

Zero Soot FB

Our Zero Soot FB (Fuel Burner) offers most reliable reduction of harmful emissions of your auxiliary diesel engine under all circumstances. Your generators will be clean, without soot!

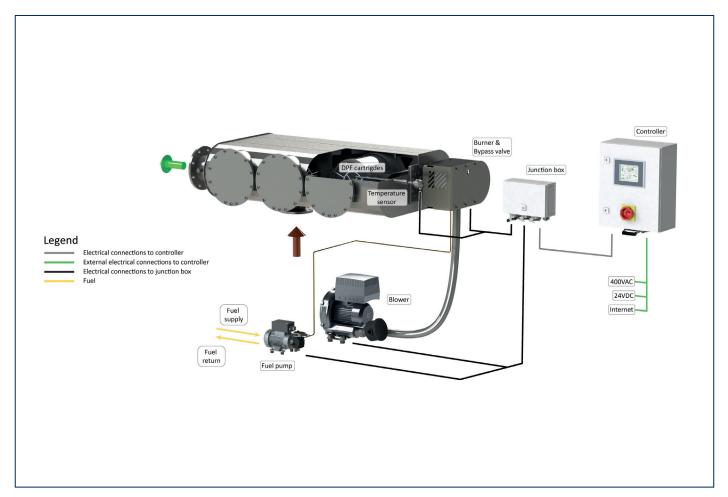
The <u>particle filters</u> collect the soot particles from the exhaust stream. A high grade catalytic coating suitable for potentially sulphur containing fuels, minimizes the regeneration temperature and reduces Hydro Carbons and Carbon Monoxide.

- An automatic safety bypass allows 100% engine availability.
- In practice VIP guests will not experience particulates on deck, common diesel fuel in swimming water and the smell of diesel fuel.
- Compact size. Designed for low installation height.
- Fuel burner regenerated.
- The intelligent PLC controlled regeneration system ensures a trouble-free operation of your filter system.

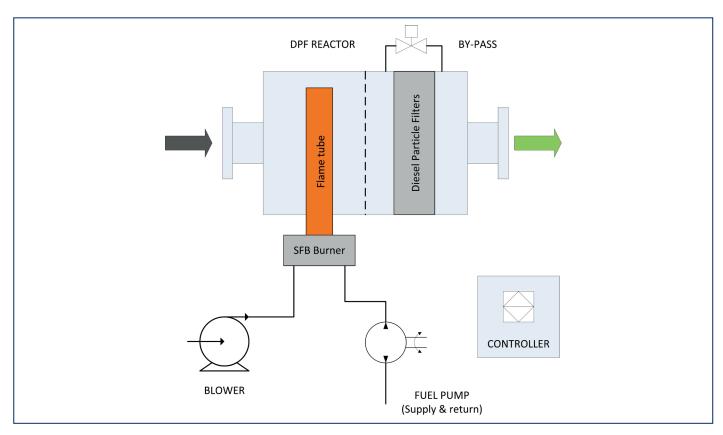
Main Features

- Compact design.
- Blower included.
- Active regeneration fuel burner system.
- Lloyd's Register approved.
- By-pass valve for 100% engine availability.
- Integrated sound attenuation function.
- Advanced controller.
- All service on one side possible
- Advanced controller, 1 controller can be used for 3 systems
- Cooling function in blower continues after shutdown of engines

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Lay-out of a Zero Soot FB system.



Process schematic of a Zero Soot FB system.

Operational conditions

Application
Exhaust system
Environment
Ambient Temperature
Degree of Protection
Relative humidity
Inspection & service
Interval

Super yachts and inland navigation Suitable for dry or wet systems Engine room, clean

-20 + 55°C IP55

5 to 95% Non-condensing Approximately 1x per year (normal conditions) TNC & IT both possible

Supplies

Network

Fuel EN590 (Diesel), DMA, DMX, max 2000 ppm sulphur
AC Power supply 3 x 400 VAC (4 wire)
DC Power supply 24 VDC - 10A (uninterrupted)

Design data

Surface treatment

DPF type

Materials Reactor housing: Alloy steel

Burner tube and shields: High heat

resistant steel

Temperature Regeneration temperature up to 520°C

Welds brushed

Pressure drop (ΔP) Approximately 25-35 mbar, clean

without soot and ash

SiSiC

Coating BM, SX, ZX and PX (ULSF only)
By-pass valve Standard internal, electrically operated
Supports Bottom, standard, optional top

Thermal insulation Blankets or cladded insulation

(by customer)

Legal requirements and standards

Standards EMC directive 2014/30/EU

Machinery directive 2006/42/EC Low voltage directive 2014/35/EU Thermo processing EN 746-2

Classification Lloyds Register

System parts

Controller PLC with full colour HMI, super yacht standard (acc. to LR requirements)

- Inputs: engine load, engine on

- Outputs: System ON, Alarm, MOD bus

- Datalogging

- Remote access prepared
Housing Containing DPF modules in a flat
rectangular shape to reduce overall

volume

Blower unit Blower with 3 phase motor with

FC drive, air filter, check valve,

filter service switch

Burner Fuel burner with flame detection

and ignition

Fuel set Fuel pump with shut-off valves
Sensors Temperature & pressure transmitter

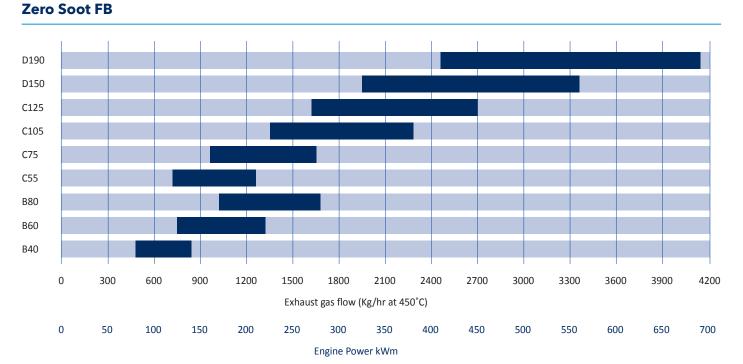
Wiring Connectors, wiring by yard

Performance

PM (measured as PM 10) > 97% reduction Sound attenuation ca. 30 dB(A) HC/CO up to 70%

Optional

- Harbour mode for optimized reduction of HC (diesel smell and oil deposits)
- Alternative catalytic coating
- NOx sensor for optimized control and actual NOx value
- Remote access via LAN accessible for diagnostics/remote services
- Mirrored version
- Anti-vibration dampers
- Extended warranty
- Complete exhaust system

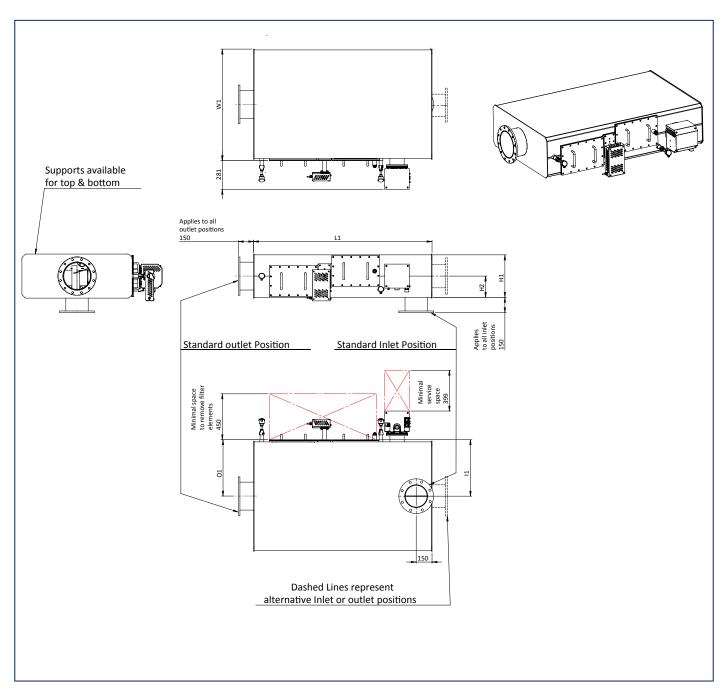


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Dimensions & options C/D series left¹

Туре	DPF volume	Flanges EN1092 PN10		Hot surface	L1	W1	H1	H2	11	I 1	01	Weight
	liter	ln	Out	m²	mm	mm	mm	mm	mm	mm	mm	kg
C55	57	DN150	DN150	3,7	1750	509	420	210	270	-	270	370
C75	76	DN150	DN200	4,4	1750	657	420	210	345	-	345	415
C105	104	DN150	DN200	5,4	1750	900	420	210	465	-	465	550
C125	123	DN200	DN250	6,1	1750	1069	420	210	550	-	550	535
D150	152	DN200	DN250	6,2	1750	995	490	245	515	-	515	750
D190	190	DN250	DN300	7,3	1750	1238	490	245	635	-	635	880

 $^{^{1}}$ option outlet on top, bottom and side: length = L2 +80 mm. Service space for burner is 400 mm. Service space to remove soot filter elements is 450 mm.



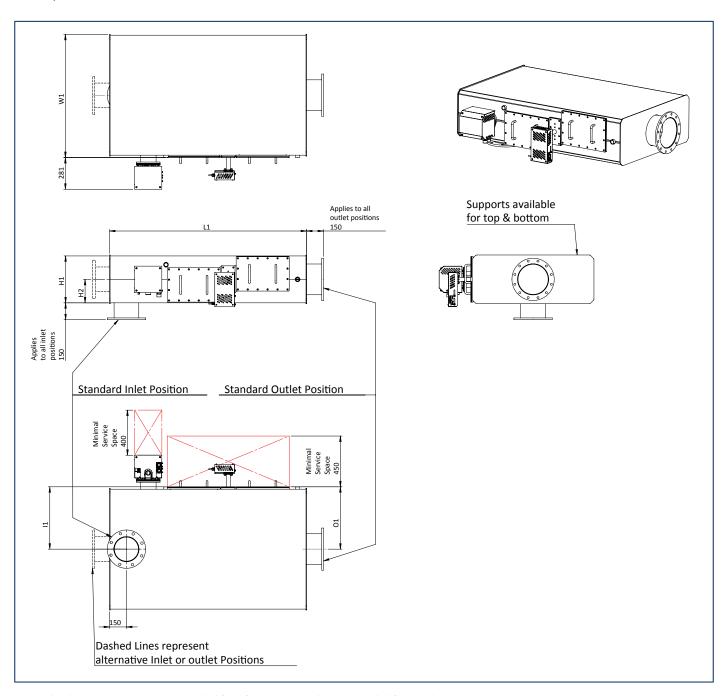
Note: This drawing is preliminary & provided for reference only and is not intended for installation purpose. Contact us either your local distributor for detailed information.

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Dimensions & options C/D series right¹

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