

**Inland
Navigation
Week**

TECHNOLOGY MATCHMAKING WORKSHOP

Alwin de Kock
Xeamos

Monday March 20th 2023





XEAMOS

Reducing emissions together

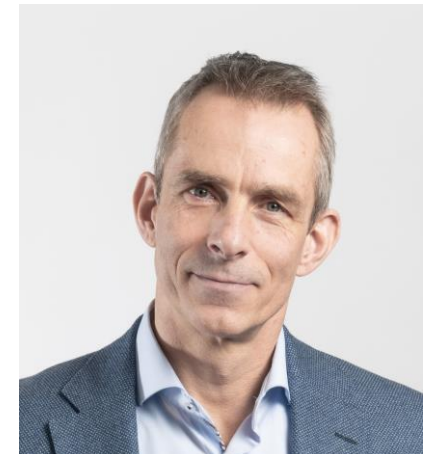
Inland Navigation week

Technology workshop

Xeamos SCR + DPF

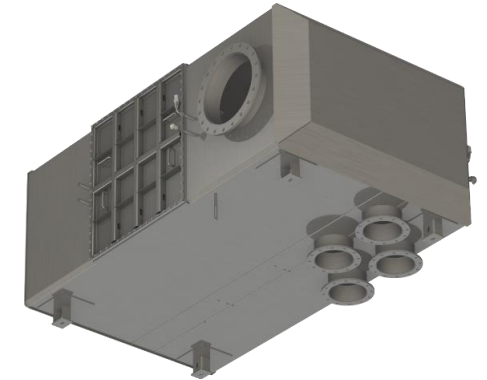
Stage V “emission compliant” refit solutions

Alwin de Kock
Managing director
20-3-2023



Xeamos – company profile

- Engineering company founded 22 year ago in The Netherlands.
- Technology driven, “in house” developed EAT systems
- Sold more than 600 emission after treatment systems YTD (approx. 160 for inland waterways)
- SCR, DPF, DOC, compliancy with the latest regulations (IMO Tier III, NRMM Stage V, ULEV)
- Brand independent company



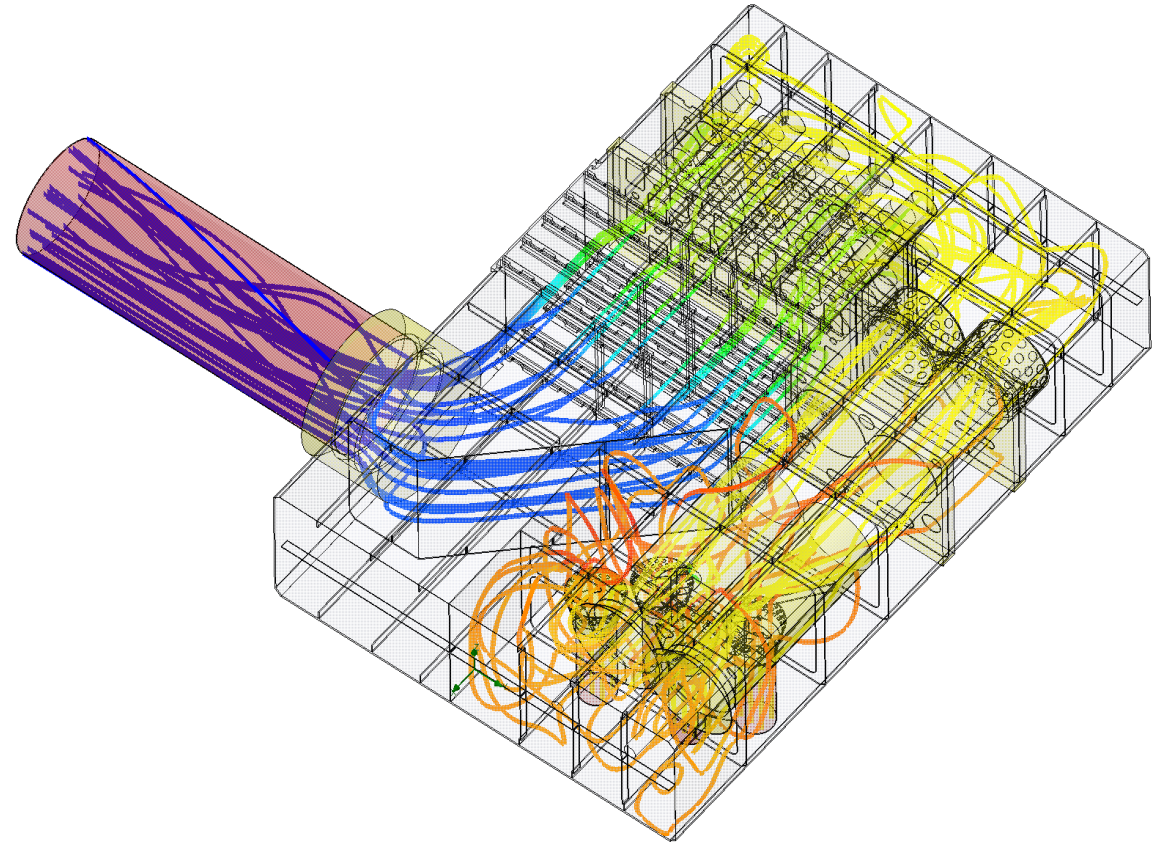
Xeamos – company profile

- 90% turnover in Marine Applications, 10% Industry (stationary applications)
- Member of a holding structure with annual turnover of 150 mln Euro
- Specialized in tailor made systems for optimum integration in the engine room
- Reliable partner/supplier for numerous Shipyards and OEM companies



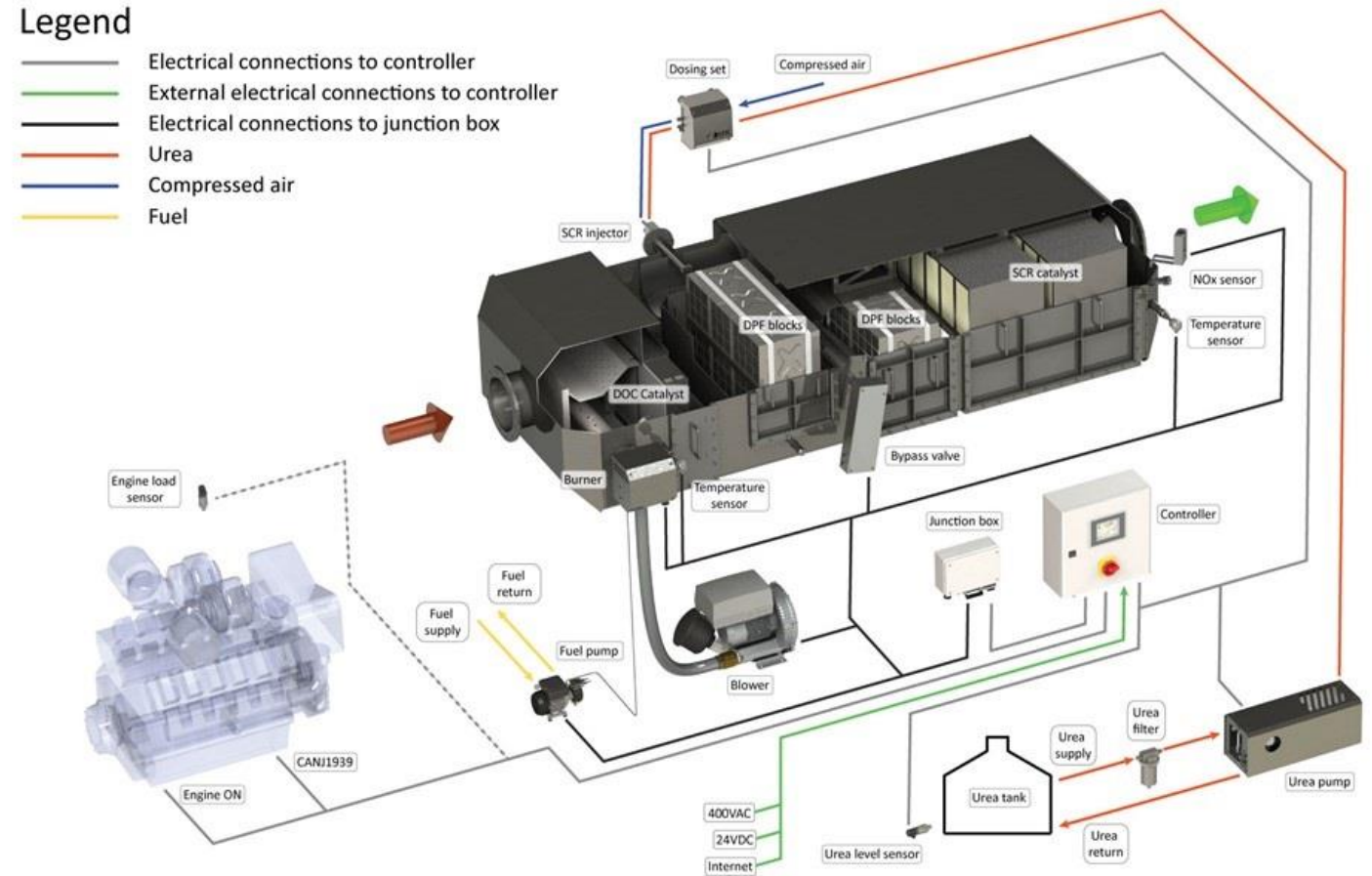
Xeamos – Engineering

- Product Development
- Design & Engineering (CFD, FEM calculations)
- Software development & validation
- Acoustic design

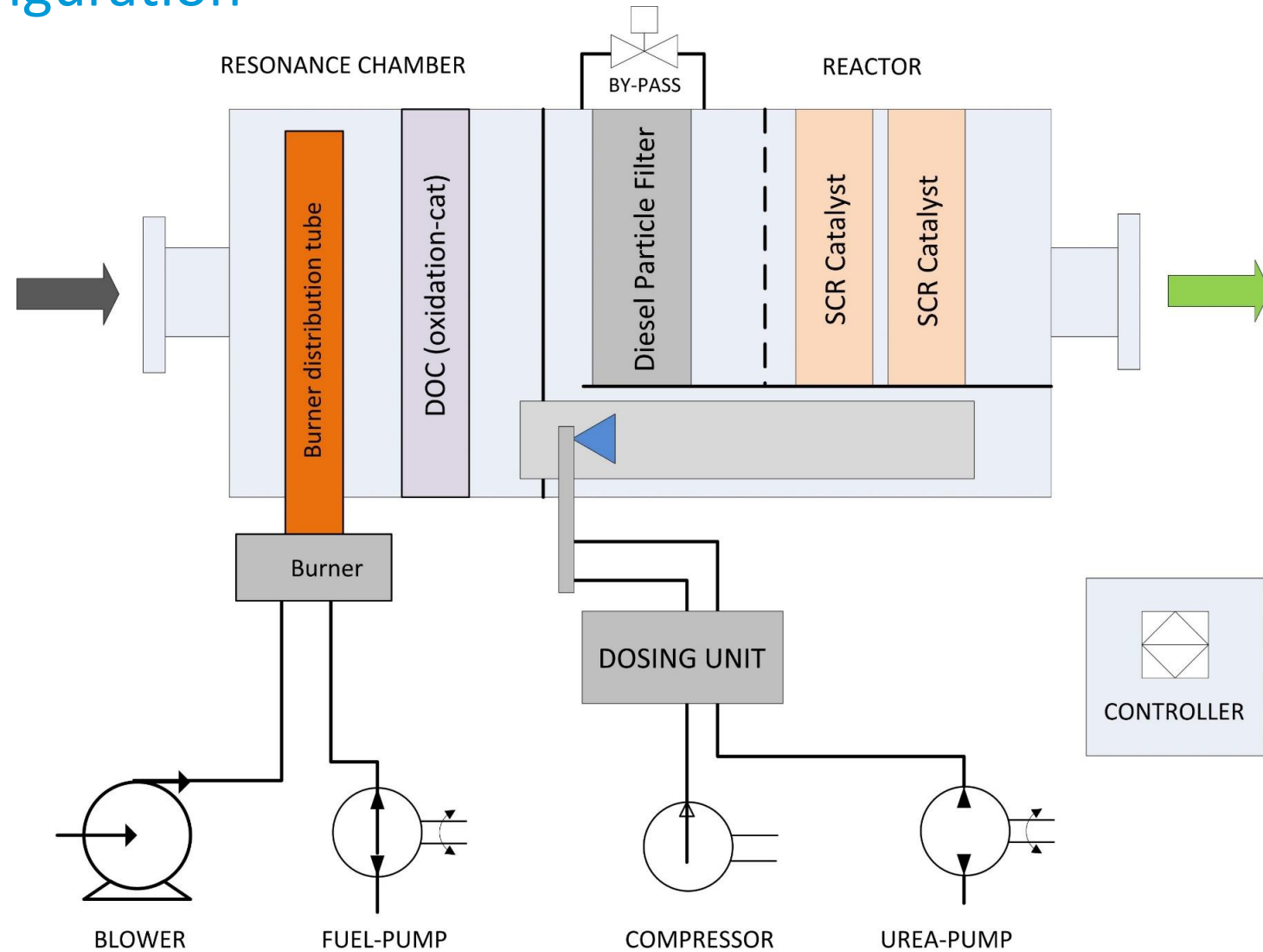


MPAT – Marine Propulsion After Treatment (SCR+DOC+DPF)

- IWA/IWP Stage V emission compliant
- 40-45 dB(A) attenuation
- Active regeneration for low load operation
 - E-heater
 - Diesel burner
- On-line monitoring



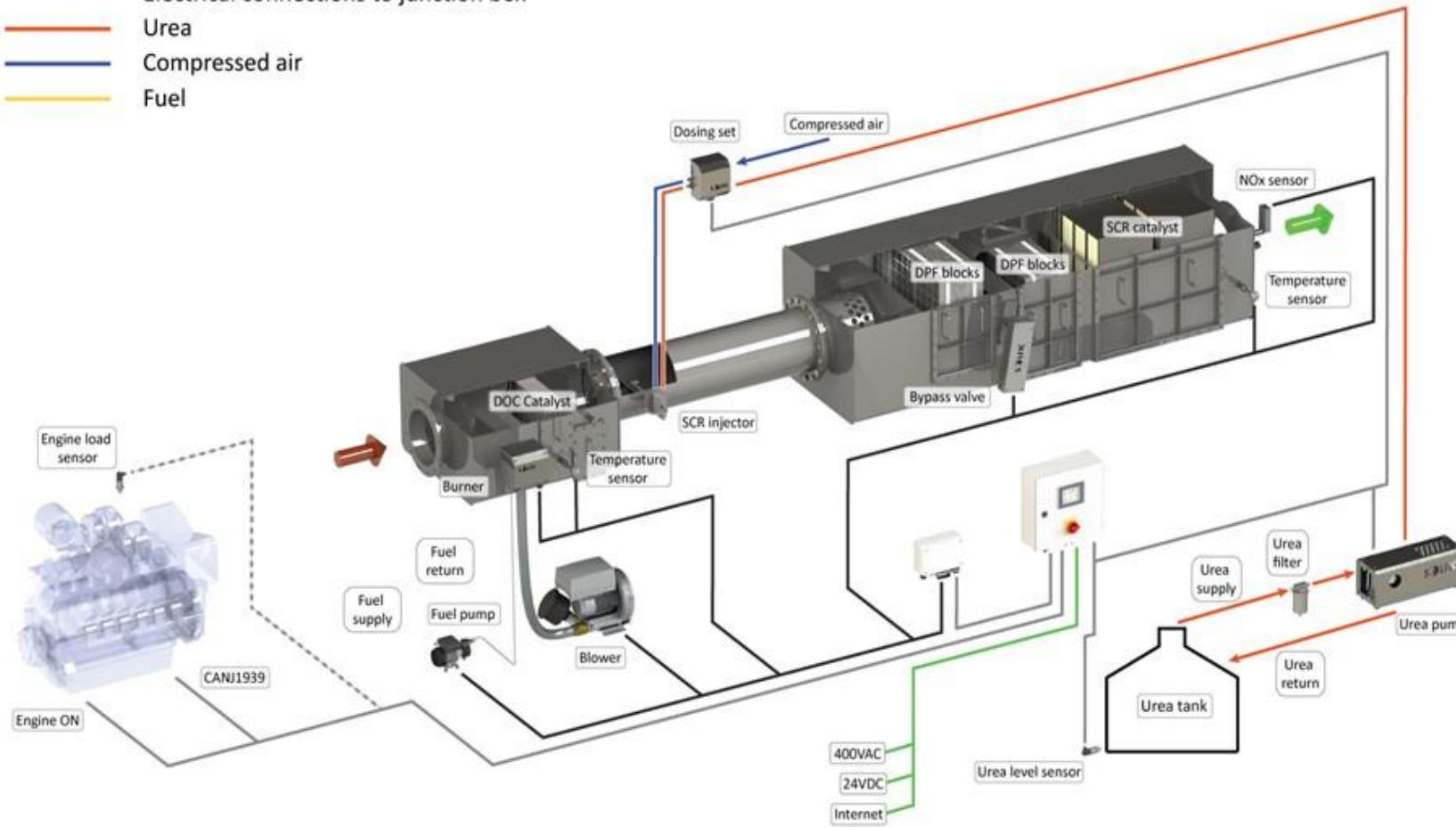
MPAT – “Compact” configuration



MPAT – “In-Line” configuration

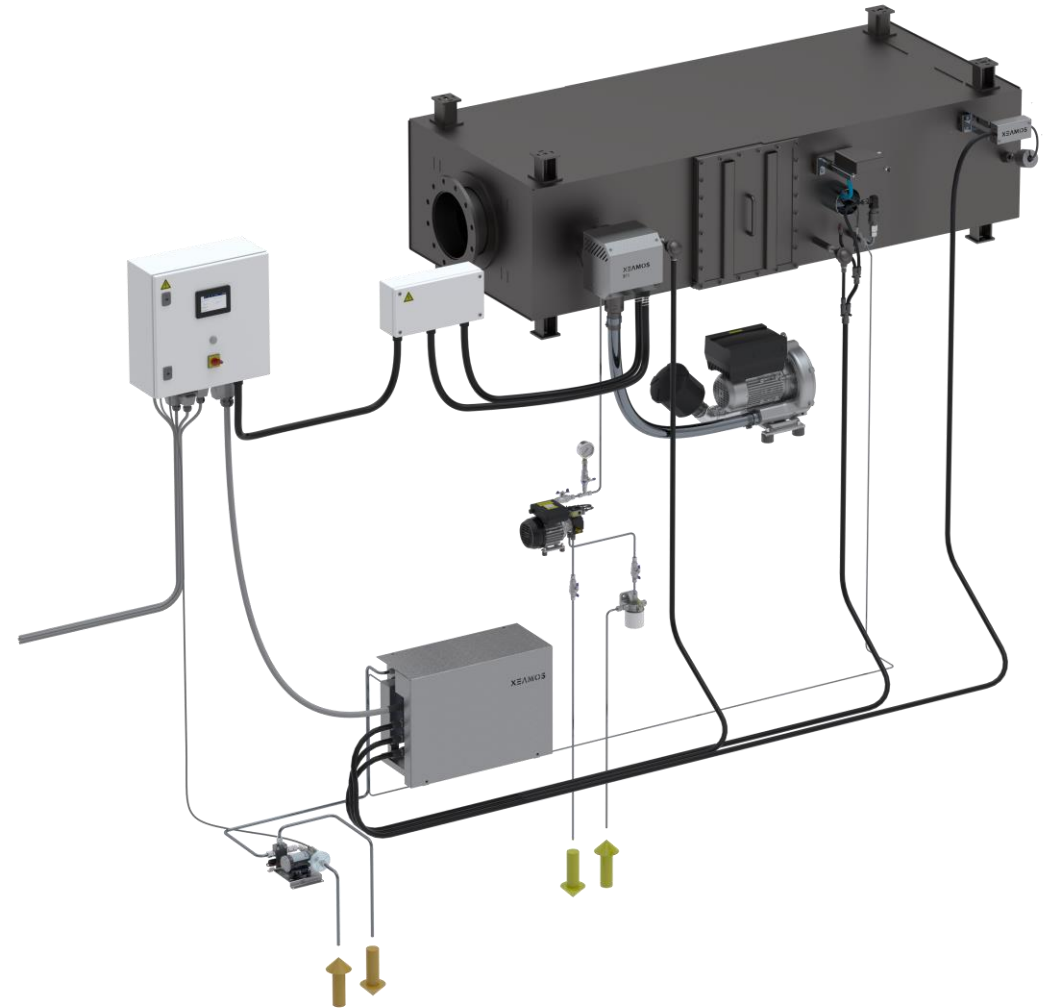
Legend

- Electrical connections to controller
- External electrical connections to controller
- Electrical connections to junction box
- Urea
- Compressed air
- Fuel



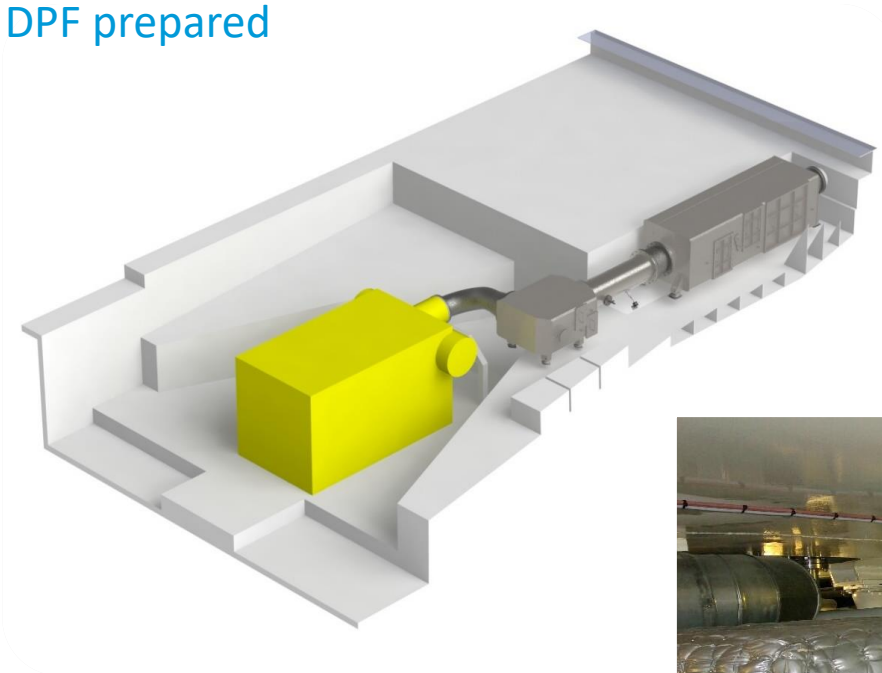
MPAT – Stage V “certified” solutions

- Airless urea injection
- 2500 hrs DF testing passed
- Stage V certified with John Deere 6135 engines
- Designed for “demanding” applications such as bow thrusters



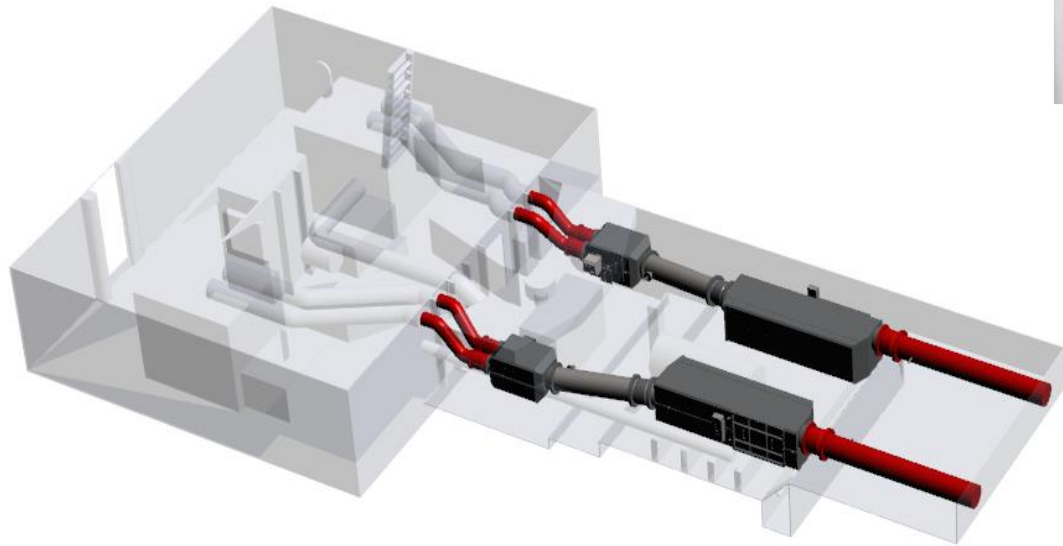
Reference - Barge

- Inland shipping
 - Caterpillar 3512
 - SCR + DPF prepared



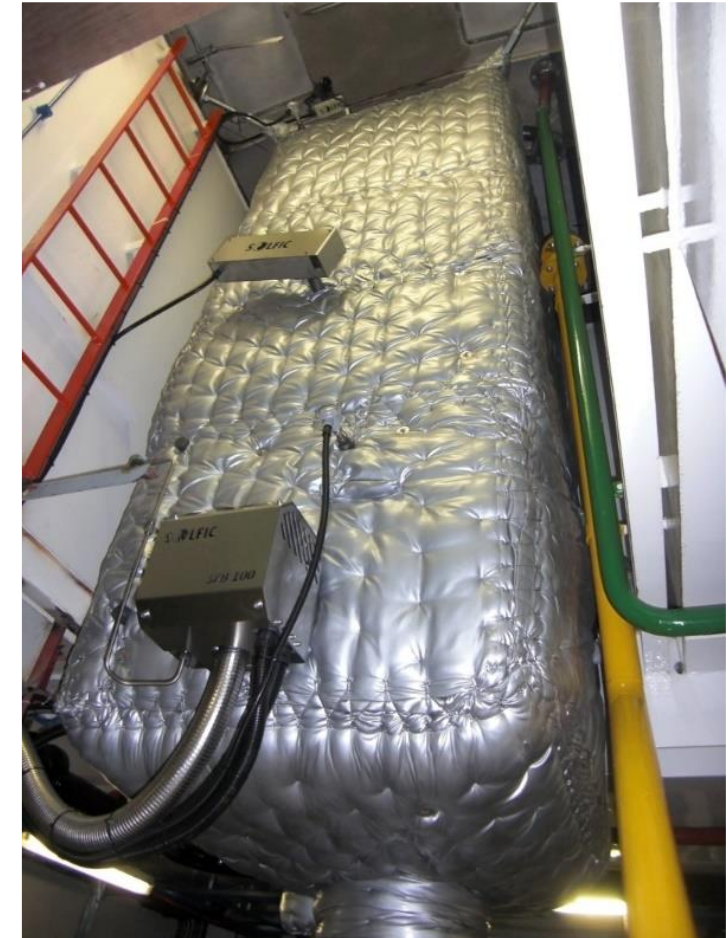
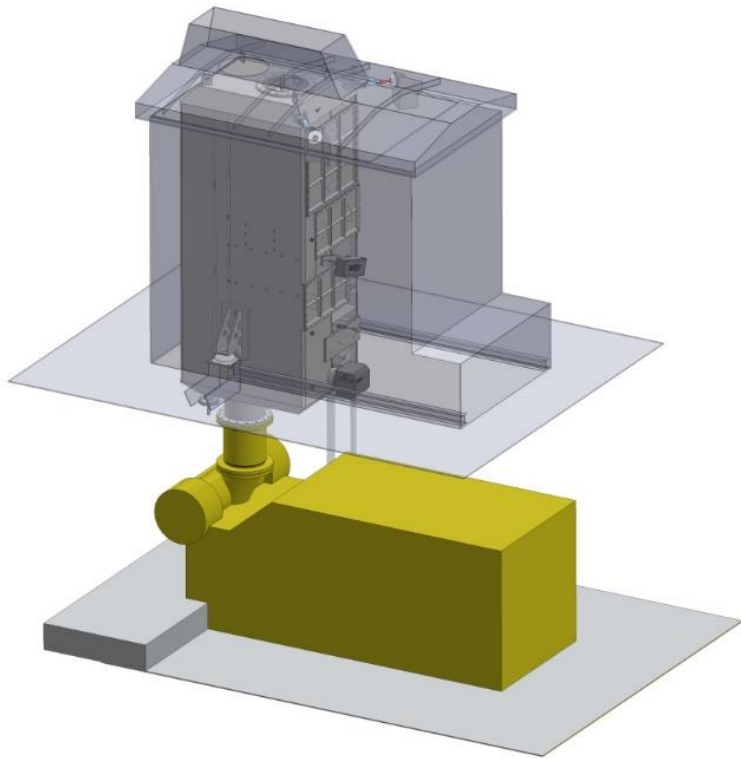
Reference – Barge

- Inland shipping
 - Cummins KTA38 pre-ccr
 - SCR + DPF



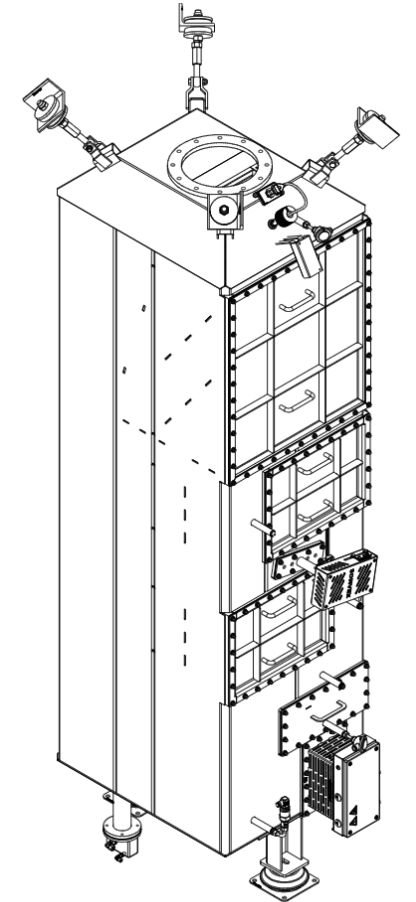
Reference - Barge

- Inland shipping
 - Caterpillar 3516
 - SCR + DPF



Reference – River cruiser

- 2 x Cat C32, 4x Scania DI13
- SCR+DPF



Reference: IJveren 4x JD6068 – 143 kW diesel-electric

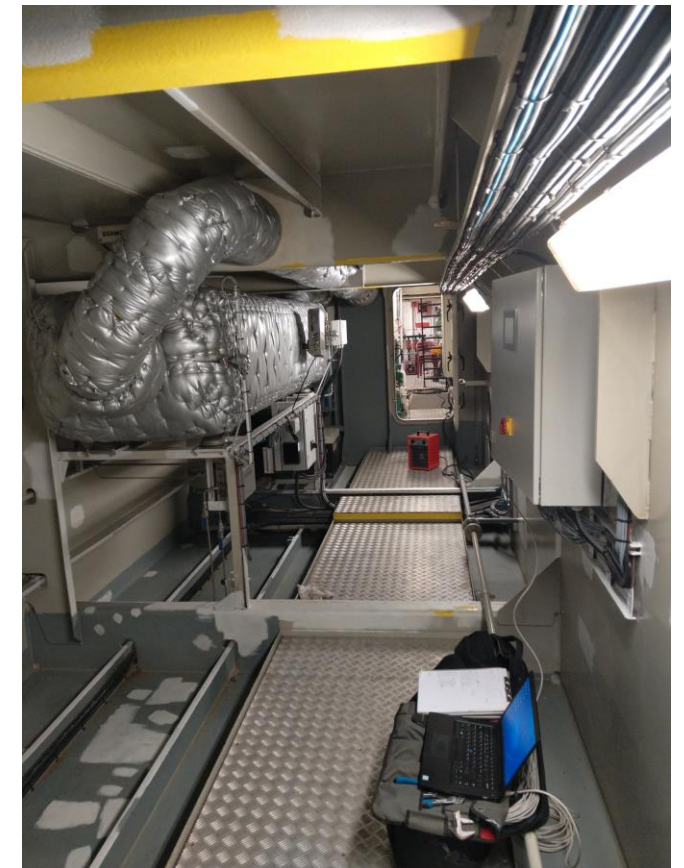


- IJveer 60 & 61 & 62 & 63 & 64 & 65 & 66 (new build)
- Sailing in Amsterdam center
- Short cyclic operation
- Twin system (2 engines, 1 aftertreatment system)



Reference (inland dredging) – reduction $<0,4$ g/kWh NOx

- MDS Parcival
- MDS Anna Catharina
- MS Rival



Clean air solution for your industry



Yachting



Inland Navigation



Maritime



Industry & Offshore



Contact us

Bijsterhuizen 24-16
6604 LL Wijchen
Nederland

Mail: info@xeamos.com
T: +31(0)24 648 6015

Service:
T: +31(0)85 822 7022
Mail: support@xeamos.com

Sales:
T: +31(0)85 822 7019

Parts:
T: +31(0)24 648 6015
Mail: parts@xeamos.com