

BDFC Series

Bulk Diesel Fuel Filter Cart
14 or 25 gpm



Model no. of filter
in photograph is:
BDFCG03CG5VVM25

Description

The BDFC is ideal for those wanting to maintain clean fuel in their bulk storage tanks. The new BDFC provides exceptional particulate filtration and continuous water removal with higher flow rates. The GHPF particulate pre-filter and GHCF coalescing water removal filters feature our patented GeoSeal® aftermarket solution, ensuring quality replacement elements are used with every element change. These elements use fully synthetic Betamicon® media and revolutionary coalescing media to fully protect vital diesel engine components from debris and water.

Applications

- Point of use fuel dispensing
- Fleet fill/bulk fuel transfer
- Bulk fuel unloading
- Protection for high-flow fuel injection systems
- Bulk tank kidney loop/recirculation

Markets

- Industrial
- Mobile Vehicles
- Marine
- Mining Technology
- Agriculture
- Power Generation
- Common Rail Injector Systems
- Fleet
- Railroad
- Bulk Fuel Filtration

Features

- Designed with integrated particulate removal pre-filtration for maximum coalescing filter element life in the downstream housing
- Routine element change only needed on GHPF particulate filter, keeping operating costs low
- Patented GeoSeal® elements designed to provide consistent consistent quality with the highest single-pass water and particulate removal efficiencies in today's ultra-low sulfur diesel (ULSD) fuels
- All-aluminum filter housings and plumbing components are fully compatible with diesel and biodiesel
- Protects expensive High Pressure Common Rail (HPCR) engine components against failures caused by particulate and water transferred from the bulk fuels tanks to the vehicle
- Allows users to achieve or exceed the particulate and water removal specifications of the injection system OEMs
- Sight glass, Y-strainer, and upstream/downstream test points included
- HYDAC Stat-free media is standard for all coalescing elements
- 15' clear suction hose and rubber discharge hose with cam-and-groove connections and 3' wands
- At just under 28" wide, this cart will fit through standard doorways
- Electric pump motor is 120VAC with resettable overload and 7' power cord
- Latching, resettable pressure indicators trip at 5 psi before bypass valve cracking providing early warning to the operator of when to change the filter element

Technical Specifications

Flow Rating	Electric Motor Option: 14 gpm or 25 gpm (53 L/min or 95 L/min) Air Operated option: 16 gpm or 25 gpm (61 L/min or 95 L/min)	
Ambient Environment Temp. Range	-20°F to 104°F (-29°C to 40°C)	
Bypass Indication	Particulate Filter Electric Motor: 35 psi (2.4 bar) Air Operated: 15 psi (1.0 bar)	Coalescing Filter Electric Motor: 35 psi (2.4 bar) Air Operated: 15 psi (1.0 bar)
Bypass Valve Cracking	Particulate Filter Electric Motor: 40 psi (2.8 bar) Air Operated: 30 psi (2.1 bar)	Coalescing Filter Electric Motor: 40 psi (2.8 bar) Air Operated: 20 psi (1.4 bar)
Materials of Construction	Particulate Filter Head: Cast Aluminum, Anodized Element Case: Aluminum, Anodized	Coalescing Filter Head: Cast Aluminum, Anodized Element Case: Aluminum, Anodized Sump: Cast Aluminum, Anodized
Weight	Consult factory	
Operating Frequency	60 Hz	
Operating Phase	Single	
Full Load Amperage @ Operating Voltage	13.4 A @ 115 VAC 7.2-6.7 A @ 208-230 VAC	
Service Factor Amperage @ Operating Voltage	15.2 A @ 115 VAC 8.1-7.6 A @ 208-230 VAC	

FUEL FILTRATION SYSTEMS

Model Code

BDFC - G03 - CG5 - V - VM - - 25

Filter Series

BDFC = Bulk Diesel Filter Cart

Particulate Filtration Rating

G01 = 1 µm

G03 = 3 µm

Coalescing Filtration

CG5 = C125GZ5V Coalescing Element

Sealing Material

V = Fluorocarbon Elastomer (FKM)

Element Change Indicator

VM = Visual Pop-Up w/ Manual Reset

Options

(omit) = Included Sight Glass, Y-Strainer & Upstream / Downstream Test Points

I = Water-In-Fuel (WIF) Sensor w/ Indicator Light

Pump Sizing and Configuration

14 = 14 gpm 120VAC 60 Hz Single-Phase

25 = 25 gpm 120VAC 60 Hz Single-Phase

16A = 16 gpm Air Driven

25A = 25 gpm Air Driven

Notes: For 50Hz applications, contact factory,

"I" option is only available with electric motor configurations Pump Sizing and Configuration

Element Particulate Performance

Particulate Elements	DHC	Filtration Ratio Per ISO 16889 Using automated particle counter (APC) calibrated per ISO 11171	
		$\beta_x(c) \geq 200$	$\beta_x \geq 1000$
5.40.11 D 01 BN4 /-V-G	172 grams	<4.0	4.5
5.40.11 D 03 BN4 /-V-G	148 grams	4.6	5.8

Element Water Coalescing Performance

Coalescing Element	Pressure Side Coalescing	
	Max Flow	Single Pass Water Removal Efficiency
C125GZ5V	25 gpm	≥ 95%

Note: Based on ULSD15 with 27 Dyne/cm surface tension and 0.25% (2500 PPM) water injection

Particulate Element

Flow Direction: Outside In

Element Nominal Dimensions: 5.0" (27 mm) O.D. x 11" (279 mm) long

Coalescing Element

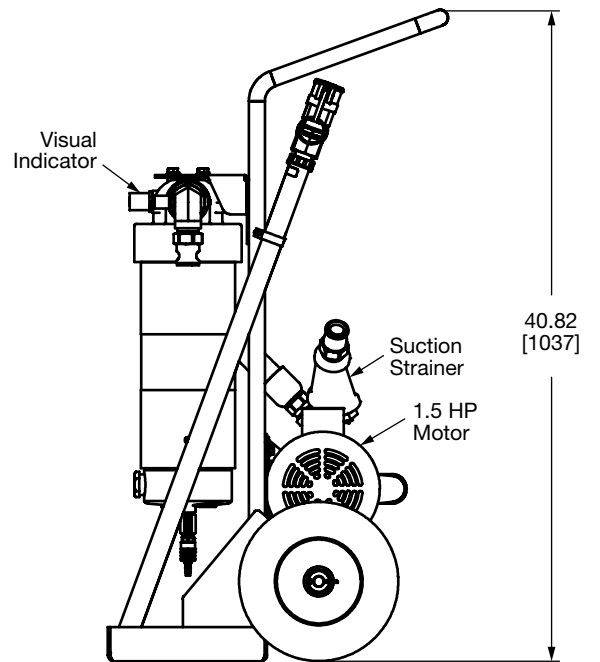
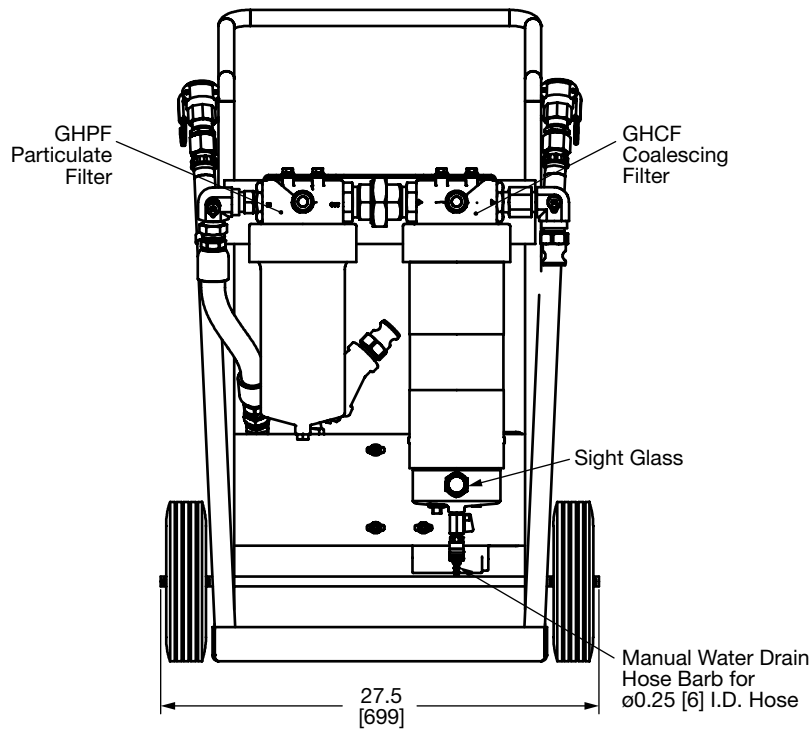
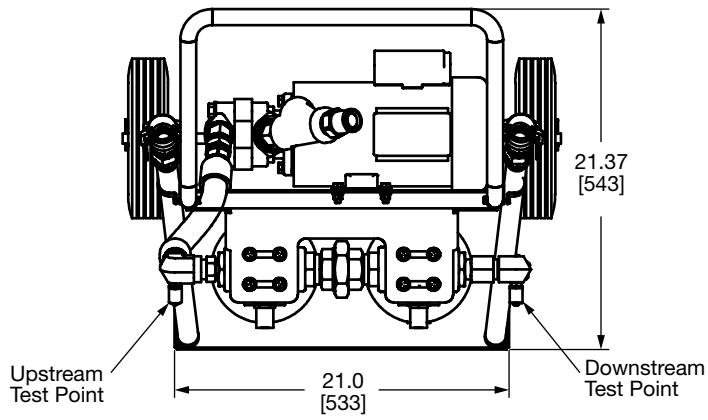
Flow Direction: Inside Out

Element Nominal Dimensions: 5.0" (27 mm) O.D. x 12" (305 mm) long

Fuel Oils

- ULSD15, low sulfur diesel and high sulfur diesel
- Biodiesel blends
- Synthetic diesel and blends
- No. 2 fuel oil and heating oil

Dimensions BDFC



Dimensions shown are inches [millimeters] and for general information only. For complete dimensions please contact HYDAC to request a certified print.