

Automatic Blending System Skid-Mounted or fitted in CSC Approved 10' or 20' Sea Containers

TURNKEY SOLUTIONS

There are many variables to take into account when fitting a blending system and our highly skilled engineers will adapt our system to fit your exact requirements.

TECHNICAL SUPPORT

We are with you all the way. Before, during and after the installation to secure a flawless integration and operation.

ZERO DOWNTIME

As a central part of a bunker delivery system; mechanical stability, toughness and durability is an important aspect of the manufacturing and design philosophy.

For more information on these or other of our products or services please visit us on the Web at:

www.cbi.dk



Using the customized control unit the Flexblender offers the following advantages

- Fully automated Blending unit
- Easy to operate
- Easy to install
- Skid Mounted" or fitted into a 10' or 20' CSC approved container
- Integrated drip-sampling
- Blending to exact specification
- Automatic batch reporting
- Reduced "Give-away" to avoid claims
- Fall back to manual operation possible

Automated Blending

The Flexblender™ is the most sophisticated system for all your blending requirements.

The Flexblender can be either Skid Mounted on a steel frame or custom fitted into a 10' or 20' CSC approved container. This provides a very flexible unit which can be easily installed at an oil terminal or on board a barge with products flash above 60°C. Furthermore it can easily be moved around as and where it is needed.

The Flexblender is connected to the main pipe system by flanges and behind each inlet and outlet flange there can be a ball valve to shut off the externally connected pipes.

The outstanding facilities for high quality control achieved with the Mechanical Fuel Blender in combination with the Bunker Monitor are further fine tuned in this unique system for automatic blending.

The Flexblender's automated control system continuously receive information from the CBI Bunker Monitor and use advanced proprietary control algorithms to instantly change the process, including the amount of feed stocks, to meet the specification of the blended product throughout the entire blending process.

A Flexblender in a CSC approved container provides a sheltered space for operation and for use in extreme conditions it can be equipped with light fixtures and heating systems to avoid moisture and condensation.

Lloyds/B&V/DNV/RMR - Classification can be obtained if required.

Technical Specifications

SERVICES AVAILABLE

Consulting Services
Technical Support
Installation and Setup
Maintenance
Warranty

Flex Blender	Blending range	0% - 100%	Accuracy <1,0% full range
	Maximum capacity 6" / 8"	300 m ³ /h / 480 m ³ @ 10 cSt	
PD Flow Meter	Capacity 10" PD Meter LBM 3000	840 m ³ /h @ 10 cSt to 372 m ³ /h @ 400 cSt	Standard equipped with LBM 3000
	Capacity 8" / 10" PD Meter LBM 1000 / 3000	420 m ³ /h / 840 m ³ @ 10 cSt to 186 m ³ /h / 372 m ³ @ 400 cSt	
Bunker Monitor	Viscosity measuring range	0 – 1,000 cSt	
Pressure	Minimum inlet pressure	3 bars	
	Maximum inlet pressure	10 bars	
Temperature	Operating temperature	0 => 80°C	
	Outlet	Flange DIN 2633 (PN 16) DN 150 (6") or DN 200 (8")	
Weight	Dry weight	Approx. 7,000 - 7,600 kg	Volume in pipes and components approx. 250 litres
Dimensions	Outside measurement of container	6058 x 2438 x 2591 cm	L x W x H
Pipe Dimensions	Pipe dimensions	6" or 8"	Seamless pipe
	Inlet	Flange DIN 2633 (PN 16) DN 150 (6") or DN 200 (8")	

MAXIMUM FLOW RATE

	Bunker Fuel 400 cSt - ACTUAL		Diesel and Cutter Stock 10-50 cSt ACTUAL	
	Max. Permanent	Max. Temporary	Max. Permanent	Max. Temporary
	flow rate	flow rate	flow rate	flow rate
LBM1000 8" PD meter	3,100 l/min	3,500 l/min	7,000 l/min	7,800 l/min
(flanged DN200 PN16)	186 m ³ /h	210 m ³ /h	420 m ³ /h	468 m ³ /h
LBM3000 10" PD meter	6,200 l/min	7,000 l/min	14,000 l/min	15,700 l/min
(flanged DN250 PN16)	372 m ³ /h	420 m ³ /h	840 m ³ /h	942 m ³ /h

