

AF411 Antifreeze Control



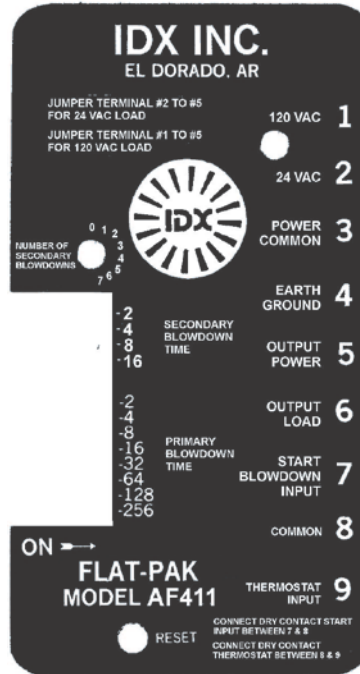
The **AF411** Antifreeze controller is designed to provide the Automatic Carwash industry an inexpensive air purge antifreeze system controller.

The **AF411** provides two adjustable blow-down cycle times, as well as, thermostat and treadle switch inputs. When the thermostat input is closed (below 32 degrees) and the treadle switch is closed for 1 second (vehicle in position), the controller arms itself. After the treadle switch input has opened for a continuous 10 seconds, the first blow-down cycle begins. Upon completion of the first blow-down cycle the **AF411** controller waits an additional 10 seconds and starts the second blow-down cycle. The second blow-down cycle may be factory programmed to repeat one to seven times.

The complete blow-down sequence is also initiated when the thermostat input first closes even if the treadle switch input remains open. This prevents line freezes if the automatic is not in use as the temperature drops below freezing.

Features:

- ◆ 24-120VAC Power
- ◆ Heavy Duty Dual 25 amp Output
- ◆ Thermostat and Treadle Switch Inputs
- ◆ Two, Switch Selectable, Blow-Down Cycle Times
- ◆ Second Blow-Down Cycle Factory Programmable to Repeat Up To 7 Times



AF411 Operation:

- 1 second of **ON** treadle switch (TB7 pulled to TB8) to arm.
- 10 seconds of **OFF** treadle switch to trigger after arm.
- Primary Blow Down (output ON) Primary Blow Down Time switches @ 2 sec. per.
- Number of follow-on Blow Down periods set by rotary switch (0 – 7)
- Each follow-on Blow Down period preceded by 10 second dwell with output OFF
- Follow-On Blow Down period is set by the Secondary Blow Down Time switches @ 2 sec. per.
- Blow Downs will only occur if thermostat is ON (TB9 pulled to common TB8).
- When the thermostat is first ON for over 10 secs. (it just now got cold), the Blow Down Cycle is armed and triggered and runs a full cycle.
- Blow Down cycles are interrupted by thermostat OFF or treadle switch ON.