Ministry of Interior
United Arab Emirates

MFTC-45-2017

Naderer
Firetrainer

Mobile Fire Training Container 2017 Abu Dhabi UAE

Mobile Fire Training Container
MFTC-45-2017

Technical Data

- Length: 13,5m
- Three-axle Semitrailer
- Systemhight: 4,0m
- Gross weight Container: 12.800 kg
- Unloaden weight Semitrailer: 5.950 kg
- Gross Systemweight: 18.750 kg
- Max. Power consumption: 400V / 32A
- Power supply current fire places: 24V
- Operating pressure LPG: ~ 2 bar after gas control line in technical room
- Max. water drainage: 400L/min
- Material Container: Corten-Steel
- Material Isolation: Aestuver 20mm
- Material Super structures: stainless steel
- Material fire places: stainless steel
- Programmable Logic Controller system
- Number of fire places: 6

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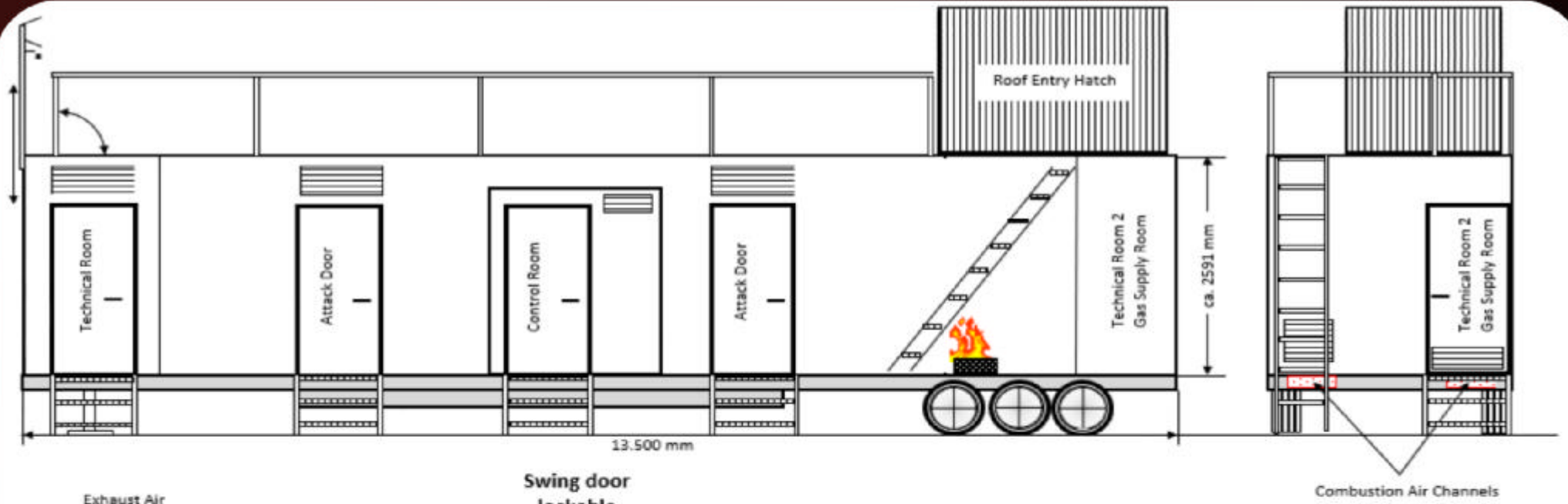

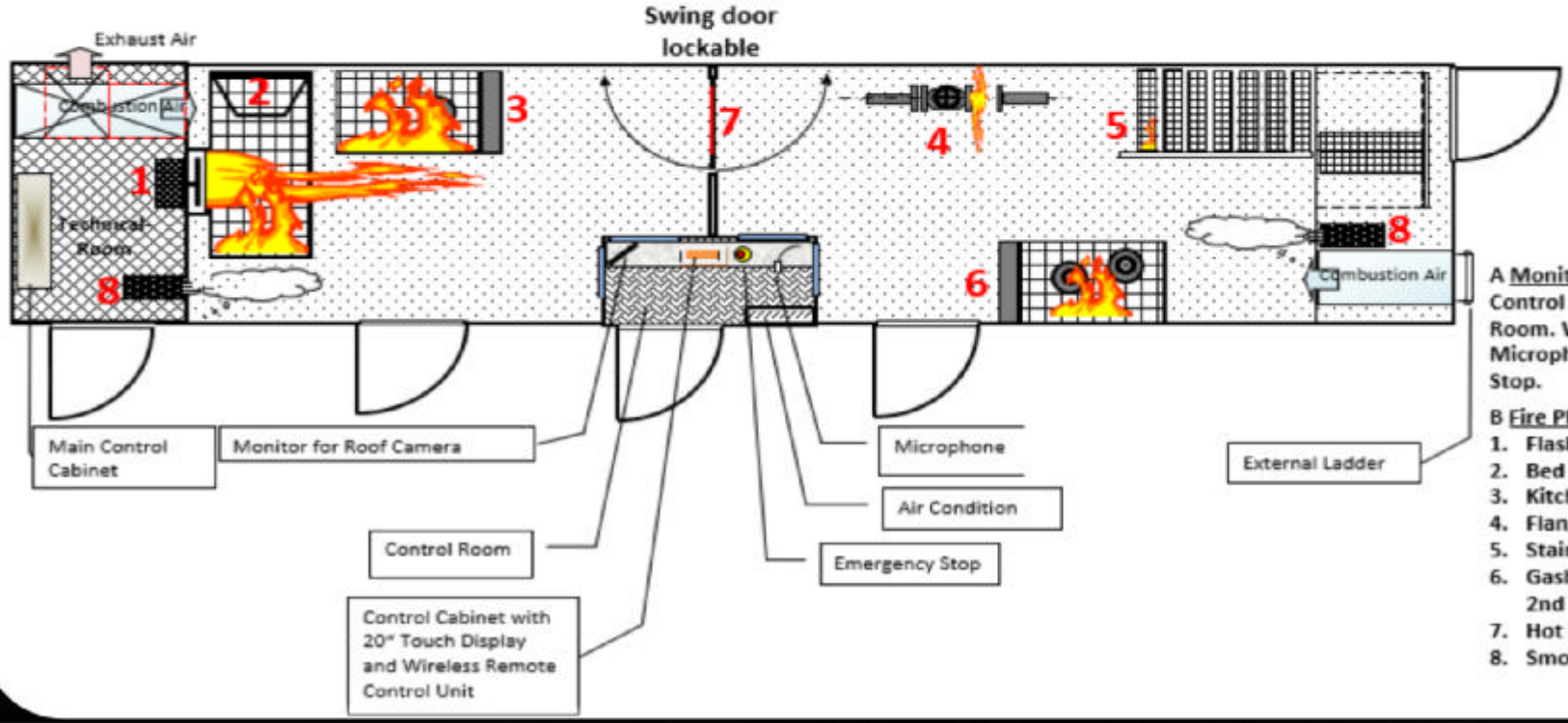

A Monitoring
Control Cabinet (Touch-Display) in Control Room. Wireless Remote Control Unit. Microphone, Air Condition and Emergency Stop.

B Fire Places and Accessories

1. Flashover
2. Bed or Sofa fir
3. Kitchen fire with Frying Pan
4. Flange fire (activ valve)
5. Staircase fire
6. Gasbottle fire (1 Gasbottle activ with Valve. 2nd Gasbottle inaktiv, (for recuperation)
7. Hot Door (electrically heated)
8. Smoke Generators

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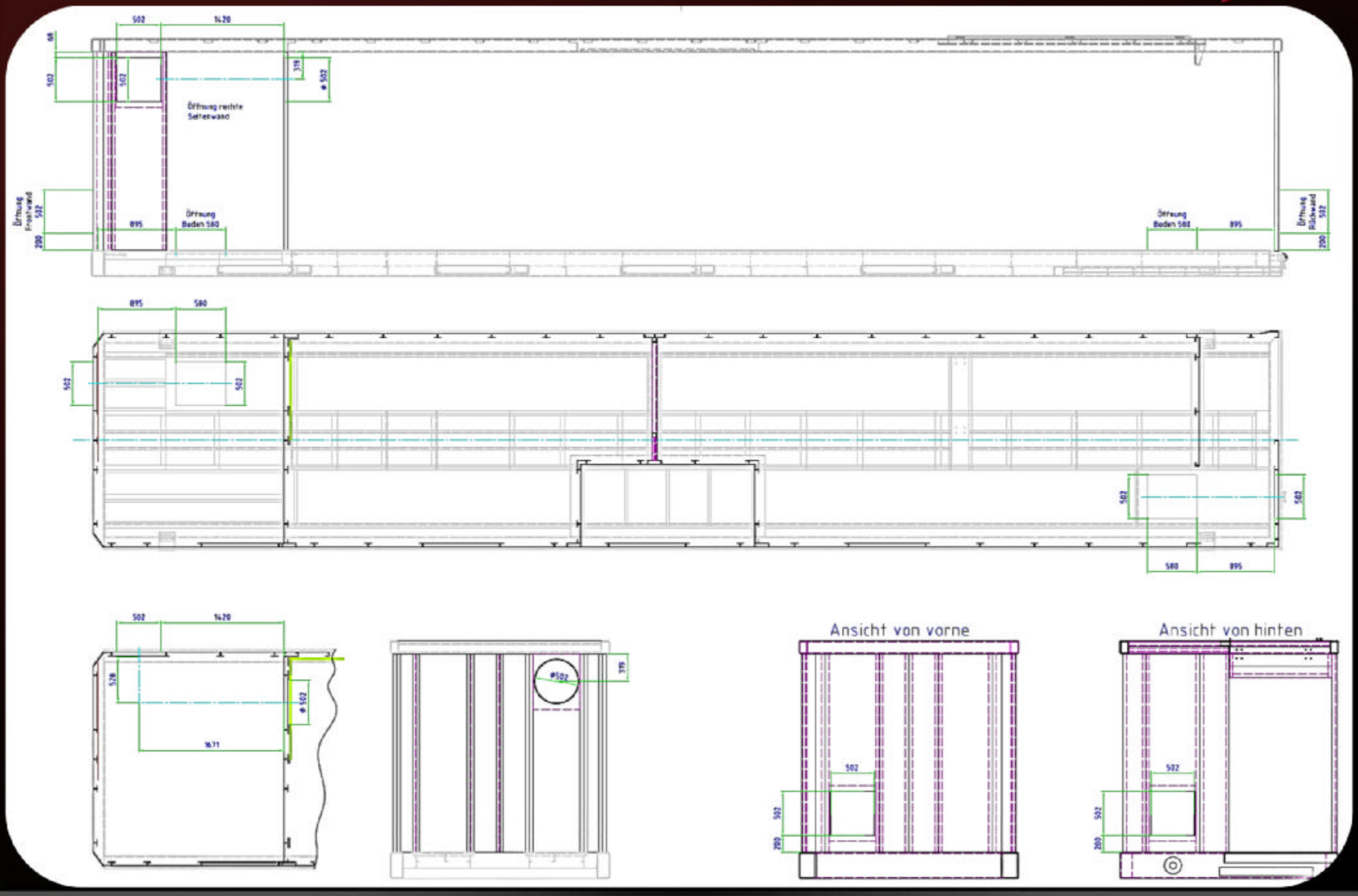

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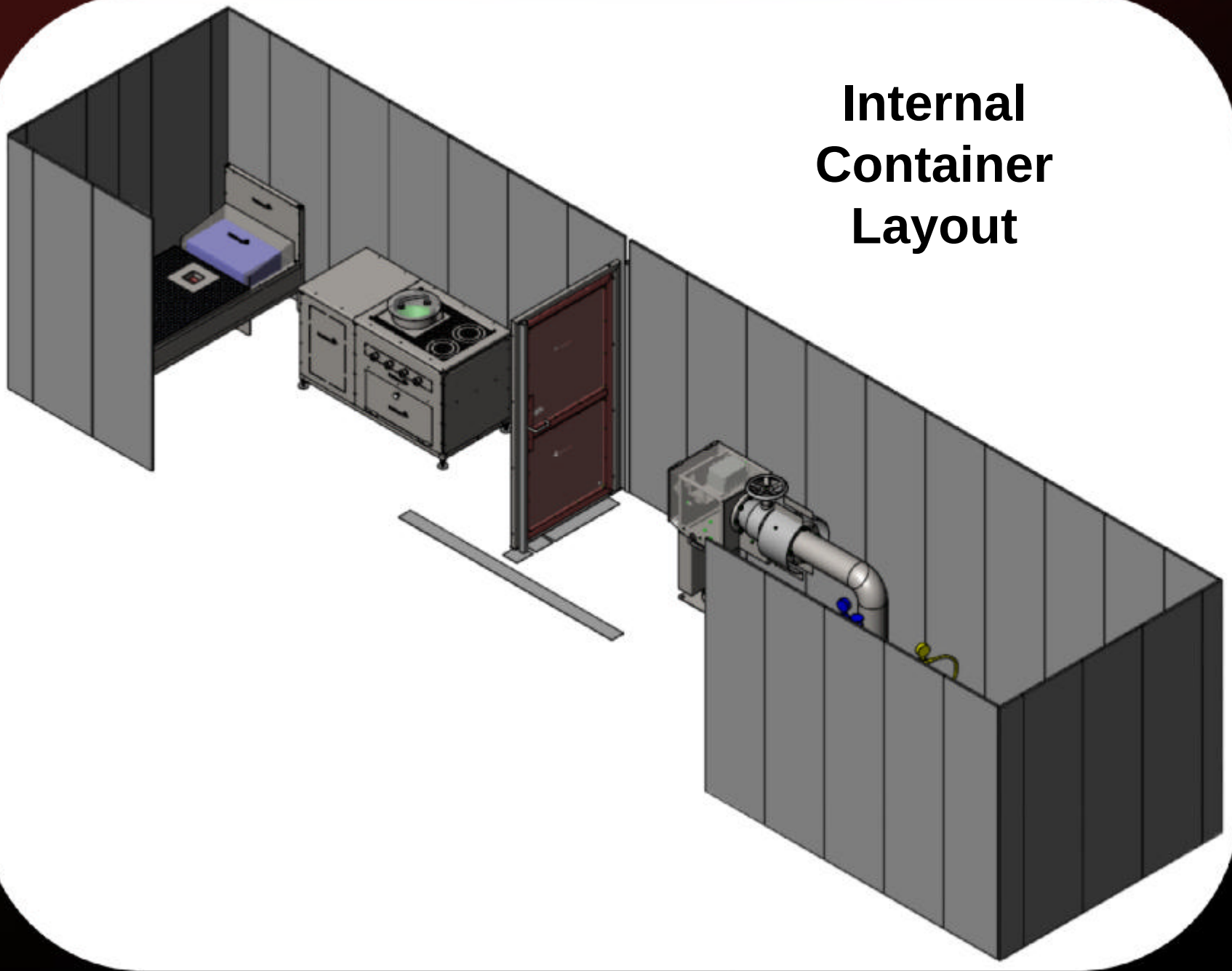
Internal Container Layout



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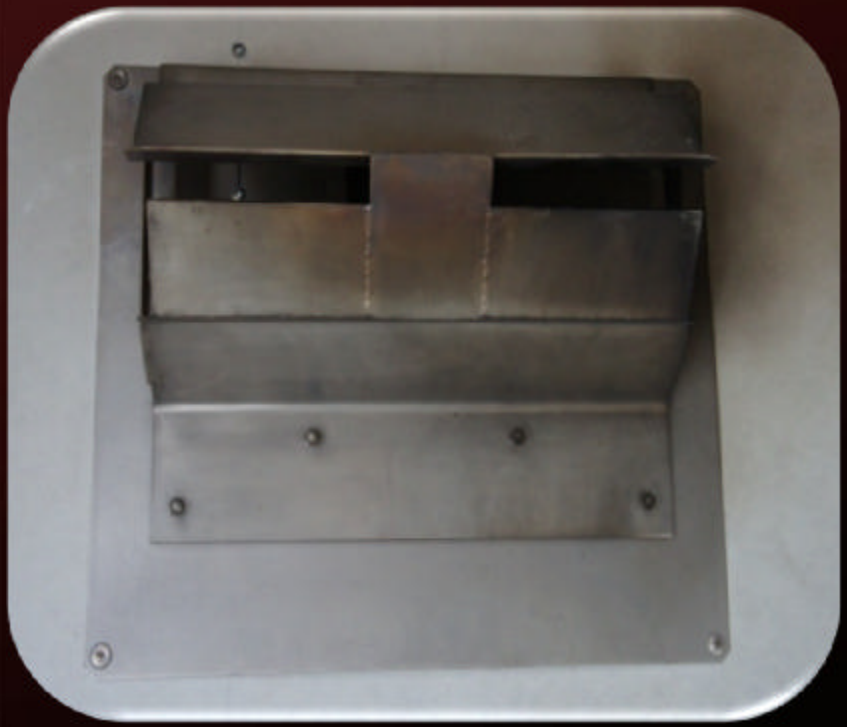
3 retractable stairs with foldable railing on the left hand side and one on the rear to the gas supply room

1 foldable ladder for Roof entry

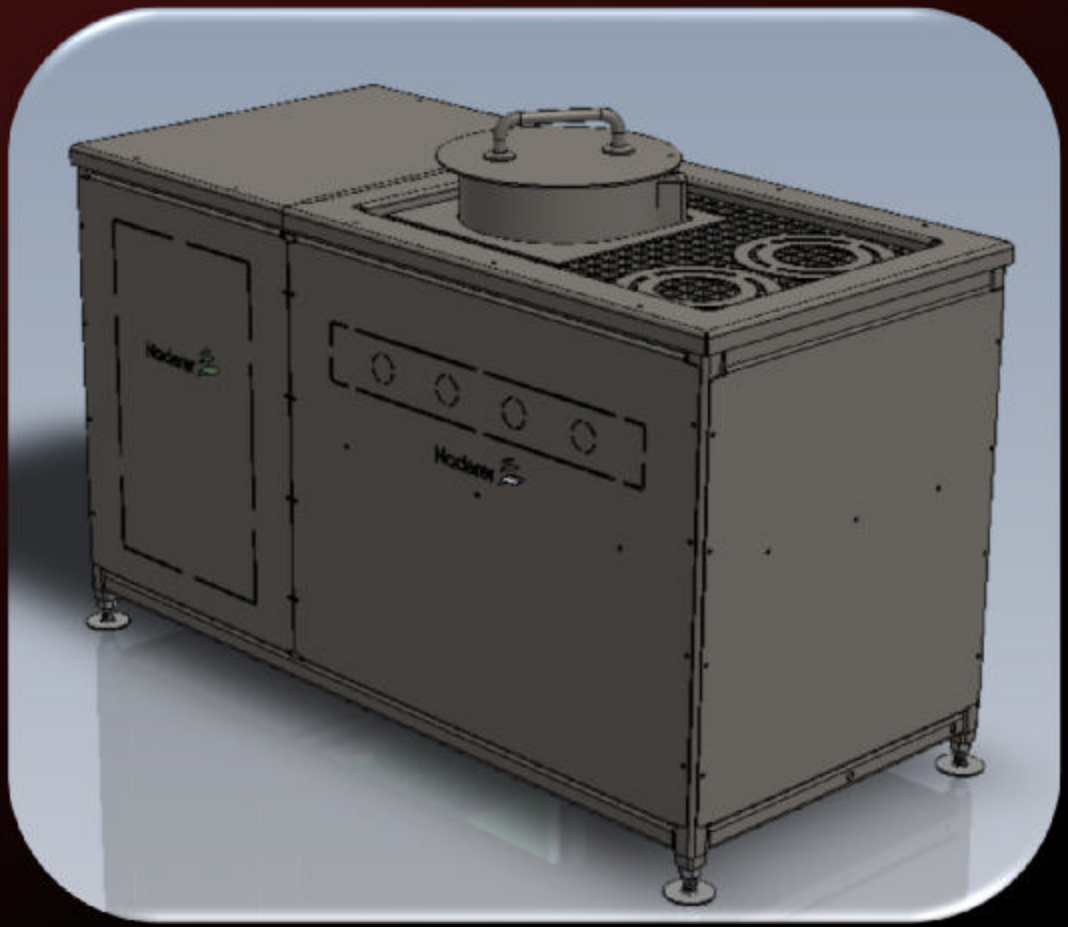
Fireplaces



Flashover

Bed Fire

Fireplaces



Kitchen / Frying Pan Fire

Flange Fire

Fireplaces

Gasbottle Valve/Hose Fire

Staircase Fire

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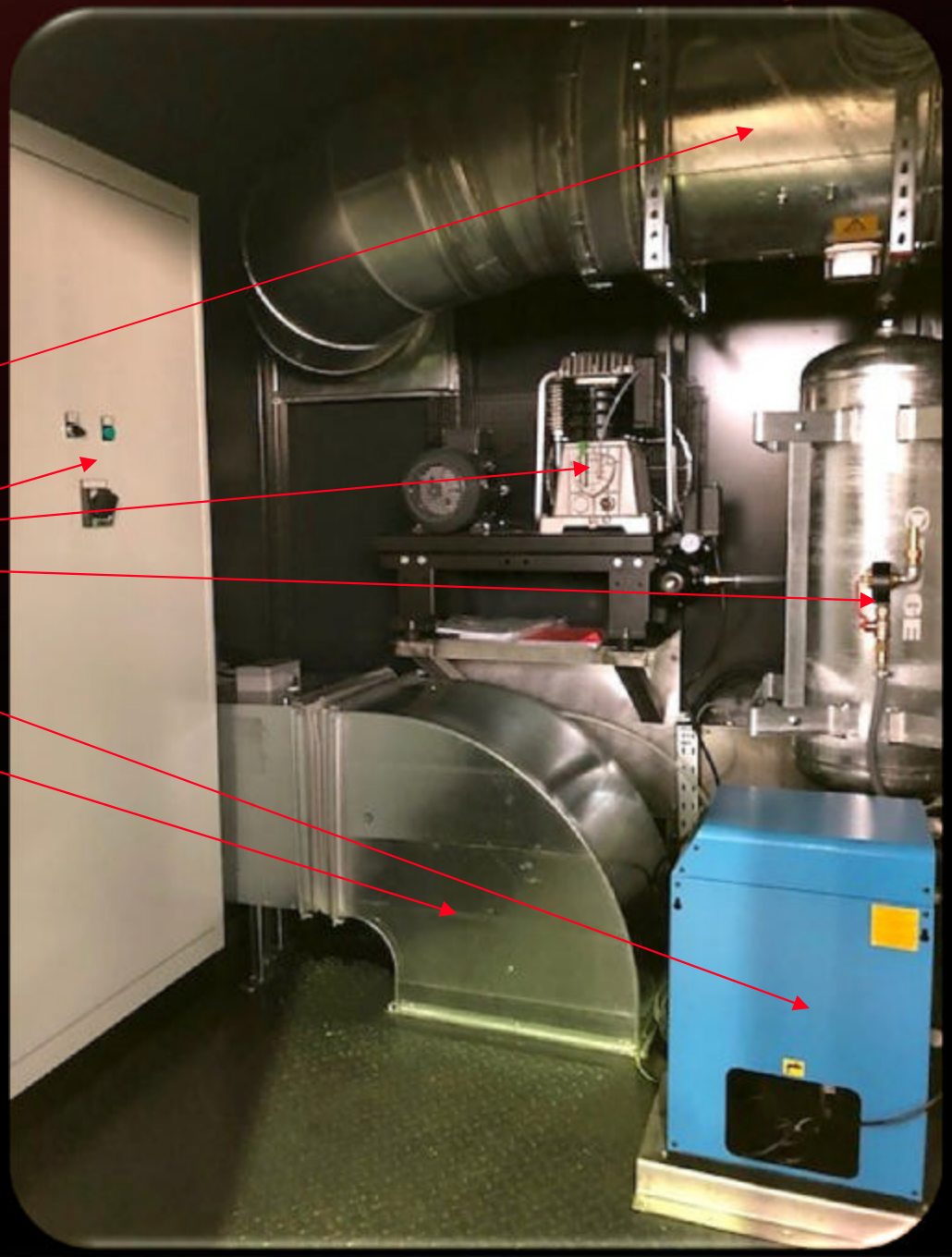
Technical Room 1

- Exhaust Air Ventilator
- Electronic System Cabinet
- Compressor:
  combustion air to pilot burners
  «forced to supply»
- Combustion Air Ventilator



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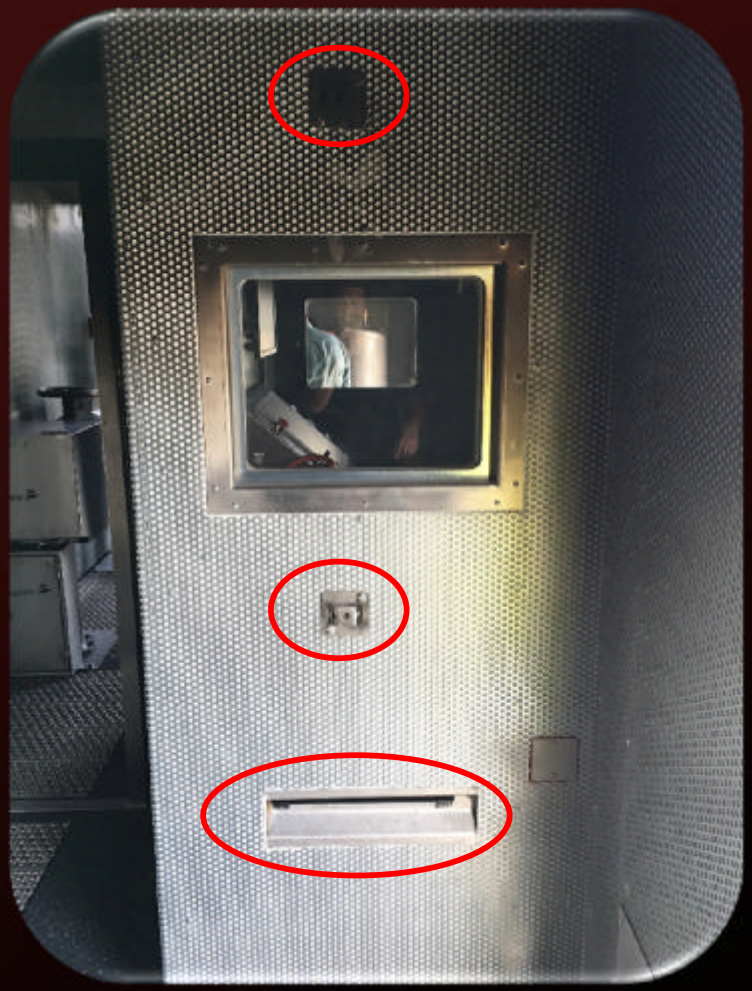

Safety Systems:

- Gas monitoring fire room & Gas Supply Room
- Emergency Stops
- Fire Room Temperature Sensors
- Emergency LED-Lights

Gas Monitoring System

- Infrared Sensor (Fire Rooms)
- double (redundant) IR-Source
- heated Optics
- simple Calibration
- low maintenance
- Pellistor Sensor in Gas Supply Room

Gas Supply

Gas Bottles in Technical Room 2

- 8 Forklift gas bottles 11 kg or
- LPG gas bottles 33 kg

FAS Vaporizer

- Performance 32kg/h
- Power consumption 18 kW

Projekt: Mobile Fire Training Container
Civil Defence, Abu Dhabi, United Arab Emirates

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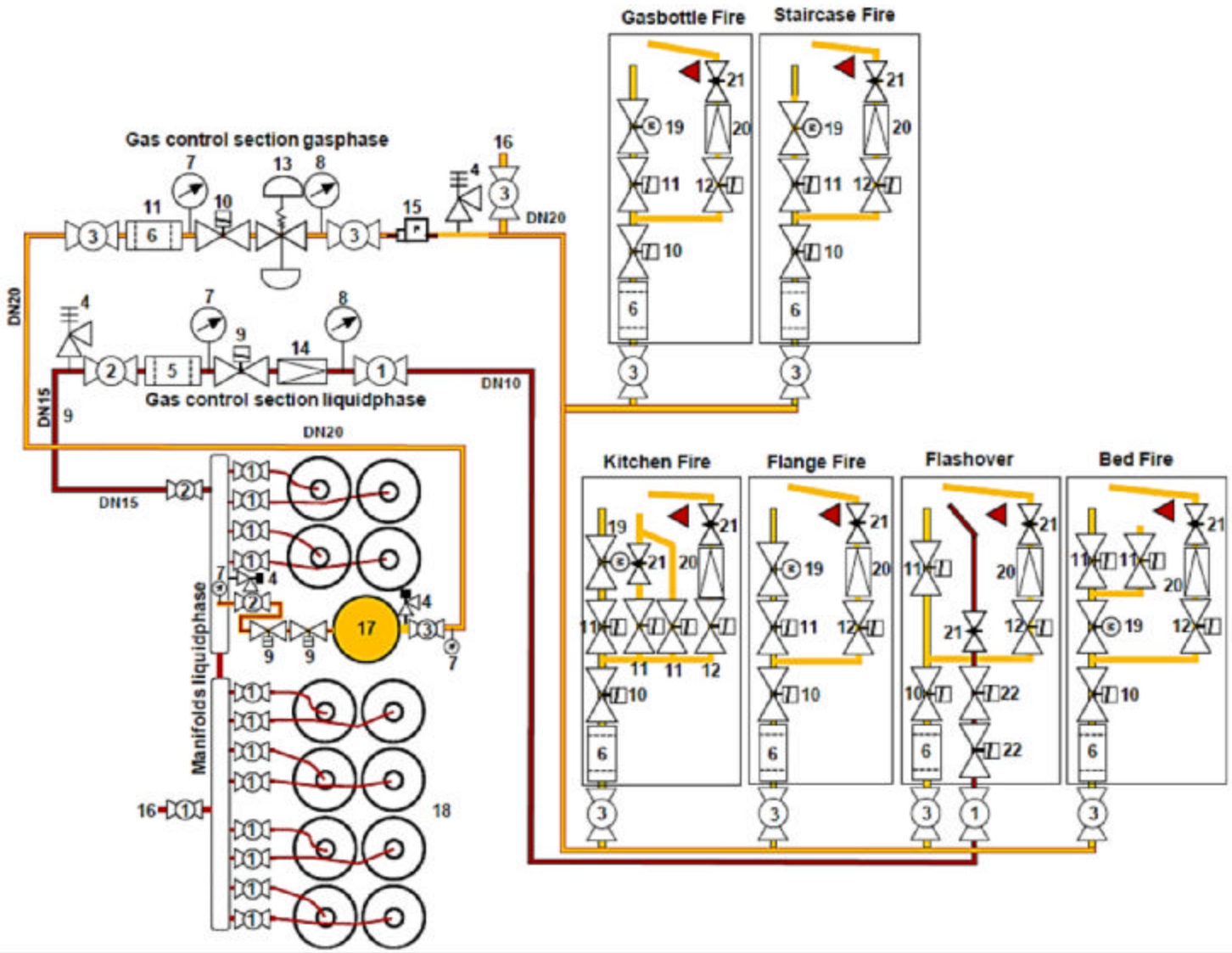
Gasinstallation Layout MFTC-45-2017



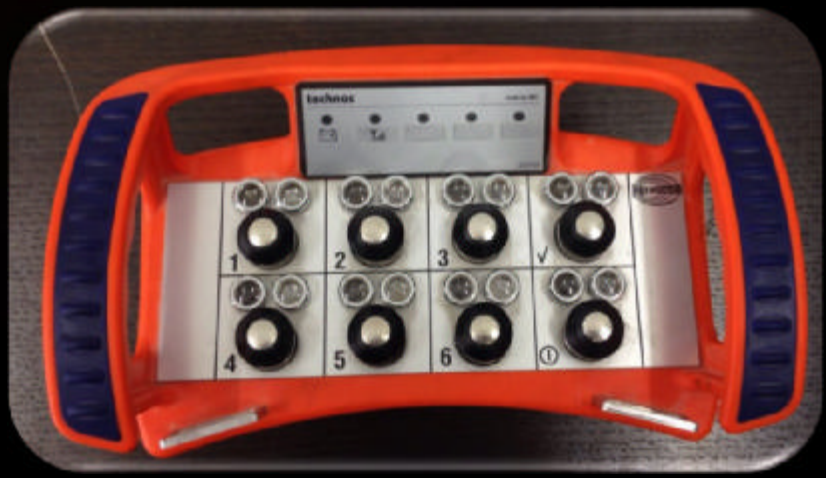
Gas Appliances

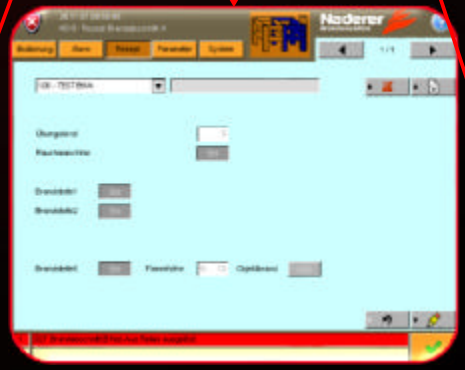
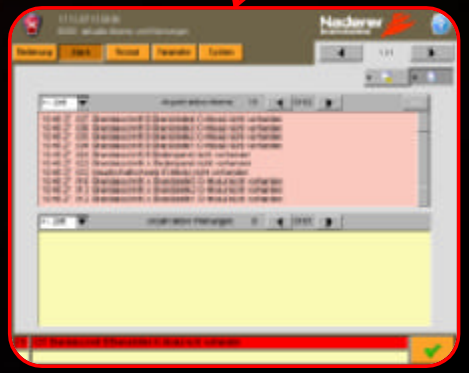
1 Liquid gas ball valve with lever DN10
2 Liquid gas ball valve with lever DN15
3 Gas ball valve with lever DN20
4 Safety valve 3129 15.6 bar
5 Gasfilter liquidphase DN15
6 Gasfilter gasphase DN20
7 Manometer 0-16 bar
8 Manometer 0-6 bar
9 Solenoid valve,piston, G1/2",Typ 8670
10 Solenoid valve,membrane, G3/4",Typ 8209
11 Solenoid valve,membrane, G1/2",Typ 8209
12 Solenoid valve,membrane, G3/8",Typ 8209
13 Gas pressure regulator VSR 0137
14 Liquid gas pressure regulator, REGO-1586VH
15 Pressure switch, JUMO-MIDAS 401001
16 Pressure release line, "to the outside"
17 Vaporizer, FAS2000, 32 kg/h
18 Gas bottles, 11.5kg, with immersion tube
19 Gas motor valve, G1/2",Typ 8288
20 Gas pressure regulator,11-stages,type 016
21 Gas needle valve, 8mm
22 Solenoid valve,piston, G3/8",Typ 8670
◀ Flame scanner

Gasinstallation Layout

Plant Control System

Bernecker & Rainer Components
HBC Radiomatic Remote Control Unit
Touch screen operation



Plant Control System

Operation control station - navigation