

Technology containers for gensets - LIGHT

Door systems

- Single-wing and two-wing (with a fixed column) doors with stainless hinges; the interior side with galvanized metal sheets with insulation. A steel doorframe is fitted with circumferential seals.
- Closing by means of a stainless external lever closing device with guiding sleeves and a special locking mechanism without a requirement for a safety class. Locking is possible with a common key.



Electrical installation

Internal electrical installation consists of 2 fluorescent lamps – 2 x 58 W, switchboard for autonomous consumption, 230V power outlet, a switch at each door, 2 stop buttons – type with a cap and plate without locking. Four grounding bolts fitted in longitudinal beams in the floor.

Accessories included

- Dielectric carpet
- Fire extinguishers
- Ear protectors
- Safety signs
- Plastic container for deaerating the engine crankcase, plastic container for trapping the coolant from the engine cooler overflow



Lighting: Each delivery contains basic industrial lamps to light the space for the operators. On request the system can be equipped also with emergency lighting in case of power failure.



Accessories not included:

- Access steps depending on the installation height
- Fire resistance of the container
- Panic exit devices
- Louvers at the suction and discharge of cooling air
- Superstructures a front one (recommended) or a roof one



Closing suction louvers: The suction section may be equipped with closing louvers with a servomotor. The louvers prevent autonomous ventilation, especial under winter adverse climatic conditions (delivered on request).



Access steps: The containers are by default prepared for installing access steps. The height of such steps is always designed to a specific building situation. The step design is anti-slip; the surface treatment is hot-dip galvanizing.



Representation:



In order to achieve higher

attenuation or due to

cooling, a suction

be installed.

superstructure may

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The containers are designed as a welded steel structure of rolled and bent steel profiles. Their wall and roof are made of profiled steel sheets, wall thickness of 1.6 mm or 2.0 mm.

The container interior is provided with noise insulation in thicknesses varying according to the version. The floor is fitted with a bushing for connecting power cables; the bushing is not insulated in terms of noise or fire. The genset is bedded longitudinally on the container axis; its position matching the drawing documentation. Outlets are made leading from the genset; they are intended for discharging oil and coolant through the container wall. The outlets are in the form of threaded couplings, they are fitted with a cap and the respective liquid is marked. The interior connection is made through a rubber oilresistant hose fitted with a ball valve.

The interior contains an exhaust silencer. The surface coat is made in accordance with ISO 12944-2, class C5, with high resistance to the weather.

Container type	ISO 20' HC	ISO 40' HC
External dimensions (L \times W \times H, mm)	6058 × 2438 × 2896	12192 × 2438 × 2896



ISO 20' HC

The container is designed for gensets of up to 700 kVA, max. attenuation to 75db(A)/7m. Both the container faces are fitted with louvers; the container has 3 doors.

ISO 40' HC

The container is designed for gensets of up to 1500 kVA, max. attenuation to 75db(A)/7m Both the container faces are fitted with louvers; the container has 5 doors.



ISO container corner castings: Certified ISO container corner castings are used by default to facilitate handling. The bottom or top part can be used for handling (acc. to container weight)



Door closing: The access door is equipped with a lever closing mechanism, including a stainless closing device.



Grounding points: By default, the container frame is fitted with galvanized grounding points for protective connections.

System of ventilation openings + noise silencers

The suction of cooling air is led through an insulated suction chamber, without a gravitational or motor-driven valve. Cooling air is discharged through an insulated discharge chamber, without a gravitational or motor-driven valve.



form a tight vat preventing leaks of any liquids to the environment.

Floor designs

The floor metal sheets are oil-tight welded and they form, together with a rim, a vat of 100 mm in height with a collection sump next to the service door. The floor colour is black (RAL 9005). The frame structure consists of a circumferential frame welded of steel profiles and transverse floor beams made of "I" or "U" profiles.

The floor space is insulated in terms of heat and noise; insulation thickness of 100-140 mm. The bottom cover is made of galvanized metal sheets.

Fuel handling

The container contains a double-shell fuel tank of a square/rectangular ground plan. Capacity: 20' without the tank / 40' 1000 |

Basic equipment: Electronic fuel gauge, inter-shell space tightness sensor, filling mouth, cleaning opening, fuel suction and overflow fittings. The tank is filled inside the container via an opened door. The sensors and fittings are provided with plastic plates. Ventilation of a standby tank outside the container interior is ensured by an anti-explosion safety device (made by Adast).



Anti-explosion safety device:

The diesel tank is ventilated

to the container exterior.

The device is terminated

with a puncture-proof

antiexplosion piece.

Fuel gauge: The fuel tank equipment contains a fuel gauge indicating the fuel level. On request Modbus interface may be delivered for communication with a parent control system.





Ribbed metal: Ribbed anti-slip metal sheet.



Sensors: To indicate all the conditions of the fuel tank, it is equipped with sensors. In the tank there is always a sensor to indicate the inter-shell condition and a capacity sensor to detect the fuel level (an ultrasound one on request). The floor sump is equipped with a flooding sensor to indicate any genset liquid/fuel leaks.