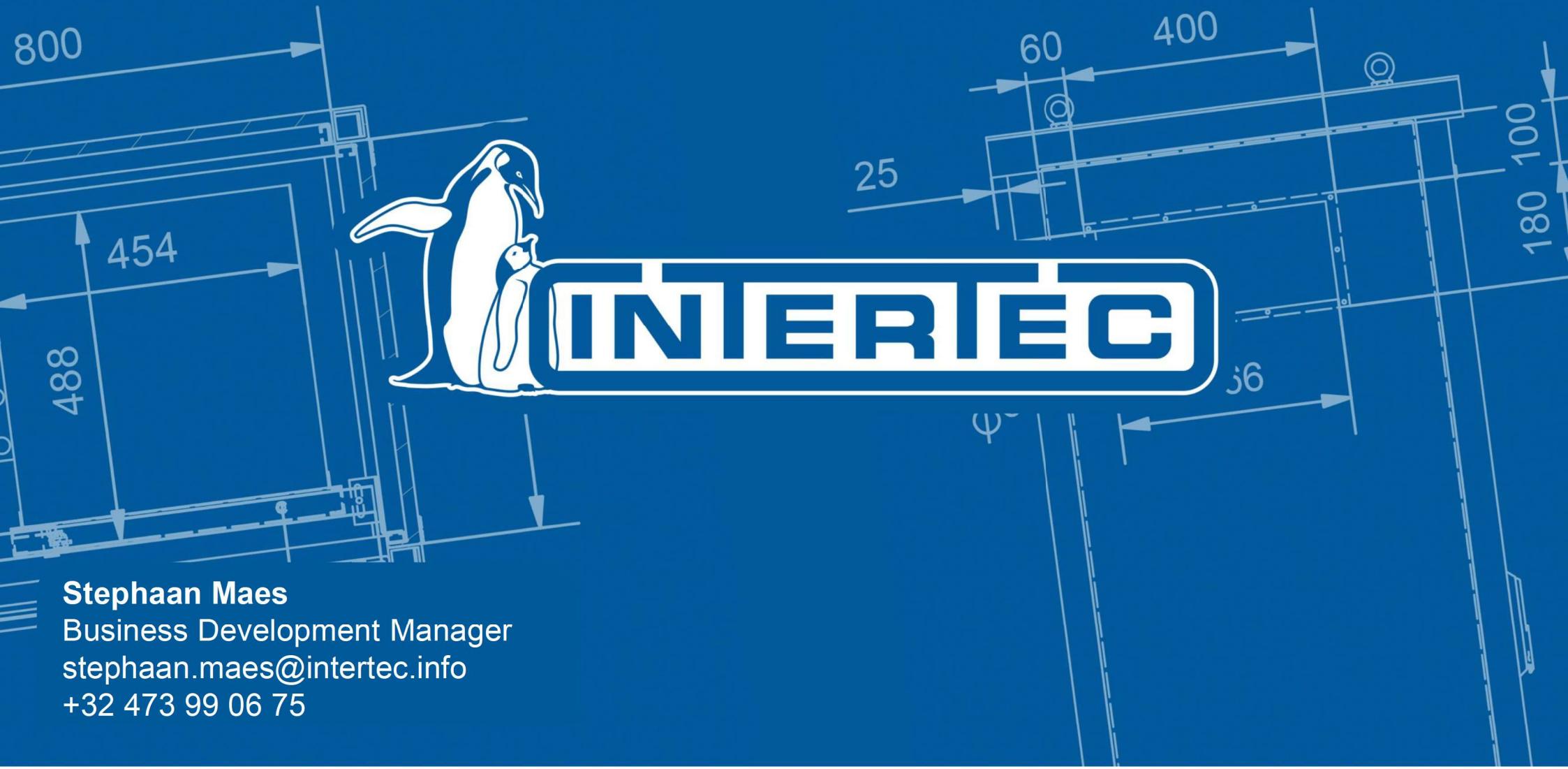


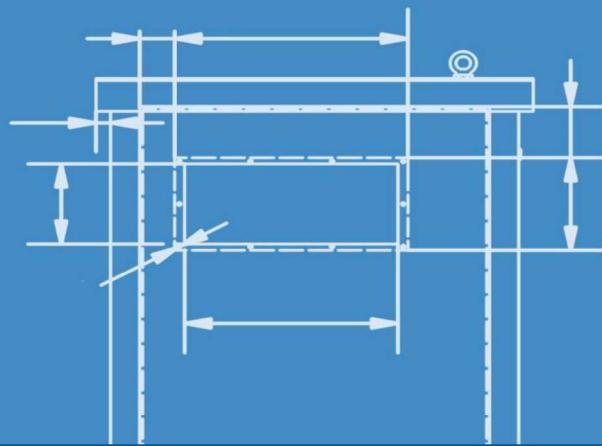


Intertec

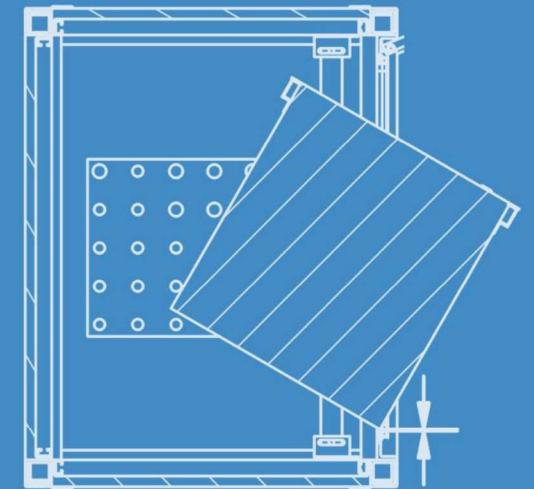


Stephaan Maes

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ABOUT INTERTEC



Company Profile - Global Presence



Headquarters in Neustadt/Donau



Sarnia/Canada



Houston, Texas

Products



Multi Box



DiaBox



Heating, Cooling, Ventilation



Thermotex



Cabinets and Shelters

Applications at a glance



Extremely hot climate



Extremely cold climate



Field instrumentation



Airport equipment



Materials handling



Communications technology



Process analysis technology



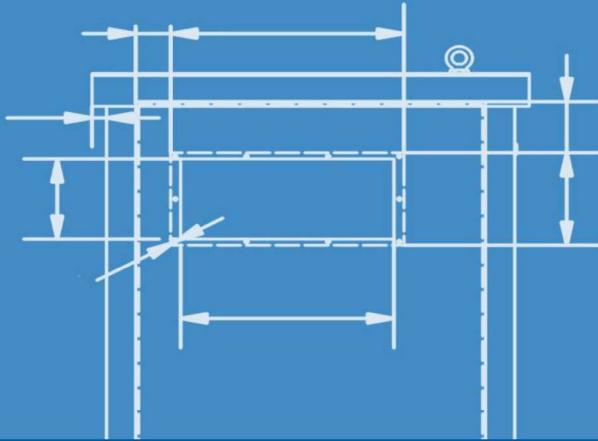
Process control technology



Safety technology

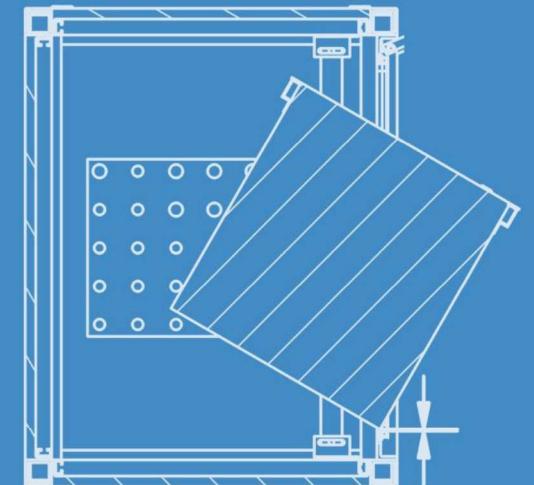
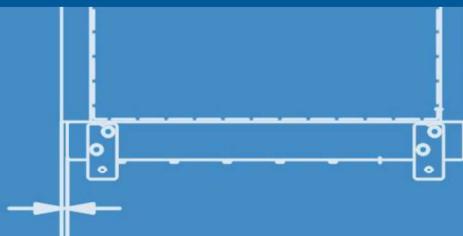


Traffic technology



GRP

Glassfiber Reinforced Polyester



GRP Advantages



Strength & Mass

- GRP's strength virtually matches that of stainless steel, yet it weighs 75-80% less, 60% lighter than aluminium.
- The superior strength- and-stiffness-to-weight ratio of GRP's results in weight savings (offshore applications, transportation, suspended systems, savings in foundations ...).
- Resists impact, shock and deformation (IK10 cf. IEC62 262)
- Hurricane and blast proof (240 km/h).
Standard GRP 50 mm arctic Shelters withstands blast pressure of 200 kPa (3 psi; 206,8 mbar).



GRP Advantages

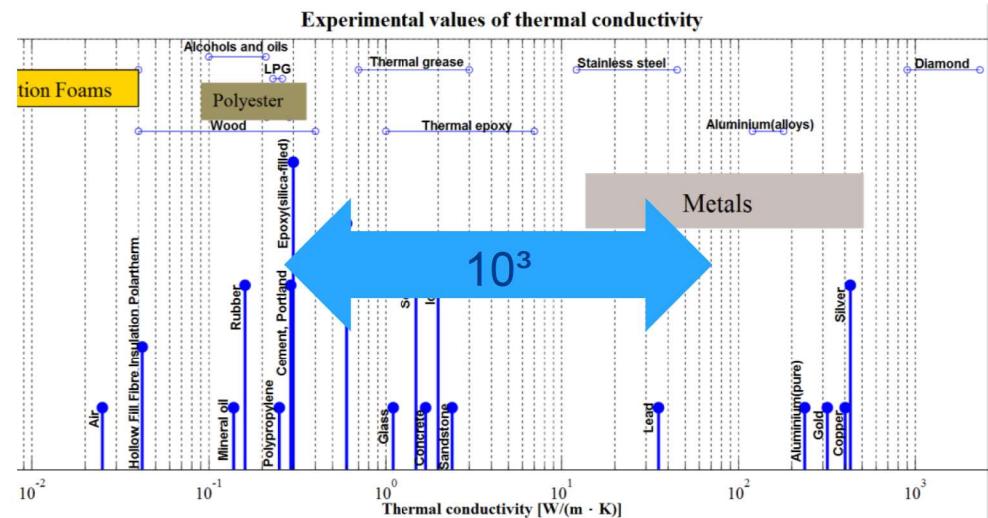


Temperature

- Withstands high continuous operating temperatures (\neq thermoplastic); up to 110°C; even exceeding 200°C in special cases.
- Low ambient conditions (-60°C without loss of capabilities);
- Low thermal conductivity, factor 1.000 - 2.500 lower versus aluminium or steel.
- No thermal short cuts.
- Heating or cooling requirements are severely reduced.
- Condensation free.



GRP (L) vs ABS (R) at -60°C



GRP Advantages



Durability

- **UV resistant**
800 µm gel-coat (contrast this with the 80 µm coating of acrylic paint on cars)
- **Virtually infinite lifetime**
- **100 times more stable than non-reinforced plastics**

Lifecycle > 25 years !
No Painting No Maintenance
SET & FORGET !



Ultra-long life anywhere! This Intertec cabinet's gel-coat survived 40 years in an atmosphere containing sulphuric acid; the surface (right) is still intact with only minor thinning.

GRP Advantages



Durability

- Highly corrosion resistant in almost every chemical environment, including seawater.
- Resists hydrogen embrittlement
- Steel, even in its galvanized form is susceptible to corrosion and pitting under salt spray conditions and chemicals.
- Naturally fire retardant with up to 120 minutes fire resistance (cf. DIN 4102, DIN EN 13501-1, UL94 ...).
- Can be manufactured for all explosion sensitive environments.



GRP Advantages



Design



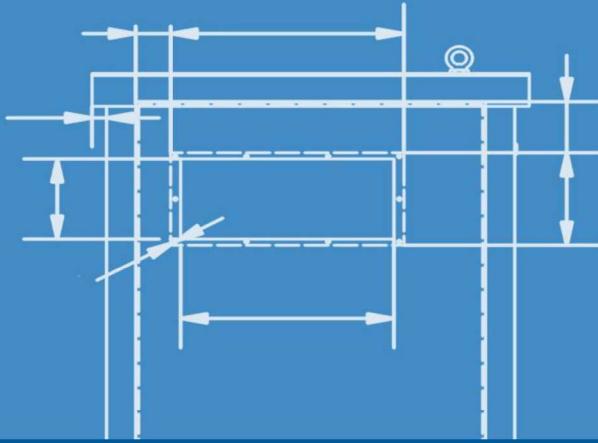
GRP Advantages



Costs

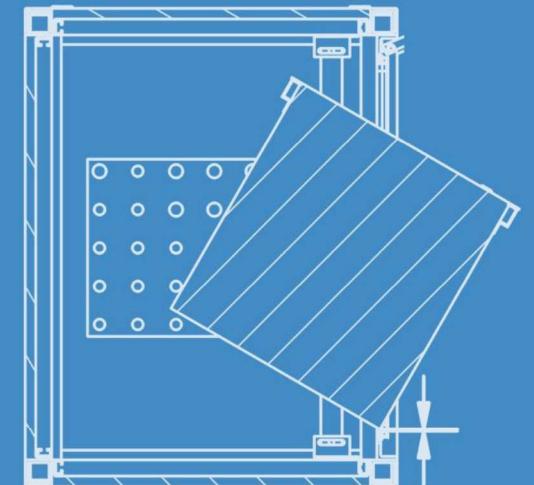
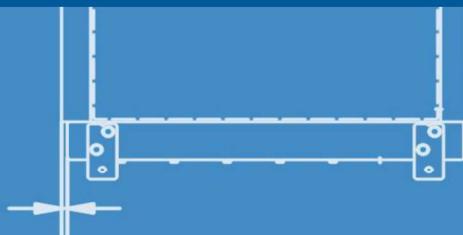
- Extremely low maintenance costs (practically zero) since not affected by corrosion, mosses, fungi, UV
- ...
- Low installed mass; ease of transportation and mounting.
- Pre-installed equipment.
- Typical 75% life-time installation cost is due to maintenance and repair which can be avoided or strongly reduced using GRP enclosures.



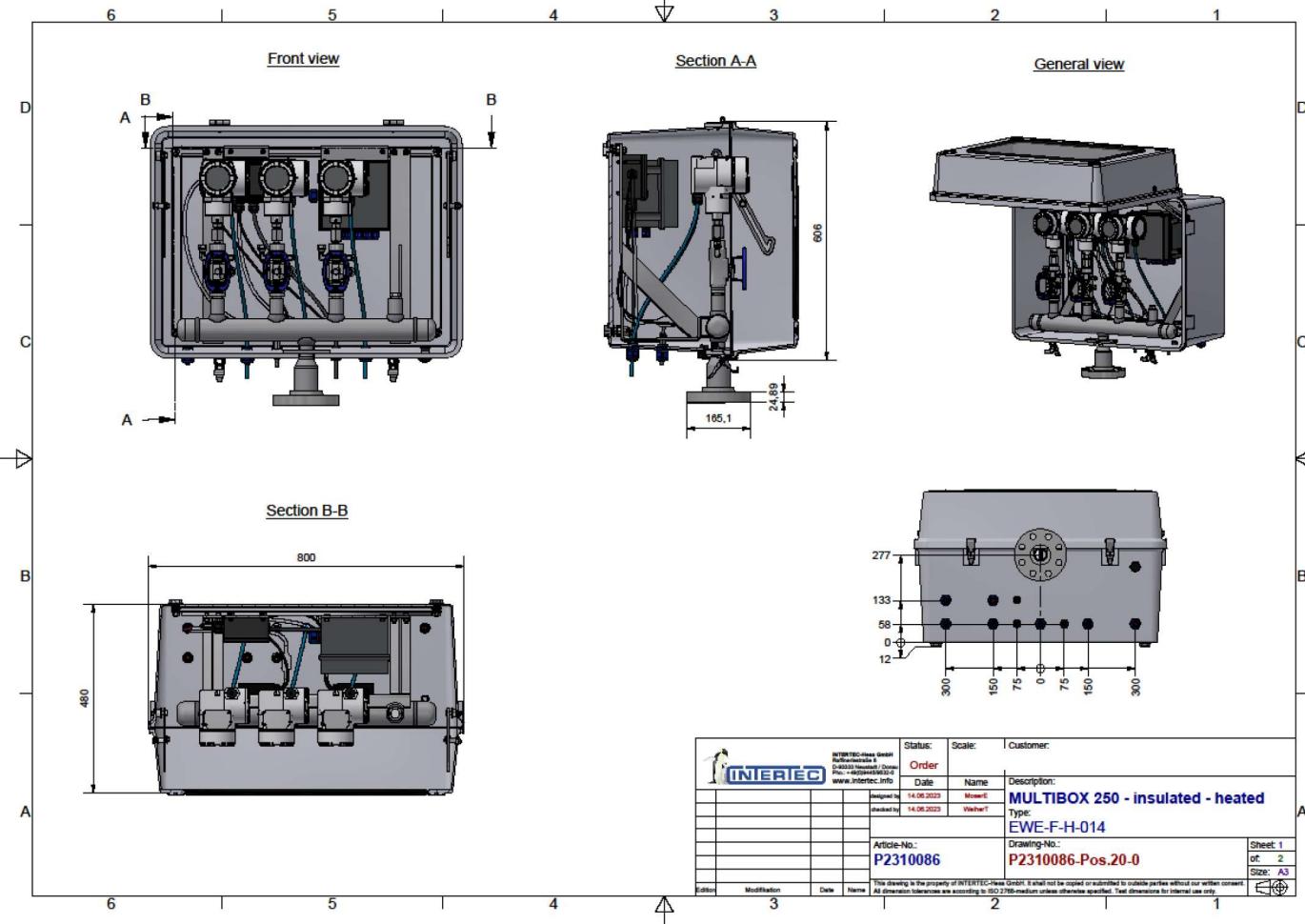


SOLUTIONS

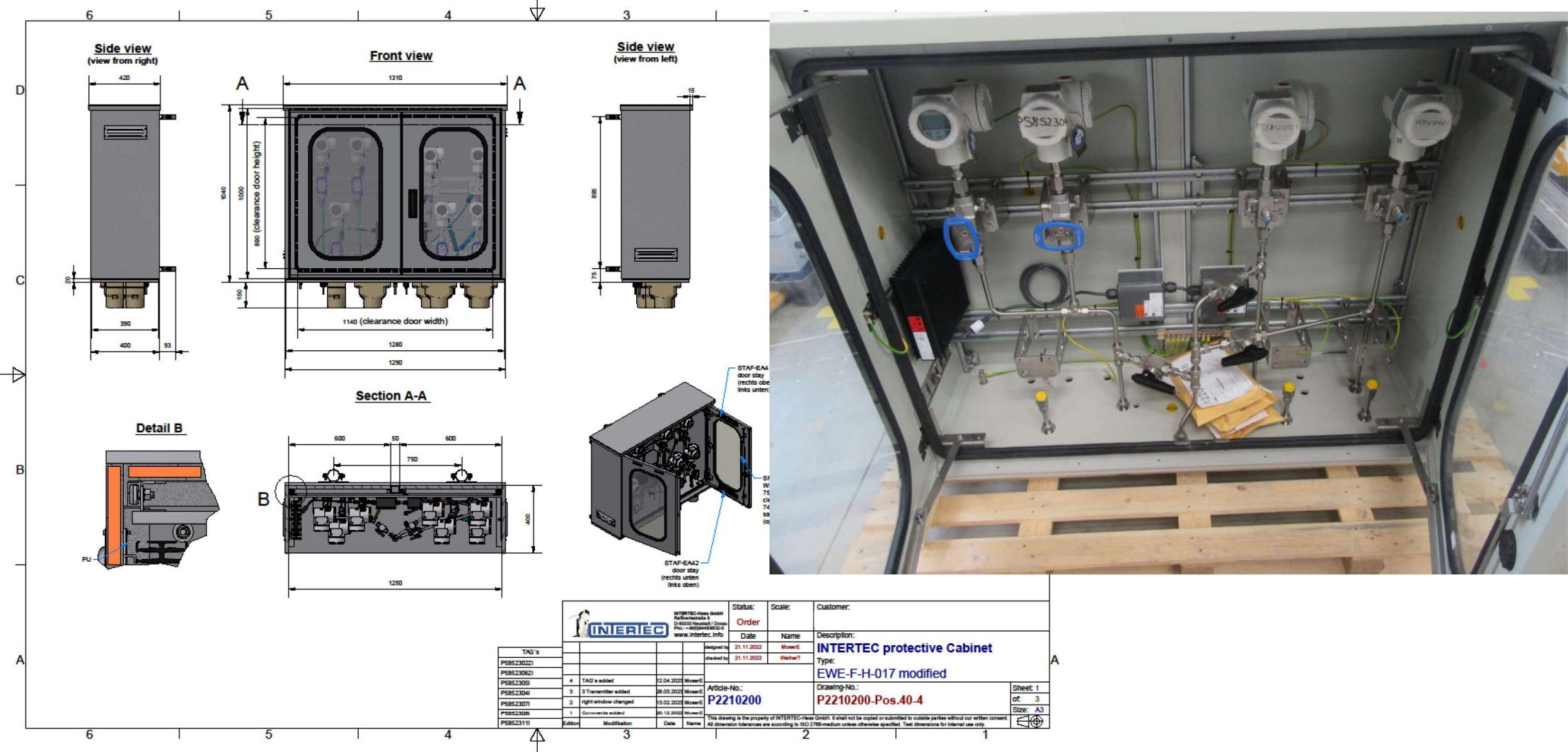
Safe Link



SafeLink for Hydrogen applications



SafeLink for Hydrogen applications

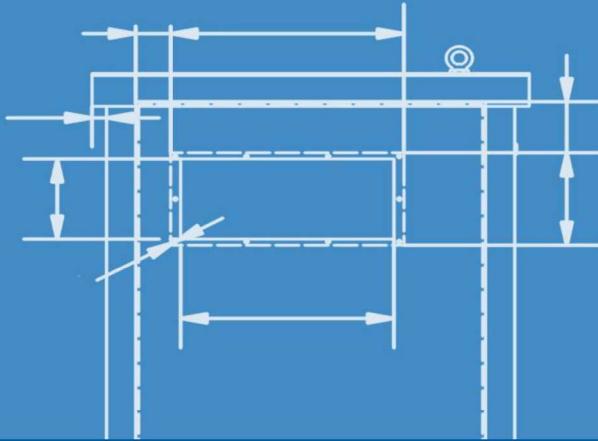


SafeLink for Hydrogen applications



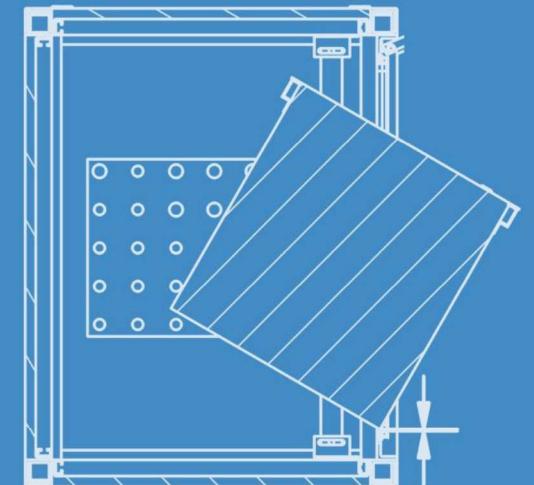
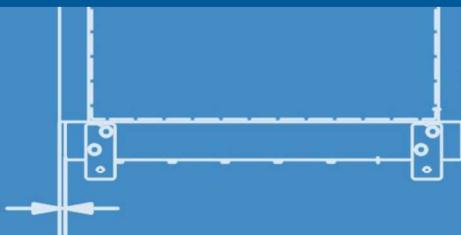
EWE Speicher
Rüdersdorf :
Conversion to
Hydrogen
Storage, Test
Phase





SOLUTIONS

Analytical

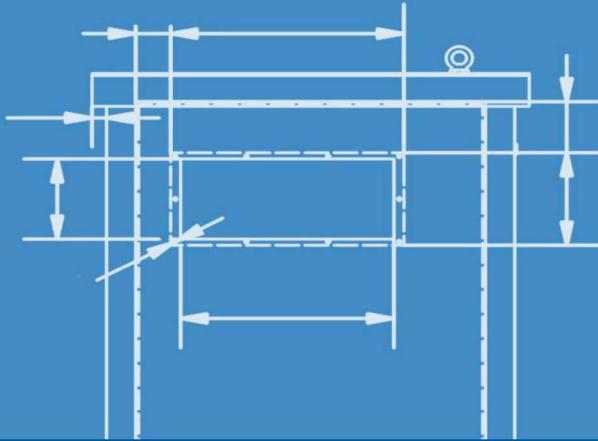


Analytical



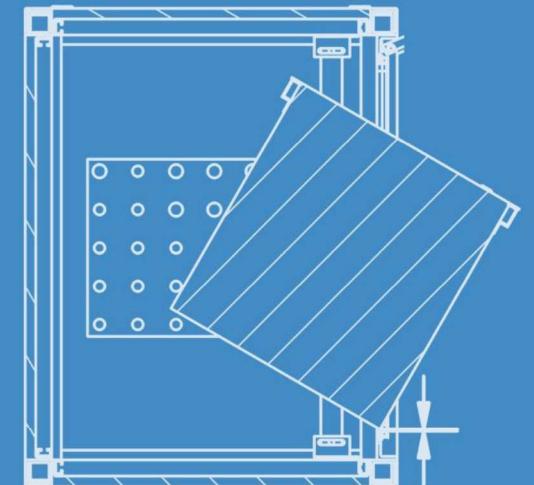
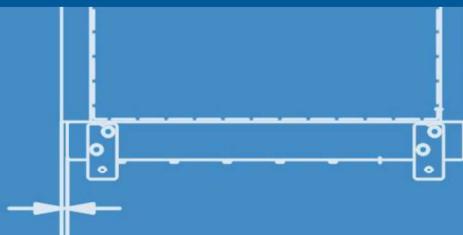
Analytical





SOLUTIONS

Electrolyser & Hydrogen



HYDROSHelter for Green Technologies



[Image by macrovector on Freepik](https://www.freepik.com/free-vector/green-renewable-energy-production-eco-technology-isometric-flowchart-with-wind-wave-solar-electric-power-generators_4385707.htm)

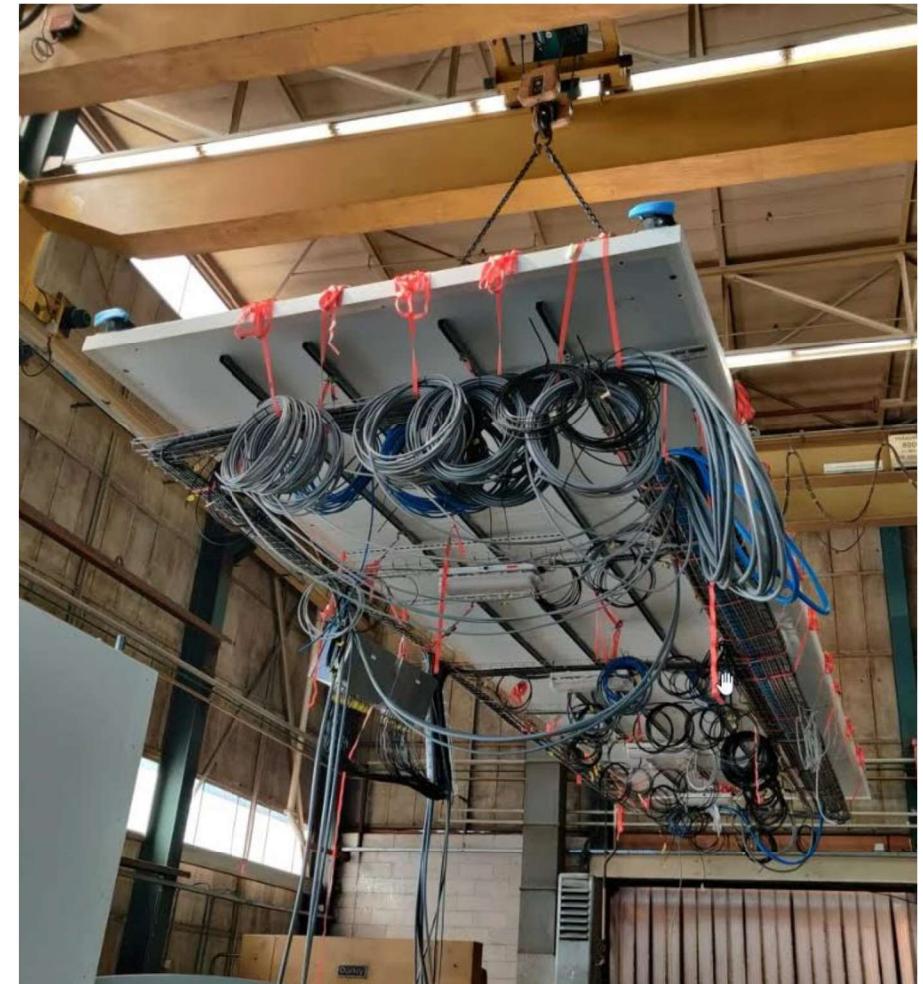
Electrolyser & Hydrogen



Electrolyser & Hydrogen



Electrolyser & Hydrogen

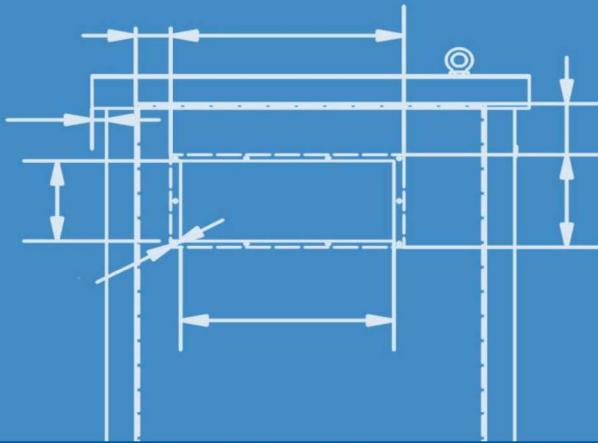


Electrolyser & Hydrogen



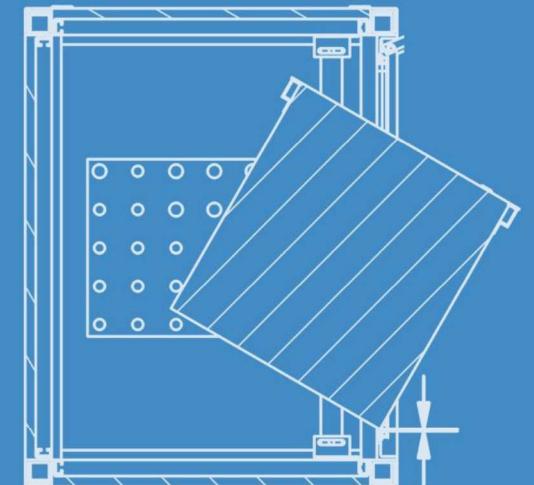
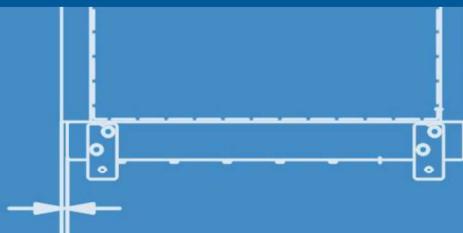
Shelter Produktvideo_LQ

Shelter Produktvideo_LQ



SOLUTIONS

E-house



Other applications



Battery shelters



e-Houses



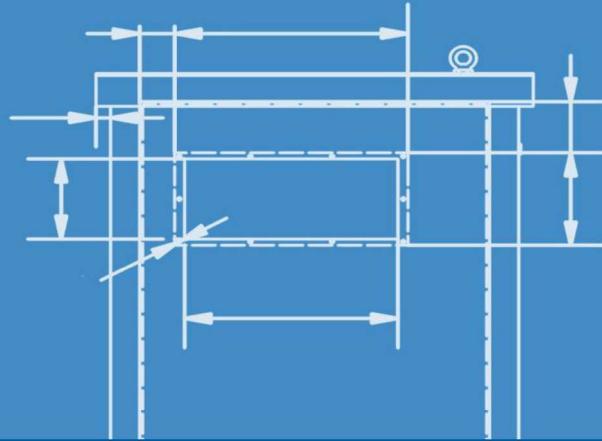
Modular pilot plants

E-houses

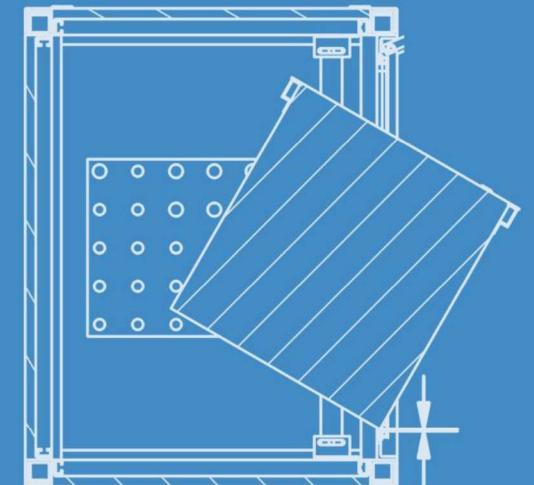
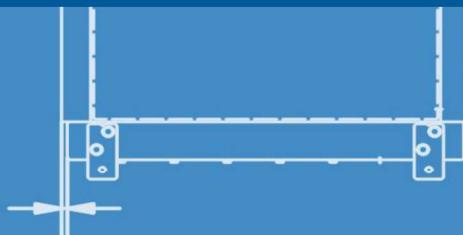


Tetra Radio Station in GCC





PROJECTS



Projects



E-house Vopak Hydrogen - project Puffin(REI60)

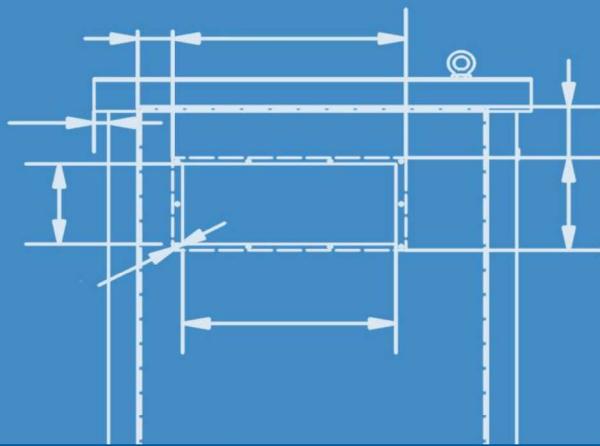


Projects



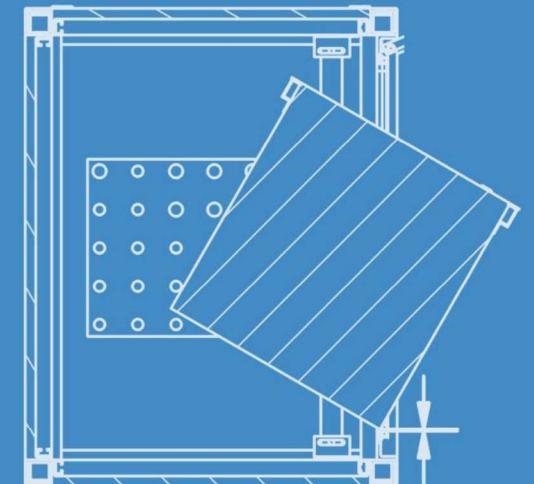
NEOM Helios Green Hydrogen Production Facility



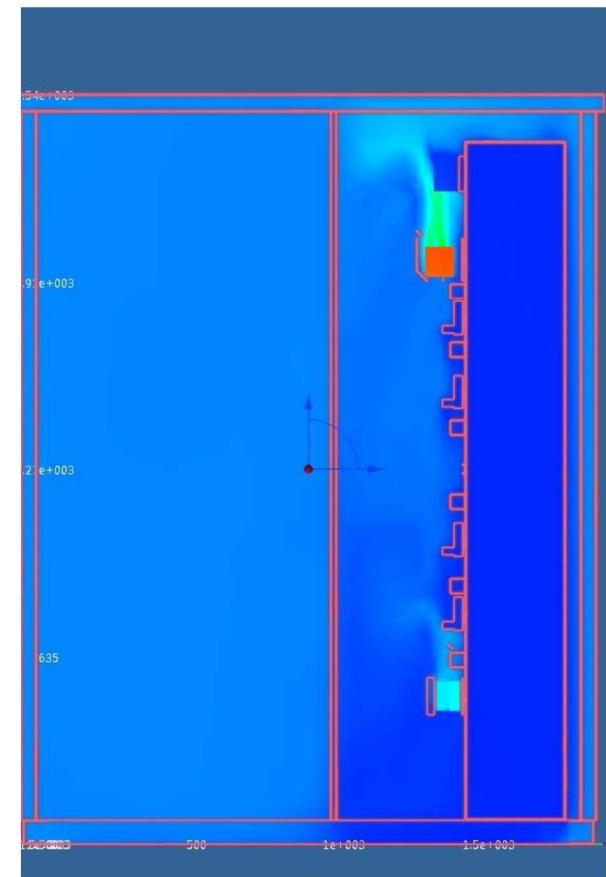
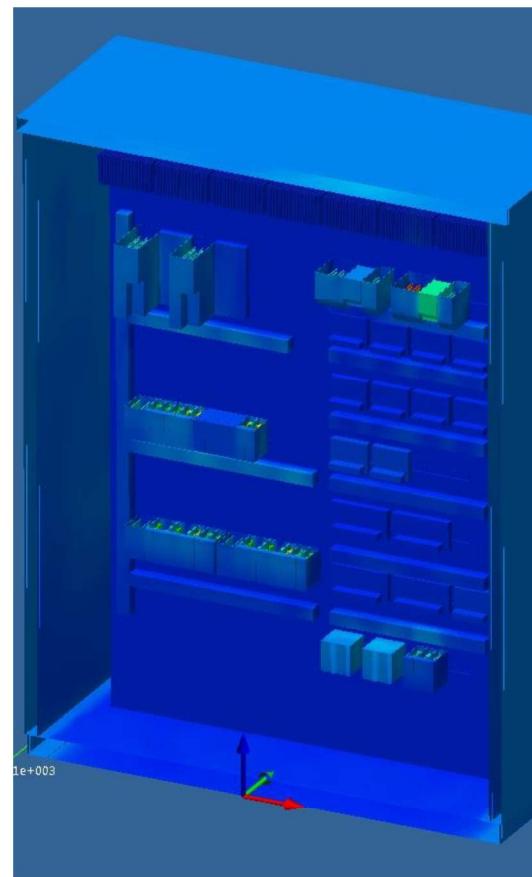
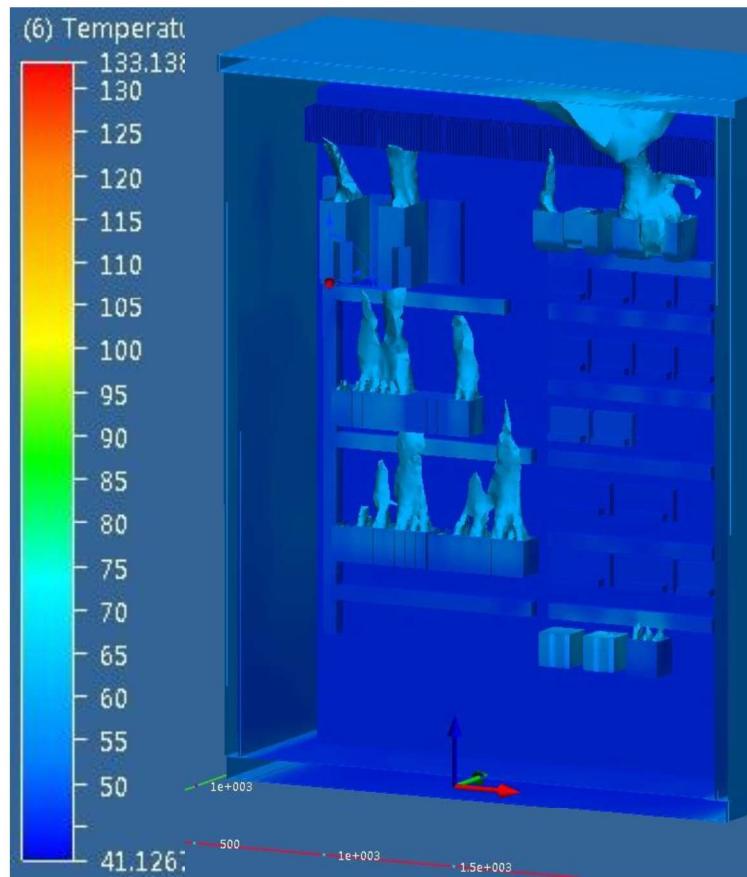


EXPERTISE

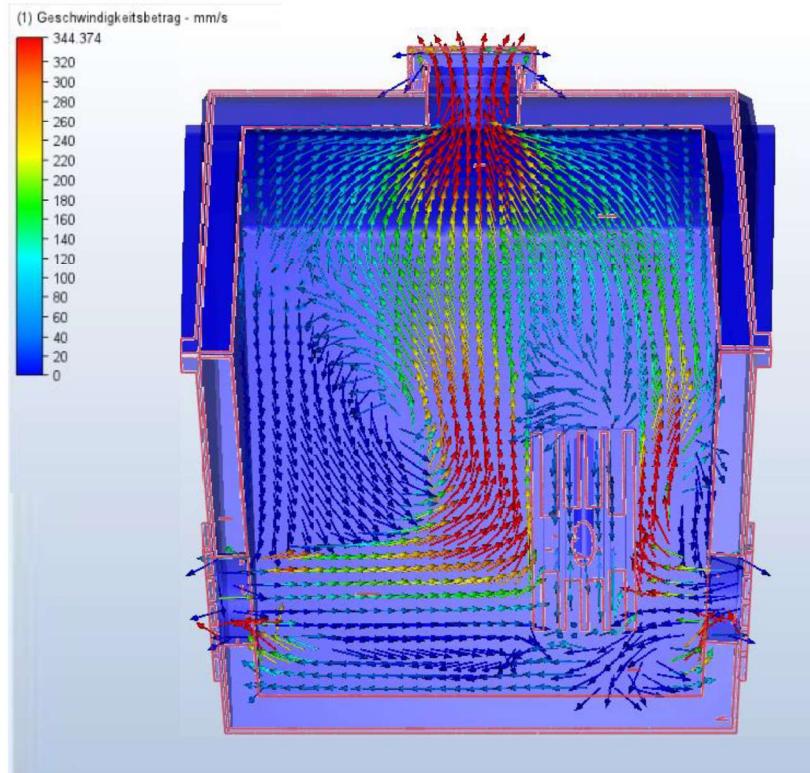
CFD studies



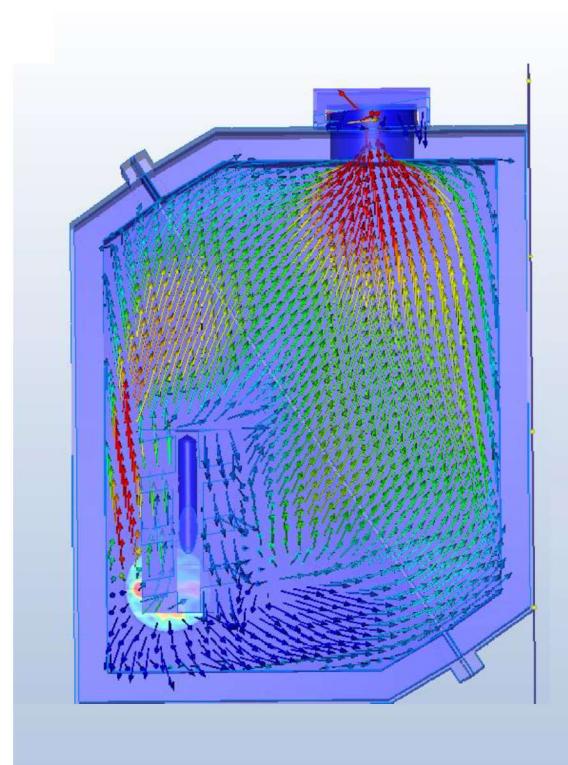
CFD Thermic Simulation



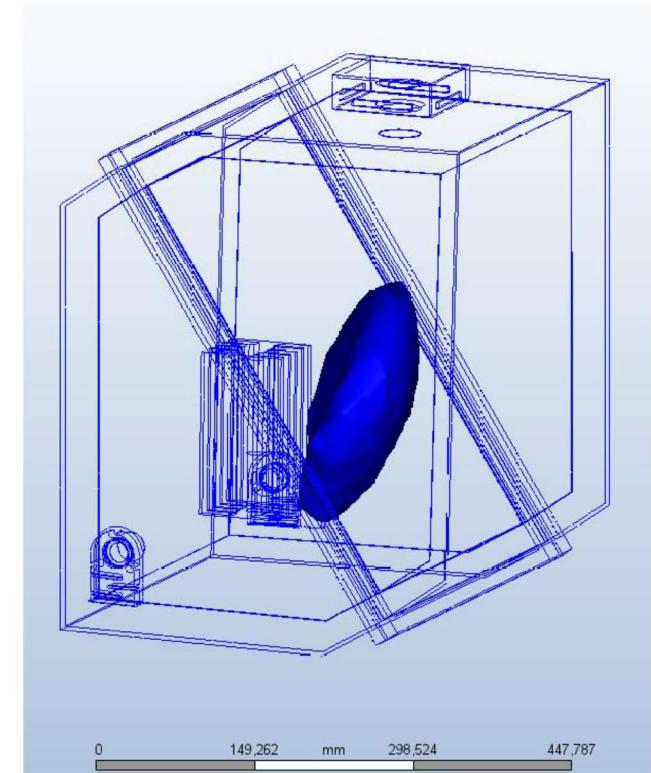
CFD for Ex HAC



Natural Gas, at 10l/h leakage



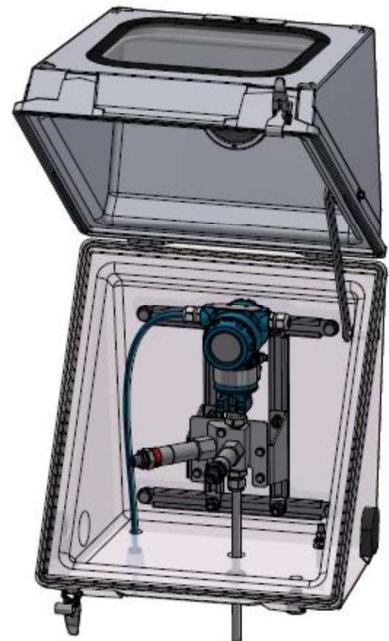
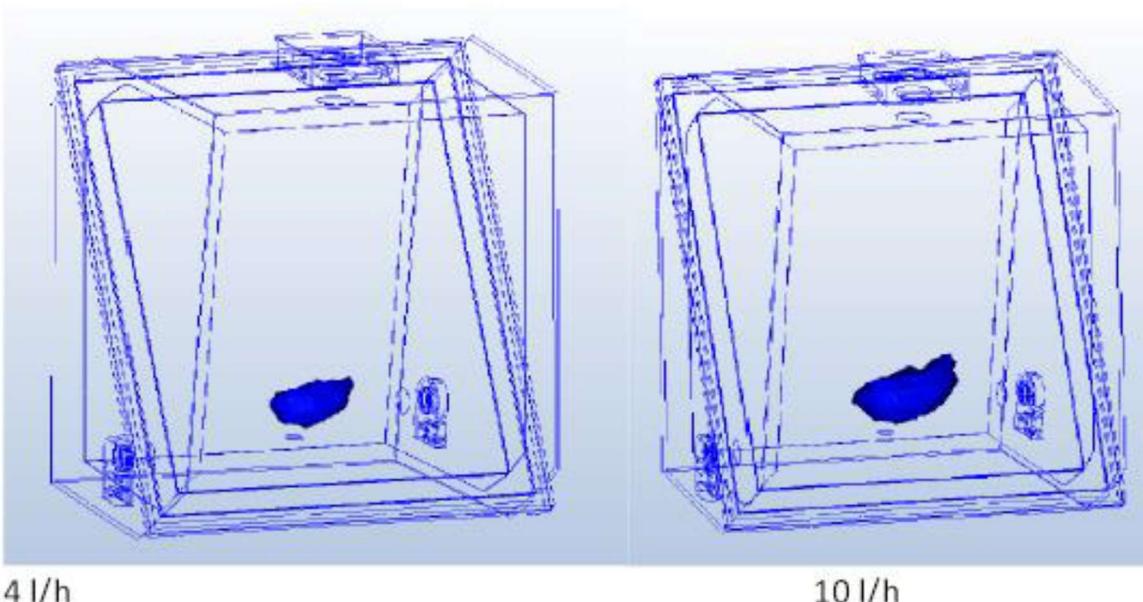
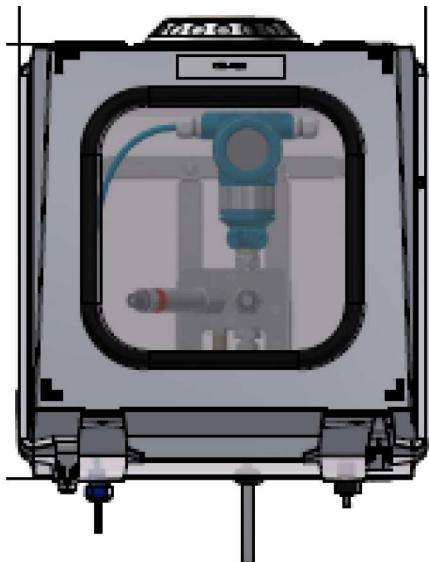
All electrical equipment is outside the blue volume
⇒ Zone 2: lower maintenance demands than Zone 1



CFD for Ex HAC



Simulation For Open Grid Europe



Unique Protection Solutions



INTERTEC is a market leading company that provides innovative and sustainable technology solutions that enhance reliability, safeguard assets, reduce costs and drive operational efficiency across industries.

- Extend Life Cycle of Equipment;
- Reduce Maintenance Costs;
- Secure Process Stability;
- Enhance Plant Security.

Reduce Total Cost of Operation

Unique Protection Solutions



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