

# FRONTIER ADBLUE®

FRONTIER ADBLUE® DISPENSERS ADAPTED TO FIT YOUR NEEDS



Building Better Business





# Why AdBlue® Dispensers?

Our AdBlue® range of dispensers for Cars and/or Trucks demonstrates Gilbarco Veeder-Root's commitment to introducing environmentally friendly fuels at the forecourt.

Tighter European emission limits for vehicles have strongly increased the demand for AdBlue® filling stations. However, AdBlue® can literally destroy filling equipment, as it is highly corrosive, temperature sensitive and crystallises in contact with air. Minor impurities can easily damage the expensive truck catalytic system.

The Gilbarco Veeder-Root's Frontier AdBlue dispensers feature the corrosion proof, stainless steel flow meter, which is most advanced in the industry and provides accurate measurement without any moving parts or drifts, providing robust and durable operation, enables damage free fuelling and eliminates fuel losses.

AdBlue freezes at -11°C and crystalizes upon contact with air, the stainless steel flow meter has no moving parts therefore remains unaffected by crystals, while pumps which use standard piston meters with moving parts can get blocked. Gilbarco Veeder-Root's AdBlue dispensers are available with Integrated Heating System. Our patented hose heating system allows to get rid of doors or covers while still keeping the hose heated, and the heating power will automatically adjust based on environment temperature minimizing heating cost while maintains operating temperature. The nozzle cover is available when hose break away is installed.

## The Fail Safe AdBlue® Filling Solution

### Fail Safe

The pressure delivery system avoids crystallisation and dispenser hydraulics are corrosion proof, while automatic heating prevents AdBlue from freezing.

### Versatile

Choose from Standalone, Combi or Integrated configurations to build the right solution for your forecourt.

### Design Matters

The Frontier AdBlue incorporates the most advanced metering system in the industry — a stainless steel flow meter. It has no moving parts and no drifts to ensure it will not block and maximises uptime, while providing very accurate measurement eliminating fuel loss.

### Proven

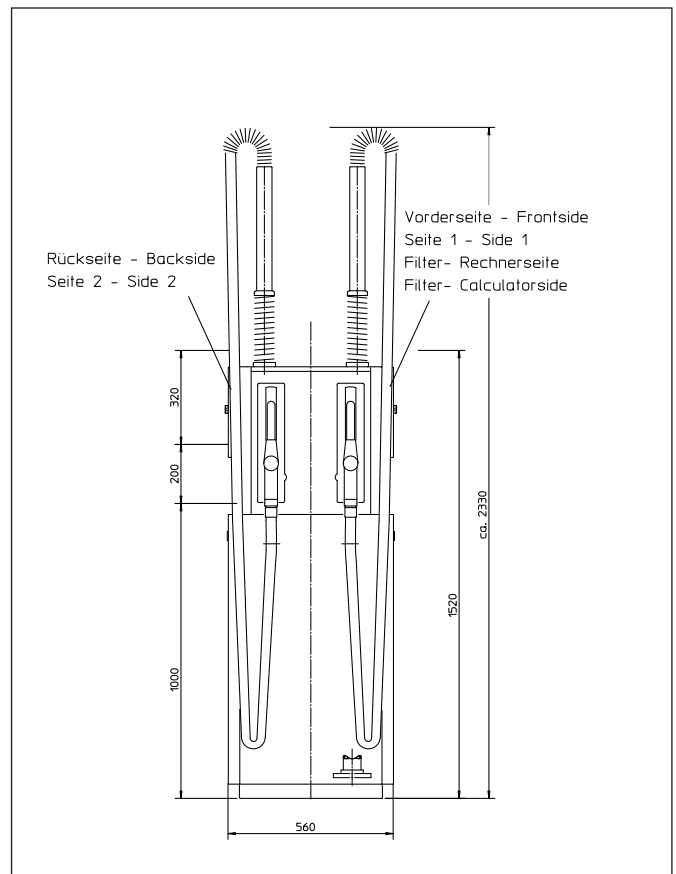
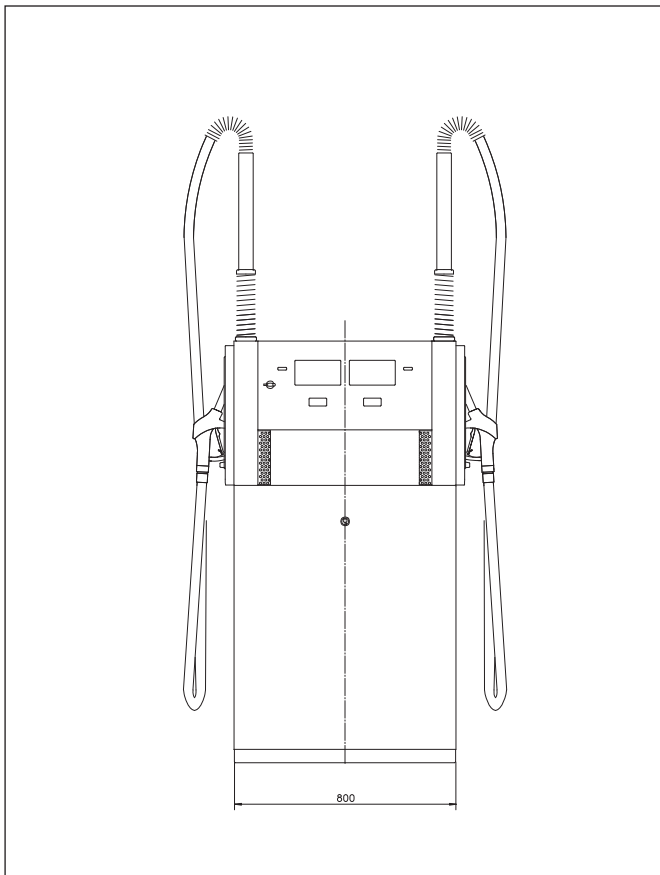
AdBlue® freezes at -11°C. SK700-II AdBlue® installations have continuously performed in countries like Finland at temperatures down to -40°C.

# Technical Specifications

## Technical Specifications & Standard Features

| Hydraulics                       | Stainless steel flow meter for AdBlue   Stainless steel internal piping and connections   Non return valve and filter   AdBlue delivery — Pressure<br>  Flow rate for truck AdBlue 4L-40L per minute   Flow rate for car AdBlue 2,5L-10L per minute   Power supply: 230V (+10% -15%), 50Hz ± 2Hz |                                                       |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| Electronics                      | Calculator Gilbarco Sandpiper-II   LCD display (backlit)   Interface: 2-wire, IFSF-LON, ATCL, PUMA LAN, Multiwire (Pulse), ER3                                                                                                                                                                   |                                                       |
| Mechanical                       | <b>Electronics</b> — Stainless steel valves   <b>Housing</b> — Powder coated steel   Hose Reach 3,70m<br><b>Hose management</b> — Hose mast as standard   <b>Nozzles</b> — ZVA                                                                                                                   |                                                       |
| Options                          | Elaflex swivel   Breakaway coupling   Electromechanical totalizers   Nozzle adaptor   AdBlue preset   Stainless steel cladding<br>  Stainless steel installation kit   Enhanced corrosion protection   Frontier EU standard options                                                              |                                                       |
| Versions                         | Base (not heated)                                                                                                                                                                                                                                                                                | Heated                                                |
| Hydraulic cabinet heater         | not included                                                                                                                                                                                                                                                                                     | included                                              |
| Hose heater                      | not included                                                                                                                                                                                                                                                                                     | Hose heating system included                          |
| Power consumption heating system | not included                                                                                                                                                                                                                                                                                     | 250 Watt (per AdBlue hose)                            |
| Min. operating temperature       | down to -10°C                                                                                                                                                                                                                                                                                    | down to -25°C                                         |
| AdBlue breakaway                 | optional                                                                                                                                                                                                                                                                                         | optional                                              |
| Nozzle cover                     | optional                                                                                                                                                                                                                                                                                         | optional (needs to be selected with breakaway option) |
| Certifications                   | MID & Atex (Optional)                                                                                                                                                                                                                                                                            | MID & Atex (Optional)                                 |

Dimensions: Height: 2330mm, Width: 800 mm, Depth: 560mm.



# AdBlue® Dispensing Solutions

The new Frontier AdBlue® Dispensers for cars and trucks, with Atex and MID approvals. An addition to our flagship SK700-II platforms.

- > Available for either cars or trucks, or both
- > Can be Standalone Adblue® Dispenser or Combi dispenser with Diesel or Integrated with above ground tank 1,100; 4,000; 5,000; 7,500 or 10,000 litre
- > Models from 1-hose/1-grade to 4-hose/2-grade with up to 4 displays
- > Industry leading stainless steel meter without drift and without moving parts
- > Patented Hose Heating System allows operating temperature down to -25°C
- > Available with ATEX and MID approvals



# The full SK700-II AdBlue® Range

Our Comprehensive Range of AdBlue® Dispensers for Cars and Trucks demonstrate Gilbarco Veeder-Root's commitment to introducing environmentally friendly fuels at the forecourt.



## SK700-II AdBlue® Standalone

### Compact and robust

- > Lane orientation
- > Easy hose handling
- > Coriolis meter
- > 1 to 4 nozzles - truck and car
- > ATEX version available
- > Small footprint



## SK700-II AdBlue® Integrated

### Plug and play

- > SK700-II AdBlue® Standalone integrated with above ground storage
- > Single or Double sided
- > Capacity: 1,100L; 4,000L; 7,500L; 5,000L; and 10,000L
- > Satellite installation as an option

## SK700-II AdBlue® Combi

### Flexible and Modular – Multi-grade dispensing solution for cars and trucks

- > Standalone, Integrated or Combi
- > Lane orientation
- > AdBlue® with up to four petrol/diesel grades
- > ATEX version available
- > Easy hose handling
- > Coriolis meter



# Configurations and Combinations

Gilbarco Veeder-Root's Frontier AdBlue® pumps are available in island orientated, single or double sided configuration, or in combination with diesel, with different options for nozzle protection and heaters suited to different climatic conditions. They're also available integrated with above ground tanks.

| Standard features                                                            | Options                                              | Technical specifications                                                                                |
|------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Single grade or two grades                                                   | High Flow (70 lpm) & Ultra High Flow (120 lpm)       | Motor 3 Phase Supply<br>430V +/- 10%, 50 Hz +/- 2Hz                                                     |
| Max. 2 simultaneous fuelling positions                                       | 40/70 speed select button                            | Positive displacement meter with Electronic Calibration for Diesel and stainless steel meter for AdBlue |
| Adblue®, Diesel, Biodiesel                                                   | Stainless steel front panels & hydraulic cabinet     | 15 minute display hold in case of power failure                                                         |
| Up to 4 hoses & 4 displays                                                   | Special Colours                                      | Communication Protocols: Currently supports IFSF, 2-Wire, Pumalan, ER3, ATCL, Multiwire (Pulse)         |
| Stainless Steel Hose mast                                                    | Base frame / leakage plate                           | Environmental: -25 degrees Celsius to +45 degrees Celsius                                               |
| Combi main LCD displays with LED & with dedicated PPUs                       | Enhanced Corrosion Protection                        | Accuracy +/- 0.5%                                                                                       |
| Sandpiper II (E101) Electronics                                              | Explosion Proof Junction Box                         | ATEX, MID, CE Approvals                                                                                 |
| Gilbarco 2 wire communication protocol                                       | 10 button Cash & Volume Preset Keypad                |                                                                                                         |
| Elaflex Hanging Hardware                                                     | Ecometer for Diesel                                  |                                                                                                         |
| Stainless steel flow meter for AdBlue and C+ piston meter with e-calibration | Automatic Temperature Compensation for Diesel        |                                                                                                         |
| Gilbarco Pumping Unit for Diesel                                             | Nozzle Boot Locks                                    |                                                                                                         |
| Powder Coated Galvanised Steel                                               | 7 digit Electro Mechanical non-resettable totalizers |                                                                                                         |
| RAL Grey colour for side panels & head                                       | For use with STP for Diesel                          |                                                                                                         |
| Hydraulic panels available in all standard colours                           | Volume only display                                  |                                                                                                         |

# Why Frontier AdBlue®?

Available for either cars or trucks, or both - Ensuring our dedication and demonstrating our commitment to environmentally friendly fuel at the forecourt.

## Reliable and Durable

The Frontier Adblue® dispenser is a cost-effective solution that offers a quality construction with a reliable and robust structure for optimum strength. Powder coated, galvanised steel metal panels protect the dispenser against weather and scratches. We use best in class components across all Gilbarco Veeder-Root dispenser range and Elaflex hoses and nozzles to ensure durability of our products.

## Flexible

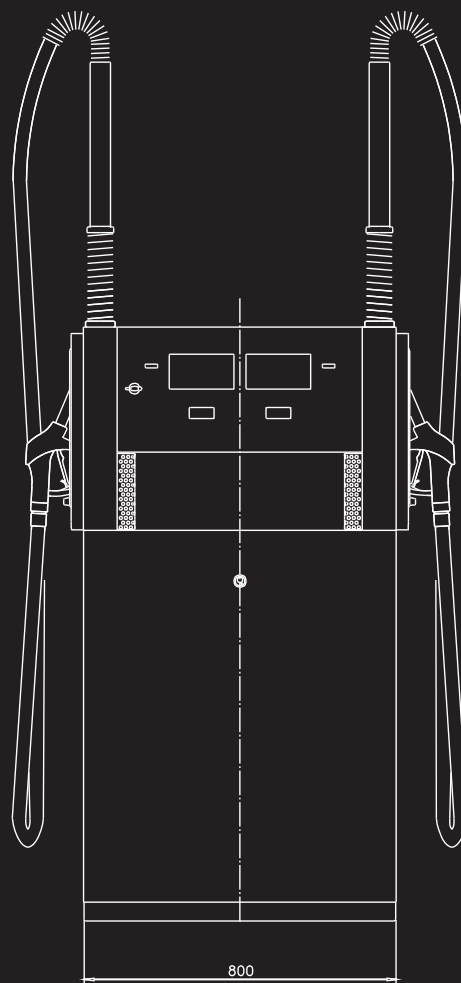
The Frontier Adblue dispenser offers complete flexibility with different flow rates, 1-4 hose configurations are possible. The Frontier Adblue dispenser is compatible with Fleet Management systems.

## Secure & Easy to Use

Gilbarco Veeder-Root's Frontier Adblue® dispenser uses secure & proprietary interface & for additional security. Our AdBlue® dispenser is available with an Integrated Heating System. The most efficient and future proof heating system consists of the patented hose heating system, temperature sensor and heater inside the hydraulic. It is designed for handling with ease of maintenance which in-turn lowers your total cost of ownership.

## Value for Money

The Frontier Adblue® uses a secure, proprietary interface for additional security. With corrosion proof, stainless steel flow meter, which is most advanced in the industry and provides accurate measurement without any moving parts or drift, providing robust operation to enable damage free fuelling and eliminating fuel losses.



# Gilbarco Veeder-Root Solutions

With a universal range, global reach, deep-rooted expertise and superior customer service, Gilbarco Veeder-Root is committed to building better business for its customers.

## Pumps & Dispensers

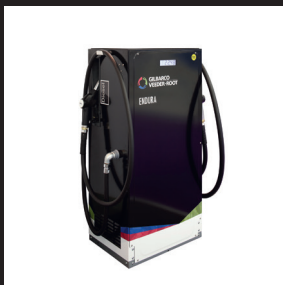
**Robust, reliable, accurate and secure technology**

Our Pumps and Dispensers feature flexible, innovative and upgradable technology. They not only grow with your business, but also improve the forecourt experience for your end-users.

By focusing on the unique requirements of our customers, we deliver high quality and reliable solutions that are designed to support better business now and in the future.

Our range includes:

- > Multi-Product Dispensers
- > Single and Dual Dispensers
- > Alternative Fuels
- > Applause Europe (multimedia)
- > Submersible Turbine Pumps
- > Commercial Dispensers



## Business Support

**Protect assets and drive operational efficiency**

Our Business Support solutions minimise downtime and disruption by providing the tools, services and technology necessary for our customers to get more from their businesses.

With an extensive reach throughout Europe, you can be assured that no matter where your business takes you, our comprehensive range of services will always be available.

## Wetstock Management

**Improve performance, uptime and security**

Our comprehensive range of compliant and reliable Wetstock Management solutions offer you advanced engineering and a responsive service. Scalable and customisable, our tools provide control, security and data across networks of all sizes anywhere in the world.

Ultimately, our solutions enable you to stay compliant and in control.

## Retail Solutions

**Maximise profitability and minimise overheads**

Our leading Point of Sale, Head and Back Office Systems and forecourt controllers create new business at the pump and enable deeper insights into stock, logistics and security.

Working alongside our wide range of products and services, our Retail Solutions are designed to work for you.

AdBlue® is a registered trademark of Verband Der Automobilindustrie (VDA).

Building Better Business

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