

# 3000 Series Cut Sheets

## Commercial Big Squirt by Bennett Electronic Commercial (Volume Only) Remote Pumps and Dispensers

### 3000 Chassis 3700B Series Models - Ultra High Flow Rates

When we set out to design the new 3000 series chassis, we asked if good looks were as important for single and twin dispensers as they are for the multi-product high hose dispensers used at convenience stores. We were forced to answer yes. No matter how functional the product, good looks are always important to create a positive image for your brand identity. That's why you'll find esthetic details such as rounded radius corner end panels, hidden fasteners, back-lighted LCD displays, and attractive color schemes. We'll even silk screen your company logo or selected graphics on the panels to further enhance your company image.

We even decided to package the *Big Squirt* in a high hose style cabinet similar to the multi-product dispensers used at convenience stores. Because high flow rates are so important to these type units, we still provide an 1-1/4" outlet out the side of the cabinet and a hidden hose retractor mechanism in the top of the dispenser for long reach hoses (up to 17-feet of hose and other hanging hardware). And, of course, we continue to offer traditional low hose style designs as well. Our *Big Squirt* companion satellites are full-sized versions of our master dispensers whether low hose or high hose styled cabinets. The same esthetic features that make our master dispensers so attractive are contained in our satellites too.

A single key opens the upper and lower doors. The doors swing open on hinges so they don't get scratched if you need to get inside the cabinet.

For performance, it's what's inside that counts. We provide each master hose with a high flow rotary meter rated at 70-gpm maximum flow rate. The bottom inlet, top outlet meter design minimizes leak point potential and ensures peak flow performance. Good looks count inside too. For us, good looks inside means simple, streamlined designs that make the product easy to manufacture and provide ample space to make service and maintenance quick and easy to accomplish. A large 2-inch Y-strainer is easily accessible to clean the re-useable stainless steel strainer cartridge.

We have a simple design philosophy: Simplicity breeds reliability. That sounds easy, but simplicity is elusive and difficult to conquer. Open our heavy duty electronics compartment door and you'll be surprised at how little there is inside. A simplified, single circuit board eliminates "cable mess" and provides the primary display, CPU functions, I/O functions, power supply, eCal (electronic meter calibration feature), RS485 communications, electromechanical analog totalizer, push button programming switches, battery backup for weights and measures last sale recall requirement, and field wiring terminal strip. In the event of a malfunction, the single board can be changed out in minutes. With a simple, self-paced Home Study Course on CD, technicians can quickly become competent to service the *Big Squirt* and obtain a certification from Bennett to perform service and maintenance on the *Big Squirt*. A factory rebuilt circuit board exchange program further lowers your long term cost of ownership.

- eCal, our method to electronically calibrate the measurement accuracy of the hydraulic meter, is the simplest, fastest, and most accurate method to calibrate the measurement accuracy. Unlike mechanical calibration methods, there is no physical change to the meter device itself. With eCal, calibration can be performed in less than 50% of the time required for mechanical calibration and done with greater accuracy in most cases. While the traditional mechanical calibration method has been used for close to a century, compared to the power and accuracy of eCal, it is a crude and time consuming process. We package a weights and measures approved eCal system as a standard feature of our single board design.
- While our pulse output option adds a second circuit board to the dispenser, it is sometimes required to interface to a fleet management system. However, a single pulse output board provides four channel output capable of allowing a twin hose unit to send pulses simultaneously for both hoses to both a fleet management system and a fuel inventory reconciliation system. Some fleet management systems have interfaced directly to our simple two-command RS485 communication protocol making the optional pulse output board unnecessary and saving you money on your dispenser investment.
- While we provide electronic hose totals easily retrieved with a magnet activator, we also include electromechanical analog totalizers as a standard feature at no extra charge. By providing both electronic and analog totalizers you have a redundant data gathering system with cross checks on the performance of each method.
- Every dispenser meets the weights and measures requirement for the resale of fuel by providing last transaction recall in the event of a power outage. We provide the transaction recall feature on our single circuit board at no extra charge.
- We provide the most secure, tamper-proof pulser available. The magnetic drive pulser is enclosed in the meter housing for total security.

If you're considering purchasing an ultra high flow commercial dispenser, take a peek behind the panels and look for simple, streamlined designs. We don't think you'll find a dispenser anywhere that compares to the simplicity of the **Bennett Big Squirt** dispenser.

No one has a line up of ultra high flow dispensers like Bennett. Traditional low hose or modern high hose styling ~ Singles or Duals ~ Masters or Full Sized Satellites ~ Master Satellite Combinations including a 2-product per side master/satellite combination dispenser ~ Pulse Output Options for connection to fleet management systems ~ LPS Economy single and dual satellites. For a complete list of standard features and options, see page 2 of this product cut sheet. For details about our satellites see the Product Cut Sheet for Bennett Satellites.

Check out BESTool on our web site: [www.bennettpump.com](http://www.bennettpump.com) to make it simple and fast to write a specification document. And, of course, we're always available to help. Call our Bid and Spec Desk: USA (800) 235-7618, Ext. 3 ~ Outside the USA (231) 798-1310, Ext. 261.



Series  
3700B

Product Cut Sheet

# Electronic Commercial Big Squirt

## Commercial (Volume Only) Remote 3000 Chassis 3700B Ultra High Flow Rates

### Standard Features

- Simplified electronic computer.
- Stand-alone or Interfaced to Control Device.
- RS485 interface.
- Exclusive eCal™ (Electronic Calibration).
- Magnet activated electronic totals display.
- Programmable unit of measure for US gallons, liters, or imperial gallons.
- Operates from 115/230Vac, 60/50Hz, or 380 Vac, 50Hz.
- Back lighted LCD displays.
- Satellite Outlet Connection.
- Remote dispensers only.
- Single Master, dual master, master/satellite combination, & master-master/satellite-satellite dual combination.
- Field configurable for single point or simultaneous master & satellite fueling.

### Construction

- Low Hose Cabinet Design.
- High Hose Cabinet Design.
- Front or side mount nozzle boots.
- Heavy duty lift-to-start nozzle boots accommodate high speed truck stop nozzles.
- Long-life cabinet construction using galvanneal components and powder coated panels.
- Black end panels & top.
- Black electronics door - hinged, swing down.
- Green lower doors (optional colors available) - hinged, swing out.
- Heavy duty hose hook for low hose models.
- Internal hose retractor for high hose models.

### Computer

- Simplified single board design electronics. Includes CPU, power supply, display, eCal, RS485 connection, electromechanical analog totalizer, push-button programming switches, wiring terminal strip.
- LED Backlighting board for the LCD display.
- Magnetic drive, tamper-proof pulser.
- Designed for temperature extremes—no heaters or cooling fans required.
- Long life, highly visible back lighted LCD display, 1" (2.54cm) numerals.
- Battery Backup for last sale recall during power outage (required for resale of fuel).
- Simple 2-command protocol via RS485 interface to fleet management systems supplies pump status, pulses, volume sale and volume totals.
- Field wiring goes directly to terminal strip on Computer (for new installations pull 72" of wire above grade level).

### Computer (cont'd)

- Transaction display of: 999.999 for gallons, 9999.99 for liters.
- Electronic hose totals of:
  - 99999999.999 for gallons (8.3)
  - 999999999.99 for liters (9.2)
- Electromechanical totalizer 9999999.
- Built-in diagnostics with error codes.

### Hydraulics

- Rotary meter rated at 70gpm maximum.
- Built-in inlet check valves to keep the hydraulics full and prevent meter/pulser count-up when the submersible pump pressurizes the system.
- 1-1/2" 2-Stage prepay/preset electric solenoid valve.
- Metal Y-strainer. 2" size.
- 1-1/4" elbow hose outlet(s) with 1-1/4" x 1" reducer bushing.
- Note: Union & riser pipe not supplied for remote units.

### Options

- Programmable dual channel, dual hose Pulse Output Board to interface to fleet management systems & tank monitoring system if RS485 is not used.
- Sub pump relay 3-phase contactor.
- Intercom speaker for high hose models.
- Explosion proof junction box for lower hydraulic area.
- Stainless steel lower doors and/or end panels.
- Stainless "All Panels" Option (lower doors, end panels, cover for electronics compartment).
- "Super Stainless" Option is "All Panels" option plus electronics door and grade panel holder.
- Custom lower door colors and/or graphics.
- Hoses, nozzles, swivels.
- Satellite-in-use light(s) for remote master.
- Satellite pipe kit installed in remote master.
- Companion Satellites (Full size Big Squirt styling in low or high hose models. Singles or Duals, One or two sided. Note: a dual can be one or two sided.).
- Companion Satellites (LPS Economy low hose models in single or dual style. Note: Duals are two sided only.).
- For further details about satellite models, see our Product Cut Sheet for Satellites.



Bennett dispensers may dispense "Av-Gas", but cannot dispense Jet Fuel to fuel jet aircraft.

**For information on flow rates and model configurations see our Price Lists.**

UL™ listed.

Certified for resale applications. The N.T.E.P. Certificate of Conformance is available upon request.

Units have been tested and found to comply with the limits for a Class A computing device in accordance with Subpart J of Part 15 of FCC Rules regarding radio frequency interference.

Specifications in this document are subject to change without notice.



**Dual Dispenser Electronics  
Two Complete Electronic Systems  
Simplicity in Action**



Big Squirt Commercial Cutsheet