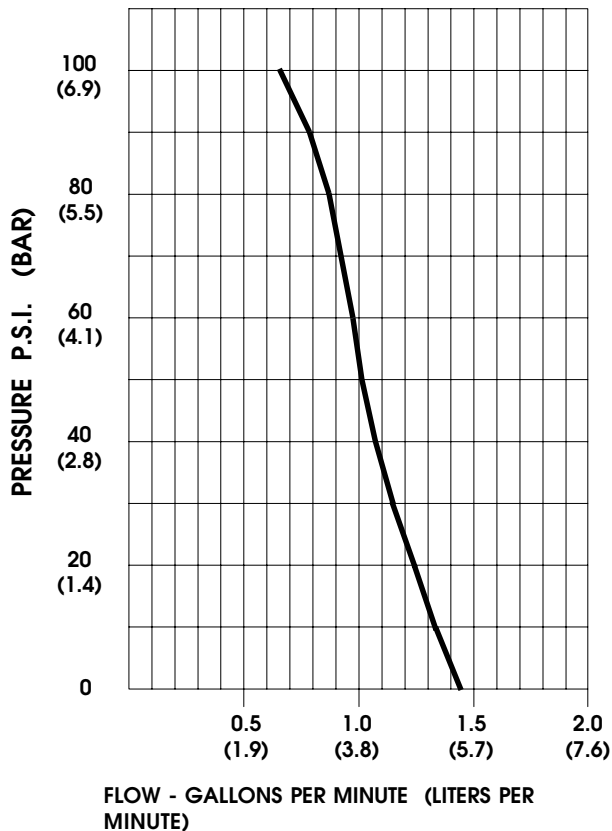
### DIMENSIONS:



TEMPERATURE RISE

THIS GRAPH IS FOR USE AS A DESIGN GUIDE. IT IS BASED ON RUNNING CONTINUOUSLY WITH AN AMBIENT TEMPERATURE OF 80° F IN STILL AIR. THE THERMAL BREAKER WILL OPEN WHEN THE CASE TEMPERATURE REACHES 250°F.

[ - - - - - TRIP POINT OF THERMAL PROTECTOR ]

TYPICAL PERFORMANCE

| PRESSURE (PSI) | FLOW (GPM/LIT) | RPM MIN/MAX | CURRENT (AMPS) | VOLTAGE (VOLTS) |
|----------------|----------------|-------------|----------------|-----------------|
| OPEN           | 1.44/5.4       | 2480/2585   | 0.16           | 230 VAC         |
| 10             | 1.33/5.0       | 2415/2485   | 0.18           | "               |
| 20             | 1.23/4.6       | 2340/2410   | 0.20           | "               |
| 30             | 1.16/4.4       | 2285/2350   | 0.21           | "               |
| 40             | 1.08/4.1       | 2235/2290   | 0.23           | "               |
| 50             | 1.02/3.9       | 2105/2245   | 0.25           | "               |
| 60             | 0.97/3.7       | 2035/2180   | 0.26           | "               |
| 70             | 0.92/3.5       | 1990/2135   | 0.28           | "               |
| 80             | 0.87/3.3       | 1945/2085   | 0.30           | "               |
| 90             | 0.79/3.0       | 1880/2045   | 0.32           | "               |
| 100            | 0.65/2.5       | 1845/2005   | 0.33           | "               |

-SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

-ALL DATA BASED ON TESTING WITH WATER AT AMBIENT TEMPERATURE.

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