



PROPANE AUTOGAS FUELING CATALOG



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WHO IS CLEANFUEL USA?

Engineering & Manufacturing Office



Clean Fueling Technologies began in 1993 to supply professional, quality built LPG dispensers to the US autogas market. The company has grown into the international leader in alternate fuels dispensing. With sales in over 30 countries world-wide, CFUSA is recognized for innovation in technology and design for dispensers and dispensing stations. In 1999, CFUSA began development of E85 fuel dispensers, to answer the call for renewable fuel dispensers. In 2004, CFUSA became part of the CleanFUEL USA family with operations in both Georgetown, Texas and Wixom, Michigan. CFUSA now builds a complete line of LPG dispensers, dispensing equipment and packaged dispensing station systems, as well as offering design and construction of

turn key alternate fuel stations. CFUSA is the only LPG dispenser manufacturer in the world with dispenser models both UL and NCWM certified, the definitive marks of quality and accuracy. CFUSA is also the authorized technology partner for LPG upgrades of Gilbarco alternate fuel dispensers. Customers include NASA, the USAF, Exxon-Mobil, Total-Elf, Shell, Flying J, Conoco, Departments of Transportation, the Presidential Ranch in Crawford, Texas and UPS.

For over twenty years CFUSA has offered fully integrated solutions for propane autogas fueled fleets. From station design & installation to Liquid Propane Injection (LPI) vehicle engine systems and aftermarket options to fuel contracts and service and warranty for every product, we do it all.

Advanced Engineering Design

CFUSA Dispensers and LPG refueling station systems are designed in Solidworks CAD, as complete 3D assemblies. Based on more than 50 years of collective LPG refueling experience and excellent relationships with suppliers, CFUSA engineering is unsurpassed world wide. Comprehensive FEA, fluid modeling and durability testing or validation go into every product to ensure quality, customer satisfaction and long, trouble free operation. CFUSA Dispensers are sold into more countries, with more international certifications, approvals and MOC customers than any other LPG dispenser manufacturer.



PRODUCTION & QUALITY CONTROL

ASSEMBLY

CFUSA uses modern assembly practices, with a 60 hose per month capacity for production on a conveyor assembly line. Quality control and assembly documentation follow every dispenser from the customer order to the shipping dock. CFUSA dispensers are assembled with the highest quality components including stainless steel cabinets or powder-coated steel, proven technologies like Liquid Controls, LiquaTech, RegO, Fisher, Parker, ASCO, Red Lion, Red Seal and more.

QUALITY CONTROL

Every CFUSA dispenser is subjected to meticulous inspections. Each dispenser goes through a 21 point QC test with full electronics test, computer burn in, computer function, explosion proof inspection, pressure test, hydraulic function test, base pre-calibration, nitrogen purge and more. All dispensers are packaged for shipping with custom designed materials to prevent damage in transit and to mitigate transport corrosion.

Gilbarco and Gasboy

CFUSA provides the highest quality, fully integrated LPG upfits for Gilbarco and Gasboy dispensers. Companies like Shell, Exxon-Mobil, Flying J, Conoco and others appreciate the quality, reliability and seamless integration that CFUSA up-fits provide into their existing fuel stations and point of sale systems.

Testing & Certification

CFUSA maintains the highest standards of quality and accuracy. With full durability and accuracy in testing facilities for LPG, CFUSA works closely with NCWM and international metrology authorities. CFUSA's unique and proprietary computer controls provide un-matched accuracy. CFUSA dispensers provide the station owner with the best accuracy and lowest maintenance cost in the industry.

CERTIFICATIONS & APPROVALS

ALL CFUSA dispensers are built to the highest international standards. With each model, either UL certified or fully compliant with UL standard 495, NEC, NFPA 58 and other recognized regulations, CFUSA safety in operation is unparalleled within the industry. Additional international certifications only confirm the recognition of the UL seal of approval. With separate hydraulic hazardous areas, explosion proof electrical connections, intrinsically safe sensor circuits, air gaps and vapor seals, CFUSA dispensers have been accepted in compliance with safety requirements world wide. With certifications and approvals in some of the most stringent countries like Russia and India, CFUSA sells in more than 30 different countries, from single dispensers to complete turn key station projects and modular skid mounted station systems

DISPENSER CERTIFICATIONS

P2000 Compact Commercial/Industrial & Fleet Series

- UL 495 Compliant
- NFPA 58 Compliant
- NCWM/NTEP Certification

P5000 Gasboy Autogas Dispenser

- UL 495 Compliant
- NFPA 58 Compliant
- NCWM/NTEP Certification
- UL Listing Pending

P6000 Low Hose Commercial/Retail Series

- UL 495 Compliant
- NFPA 58 Compliant
- NCWM/NTEP Certification
- Russia GOST-R & Metrology, Indian CCOE

P3000 Gilbarco Encore, Retail Fore-Court High Hose

- UL 495 Compliant
- NFPA 58 Compliant
- NCWM/NTEP Certification
- UL Listed

P7000 High Hose Retail Series

- UL 495 Compliant
- NFPA 58 Compliant
- NCWM/NTEP Certification
- Russia GOST-R & Metrology, Indian CCOE

PRO2100 Series Dispenser Specifications

Dispenser Series	UL 495 Compliant	NFPA 58 Compliant	NCWM/NTEP Certification	UL Listed UL Listing Pending	Russia GOST-R Meterology Indian CCOE
P2000	•	•	•		
P6000	•	•	•		•
P7000	•	•	•		•
P5000	•	•	•	Pending	
P3000	•	•	•	Listed	

NEW featuring CleanFUEL eCONNECT proprietary fleet management system

P2000

Ideal solution for fleets, the P2100 provides a simple to use, reliable and attractive dispenser, with all the electronic functionality of bigger retail dispensers. It's compact and high durability stainless steel cabinet can be installed on a small footprint. It comes complete with a LiquaTech LPM102 flow meter with Trac-Bearing Chamber and CFUSA Electronic register, as well as standard 12' over all delivery hose and MEC break-away.

Computer Features

- Easy to read back-lit LCD displays
- Separate display for functions & programming
- 32 Key alpha-numeric keypad
- 5-level secured access programmings
- LCD sales display with LED backlight
- 110 vac / 60Hz OR 220vac / 50 Hz power supply
- Communicates to most fuel management systems
- Integral Gilbarco 2-wire communication protocol

Metering & Hydraulics

- Standard LiquaTech or Red Seal meter
- Optional Liquid Controls meter or Red Seal mass flow meter
- Explosion proof electrical connections in conduit
- Explosion proof junction box for safe connections
- Isolation valves for easy maintenance
- Liquid inlet & vapor outlet gauges for diagnostics



P2000 Dispenser Specifications

Dispenser Type	Low frame, Low hose, Single hose only
Product Dispensed	Automotive LPG capable of dispensing any blend of Propane, Butane, and other LPG's
Product Specific Gravity	0.490 - 0.595
Working Pressure	350 Psi / 24 bar
Design Temperature	-30 to + 55C (-25 to 130F)
Operating Temperature	-30 to + 55C (-25 to 130F)
Cabinet Housing	Stainless steel and galvanized steel
Flow Meters	LiquaTech optional: Liquid Controls or Red Seal Mass Flow Meter
Flow Capacity	3-18 gpm (11-68 lpm)
Meter Accuracy	+/- 4% NCWM Certified
System Filter	Internal 60-80 mesh strainer in meter
Vapor Eliminator	Volume displacement type with float operated valve for differential control
Differential Valve	Piston type with o-ring seals
Ball Valves	UL Listed, Brass/Bronze, 3/4" mpt
Earthing Arrangement	Chassis grounded to AC electrical system
Dispensing Nozzles	Gasguard, GG20
Dispensing Hose	3/4" x 12' standard, Electrically conductive, UL listed, 350 psi working Pressure
Safety Breakaway	Standard
Electrical Service	120 vac, 60 Hz or 220 vac, 50 Hz
Calculator	Cleanfuel eCONNECT
Relief Valves	440 psi (27 bar)
Maintenance valves	Ball valve isolation of hydraulics, bleed-down valves
Explosion Proof Standard	USA-UL, with aluminum conduit
Warranty	18 months from date of shipping; 12 months from date of installation
Dimensions	19.5" x 15.25" x 53"

CleanFUEL eCONNECT



Hardware	HMI (HumanMachineInterface) Calculator/Controller
	Up to Five RS-232/422/485 Communication Ports
	USB Port to download the unit's configuration from a PC or for data transfers to a PC
	COMPACTFLASH® socket to increase memory capacity up to 64 MB(mandatory to program and data transferring)
	Backlit 3.2" LCD screen
	32 button keypad includes user defined keys, navigational keys, numeric keys, keys for on-screen menus
	UL Listed
Fuel Network Management	Full Remote access and diagnostics when connected to internet. Communicates with smart devices and computers.
	Types of Access control: Access Card with optional card reader • PIN # entry on keypad • Optional Dallas iButton • Optional RFID System
	Fuel Storage Tank Inventory Monitoring
Available Options	Card Reader
	Printer
	7" Diagonal Display with 800 x 3(RGB) x 480 resolution: 7" Outdoor Color Touch Screen

NEW featuring CleanFUEL eCONNECT proprietary fleet management system

State-of-the-Art Electronics

- Display with total sale, price per gallon and total gallons dispensed
- Electronic keypad with 15 programmable price levels, selectable by operator
- Shift log in & log out with passcode for operator
- Dispenser lock down with pass code, no need for pad locks
- Integrated pump control
- Fuel management system integration standard
- Gilbarco 2 wire protocol embedded for retail gas station integration
- Optional electronic automatic temperature compensation
- Electronic calibration
- Additional hose with a cylinder filling nozzle
- The cylinder hose is separated from the autogas hose by electronically controlled solenoid valves
- The desired hose, either autogas or cylinder fill is selected using a switch on the face of the dispenser
- When cylinder fill is selected, the gallons and price display is deactivated

Metering & Hydraulics

- Standard LiquaTech or Red Seal meter
- Optional Liquid Controls meter or Red Seal mass flow meter
- Explosion proof electrical connections in conduit
- Explosion proof junction box for safe connections
- Isolation valves for easy maintenance
- Liquid inlet & vapor outlet gauges for diagnostics





P2000 Dispenser Specifications

Dispenser Type	Low frame, Low hose, Single hose only
Product Dispensed	Automotive LPG capable of dispensing any blend of Propane, Butane, and other LPG's
Product Specific Gravity	0.490-0.595
Working Pressure	350 Psi / 24 bar
Design Temperature	-30 to + 55C (-25 to 130F)
Operating Temperature	-30 to + 55C (-25 to 130F)
Cabinet Housing	Stainless steel and galvanized steel
Flow Meters	LiquaTech optional: Liquid Controls or Red Seal Mass Flow Meter
Flow Capacity	3-18 gpm (11-68 lpm)
Meter Accuracy	+/- 4% NCWM Certified
System Filter	Internal 60-80 mesh strainer in meter
Vapor Eliminator	Volume displacement type with float operated valve for differential control
Differential Valve	Piston type with o-ring seals
Ball Valves	UL Listed, Brass/Bronze, 3/4" mpt
Earthing Arrangement	Chassis grounded to AC electrical system
Dispensing Nozzles	Gasguard, GG20 and QCC quick disconnect
Dispensing Hose	3/4" x 12' standard, UL listed, 350 psi working Pressure
Safety Breakaway	Standard
Electrical Service	120 vac, 60 Hz or 220 vac, 50 Hz
Calculator	CleanFUEL eCONNECT
Relief Valves	440 psi (27 bar)
Maintenance valves	Ball valve isolation of hydraulics, bleed-down valves
Explosion Proof Standard	USA-UL, with aluminum conduit
Warranty	18 months from date of shipping; 12 months from date of installation
Dimensions	19.5" x 15.25" x 53"

NEW featuring CleanFUEL eCONNECT proprietary fleet management system

PRO6100 Series, Low frame Commercial Single sided, single hose

PRO6200 Two Sided, Two Hose

- Powder-coated Cabinet or optional stainless steel
- Computerized volume / price calculator
- Preset for money & volume Optional
- Self diagnostics for troubleshooting
- Lexan display panel, virtually unbreakable
- Inlet 3/4" filter with replaceable filter element

Computer Features

- Easy to read back-lit LCD displays
- Separate display for functions & programming
- 32 Key alpha-numeric keypad
- 5-level secured access programming
- LCD sales display with LED backlight
- 110 vac / 60Hz OR 220vac / 50 Hz power supply
- Communicates to most fuel management systems
- Integral Gilbarco 2-wire communication protocol

Metering & Hydraulics

- Standard LiquaTech or Red Seal meter
- Optional Liquid Controls meter or Red Seal mass flow meter
- Explosion proof electrical connections in conduit
- Explosion proof junction box for safe connections
- Isolation valves for easy maintenance
- Liquid inlet & vapor outlet gauges for diagnostics





PRO6000 Series Dispenser Specifications

Dispenser Type	Electronic, single or dual hose, commercial or retail operation Low frame, low hose
Product Dispensed	LPG Autogas any blend of Propane, Butane, and other LPG's
LPG Specific Gravity	0.490 - 0.595
Working Pressure	350 Psi / 24 bar
Operating Temp	-25 to 130F (-30 to + 55C)
Cabinet Housing	Powder-coated carbon steel, optional stainless steel
Flow Meters	LiquaTech optional: Liquid Controls or Red Seal Mass Flow Meter
Flow Capacity	LiquaTech, 3-18 gpm (11-68 lpm) Liquid Controls, 1-40 gpm (2.5-130 lpm)
Meter Accuracy	+/- 4% NCWM Certified, capable of +/- .2% in operation
System Filter	Internal 60-80 mesh strainer, Serviceable element Optional
Vapor Eliminator	Displacement type with float operated valve for differential control
Differential Valve	Piston type (Liqua-Tech) or diaphragm type (Liquid Controls)
Ball Valves	UL Listed, Brass/Bronze, 3/4" mpt
Back Check Valves	As Required on meter outlet
Pressure Gauges	Liquid Inlet, Vapor return, Both oil filled, 0-600 psi, 0-44 bar
Earthing Arrangement	Chassis grounded to AC electrical system
Dispensing Nozzles	Gasguard, GG20
Dispensing Hose	3/4" x 12' standard, UL listed, 350 psi WP
Safety Breakaway	Standard
Electrical Service	120 vac, 60 Hz Or 220 vac, 50 Hz
Electronic Calculator	CleanFUEL eCONNECT
Self Diagnostics	Status checks, error codes, Malfunction detection
Display Type	LCD sales display with LED backlight
Auto Temp Correction	Electronic Automat Temperature Compensation-Optional
Preset Money/Volume	Electronic, keypad controlled with 2 stage solenoid-Optional
Electronic Zeroing	Zeros on reset
Fuel Management	Electronic interface to any fleet fuel management system
POS System Comm	Gilbarco 2-wire protocol communication
Programming	Keypad entry with display, read & respond
Multi Level pricing	5 level pricing, keypad selectable
Electronic Calibration	Simplified Keypad entry
Power Supply	Protected Switching type
Relief Valves	440 psi (27 bar)
Maintenance Valves	Ball valve isolation of hydraulics, bleed-down valves
Explosion Proof Standard	USA-UL, with aluminum conduit, NEC Class 1, Div I & II
Warranty	18 months from date of shipping; 12 months from date of installation
Dimensions	32.5 x 26" x 60" (827mm x 661 mm x 1526mm)

NEW featuring CleanFUEL eCONNECT proprietary fleet management system

PRO7100 High Frame Retail
Single sided, single hose

PRO7200 Two Sided, Two Hose

- Powder-coated Cabinet
- Computerized volume / price calculator
- Preset for money & volume
- Self diagnostics for troubleshooting
- Lexan display panel, virtually unbreakable
- Inlet 3/4" filter with replaceable filter element

Computer Features

- Easy to read back-lit LCD displays
- Separate display for functions & programming
- 32 Key alpha-numeric keypad
- 5-level secured access programming
- LCD sales display with LED backlight
- 110 vac / 60Hz OR 220vac / 50 Hz power supply
- Communicates to most fuel management systems
- Integral Gilbarco 2-wire communication protocol

Metering & Hydraulics

- Standard LiquaTech or Red Seal meter
- Optional Liquid Controls meter or Red Seal mass flow meter
- Explosion proof electrical connections in conduit
- Explosion proof junction box for safe connections
- Isolation valves for easy maintenance
- Liquid inlet & vapor outlet gauges for diagnostics





P7000 Series Dispenser Specifications

Dispenser Type	Electronic, single or dual hose, commercial or retail operation High frame, High hose
Product Dispensed	LPG Autogas any blend of Propane, Butane, and other LPG's
LPG Specific Gravity	0.490 - 0.595
Working Pressure	350 Psi / 24 bar
Operating Temp	-25 to 130F (-30 to + 55C)
Cabinet Housing	Powder-coated carbon steel, optional stainless steel
Flow Meters	LiquaTech optional: Liquid Controls or Red Seal Mass Flow Meter
Flow Capacity	LiquaTech, 3-18 gpm (11-68 lpm) Liquid Controls, 1-40 gpm (2.5-130 lpm)
Meter Accuracy	+/- 4% NCWM Certified, capable of +/- .2% in operation
System Filter	Internal 60-80 mesh strainer, Serviceable element Optional
Vapor Eliminator	Displacement type with float operated valve for differential control
Differential Valve	Piston type (Liqua-Tech) or diaphragm type (Liquid Controls)
Ball Valves	UL Listed, Brass/Bronze, 3/4" mpt
Back Check Valves	As Required on meter outlet
Pressure Gauges	Liquid Inlet, Vapor return, Both oil filled, 0-600 psi, 0-44 bar
Earthing Arrangement	Chassis grounded to AC electrical system
Dispensing Nozzles	Gasguard, GG20
Lighting system	LCD Back-lighted displays
Dispensing Hose	3/4" x 12' standard, UL listed, 350 psi WP
Safety Breakaway	Standard
Electrical Service	120 vac, 60 Hz Or 220 vac, 50 Hz
Electronic Calculator	CleanFUEL eCONNECT
Self Diagnostics	Status checks, error codes, Malfunction detection
Display Type	LCD sales display with LED backlight
Auto Temp Correction	Electronic Automat Temperature Compensation-Optional
Preset Money/Volume	Electronic, keypad controlled with 2 stage solenoid-Optional
Electronic Zeroing	Zeros on reset
Fuel Management	Electronic interface to any fleet fuel management system
POS System Comm	Gilbarco 2-wire protocol communication
Programming	Keypad entry with display, read & respond
Multi Level pricing	5 level pricing, keypad selectable
Electronic Calibration	Simplified Keypad entry
Power Supply	Protected Switching type
Relief Valves	440 psi (27 bar)
Maintenance Valves	Ball valve isolation of hydraulics, bleed-down valves
Explosion Proof Standard	USA-UL, with aluminum conduit, NEC Class 1, Div I & II
Warranty	18 months from date of shipping; 12 months from date of installation
Dimensions	32.5 x 26" x 88" (827mm x 661 mm x 2237mm)

Single sided, single hose

Dual sided, dual hose

Standard Features

- Electronic computer
- Gilbarco 2-wire communication
- Backlighted electronic display 6-6-4: money, volume, and PPU for retail or gallons-only display for commercial
- Capable of stand alone operation
- Automatic temperature compensation (ATC)
- Flow rate from 2 to 40 gallons per minute
- Breakaway coupling, whip hose and 12' dispenser hose
- GG20 Gasguard nozzle for LPG autogas
- Side mount nozzle
- Painted G90 galvanized steel
- Painted lockable, removable panels
- Painted and replaceable G60 galvanized sheathing

Available Options

- Optional custom vinyl wrap
- World wide service for the Gilbarco electronics
- Kooline lockable, removable stainless steel panels
- Kooline stainless steel sheathing





P5000 Series Gasboy Dispenser Specifications

Dispenser Type	Retail or Commercial, Single or Dual Hose based on Gasboy Platform
Product Dispensed	LPG Autogas, any blend of Propane, Butane, and other LPG's
Product Specific Gravity	0.490 - 0.595
Working Pressure	350 Psi / 24 bar
Operating Temperature	-25 to 130F (-30 to + 55C)
Cabinet Housing	Galvanized Frame with cosmetic panels
Flow Meters	Liquid Controls MA4, rotary vane piston
Flow Capacity	Liquid Controls: 1-40 gpm (2.5-130 lpm)
Meter Accuracy	+/- 4% NCWM Certified, capable of +/- .2% in operation
System Filter	Internal 60-80 mesh strainer, Optional serviceable element filter
Vapor Eliminator	Displacement type with float operated valve for differential control
Differential Valve	Piston type with diaphragm
Ball Valves	UL Listed, Brass/Bronze, 3/4" mpt
Back Check Valves	As Required on meter outlet
Pressure Gauges	Liquid Inlet, Vapor return, Both oil filled, 0-600 psi, 0-44 bar
On/Off Switch	Intrinsically Safe magnetic switch
Earthing Arrangement	Chassis grounded to AC electrical system
Dispensing Nozzles	Gasguard GG20
Lighting system	Standard back lit
Dispensing Hose	3/4" x 12' standard, UL listed, 350 psi wp
Safety Breakaway	Standard
Electrical Service	120 vac, 60 Hz or 220 vac, 50 Hz
Calculator	Electronic Computer system
Self Diagnostics	Status checks, error codes, Malfunction detection
Display Type	Standard, 3 displays
Auto Temp Correction	ATC Standard
Electronic Zeroing	Zeros on reset
Data Retention	Gasboy Standard
POS System Communication	2-wire protocol or pulse output (optional)
Programming	Gasboy Standard
Electronic Calibration	Yes Liquid Controls
Linearization for accuracy	Optional 16 point linearization, 1-40 gpm (2.5-130 lpm)
Power Supply	Linear type
Relief Valves	400 psi (27 bar)
Maintenance valves	Ball valve isolation of hydraulics, bleed-down valves
Explosion Proof Standard	USA-UL, with aluminum conduit
Warranty	18 months from date of shipping; 12 months from date of installation

THE IDEAL RETAIL AUTOGAS DISPENSER

Single Sided, Single hose

Two Sided, Two hose

Standard Features

- Galvanized Meter support bracket with reinforcements
- Explosion proof conduit for all high voltage wires
- Piloted solenoids for flow control
- Intrinsically safe circuits for pulser and ATC probes
- Liquid inlet & vapor outlet diagnostic gauges
- Bleeder & isolation valves for maintenance
- Air-Gap separation with conduit and vapor seals
- Standard LC MA4 meter with SCAMP linearization
- Available with standard and Gilbarco MOC graphics
- Available with custom vinyl wrap
- Retains original Gilbarco computer and features
- Compatible with standard Gilbarco options
- Gasguard GG20 nozzle standard
- Automatic Temperature Compensation
- UL Listed
- Worldwide service for Gilbarco electronics





P3000 Series Gilbarco Encore S Dispenser Specifications

Dispenser Type	Gilbarco, retail single or dual hose, ENCORE chassis
Product Dispensed	LPG Autogas, any blend of Propane, Butane, and other LPG's
Product Specific Gravity	0.490 - 0.595
Working Pressure	350 Psi / 24 bar
Operating Temperature	-25 to 130F (-30 to + 55C)
Cabinet Housing	Galvanized Frame with cosmetic panels
Flow Meters	Liquid Controls MA4, rotary vane piston
Flow Capacity	Liquid Controls: 1-40 gpm (2.5-130 lpm)
Meter Accuracy	+/- 4% NCWM Certified, capable of +/- .2% in operation
System Filter	Internal 60-80 mesh strainer, Optional serviceable element filter
Vapor Eliminator	Displacement type with float operated valve for differential control
Differential Valve	Piston type with diaphragm
Ball Valves	UL Listed, Brass/Bronze, 3/4" mpt
Back Check Valves	As Required on meter outlet
Pressure Gauges	Liquid Inlet, Vapor return, Both oil filled, 0-600 psi, 0-44 bar
On/Off Switch	Intrinsically Safe magnetic switch
Earthing Arrangement	Chassis grounded to AC electrical system
Dispensing Nozzles	Gasguard
Lighting system	Gilbarco Standard back lit
Dispensing Hose	3/4" x 12' standard, UL listed, 350 psi wp
Safety Breakaway	Standard
Electrical Service	120 vac, 60 Hz or 220 vac, 50 Hz
Calculator	Electronic Computer system
Self Diagnostics	Status checks, error codes, Malfunction detection
Display Type	Gilbarco Standard, 3 displays
Auto Temp Correction	ATC Standard
Electronic Zeroing	Zeros on reset
Data Retention	Gilbarco Standard
Receipt Printer	Gilbarco Standard
POS System Communication	Gilbarco 2-wire protocol
Programming	Gilbarco Standard
Electronic Calibration	Yes Liquid Controls
Custom Messaging	With POS system
Linearization for accuracy	Optional 16 point linearization, 1-40 gpm (2.5-130 lpm)
Power Supply	Linear type
Relief Valves	400 psi (27 bar)
Maintenance valves	Ball valve isolation of hydraulics, bleed-down valves
Explosion Proof Standard	USA-UL, with aluminum conduit
Warranty	18 months from date of shipping; 12 months from date of installation
Dimensions	94" x 44.5" x 32.5" (238mm x 114mm x 83mm)

Vertical Autogas Package

Pre-assembled and tested, fully integrated design. Ready to install with minimal installation work requirements, just hook up the electricity, fill with autogas and you are ready to go!

- Vertical tank with reinforced legs, three bottom openings, powder-coated with side mounted valving for easy fill, gauge read and access. Fully welded 6" x 1/4" channel frame, with dispenser pad.
- Pneumatic internal valves in ALL bottom outlets, liquid feed to pump, bypass liquid return, vapor return to tank. All valves connected to control solenoid with regulator stub.
- Corken or Blackmer high differential pumps.
- All piping pre assembled with flexible isolation in & out of pump with protective coating and paint. Piping on restraint brackets for additional support.
- Ball valves for easy maintenance at all service points.
- Strainer with service drain, conveniently located for easy access.
- Inlet & outlet gauges for pump diagnostics.
- Pre wired to large explosion proof junction box for accessories.
- Designed to accommodate all CFUSA single hose dispensers with card reader interface
- Designed to accommodate Tripod Safety System (optional kit)





Horizontal Station Systems

Horizontal Autogas Package

Features

Pre-assembled and tested, fully integrated design. Ready to install with minimal installation work requirements, just hook up the electricity, fill with autogas and go!



- Standard 1000 or 2000 gal horizontal tank, with three bottom openings, powdercoated with side mounted valving for easy fill, gauge read and access.
- Pneumatic internal valves in ALL bottom outlets, liquid feed to pump, bypass liquid return, vapor return to tank.
- Corken or Blackmer high differential pump.
- All piping pre assembled with flexible isolation in & out of pump with protective coating and paint.
- Ball valves for easy maintenance at all service points.
- Strainer with service drain, conveniently located for easy access.
- Inlet & outlet gauges for pump diagnostics
- Pre wired to large explosion proof junction box for accessories.
- Heavy duty 3" welded square tube frame, durable vinyl textured "bed-liner" finish for enhanced corrosion resistance
- Flexible modular design, for a variety of tanks, pumps and dispenser options
- Designed to accommodate all CFUSA single hose dispensers with card reader interface
- Designed to accommodate Tripod Safety System (Optional kit)



Features

Pre-assembled and tested, fully integrated design. Ready to install with minimal installation work requirements, just hook up the electricity, connect to tank and go!

- Can control Pneumatic internal valves in ALL tank openings, liquid feed to pump, bypass & vapor return.
- Welded 3" channel frame, adjustable for expansion, heavy vinyl coating for long life durability
- Flexible modular design for a variety of pump & dispenser options
- Corken or Blackmer high differential pump.
- Pre installed bypass and inlet flange set.
- All piping pre assembled with flexible isolation in & out of pump with protective coating and paint.
- Ball valves for easy maintenance at all service points.
- Inlet & outlet gauges for pump diagnostics
- Pre wired to large explosion proof junction box for accessories. Access room for card reader
- Optional base plate 2000, 3000, 6000 or 7000 series LPG dispensers with card reader interface
- Designed to accommodate all CFUSA dispensers with card reader interface
- Designed to accommodate Tripod Safety System (Optional kit)

CleanFUEL eCONNECT

TOTAL FLEET ACCESS

Hardware:

- HMI (HumanMachineInterface) Calculator/Controller
- Up to Five RS-232/422/485 Communication Ports
- USB Port to download the unit's configuration from a PC or for data transfers to a PC
- COMPACTFLASH® socket to increase memory capacity up to 64 MB (mandatory to program and data transferring)
- Backlit 3.2" LCD screen
- 32 button keypad includes user defined keys, navigational keys, numeric keys, keys for on-screen menus

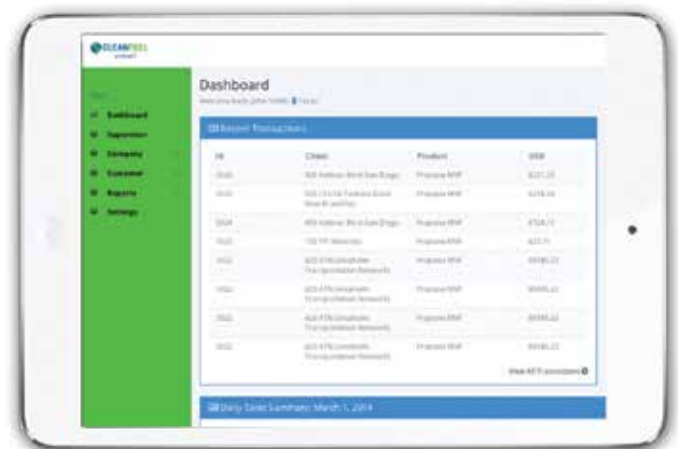
Fuel Network Management

- Full Remote access and diagnostics when connected to internet. Communicates with smart devices and computers.
- Types of Access control
 - Access Card with optional card reader
 - PIN # entry on keypad
 - Optional Dallas iButton
 - Optional RFID System
- Fuel Storage Tank Inventory Monitoring

Additional Options

- Card Reader
- Printer
- 7" LCD Display with 800 x 3(RGB) x 480 resolution
- HMI 7" Outdoor Color Touch Screen

UL Listed Class I, Division II Device
Made in the USA
CE Compliant/RoHS Compliant



Nozzles

CFUSA proudly features the LG Gasguard series autogas nozzles. The Gasguard nozzles are purpose built for specific applications; they feature long life, minimal, simple maintenance and proven safety. These durable nozzles provide minimum bleed with convenient operation.



GG20H, Autogas Refueling, with guided ACME insert



GG20, Autogas Refueling, with standard ACME



ST-L423, Min Bleed QCC, Cylinder Fill Nozzle

Other dispenser accessory options:

- Extended hose up to 18', if permitted by local authorities
- Custom vinyl wrap
- Liters or gallons measurement
- Spanish, Russian, other languages available



LPG Flow Meter Options



LiquaTech Meter

- TracBearing chamber for enhanced accuracy
- 2.3-18 gpm (11-68 lpm) flow rate
- +/- 0.40% accuracy
- NCWM approved for LPG
- Float type vapor eliminator valve
- Piston & o-ring type differential valve



Liquid Controls Meter

- Single or dual rotary meters
- SCAMP enabled for enhanced accuracy
- Linearized for accuracy across full flow range
- 1-35 gpm (5-120 lpm) flow rate
- +/- 0.25% accuracy
- NCWM approved for LPG
- Float type vapor eliminator valve
- Piston & diaphragm type differential valve
- Long life & low maintenance



Red Seal Neptune Meter

- R1100 1" Inlet and Outlet Manifold Blocks Flanges (CFUSA Design)
- Aluminum Body
- Oscillating Piston Flowmeter
- Optional Automatic Temperature Compensator (ATC) (Operating Temperature -10° to 125°F)
- Differential Pressure Control Valve
- Combination Vapor Eliminator/Strainer
- Flow Rate 3 to 18 gpm (11 to 68 lpm)
- Operating Pressure 350 psi (24 Bars)
- Operating Temperature -10 to 140°F
- NCWM NTEP Certified for LPG and Electronic Calculator
- +/- 0.40% accuracy

The tripod knock-over protection sets the standard for dispenser safety in retail operation. This unique system provides the maximum protection in the event of a dispenser knock-over caused by a vehicle impact or severe weather. The system safely separates with minimal loss of fuel when the dispenser is tilted in any direction, 360 degrees. With minimal reinstallation time if the dispenser is not damaged, the station can be back and running shortly.

The kit is complete with all required fittings, hoses, brackets and connectors. Custom applications may require modifications. The system is recommended for high traffic retail stations for minimizing liability in case of an accident.





Dispenser Accessories



3/4" Inline Filter

- Can be installed on liquid inlet to meter
- Replaceable element
- Improves meter life
- Protects meter from installation contamination



Dispenser Preset

- Preset control valve, enhanced accuracy
- Controls Volume / Money preset
- Must be ordered when dispenser is built
- High flow / low flow control



ATC, Automatic Temperature Compensation

Single ATC

Dual ATC

- Compensates to 60 deg F or 15/20 deg C
- Better accuracy in dispensing Improved control over inventory

ECP Electrical Control Panel

- Fully integrates LPG station dispenser, pump control valves, EPO & fuel management systems
- Configurable for single or three phase (specify when ordering)
- 208 / 480 vac Three phase, UL 508
- 240 vac single phase, UL 508
- Available with variable frequency drive phase converter



Nitrogen Actuation Kit

- Bracket for single 300# or dual 150# compressed nitrogen cylinders
- Includes lockable bracket and mounting hardware for skid
- Includes high-pressure regulator and fittings for connection to actuator tubing for internal valves
- Cylinders supplied by others



Station Site Questionnaire

Site Address: _____

Contact: _____
Phone: _____
email: _____

Will the tank be public or private access?

- 100% private in a secure area, with no general public access or proximity to public traffic
- 100% private in a non-secure area, with no general public access but close proximity to public traffic
- Mixed private & public access, but in a security area without close proximity to public traffic
- Mixed private & public access, but in a non-security area with close proximity to public traffic
- 100% public in a secure area, with no general public access or proximity to public traffic
- 100% public in a non-secure area, with no general public access but close proximity to public traffic

Will the vehicle be LPI engine systems? YES NO (eg. Bluebird, Roush, GM, etc)

How many hours per day will the station be in operation? (circle closest)

24 / 7 18 / 7 12 / 7 12 / 5

How many vehicles per hour at peak operation? (circle closest)

3 6 9 12 18 21 24

How many gallons per week of anticipated use? (circle closest)

500 1000 1500 2000 2500 3000 or more

What kind or power does the site have? (circle correct type)

Single phase 115/230vac 3 phase 208 3 phase 480 3 phase Delta

What type of storage is desired / required? (circle preference) VerticalHorizontal

What is the distance from proposed storage tanks to nearest property line and adjacent buildings, Electrical poles / lines, other equipment

25' or less 50 feet or more

Is a fuel management system required? (circle applicable) YES NO

Is there an existing fuel management system to be connected to? (circle applicable) YES NO

If YES, enter make & model: _____

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