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QVR Container Specification

FG Wilson is leading the power generation marketplace with Packaged Generating Sets engineered to deliver unmatched flexibility, expandability, reliability and cost-effectiveness.

Standard Features

Container:

- Container designed to achieve a noise level of
70 dBA at 1m 85 dBA at 1m
75 dBA at 1m 89 dBA at 1m
80 dBA at 1m
- Robustly constructed walk-in enclosure designed to provide the necessary weather protection, sound attenuation and ventilation for the generator and switchgear
- Container dimensions –

QVR20	20' x 8' x 8'6"
QVR30	30' x 8' x 8'6"
QVR40	40' x 8' x 8'6"
QVR40HC	40' x 8' x 9'6" (High Cube)
- All containers are designed and constructed in accordance with ISO 668 Series 1 freight containers – classification, dimensions and ratings
- Corner fittings to ISO 1161, providing four point lifting capability for full wet weight
- Two personnel access doors (1 per side) complete with internal panic release buttons. Black 'Slam' type door handles, stainless steel hinges and leather check strap fitted to each door
- External emergency stop buttons located at each container side
- Internal lighting – one emergency DC 'bulkhead' light complete with push type timer switch located at personnel door (1 per side)
- Internal AC/DC bulkhead lights above each door (1 set per side)
- All external fixings in stainless steel
- Power cable exit via a non-ferrous gland plate in container wall or floor
- CSC container plating in accordance with ISO 1496-4 Series 1 freight containers – specification and testing (up to 6 high for stacking for shipping)
- Fully sealed container floor with spill containment of engine oil, coolant and onboard fuel
- External facility for service connections for lube oil and coolant drains mounted on the side of the container
- External facility for fuel supply and return connections mounted on container sidewall
- All noise levels are determined by testing in accordance with ISO 3744
- Containers will be certified and labelled with LWA level in accordance with EC Directive 2000/14/EC.

Container Construction:

The container is constructed from structural mild steel and Electro-Zinc coated steel sheet. All structural steel is shot blasted and pre primed with zinc phosphate primer.

All welding is carried out in accordance with Lloyds approved procedures for MIG and MMA.

Floor:

The floor comprises an appropriately sized structural steel frame manufactured from a range of standard structural section and folded sheet components, which is then sheeted with 3mm steel plate coated with anti-slip paint.

Walls:

The walls are constructed from structural steel and corrugated steel sheets for stiffness. The walls are acoustically lined and faced with galvanised expanded metal sheets.

Roof:

The roof is constructed from a framework of structural steel, which is covered by fully welded steel sheets. The roof is acoustically lined and faced with galvanised expanded metal sheets.

Acoustic Attenuation:

The acoustic attenuation comprises of Rockwool for sound absorption, a resin bonded mineral fibre, which is non-hygroscopic, and non-combustible complying with BS476.4 (or equivalent) standard.

Paint Finish/Colour: RAL9001:

The high performance 2-pack primer/finish paint system provides a gloss finish of 150 microns dry film thickness. Although it can be applied to a variety of surfaces, it has been specifically developed to adhere to Galvatite and Zintec substrates.

This isocyanate-free product offers excellent corrosion protection and superior colour and gloss retention in exposed and polluted coastal environments.

Exhaust Silencers:

The exhaust silencers are mounted internally and are fabricated in mild steel. All external silencer surfaces and pipework are grit blasted, aluminium metal sprayed and sealed with high temperature aluminium paint. Internal exhaust pipework is lagged.

Louvres:

All inlet louvres are constructed from steel sheet. They are attached to a fully welded frame using steel rivets. The louvres have a folded lip at the front to prevent water ingress and an incorporated mesh at the back to prevent bird and vermin ingress. The louvre assembly is attached to the container using stainless steel secure fixings and can be fully removed (where appropriate) to allow for major servicing.

Doors:

Container personnel access doors are 775mm wide by 1950mm tall. They are constructed from steel sheet and are acoustically lined. Each door has two 'Stedall' hinges and a single point 'Kason' secure door lock. All external door furniture is attached using stainless steel fixings. On the inside of the door there is a leather check strap and a luminous internal emergency door release.

Fuel Schematic: (optional break fuel tank 500 litres)

Please refer to MSH0830.

Lighting:

Each container will be supplied with an electrical lighting system comprising of two DC lights – one fitted each side over door and two AC lights – again, one fitted each side over door. Robust cable containment system will be supplied for protection of all lighting electrical cabling.

Weights:

Approximate container weight (excluding generator set).

- QVR20 = 5,200kg
- QVR30 = 7,000kg
- QVR40 = 10,900kg
- QVR40HC = 11,600kg

FG Wilson has manufacturing facilities in the following locations:

Northern Ireland • Brazil • China • India • USA

With headquarters in Northern Ireland, FG Wilson operates through a Global Dealer Network. To contact your local Sales Office please visit the FG Wilson website at www.FGWilson.com