
Natural Gas Dispenser FillMaster-MODULAR



GREENFIELD is your specialist for high-pressure systems. With a century of experience in this business we have been able to maintain and even improve our strong market position providing total solutions – from a single compressor to complete systems.

Today, GREENFIELD is the technology leader worldwide with its high-end premium products engineered in Switzerland.

With a century of experience in high-pressure technology and the fact of thousands of compressors installed worldwide, GREENFIELD is ready to serve your needs for peak performance and success in the market.

As part of the Atlas Copco Group GREENFIELD has global access to over 150 markets, which are served through our production facilities either in Switzerland or in the United States.

This comprehensive Sales and Service Network assures our customers direct access to the most reliable and technologically advanced equipment available.

FillMaster-MODULAR

Process-computer-controlled dispenser for refuelling of natural gas vehicles, available in single or multi hose execution. The OptiFill® controlled filling process enables optimised refuelling with maximum safety standards.

The system ensures that tanks are filled to the maximum possible level, whilst at the same time preventing the risk of over-filling. Available with internal or external electronic sequencing.

Available Versions

MODULAR type	Flow meters	Refuelling hoses	Sequencing location
1.1-E (1.1-I)	1	1	External (Internal)
1.2-E (1.2-I)	1	2	External (Internal)
2.2-E (2.2-I)	2	2	External (Internal)
2.3-E (2.3-I)	2	3	External (Internal)
2.4-E (2.4-I)	2	4	External (Internal)

Technical Data

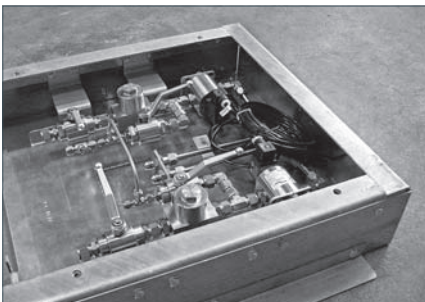
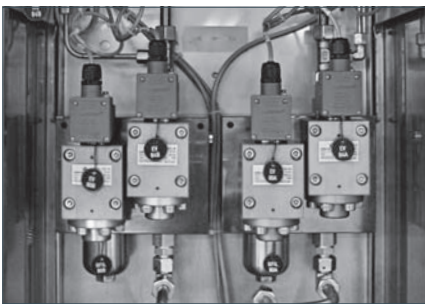
Operating pressure:	300 bar
Refuelling pressure:	200 bar at 15 °C, temperature compensated; 250 bar max.
Delivery rate:	40 kg/min (cars) or 77/120 kg/min (buses)
Refuelling hose:	3/8" (cars), 1/2" (buses); length of 3 m
Refuelling nozzle:	Standard commercial products
Front panels:	Stainless steel
Pump housing:	Painted steel, RAL9016 (other colours available as an option)
Weight:	Approx. 300 kg
Transfer protocols:	Gilbarco 2-Wire – EPSI – LON – ER3 (others available on request)

OptiFill® Software

The maximum safety technology today to completely fill your NGV vehicle, achieved without danger of over-filling.

The unique OptiFill® software developed by GREENFIELD calculates the optimized filling degree under consideration of ambient and gas temperature as well as the heat of compression

effect without neglecting the necessary safety aspects specified by law. Verified and certified by independent authorities and testing labs in Europe and North America, and used around the world in the most stringent applications.



Standard Features

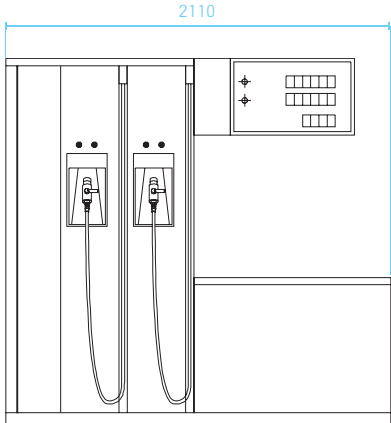
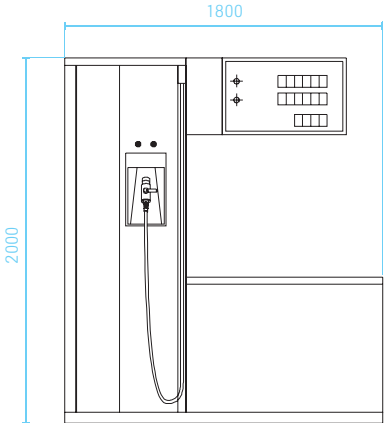
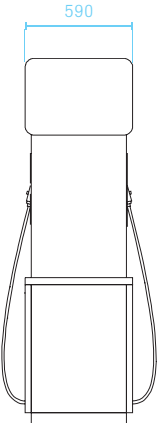
- Stainless steel Gilbarco MPD housing
- 300 bar operating pressure
- 200 bar refuelling pressure, temperature compensated
- 40 kg/min delivery rate (at free radiation to atmosphere)
- Failsafe SEKA II refuelling controls
- Interface for common station management systems
- Inlet filters, stainless steel tubing
- Coriolis type mass flow meters
- Solenoid valve operated
- Up to 2 refuelling hoses with same/opposite side service
- NGV1 refuelling nozzles
- Internal or external sequencing
- OptiFill® enhanced filling degree
- Remote monitoring capabilities
- Weights and measures approval
- PED/ATEX conformity

Available Standard Options*

- 250 bar refuelling pressure, temperature compensated
- 77/120 kg/min delivery rate for trucks or busses
- Up to 4 refuelling hoses with same/opposite side service
- NGV2 refuelling nozzles
- Inlet pressure limiter for extended storage pressures
- Run over protection system
- 3rd party inspection by TUEV

* Other non-standard options on request.

Dimensions



FillMaster-MODULAR – Benefits at a Glance:

- Housing available in various shapes and designs to match the standard designs of liquid fuel dispensers
 - Failsafe SEKA II refuelling controls
 - Standard-, mid- and high-flow version
 - For refuelling of cars and buses
 - 1 or 2 side service with up to 4 refuelling hoses
 - Optimised degree of filling thanks to the unique OptiFill® software developed by GREENFIELD
 - Direct connection to existing station management systems
 - Interface for remote monitoring (Teleservice)
 - Weights and measures approved
-

GREENFIELD Europe
www.greenfield-comp.com

Part of the Atlas Copco Group

