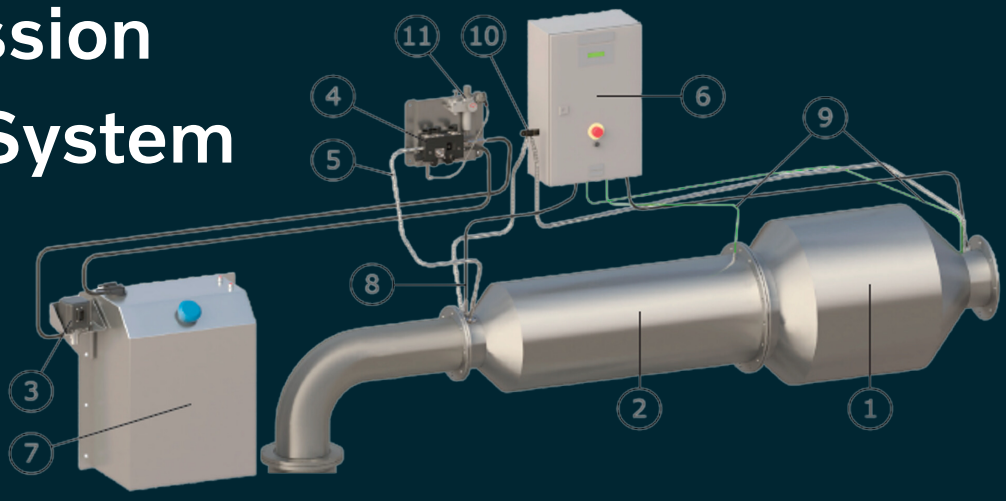
Product leaflet

Imanox - D6 IMO Tier III Emission Reduction System



The Imanox system

The Imanox system is based on the proven Volvo Penta in-line 6 cylinder line-up with its high efficiency engines & drive systems from 340 to 480Hp further developed with a SCR system. All in order to meet the latest Marpol IMO III regulations.

The Imanox system is available for IPS systems as well as Inboard, Waterjet and Aquamatic applications.

One complete solution delivered from one supplier - certified by DNV.

Technical data				
Engine designation	Volvo Penta D6			
SCR designation	STT Emtec LC			
Method of operation	UREA injection			
Urea Consumption	4%			
DNV Approval no.	EG00088			
Parent engine	D6-380			
Emission Compliance result / limit	1,7g / 2,0g/kWh			
Dry weight SCR system (kg) [1]	240			
System Voltage	24 V			
Supported Power range	**D6-340**	**D6-380**	**D6-440**	**D6-480**
Rating [2]	R4/5	R4/5	R4/5	R4/5
Engine speed (rpm)	3400	3500	3700	3700
Crankshaft power (kw)	250	280	324	353

1. excl lines and depending on tank volumes (UREA / Air tank)
2. Depending on commercial use and engine

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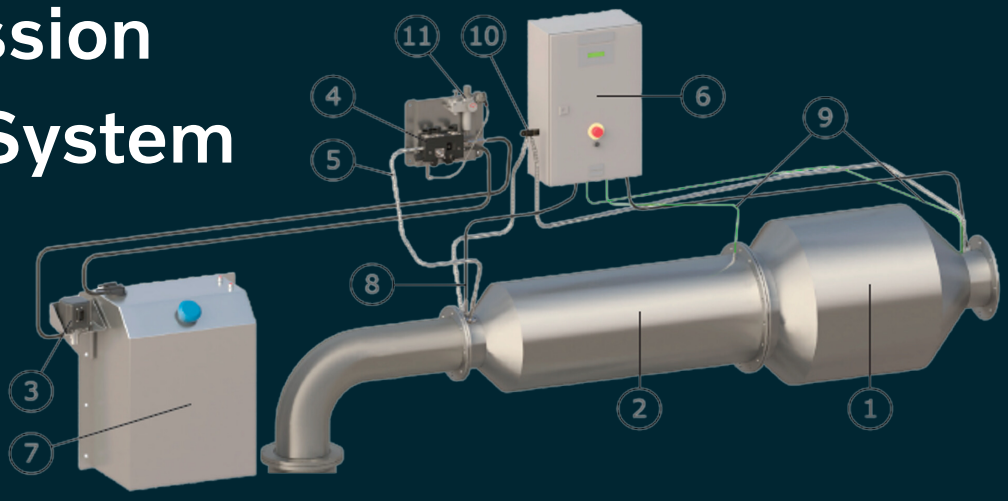

	Part	Description
1, 2	Catalyst/Mixer	Modular design, Converts Nox, Mixes injected DEF with exhuast flow Length excl pipes: 1608mm Diameter: 416mm
3	DEF Pump	Provides supply pressure to the dosing unit
4	Dosing unit	Controls the dosing
5	Injection Nozzle	Injects atomized DEF into the exhuast stream
6	Control Cabinet	Controls and monitors all components and sensors
7	Service tank	Available in 35L or 100L
8	Nox Sensor	Measures Nox concentration
9	Temp Sensor	Measures in- and outlet temp
10	Back Pressure sensor	Measures exhaust back pressure
11	FR-Unit	Filtrates incoming air and regulates pressure

Air compression

The Imanox system are using a pneumatic assisted technology where the system pressure is produced and maintained by a screw compressor.

A screw compressor solution is available as engine mounted option from the Imanox supplier or to be solved by the shipyard.

Technical data, compressed air	
Air consumption pr driveline, continously	40l/min FAD
Air consumption pr driveline, PEAK (flush procedure)	80l/min FAD
Recommended capacity	290l/min FAD 8-10 bar
Regulated pressure FR-unit	4,5bar
Recommended bulk tank	80L
Air production Imanox solution	450l/min FAD 10 bar
System pressure Imanox	7 bar