HOMA PUMP TECHNOLOGY

Start-up Report

Warranty Void if not Completed

Warranty claims for P Frame and larger motors will not be honored without a signed start-up report. Please complete this form and email to service@homapump.com within 30 days to initiate warranty

Site Location: _____ Contractor: _____

Site Contact: _____ Engineer: _____

Distributor: _____ Owner: _____

Pump Model: _____ Pump Serial No.: _____

HP: _____ Pump Voltage: _____ Phase: ○ 1-Phase ○ 3-Phase Full-Load Amps: _____

Design Conditions: _____ GPM @ _____ TDH

Site Voltage: L1-L2: _____ L2-L3: _____ L1-L3: _____ L1-G: _____ L2-G: _____ L3-G: _____

Control Manufacturer: _____ Heater(Overload) Size: _____

Ground Connected: _____ Alternator Tested: _____

Installation Type: _____ Autocoupling Manufacturer: _____

Single Phase

MegOhm Check to Ground: U1: _____ U2: _____ Z2: _____

Resistance Check (ohms): U1-U2: _____ U1-Z2: _____ U2-Z2: _____ T1-T2: _____ (NC, typ. 0.4 ohm)

Amperage Check: U1: _____ U2: _____ Z2: _____

Capacitor Sizes Installed: Start: _____ µf Run: _____ µf

Three Phase

MegOhm Check to Ground: U: _____ V: _____ W: _____

Resistance Check (ohms): U-V: _____ U-W: _____ V-W: _____ T1-T2: _____ (NC, typ. 0.4 ohm)

Amperage Check (amps): U: _____ V: _____ W: _____

Check List

1. Check Moisture Probe ☐
2. Check Thermals ☐
3. Check Rotation (CCW from below) ☐
4. Guide Rails: Plumb & Secured ☐
5. Valves operating ☐
6. Profile seal installed ☐
7. Pump seated properly ☐
8. Flow meter ☐
9. Pressure Gauge ☐

Performance Test: _____ GPM @ _____ TDH

Comments _____

_____

_____

I Certify this Report to be Accurate (please sign): _____

Startup Date: _____ Report Date: _____

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Technical Pages

Single Phase Pump Capacitor Sizing Procedure

Run Capacitor sizing can vary depending on the incoming supply voltage provided. HOMA Single Phase pumps are provided with a Start and a Run Capacitor sized for 220-230V under load. Frequently, the available line voltage is considerably different than indicated, and the start or run capacitors may need to be resized to match the available field voltage. The following procedure will allow you to verify proper operation of your single phase pump, and/or make necessary changes to your capacitors to correct for your power supply.

After verifying wiring is in accordance with your pump requirements, start pump and record the following readings from each of the (3) pump cable leads.

Common	Run	Start
U1	U2	Z2

Current under load:

U1 _____**Amps >** U2 _____**Amps >** Z2 _____**Amps**

Should be: (highest reading) (middle reading) (lowest reading)

Lead U1 (common) should have the highest current reading. Lead Z2 (start) should have the lowest reading.

If Z2 current draw is greater than the current draw of either U1 or U2, a smaller size Run capacitor (lower microfarad rating) is required to correct the condition. Example: If a 60 µf Run capacitor was supplied, change to a 50 µf Run capacitor and check current readings. Typically, only one step down in capacitor size is required, but in certain instances 2 steps may be required.

☐ The standard capacitor kit provided includes: _____ µf start capacitor

_____ µf run capacitor

☐ Additional run capacitors have been included for use in tuning the pump to match available line voltages for optimum performance:

_____ µf run capacitor

_____ µf run capacitor

_____ µf run capacitor