

Product Sheet - Model 7580

Product Description

The Beckett GeniSys® Advanced Burner Control is a 240 Vac primary safety control for Commercial / Industrial pressure washer and other industrial applications. The GeniSys® is used with a suitable cad cell flame sensor to control the oil burner motor, igniter, and optional solenoid valve. It has 24 Vac thermostat terminals (if applicable) compatible with mechanical and many other thermostats. It can provide interrupted or intermittent duty ignition, and it has a 15-second lockout time.

Features & Benefits

- Epoxy potted for moisture resistance
- Compatible with most operating controls
- Customizable pre-time and post-time
- Three status lights for system monitoring and diagnostics
- Welded relay protection with redundant motor relays
- Limited reset and limited recycle
- Sleek, modern design
- Technician Pump Prime mode
- 18 month Warranty
- Communication ports for the contractor tool



Part No. 7580

Add a GeniSys Contractor Tool to fully utilize the features of the GeniSys advanced burner control.



The GeniSys® Contractor Tool (Pt. No. 52082U) allows a technician to monitor and program the primary control variables. The display shows current burner status, control timings, and burner cycle history. The display's programming mode allows a technician to customize both the pre-time and post-time settings and a lockout service message.

- 32 character backlit alphanumeric display
- Sealed pushbutton keypad
- Low voltage operation
- Continuous real-time cycle monitoring
- Continuous cad cell resistance reading
- Continuous AC line voltage read-out
- Real-time error notification
- Customizable pre-time (valve-on delay) & post-time (motor off delay)
- 15 cycle history monitoring
- 18-Month Warranty
- Customizable lockout service message

To learn more, ask for literature pt. no. 61911

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Cross-Reference Chart

Beckett GeniSys Control Part No.	Lockout Time	Valve-on delay time ²	Motor-off delay time ²
7580A 0000	15 sec	-	-
7580B 1500	15 sec	15 sec	-
7580P 1515	15 sec	15 sec	15 sec
7580P 152M	15 sec	15 sec	2 min
7580P054M	15 sec	5 sec	4 min

Electrical Ratings

Inputs

Voltage: 208 to 240 Vac
Current: 100 mA plus burner motor, igniter, and valve loads
Frequency: 50/60 Hz

Outputs

Motor: 208/240 Vac, 5 full load amps (FLA*), 30 locked rotor amps (LRA)
Note – Reduce motor FLA rating by igniter current
Igniter: 208/240 Vac, 3 A @ 0.7 PF min
Solenoid Valve: 208/240 Vac, 1 A @ 0.7 PF min
Thermostat Anticipator Current: 0.1 A (If applicable)
Thermostat Voltage: 24 Vac (If applicable)

Application Ratings

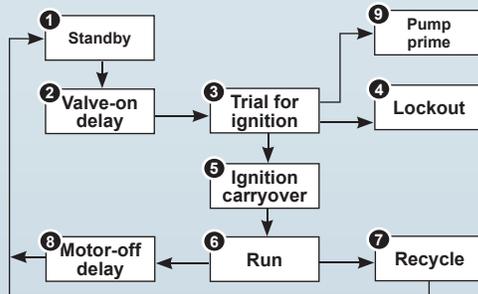
Oil Burner Input: less than 20gph

Environmental Ratings

Storage & Operating Ambient Temp.: -40°F to +150°F (-40°C to +65°C)
Moisture: 5 to 95% RH, condensing

Operation

Sequence of Operation



Priming The Pump

1. Initiate a call for heat.
2. When the burner starts, press and hold the reset button for 15 seconds until the yellow light turns on.
3. Release the button. The yellow light will turn off and the burner will start again.
4. At burner start up, click the reset button while the igniter is still on to enter Pump Prime mode. The yellow light will turn on.
5. Bleed the pump until all froth and bubbles are purged.
6. If necessary, repeat steps 4 and 5 until the pump is fully primed and the oil is free of bubbles.
7. When finished, hold the reset button or remove the call for heat to exit Pump Prime mode and return to Standby.

Resetting From Restricted Lockout

If the control locks out three times without a satisfied call for heat or fails the motor relay check, the Lockout becomes restricted in order to prevent repetitious resetting by the homeowner. To reset, hold the button down for 15 seconds until the red light turns off and the yellow LED turns on.

Disable Function

Any time the burner is running, press and hold the reset button to disable the burner. The burner will remain off as long as the button is held.

Cad Cell Resistance Measurement

The cad cell resistance can be selected and read with the GeniSys Contractor Tool, part no. 52082U. If the Contractor Tool is not available, the cad cell leads can be unplugged from the control and the resistance measured with a meter in the conventional way. Conduct these tests with flame present.

Flame Detection Range
Normal = 0 to 1600 ohms
Limited = 1600 ohms to lockout