

SEQUENCE OF OPERATION GLA – GLYCOL AUTO FILL UNITS

The Armstrong automatic glycol makeup unit is designed to maintain the HVAC system pressure by adding the appropriate mix of glycol and water to the system.

During the normal operation of the HVAC system, fluid is lost causing a drop in the system pressure.

STANDARD UNIT

When the system pressure drops below the set point on the pressure switch, the GLA pump is started adding fluid from the GLA tank into the HVAC system. When the system pressure returns to normal operating conditions, the pump stops.

As the tank empties, a level switch is actuated preventing the pump from running dry.

ULTRA UNIT

When the system pressure drops below the set point on the pressure switch, the GLA pump is started adding fluid from the GLA tank into the HVAC system. When the system pressure returns to normal operating conditions, the pump stops.

As the tank empties, a level switch is actuated lighting the low level pilot light. If the system is not filled, a second level switch stops the pump(s) preventing the pump(s) from running dry.

Should the system be overfilled, a high level alarm is actuated by level switch.

Dry contacts can be provided for remote indication of the above conditions.

A manual “push to mix” switch is provided for agitation of the contents of the GLA unit. The switch starts the pump and opens the return line solenoid valve circulating the fluid.

Duplex units are equipped with a manual alternator to equalize wear on the pumps.

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