



Enovation and Custom Solution













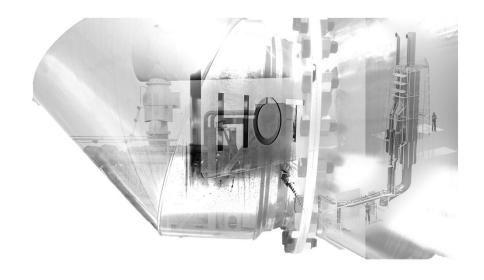






Exhaust Pipe Systems and Exhaust Filtration

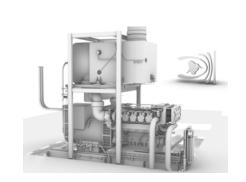


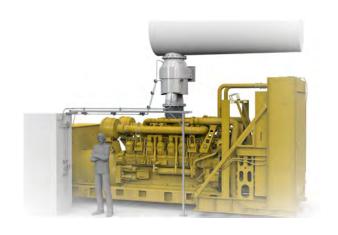


From development to final design

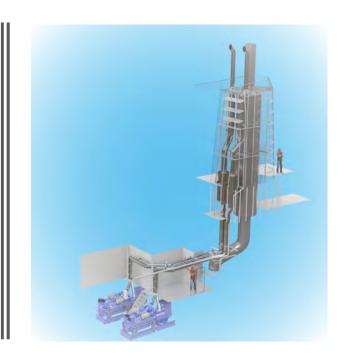












Turn-Key solution providing all required components and materials.

Onsite project management.



Industrial and Marine.....







R/V FALKOR Refit 2017

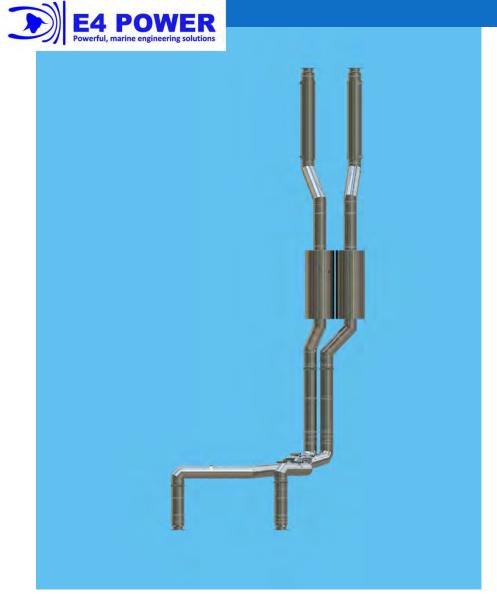




Length Overall	82.90 meters
Length between perpendiculars	76.20 meters
Beam, overall	13.00 meters
Freeboard	2.28 meters
Draft (design)	4.80 meters
Draft (gondola)	5.80 meters
Depth (moulded)	6.67 meters
Displacement (weight)	2,260 m3
International Gross Tonnage	2,024 GRT
Net Tonnage	608 NRT

Fuel Capacity	105,150 US gals / 398 m3 / 330 MT	
Fuel Consumption per day	at 10 kts 2,900 US gals / 11 m3 / 9.1	
	MT	
Galley Messing Seats	30	
Maximum Speed	17 knots	
Cruising Speed	10 to 12 knots	
Survey Speed	8.0 knots	
Range at 10 kts	8,000 nautical miles (estimated)	
Endurance with 41 personnel	me il	
aboard	36 days	
Year Built / Year Converted	1981 / 2010-2012	





Provision of two complete exhaust systems for MTU 700 kWe on board power generation

Solution:

- Light weight and low cost modular exhaust pipe system with silencers
- Fully insulated
- Stainless Steel
- Solid mounted to the ships structure
- No vibration isolation system required



3D Modeling

- Avoiding points of conflicts
- Easy to illustrate and share with all parties
- Planning of installation

Shipping

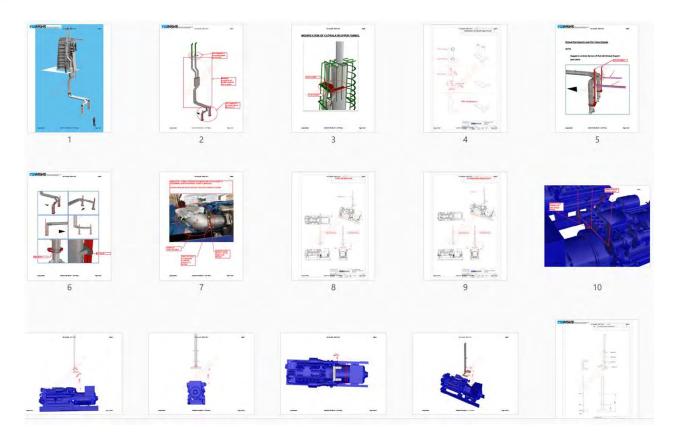
All components were shipped in one 20 foot sea container

Total shipping weight: 1,800 kg / 3,970 lbs

Onsite Assembly:

- 200 men hours
- 2 men





Detailed project planning and sharing with customer as well shipyard ahead of installation.







Onsite installation



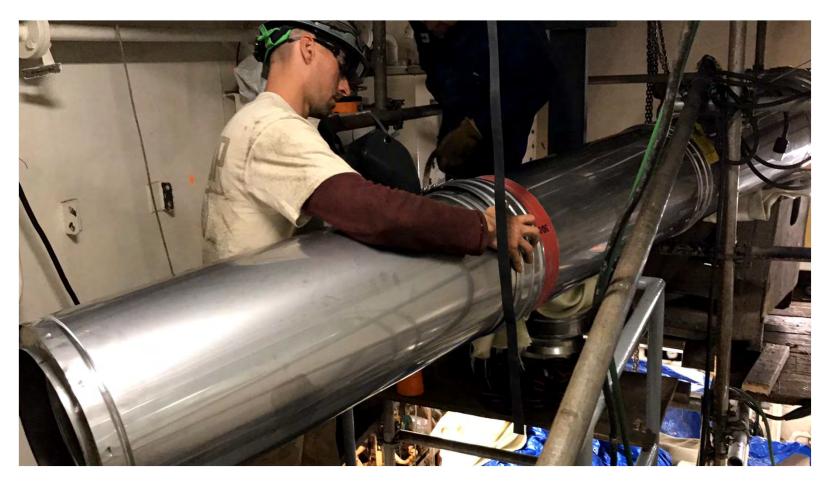


Female end of pipe segment with notches



Male end of pipe segment







Applications

- Diesel Generatorsets / Backup power
- Gas Generatorsets / CHP
- Marine Propulsion Engines & Gensets
- (Steam) Boilers
- Ovens (Bakeries, Dry processes etc.)
- (Micro) Turbines
- Etc.



Specification

Max (over)pressure: 5.000 F

Operational temperature: 200-600

Max temperature: 1.000 °C (mo.)

Material inner tube: AISI 316L

Material outer tube: AISI 304/904

Insulation:

Seal:

Approvals:

Mineral wool

ring + silicon sea

CE/DNV/LR/Gost/A



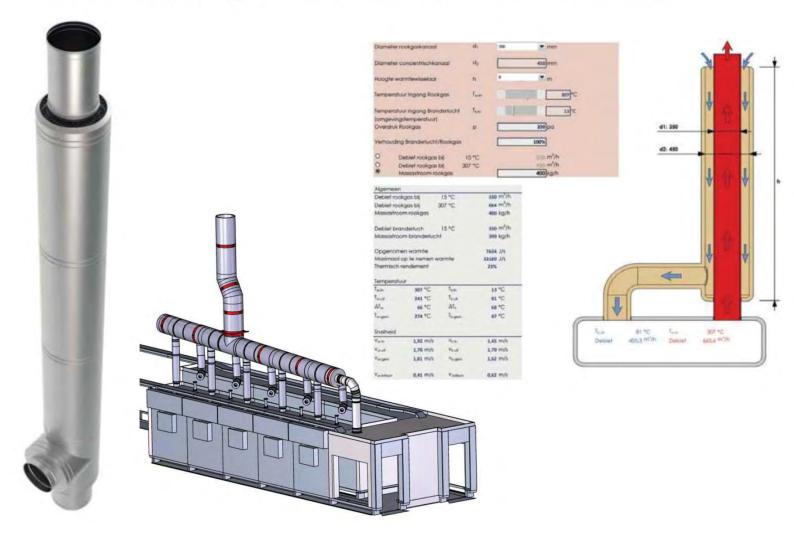


Benefits

- Light Weight (60% lighter than conventional)
- One calculated system, one calculated performance
- Flexible applicability
- Pre insulated
- Stainless Steel, different qualities for diverse applications
- Click & Fix Easy and clean to install. No welding.
- Up to 1000 mm diameter for pipes, 2500 mm for silencers



E4 POWER Powerful, marine engineering solutions Tri-wall system for heat recovery





E4 POWER Application references: Gensets





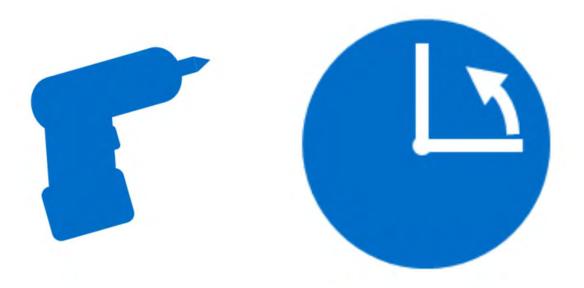








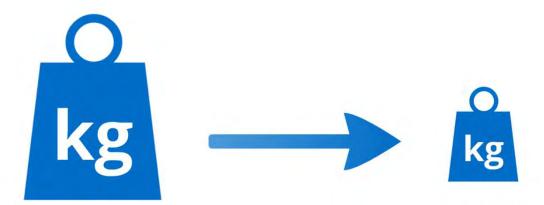




Reduction of manhours of at least 50%



Up to 75% weight reduction



Example:

Conventional system 15,7 tons modular 4,8 tons











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- Endless marine application possibilities
- 5year warranty / 20 years + product lifetime
- Wear resistant
- Full corrosion protection
- Machinable
- Approved by all major "Classification Societies"
- Approved for portable water tanks and pipes
- Major cost savings verses replacement

Sea water pipes and chest Water pump housings and impellers Pool tank and surrounding areas Tanks:

- Portable water
- Grey and black water tanks
- Chemical tanks etc...

Exhaust scrubbers and discharge pipes
Under water hull coating
Thruster tunnel
Rudder



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Thank you for your time