World Leader in Natural Gas Refueling Systems

VRA Models

BRC FuelMaker's full line of Vehicle Refueling Appliances (VRAs) provide an economical and convenient way to refuel over-the-road or in-plant natural gas vehicles. Five models are available, offering a wide range of refueling capabilities. All incorporate our proven and patented technologies. Individual models can be installed separately or together with other BRC FuelMaker VRAs and accessories to meet the refueling needs of specific applications.

Benefits

- ✓ Low capital cost allows fleets of any size to realize the convenience & economic benefits of on-site natural gas refueling.
- ✓ Proven reliability, with thousands of satisfied customers worldwide.
- ✓ Built-in performance monitoring & diagnostics.
- ✓ Ongoing 4,000-hour scheduled service intervals.
- ✓ Modular design for easy field servicing.
- ✓ Oil-free compression delivers uncontaminated fuel to the vehicle.
- ✓ Simple, inexpensive installation and site permit requirements.
- ✓ Accommodates applications for time-fill, fast-fill, or both.
- ✓ Indoor and outdoor refueling options.
- ✓ Quiet, automated and simple to operate.

Safety Features

- ✓ Certified as an appliance by the CSA and other leading agencies around the world.
- ✓ Automatic shut-off in the event of a leak, hose damage or inadvertent drive-away.
- ✓ Electronic self-diagnostics to constantly monitor the VRA's operation, such as inlet pressure, outlet pressure, operating temperature and running time and to automatically shut down the refueling process if any abnormalities or faults are detected.
- ✓ Automatic electronic ambient temperature/pressure compensation to prevent overfilling of the vehicle cylinder.
- ✓ Many redundant electronic and mechanical measurement controls to ensure long periods of safe, unattended, reliable operation.

Simple Operation

Users of the BRC FuelMaker System will appreciate how easy it is to operate. Under the time-fill method, initiating the refueling process is as simple as connecting the hose nozzle to the vehicle receptacle. A green light on the control panel indicates to the operator that the unit is functioning normally. From that point on, everything is automatic, including the shutdown of the system when the vehicle's fuel cylinder is full. At any time, the user can push the "Stop" button to interrupt the refueling process, if desired. Time-fill refueling takes place overnight or any other time the vehicle is not in use – completely unattended.

Fast-fill refueling can be accomplished by a fast-fill storage system. In this application, any number of VRAs are connected together to compress natural gas into a bank of storage cylinders, which is then dispensed to the vehicle. This allows most vehicles to be refueled in just a few minutes.

VRA Specifications

Convenient On-Site Fueling Systems...
...for fleets vehicles forklifts and ice resurfacers.

Model	Max Discharge Pressure (psi[1])	Hourly Flow Rate (gge[2])	Hourly Flow Rate (pge[3])	Flow Rate (scfm[4])	Gas Inlet Pressure (psi)
FMQ-10	3,000	3.9	5.3	8.0	1 to 1¼*
FMQ-8-36	3,600	3.7	5.0	7.6	1 to 1¼*
FMQ-2-36	3,600	0.9	1.3	1.9	¼
FMQ-2 & 2.5	3,000	1.0 to 1.3	1.3 to 1.5	2.0 to 2.5	¼ to 2.0

[1] pounds per square inch [2] gasoline gallon equivalent [3] propane gallon equivalent [4] standard cubic feet per minute * optional ¼ psi available

FMQ-10, FMQ-8-36

ELECTRICAL

Electrical Supply	240 Volts AC, Single Phase, 60 Hz
Full Load Amperage	28 Amps
Average Power Consumption over Typical Fill Cycle	4.0 to 4.8 kWh
Classification	General Purpose

MECHANICAL

Dimensions (LxWxH)	33"x48"x32"
Unit Weight	580 lbs
Ambient Temperature Rating	-40° to +113° F
Service Interval	4,000 Hrs.
Required Distance from Storage	15 ft
Noise Level	66 dBA @ 16.5 ft

FMQ-2-36, FMQ-2, FMQ-2.5

ELECTRICAL

Electrical Supply	240 Volts AC, Single Phase, 60 Hz
Full Load Amperage	7 Amps
Average Power Consumption over Typical Fill Cycle	1.0 to 1.2 kWh
Classification	General Purpose

MECHANICAL

Dimensions (LxWxH)	21"x20"x39"
Unit Weight	145 lbs
Ambient Temperature Rating	-40° to +113° F
Service Interval	4,000 Hrs.
Required Distance from Storage	15 ft
Noise Level	49 dBA @ 16.5 ft

Certifications

For more information visit: www.brcfuelmaker.it
For a list of North American dealers please visit: www.impcotechnologies.com/fuelmaker-dealers.asp