

# Bennett Pacific Specification Package

## Standard Features

- Remote Dispenser ONLY. Not available as a self-contained suction pump.
- Single Hose Non-Blender, or Blender. Electronic Blenders available are 3+0 or 3+1 style.
- Single or Two Tier Price Per Volume Displays.
- Prepay, Postpay, or Standalone capability.
- SB100 Precision Meter (Electronic Calibration is standard; Mechanical Calibration is optional).
- 1-1/2" Product inlets.
- UL Listed.
- NTEP Certificate of Conformance (Weights & Measures).

## VeriFone® Secure PumpPAY™ pay-at-the-pump payment solution

- PCI approved to reduce debit/credit card fraud at the pump.
- PCI EPP approved (OP313 encrypting PIN pad) for on-line PIN entry.
- Support DUKPT and TDES (Triple Data Encryption Standard), which was required for PCI certification and mandatory for all automated fuel dispenser card transaction by June 2010.
- Direct communication connection to the VeriFone in-store POS system.
- Completely integrated to Ruby, Sapphire, and Topaz POS systems.
- ATM style keypad and eight screen addressable keys for flexible customer input.
- Manual insert hybrid card reader with triple-track magnetic-stripe and EMV chip card capabilities.
- Built-in contact-less reader supports a variety of contact-less payment schemes.
- 5.7-Inch VGA color display.
- Simple twisted 3-wire set handles communication from both payment devices in a two-sided dispenser.

## Electronics, 708 series

- Full function, modular electronic computer.
- 110volt to 230 volt compatibility —no switches to set. Simply make the power connection.
- Solenoid valves operate on internally generated 24volt DC current.
- Excellent resistance to power fluctuations and electronic noise immunity built-in.
- Long life, high visibility LCD displays.
- 1-1/2" Money & Volume LCD characters.
- 1/2" Price Per Volume LCD characters.
- Bright LED Backlighting for all displays. Long life to eliminate bulb changing.
- Non-resettable electronic totals for money and volume.
- Battery backup for totals and display recall.
- Long life, electromechanical totalizers.
- Field programmable blend ratios for blender models.
- Proximity sensing product grade select switch (no moving parts).
- Streamlined electronic design to minimize number of circuit boards and cables, resulting in faster service if needed. Blender functionality built into a multi-processor CPU. Input/Output functions built into the CPU. Reliable thermal printer, paper cutter, and receipt delivery system.



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## Construction

- Swing out electronics door for ease of service.
- Long life cabinet construction utilizing corrosion resistant materials.
- Painted lower door with two locks.
- Heavy duty, lane oriented nozzle boots - easily adjustable for various nozzle length fit.
- Easily convertible nozzle boot for lever activation or grade button activation methods.
- Field Installed oval valance kit - customized graphics available.

## Hydraulics

- Spacious lower hydraulic enclosure for installation and service ease.
- Precision Bennett SB-100 meter.
- Spin-on vertical mount filters to prevent fuel spills during filter change.
- Unified inlet manifold includes check valve and spin-on filter.
- 24-Volt DC 2-stage proportional electric solenoid valves.

## Service Features

- Spacious cabinet enclosure with easy access to all hydraulic or electronic components.
- Swing out electronics door with dual locks.
- Low circuit board count, 708-series electronics package with minimal cabling connections.
- Built-in diagnostics using error codes.
- Self-contained thermal printer, paper cutter, receipt delivery system.
- VeriFone® MX760 Payment System is a self-contained module for ease of service (includes card swipe, display, and encrypting keypad).
- Field wiring terminal strip in electronic enclosure.
- Electronically driven electro-mechanical totalizers.

## Options

- Stainless steel lower hydraulics door.
- Custom graphics.
- Balance vapor ready.
- Bennett interface module for installation of Healy
- Universal Vapor Recovery Kit.
- Full function local preset (also known as "attendant preset"). Set any amount of money or volume or "fill-up".
- Liter or Imperial gallon measure (U.S. gallon is standard unit of measure).
- Explosion proof junction box in lower hydraulic area.



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## Base Model Number Descriptions

1st digit	Base Model	Always a "1"
2nd digit	Price Tiers Price per volume tiers	"1" or "2"
3rd digit	Products Number of Dispensed Products	"1", "2", "3", or "4"
4th digit	Hoses Total Number of Hose Outlets for Cabinet	"1", "2", or "4"
5th digit	Type	"B"lender, "N"on Blender, "M"ixer
6th digit	Positions Number of Fueling Positions (one or two sided dispenser)	"1" or "2"

Base Model Number	Price Per Volume Tier	Inlets	Products Dispensed	Hoses	N=Non-Blender M=Mixer B=Blender	Fueling Positions
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### Non-Blenders and Mixers with Single Tier Price Per Volume Displays

1111N1	1	1	1	1	N	1
1112N2	1	1	1	2	N	2
1122N1	1	2	2	2	N	1
1122N2	1	2	2	2	N	2
1124N2	1	2	2	4	N	2
1131M1	1	3	3	1	M	1
1132M2	1	3	3	2	M	2

Single Tier Price Displays

### Blenders with Single Tier Price Per Volume Displays

1131B1	1	2	3	1	B	1
1132B2	1	2	3	2	B	2
1142B1	1	3	4	2	B	1
1144B2	1	3	4	4	B	2

### Non-Blenders and Mixers with Single Tier Price Per Volume Displays

1211N1	2	1	1	1	N	1
1212N2	2	1	1	2	N	2
1222N1	2	2	2	2	N	1
1222N2	2	2	2	2	N	2
1224N2	2	2	2	4	N	2
1231M1	2	3	3	1	M	1
1232M2	2	3	3	2	M	2

Two Tier Price Displays

### Blenders with Single Tier Price Per Volume Displays

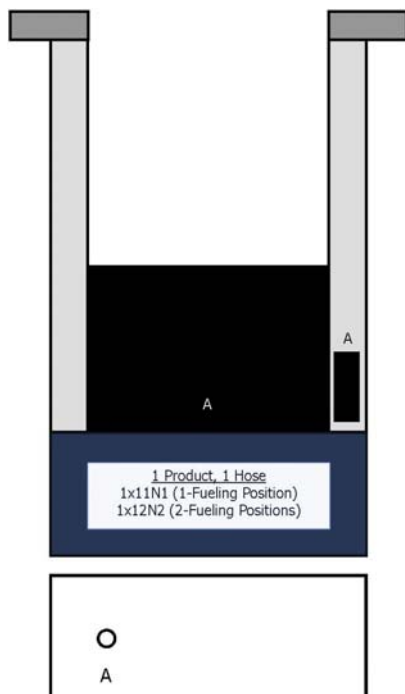
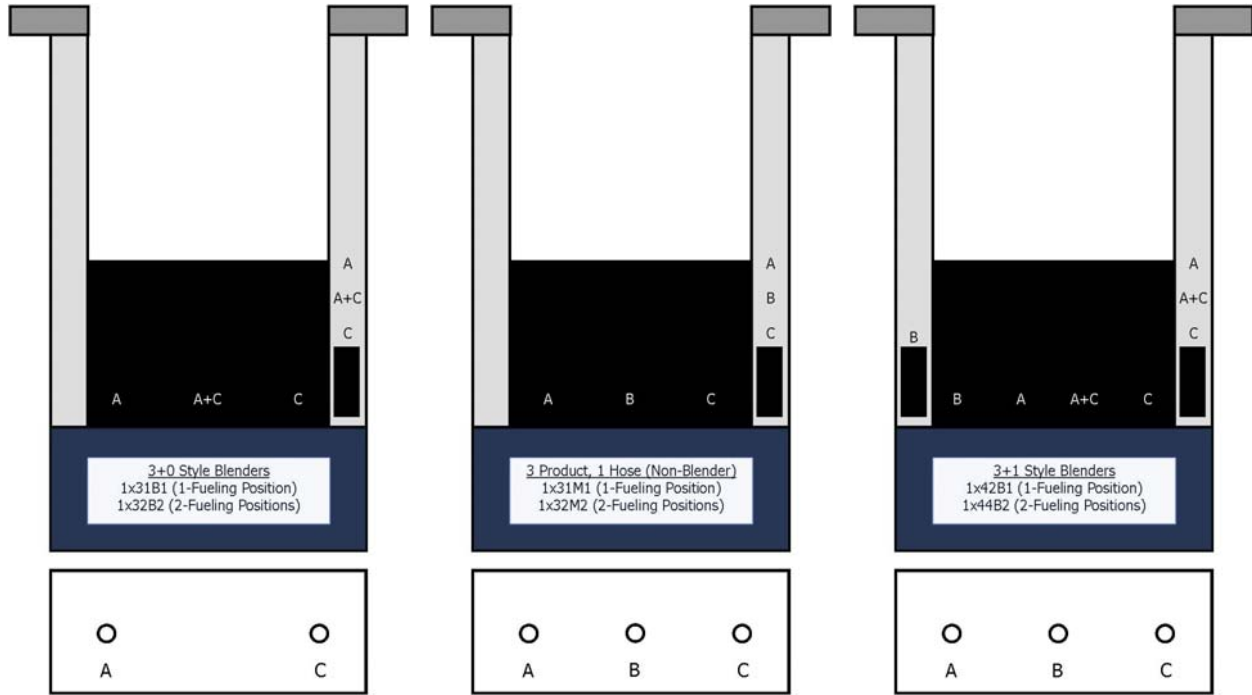
1231B1	2	2	3	1	B	1
1232B2	2	2	3	2	B	2
1242B1	2	3	4	2	B	1
1244B2	2	3	4	4	B	2

### Options

Alternative Fuel Compatibility (Single Side)	Alternative Fuel Compatibility
mCal (Mechanical Calibrated Meters)	Junction Box
Second Conduit	Intercom Speaker
Call Button (1-Fueling Position)	Call Button (2-Fueling Positions)
Stainless Steel Lower Doors	Stainless Steel Lower End Panels
Balance Vapor Ready (2 Fueling Positions)	Balance Vapor Ready (1 Fueling Position)
Healy Factory Installed Vapor System (Less Hanging Hardware) [per Dispenser]	Ready to Accept Healy Universal Retrofit Kit for Phase II Vapor Recovery Healy kit and installation provided by installer
Factory Installed Hose Retractor (per Hose)	6" Cabinet Riser (114312)
Model 515 Pump Controller (105161, 115v) 1 through 16 fueling positions	Interconnection Box (104090) [One Box Handles up to 16 Card Readers]
Model 515-E (105163) Pump Controller Expansion Box 16 through 32 fueling positions	Valance Kit (Field Installed)

\*Mixer: The term describes a non-blender dispensing more than one product through a single hose.

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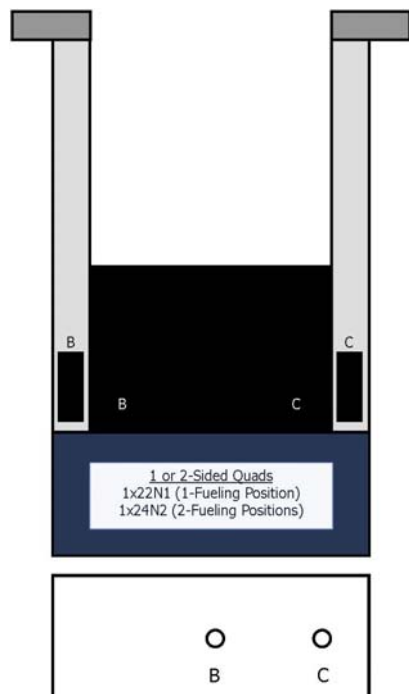


Letters in electronic door are product select buttons.

Letters above nozzle boots specify products dispensed from a particular hose.

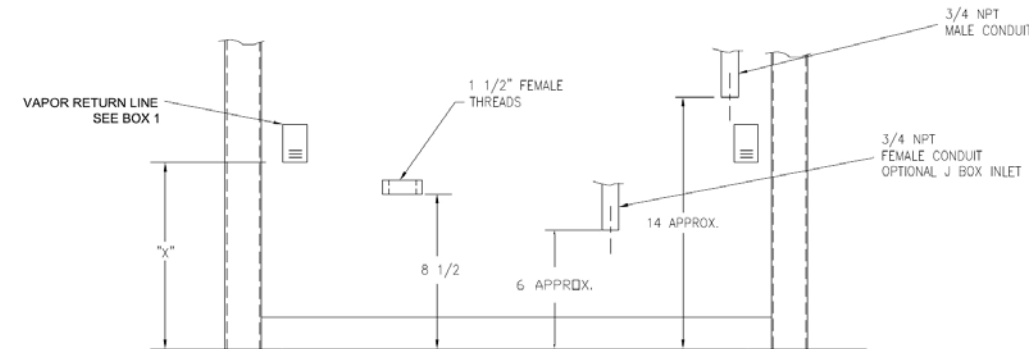
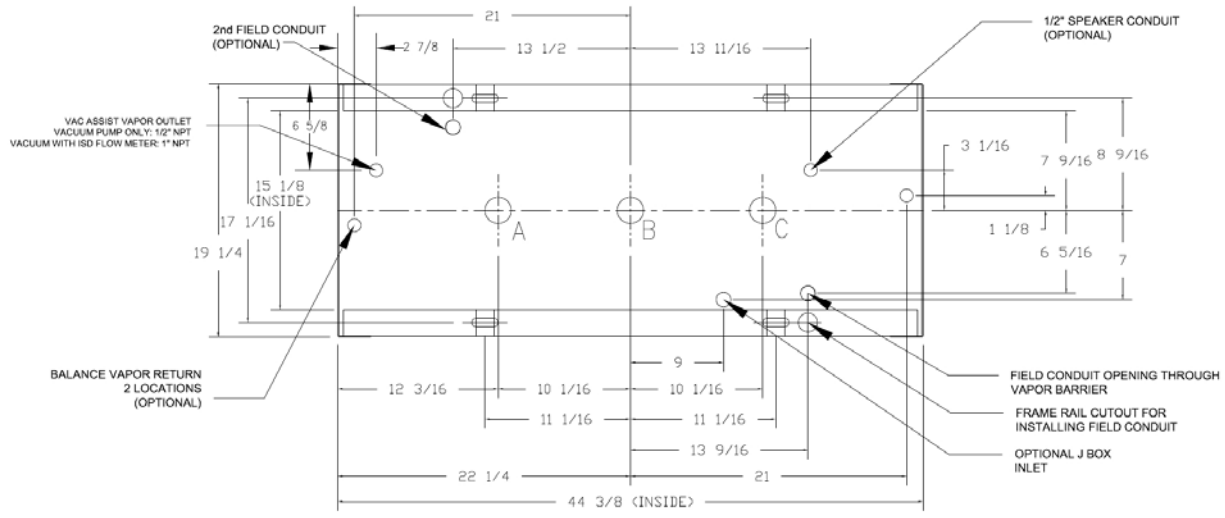
Letters in footprint diagrams below each dispenser specify location of product inlets

- Base Model Number Descriptions**
- 1st digit-base model number (always a "1")
  - 2nd digit-Price Tiers (Price per volume tiers. "1" or "2"). Shown as "x" on this chart.
  - 3rd digit-Products (Number of dispensed products. "1", "2", "3", or "4")
  - 4th digit-Hose Outlets (Total number per cabinet. "1", "2", or "4")
  - 5th digit-Configuration Type ("B"lender, "N"on-Blender, or "M"ixer (Non-blender dispensing more than one product through a single hose)
  - 6th digit-Fueling Positions (one or two sided cabinets. "1" or "2").



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<b>BENNETT PUMP COMPANY</b> 1218 E. Pontaluna Rd. Spring Lake, MI 49456	Tel: 800-235-7618 Tel: 231-798-1310 Fax: 231-799-6202	<b>C</b>	<b>P1247</b>	Rev F	5/11/2009
		SIZE	DRAWING NUMBER		



BOX 1		
VAPOR OPTION	TERMINATING THREADS	LENGTH "X"
BALANCE	3/4" NPT	11 1/2
ACTIVE	1/2" NPT	12 5/8
ACTIVE W/ ISD	1" NPT	7 1/2

**CAUTION :** DISPENSERS MUST BE INSTALLED WITH A SUITABLE POWER OPERATED PUMP INCORPORATING A PROVISION FOR EXPANSION RELIEF WHICH WILL RELIEVE AT PRESSURES NOT TO EXCEED 50 LBS. PER SQ. INCH. DO NOT USE LINE CHECK VALVE BETWEEN DISPENSER AND OPERATED PUMP UNLESS PROVIDED WITH RELIEF VALVE.

INLET PIPING SHALL BE A MINIMUM SCHEDULE 40 STEEL PIPE WITH UL LISTED UNION INSTALLED PRIOR TO INSTALLATION INTO THE DISPENSER INLET. ALL JOINTS TO BE MADE USING CLASSIFIED PIPE JOINT SEALING COMPOUND.

THIS UNIT MUST BE ANCHORED TO THE ISLAND WITH A MINIMUM OF 4 BOLTS WITH MINIMUM DIAMETER OF 1/2" THROUGH THE BASE FRAME. DO NOT SHIM MIDDLE OF BASE RAILS TO BOLT DOWN DISPENSER. SHIM ONLY NEAR BOLTS.

**DANGER:** INSTALLATION TO CONFORM TO NATIONAL, STATE AND LOCAL CODES.

**DANGER:** IMPACT SAFETY VALVES ARE TO BE INSTALLED WITH SHEAR SECTION IN LINE WITH SURFACE OF ISLAND TO WITHIN +/- 3/4". DEPENDING ON VALVE TO BE USED A LONGER OR SHORTER INLET NIPPLE MAY BE REQUIRED. INSTALLER MUST SUPPLY 1-1/2" INLET PIPES. THREADED FOR INLET MANIFOLD (NPT THREAD). CUSTOMER TO PROVIDE PIPE, GROUND JOINT UNION, CONDUIT, AND FITTINGS TO ELECTRICAL AND PLUMBING INLETS. USE ONLY UL LISTED RIGID METAL CONDUIT AND UL LISTED SEALING FITTINGS WITH CONDUCTOR SEALS.

**CAUTION:** DISPENSERS MUST BE INSTALLED WITH PROVISIONS FOR EXPANSION RELIEF, WHICH WILL RELIEVE AT PRESSURES NOT EXCEEDING 50 PSI (345 MPA). DO NOT USE LINE CHECK VALVE BETWEEN DISPENSER AND TANK UNLESS PROVIDED WITH RELIEF VALVE.

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Installation, Operation, and Service Manuals can be downloaded at: [www.BennettPump.com](http://www.BennettPump.com).

A link to the VeriFone® web page detailing the MX760 Secure PumpPAY™ payment system can also be found at: [www.BennettPump.com](http://www.BennettPump.com) or go to VeriFone's web site at: [www.VeriFone.com](http://www.VeriFone.com).

## PCI-DSS - Payment Card Industry Data Security Standards

The Payment Card Industry Security Council is an independent council formed by American Express, Discover, JCB, MasterCard Worldwide, and Visa International to manage the ongoing evolution of the PCI Data Security Standards. The PCI DSS is a multifaceted security standard that includes requirements for security management, policies, procedures, network architecture, software design and other critical protective measures. This comprehensive standard is intended to help organizations proactively protect customer account data. Information about the Payment Card Industry Security Standards can be found at: [www.PCISecurityStandards.org](http://www.PCISecurityStandards.org).

## Significant deadlines:

**January 1, 2009** - All new fuel dispensers must have PCI approved PIN entry devices installed.

**July 1, 2010** - All existing fuel dispensers need to support the Triple Data Encryption Standard (TDES) which is required for PCI certification and mandatory in all automated fuel dispensers.

Bennett's Pacific dispenser with VeriFone's Secure PumpPAY™ meets the PCI-DSS deadlines now. No costly upgrades are necessary to comply with the PCI mandates for January 1, 2009 or July 1, 2010.

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Rev D April 10