

Single and Three Phase Fountain Field Report

Problem Diagnosis  New Install  Technician \_\_\_\_\_ Date \_\_\_\_\_

Equipment ID # \_\_\_\_\_ Property Name \_\_\_\_\_ Site Location \_\_\_\_\_

Unit Serial # \_\_\_\_\_ Panel Serial # \_\_\_\_\_

General description of unit: Mfg \_\_\_\_\_ HP \_\_\_\_\_ Voltage \_\_\_\_\_ Phase \_\_\_\_\_ Pattern \_\_\_\_\_

Are Lights Working? Yes  No  No Lights  Light problems noted \_\_\_\_\_

Control circuit voltage (must be 120V) – L1 to neutral \_\_\_\_\_

Check for high voltage leg (3PH) – L2 to neutral \_\_\_\_\_ L3 to neutral \_\_\_\_\_

No load input voltage readings (unit off) L1 to L2 \_\_\_\_\_ L2 to L3 (3PH) \_\_\_\_\_ L1 to L3 (3PH) \_\_\_\_\_

Energize unit on shore – Does unit come on? Y  N  Does GFI trip? Y  N  Does contactor pull in? Y  N

Confirm proper rotation (3PH) – Otterbine and AquaMaster spin counter clockwise, Kasco spins clockwise.

\*Swap any two leads to change rotation. Must be checked each time a 3PH unit is installed.\*

Under load output voltage: T1 to T2 \_\_\_\_\_ T2 to T3 (3PH) \_\_\_\_\_ T1 to T3 (3PH) \_\_\_\_\_

T1 to ground \_\_\_\_\_ T2 to ground \_\_\_\_\_ T3 to ground \_\_\_\_\_ (3PH)

Franklin Control Box  Capacitor in Panel

Capacitor specs \_\_\_\_\_ Capacitor readings \_\_\_\_\_

Amperage readings: T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_ (3PH)

Check for current unbalance (3PH). Roll leads to get at least difference between each leg amp draw. Good is less than 5%.

Megohm readings cable +motor \_\_\_\_\_

If cable + motor readings are below 30 isolate cable, motor and ALC and take readings below:

Megohm readings cable only \_\_\_\_\_

Megohm readings motor only \_\_\_\_\_

Megohm ALC only \_\_\_\_\_

Megohm readings panel to J box \_\_\_\_\_

Is there a junction box between panel and unit? Y  N

Condition/problems noted at junction box:

Cable length \_\_\_\_\_ Cable gauge \_\_\_\_\_ Type of motor connector \_\_\_\_\_

Comments on general condition of power cable and pigtail/ALC/motor lead:

Comments on general condition of control panel:

Check all terminal connections in panel. Were any loose? Y  N

Comments on general condition of unit (missing/damaged parts, water logged float, etc.):

Conclusions from field diagnosis:

Field repairs that need quoted:

Part numbers for field repairs done:

List of equipment returned to shop for diagnosis: