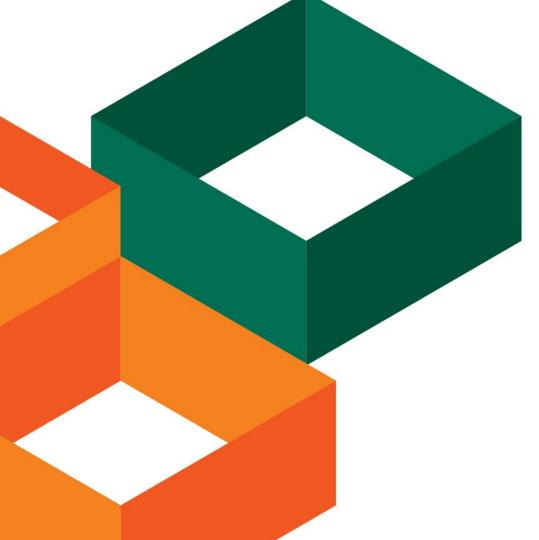


INDUSTRIAL OUTDOOR SOLUTIONS

6.5.2020

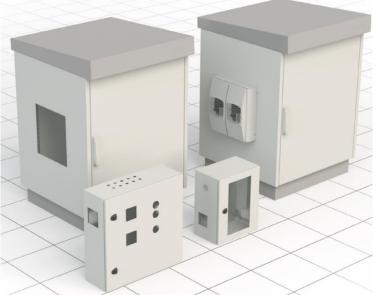
Marek Schiller





Industrial portfolio CONTEG

outTEG







Industrial enclosures – inTEG

- FSE Free Standing Enclosure
- FSM Free Standing Compact
- WME Wall Mount Enclosures
- WME-G WME with glazed doors
- WME-X WME stainless steel





Industrial enclosures – inTEG

- Free-standing, Compact and Wall Mount Enclosures
- Single-door and double-door options
- Materials: sheet steel, stainless steel 304 or 316L, powder-coated stainless steel
- Stability and Robustness
- Wide Range of Accessories
- Customized Solutions cutouts and holes





inTEG FSE - MAIN ADVANTAGES

- Welded frame construction made of special rolled profile powder coated
- The closed rolled profile is made out of a zinc-plated sheet steel and welded by a laser
- Load capacity 1500 kg
- Single-door and two-door cabinet designs
- Can be installed without an additional supporting plinth



inTEG FSE - MAIN ADVANTAGES

- Designed swing handle the standard for all rack types
- Easy to close doors thanks to a special locking system and side panel fixing thanks to the possibility of hanging
- Maximum use of interior space
- 46 sizes from 1800x400x500 mm up to 2200x1200x800 mm
- Norms EN 61439, EN 62208, IP 55, IK 10
- UL 508A Industrial Control Panels



- > Welded frame
- > Mounting plate





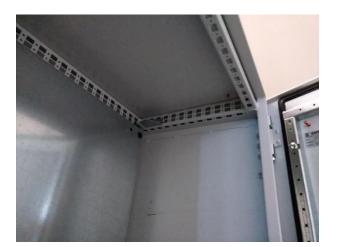




inTEG COMPACT enclosure FSM

- Construction with integrated side panels
- Similar accessories with FSE doors, panels, MP and accessories



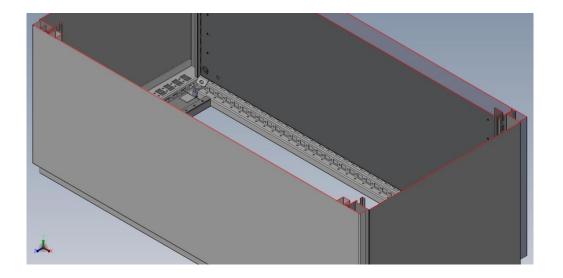






inTEG COMPACT enclosure FSM

- Height 1400, 1600, 1800 and 2000 mm
- Width 600, 800, 1000, 1200 and 1600 mm
- Depth 300, 400 and 500 mm







Industrial enclosures – outTEG

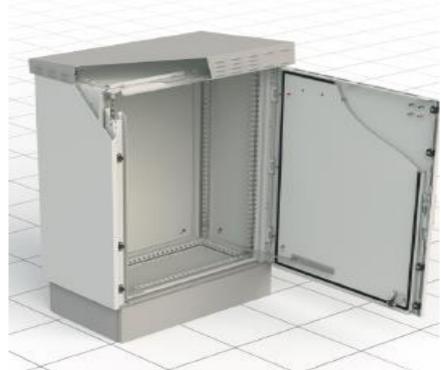
- OMR-DN outTEG II Double Natural
- OMR-DL outTEG LITE
- WME-O WME outdoor (SS)
- Outdoor climate control solution







- Designed specifically for outdoor applications
- Simple, useful
- Double-wall functional construction
- The highest protection against corrosion
- Perfect protection against weather
- PUR non-porous gasket suitable for extreme temperature ranges
- High Stability for earthquake zones by Bellcore GR-63-CORE Zone 3 (Zone 4 upon request)





- Stainless steel frame and plinth
- Aluminum casing
- PUR sealing IP66





Frame construction - 2 mm thick welded stainless steel with perforation



PUR non-porous gasket – operation temperature – 40 to + 60 ℃

Mounting covers with clips that

ensure maximum pressure on the

seal



Vandal proof – side panels, rear panel and roof are screwed from the inside. The front door has hidden hinges and a metal handle



- Free standing enclosure
- Possible to row installation
- Possible to place at concrete plinth







- 19'' extrusions
- Mounting plate
- > System rails











Climate control of Outdoor cabinets

Natural vented solution

Forced ventilation fan solution

Cooling unit









Climate control of Outdoor cabinets

- Ventilation of side panels
- Perforated roof with ventilation unit
- Cooling unit
- Thermoelectric unit Peltier
- Heating unit

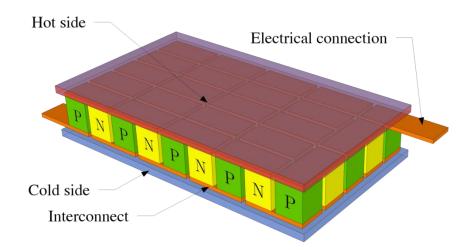






Thermoelectric Unit

- Peltier effect
- Electric potential creates a temperature difference
- Used material is bismuth telluride







Calculation for optimal solution design

Rozměry skříně		Parametry			
Výška:	1600 mm	Ztrátový výkon instalovaného zařízení:	410 w		
Šiřka:	1000 mm	Hmotnost instalovaného zařízení:	100 kg		
Hloubka:	800 mm	Min. požadovaná vnitřní teplota:	20 °C		
		Max. požadovaná vnitřní teplota:	45 °C		
		Lokalita umistění:	Česká republika – Praha 🛛 🗸		

Cabinet Dimenssions		Parameters				
Height:	1200	mm	Heat dissipation of installed equipment:	2700	w	
Width:	800	mm	Weight of installed equipment:	100	kg	
Depth:	800	mm	Min. required internal temperature:	0	*C	
			Max. required internal temperature:	40	*C	
			Location:	Czech	Republic – Prague	~

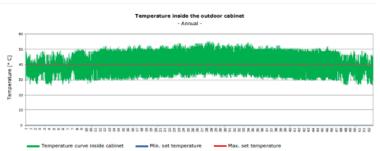
Vypočtené hodnoty

Požadovaný výkon pro topnou a chladicí jednotku

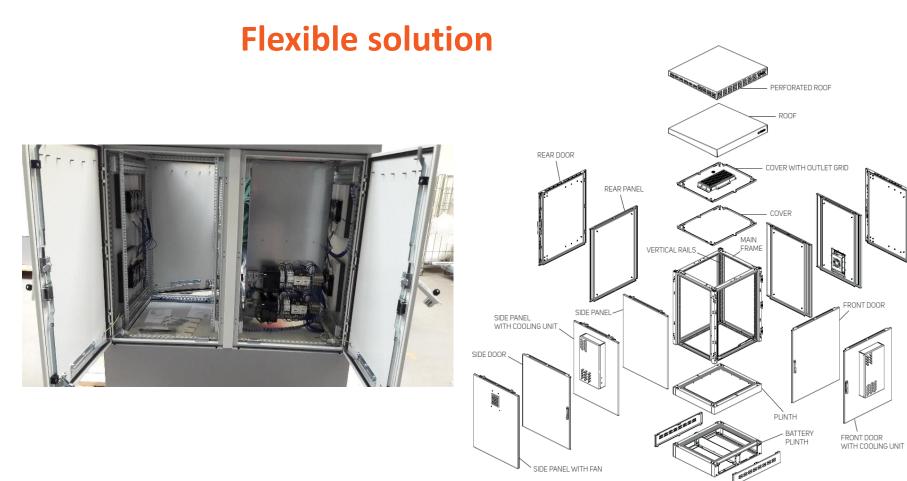
Spotřeba pro vytápění:	0	kWh	Topný výkon:	w
Počet hodin překročení dané min. teploty:	4273	h	Chladicí výkon:	w
Procento času:	49	%		
Spotřeba pro chlazení:	0	kWh		
Počet hodin překročení dané max. teploty:	40	h		
Procento času:	0	%		



Results Required capacity of heating and cooling unit Power consumption for heating: 0 kWh Thermal output: w Number of hours exceeding the min. h Cooling capacity: 3000 0 w temperature: Time percentage in year: 96 0 Power consumption for cooling: 15734 kwh Number of hours exceeding the max. 4279 h temperature: Time percentage in year: 49



CONTEG





outTEG LITE

- Double wall
- IP 65
- 🔰 IK 10
- Light aluminium construction
- Anti-vandal solution









outTEG LITE

- Pole mount
- > Wall mount
- Installation on the plinth

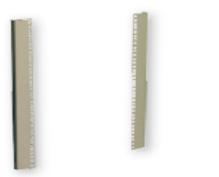




outTEG LITE

- > 19'' extrusion
- Mounting plate
- > System rails







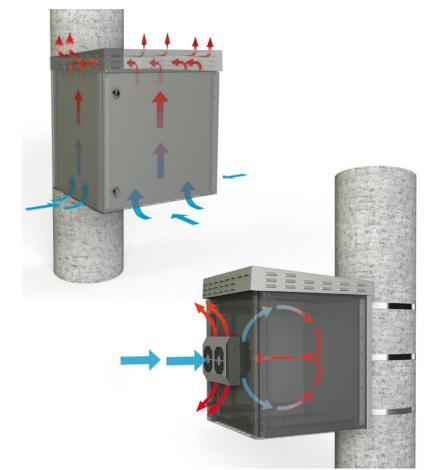




Climate control of OutTEG LITE

- Natural ventilation
- Thermoelectric unit



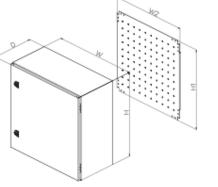


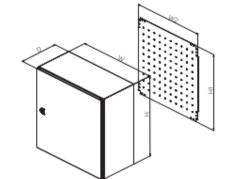


outTEG Wall Mount Enclosure WME-O

- Clean design thanks to laser welding
- 28 sizes from 300×200×155 mm all the way up to 1200×800×400 mm
- One-door version
- Stainless steel
- Powder coated stainless steel
- Maximum mounting plate size
- Standard gear mounting plate with a 50 × 50 mm marked raster for all types
- Outdoor use
- Norm EN 62208, IP66











Traffic Control

- Double-walled
- Thermoelectric unit for cooling and heating (200 W)





Control Cabinet

- Double-Walled
- Thermoelectric unit with regulator for cooling or heating







Air Traffic Management

- Double-walled
- Customized cover
- Battery plinth
- Free-standing
- > Wall mount







- Double-walled
- Outdoor AC unit
- Customized









- Assembled in row
- Battery plinth
- Forced ventilation

























C∗ Traffic Control

- Forced natural ventilation walls
- 🕨 IP 66
- Internal temp. is lower by 10%
- Cabinet usable without AC unit (savings = no input investment and operation energy)









Traffic Control

- Royal Police Oman
- AC unit internal mounting position











Telecom

AC unit – external mounting position







Measuring of air pollution

Not only for electrical or IT applications









Airport

- Robust construction
- "Truck" protection
- After a collision with a truck, equipment OK, we delivered only new cabinet









Compression stations for gas line

- Forced ventilation
- Battery plinth









Internet

- Assembled in row
- Front nad rear doors









2018 FIFA World Cup

- Thermoelectric units 4 x 200 W
- Control and regulation cooling / heating
- 2 compartments, 4 doors

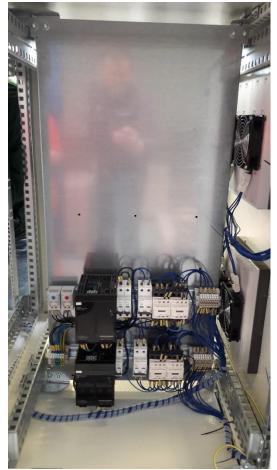






2018 FIFA World Cup









Prague Wilson Railway Station









Modification











www.conteg.cz