

# Technical Data

## Gas Generator Specification

# QES 150

For any further information, please contact the Quantum Team by visiting our website at  
<https://www.quantumes.com/contact-us/>

### Basic technical data

Engine Manufacturer..... Quantum ES  
 Engine Model..... Q6.72TASI  
 No. Cylinders..... 6  
 Cycle..... Four Stroke  
 Induction system..... Turbocharged ACC  
 Compression ratio..... 13:1  
 Bore..... 105mm  
 Stroke..... 135mm  
 Cubic capacity..... 7.01 litres  
 Direction of rotation..... Clockwise  
 Firing order..... 1,5,3,6,2,4

### Overall dimensions

Height..... 2050mm  
 Length..... 3700mm  
 Width (including mounting brackets)..... 1100mm  
 Weight..... 920kg (approx.)

### Alternator

Manufacturer..... Mecc Alte  
 Phase..... 3 phase  
 Voltage..... 400V  
 Assumed Power Factor..... 1

Designation	Units	50Hz	60Hz
Fuel Type		Natural	-
Electrical output prime	kW(e)	120	-
Electrical output stand-by	kW(e)	TBA	-
Recoverable heat	kW(th)	-	-
Exhaust gas flow	Kg/hr	-	-
Exhaust gas outlet temperature	°C	450	-
Voltage	V	400	-
Power factor	Pf	0.8	-
Power output prime	kVA	150	-
Power output stand-by	kVA	-	-
Actual alternator efficiency	% @ pf 1	>90	-

### Control Panel

- Sheet metal enclosure mounted within and forming an integral part of the canopy (1000x800x210mm). PLC based system enables auto and manual control for start/stop, voltage control, mains synchronisation, load control, remote control data access through ethernet, HMI graphic interface to view and set parameters.

### Engine control

- Start/stop, engine speed control, monitoring for engine coolant inlet and outlet temperatures and exhaust temperature.

### Alternator control

- Control of the alternator mounted AVR for voltage output, power output and Power Factor.

### Connection

Gas Connection..... 1 ½ "BSP



### Construction

- Rigid base frame made of profiled steel.
- Direct coupled engine and generator assembly with flexible drive plate.
- Engine generator assembly flexibly mounted on the base frame.
- Electrical equipment installed in a sheet steel cabinet that forms an integral part of the canopy.
- Air movement within the canopy controlled by a engine driven fan.
- All connection points at one end of the canopy.
- Primary exhaust silencer mounted within the canopy with a vertical exit at the end.

### Canopy (optional)

- Highly effective sound enclosure in packs of sheet steel construction, powder coated. Air passages acoustically lined and waterproof.

### Exhaust System

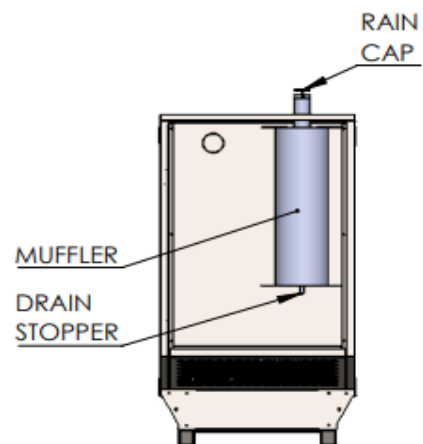
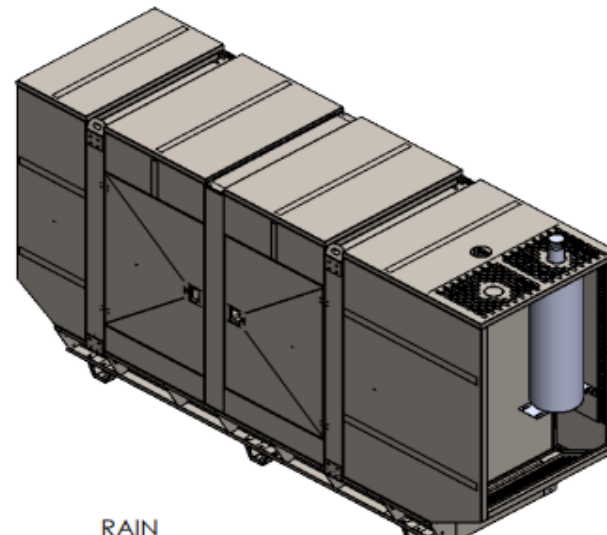
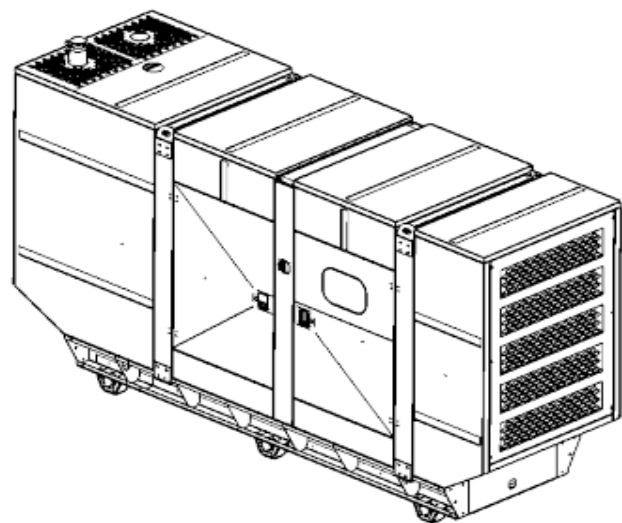
- Steel mounted within the canopy.
- The lubrication system comprises a wet sump system with full flow oil pump

### Emergency stop

- Canopy mounted push button with external link.

### Emissions (optional)

- Standard 3 way catalyst can be add at time of order to reduce the NOX and CO2 for site requirement or regulation (naturally aspirated)
- For turbocharged or lean-burn engines SCR low NOX systems can be added.



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