

E/One Indoor Station Startup Checklist

Station Inspection Check:

- 1 Damage free, leak free.
- 2 The Equalizer Tube/Power Cable must be connected.
- 3 Ensure that all discharge valving, interior and at street are open.
- 4 Make sure that the pump housing is securely fastened to decking.

Panel Inspection Check:

- 1 Proper wiring (see the wiring diagram in the panel).
- 2 Damage free.
- 3 Unshielded wires must not be exposed outside of panel.
- 4 Conduits must be sealed with Duct-Seal (**no silicone**)
- 5 For non-Protect Plus alarm panels, test incoming line voltage. If the voltage varies more than 10 percent of nameplate voltage, **do not continue!** Rectify the voltage problem.
- 6 For Protect Plus alarm panels, refer to LCD screen for incoming voltage and Amperage draw when pumps cycles.
- 7 **'Cold Start'** the panel. The Cold Start option is found within the Initialize System mode. Cold Starting the panel erases all stored operating parameters and should be done when the panel is first installed. From the Cold Start menu, use the UP 'A' and DOWN 'B' keys to alternate the selection between 'N' (no) and 'Y' (yes). Once 'Y' is selected, press 'Enter' to accept; the panel asked, 'Are You Sure?'. Pressing 'Enter' at this point will initiate a Cold Start of the panel. The LCD will display 'Cold Starting', after which the panel will restart.

Run Test:

This test assumes that the station has enough water to operate the alarm and that all discharge lines and valves are open. Any problems found during startup are to be noted on the comment section of the start-up form. This includes problems that are repaired during startup. When a problem is repaired, the date, type of repair and repairperson should be noted.

- 1 Test the voltage going to the pump at the panel; it must be within 10 percent of the nameplate voltage (240=216 to 264 and 120=108 to 132). If it is not, **do not continue**. Rectify the voltage problem.
- 2 Turn on the alarm breaker and verify that the alarm is activated.
- 3 Silence the horn.
- 4 Clip Amp meter onto the *Black Wire* of the Tray Cable for standard panels or *see LCD display for Protect Plus alarm panels*.
- 5 Turn on the pump breaker(s).
- 6 Amperage should be between 5 and 8 amps at 240 volts (10 and 16 amps for 120-volt units). Higher amperage indicates higher pressure. Over 8 amps at 240 volts (or 16 amps at 120 volt) could indicate a plugged or closed line. If you experience a high amperage reading, shut pump off immediately and rectify the problem. Note amperage on start-up form.
- 7 Once the alarm turns off, refill tank to "On" level and allow pump to cycle.
- 8 After the pump automatically turns off, keep both breakers on and submit start-up details at www.minnesotapumpworks.com.