

Gravimetric Blending System (GBS)

Precise Blending of Fuels

At CFR Engines Inc. (CFR®), we understand the importance of precision and accuracy when it comes to fuel blending.

Our new Gravimetric Blending System (GBS) is engineered to provide the highest level of accuracy, ensuring that primary, secondary, and standard reference fuels, essential for the calibration and standardization of the CFR Engine, are blended with remarkable unmatched precision of ± 0.2%.

COMPLIANCE

The GBS is compliant with all procedures of the current ASTM Methods:

D2699 – Research Octane Number D2700 – Motor Octane Number

D613 - Cetane Number

RELIABILITY

A highly engineered system utilizes computer controlled electric pumps to minimize set-up requirements. This allows the user to meet blending tolerances consistently as per ASTM requirements.

EFFICIENCY

Boost your operational efficiency by blending your reference fuels quickly. Our innovative dispensing system allows blending of 1, 2, or 3 batches per request. Eliminate waste and reduce production costs with precision blending that gets it right time and time again.

ACCURACY

Precise blending of standardization fuels is critical to meeting the exactness that a documented and dependable Octane or Cetane Number test requires. Our proprietary closed-loop feedback system, operating seamlessly from scale to blend, monitors and adjusts to guarantee an accuracy of \pm 0.2%

The components are meticulously weighed and mixed in a controlled environment to ensure a linear blend.

Two-way communication is established between the GBS and XCP for mistake proofing and improved accuracy.

SAFETY & SECURITY

Provisions for remote filling from 55 gallon drums, and level sensors for overflow protection.

Individual operator logins, additional logins for supervisors, maintenance, and CFR Service Support.

- Seamless integration with XCP® TECHNOLOGY to enter desired fuel recipes, and to push / pull data
- Large HMI Panel for formulation selection (touch screen)
- The ability to store standard recipes and options for manual input
- Traceability database with ability to store specific blend operation data by operator (ISO 17025)
- Remote monitoring from anywhere
- Robust fuel pumps and simple calibration through HMI
- 6 fuel tanks each with a capacity of 10 liters, plus a fuel level indicator that provides notification of an empty tank
- Mobile, cabinet is on wheels with safety interlocks



Trusted Design & Reliability

In the realm of internal combustion engine research and development, precise control over fuel composition is vital to understanding combustion behavior, emissions characteristics, and overall engine performance.

With a proven track record of delivering cutting-edge solutions worldwide, CFR is the trusted partner you need for octane and cetane testing requirements precision blending. Our commitment to innovation and customer satisfaction sets us apart, and our Gravimetric Blending System (GBS) is no exception.

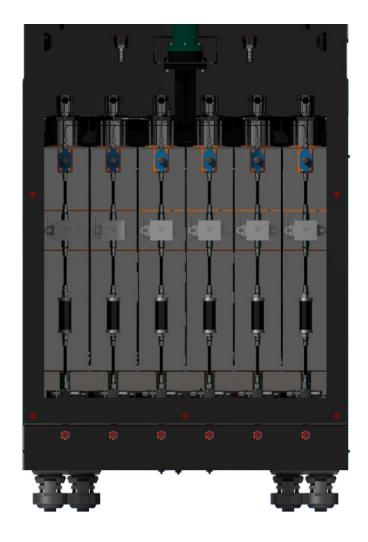
CONFIGURATIONS

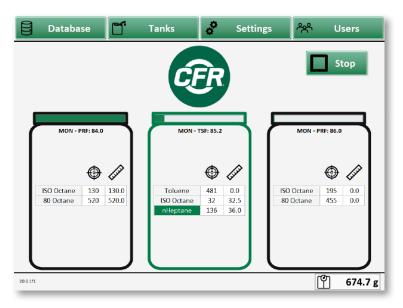
GBS

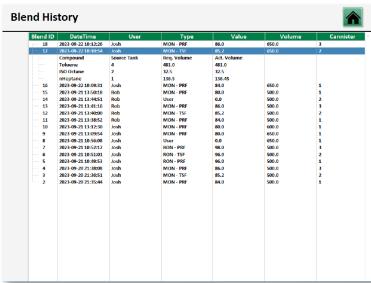
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SPECIFICATIONS

- Approximate H x W x D = 151.9 cm (59.8 in) x 65.5 cm (25.8 in) x 71 cm (28 in)
- 110-220 volt, 50-60 hz, single phase
- In-Line Filters
- ± 0.2% Accuracy









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