

# QAS 250-330 MTU T4F

## Mobile Generator



### Standard Scope of Supply

The Atlas Copco **QAS 250 & QAS 330 MTU T4F** generators are prime power, multi-voltage, sound attenuated, mobile generators. They are powered by a MTU T4 Final liquid-cooled, six cylinder diesel engine.

The units consist of an alternator, diesel engine, cooling system, electrical distribution and control systems - all enclosed within a sound attenuated enclosure fabricated from zinc rich primer, powder coated enclosure

A broad range of undercarriage formats and options are available.

Special attention has been given to the overall product quality, user friendliness, ease of serviceability, and economical operation to ensure best in class total cost of ownership.

### Available Models

|             |  |
|-------------|--|
| QAS 250 MTU | Multiple voltage – 250kVA prime power – MTU engine |
| QAS 330 MTU | Multiple voltage – 330kVA prime power – MTU engine |

### Standard Features

- Compact, sound attenuated, corrosion resistant, with single point lifting and 110% fluid containment
- Available as a skid mounted unit with forklift pockets, or on a dual axle trailer
- Heavy Duty alternator with AREP excitation and marine grade protection
- Single side service with long run filters and 500 hour service intervals
- Extremely reliable and durable MTU 6R1100 T4F engine
- Identical enclosures and maintenance points between all three models
- Emergency Stop
- Remote Start / Stop

### Benefits

- Extremely durable and environmentally sensitive, designed to be used for everything from the oil patch to special event power
- Versatility, giving you the flexibility to match your machine to the correct application
- Start-up power for the most demanding sites with 300% over load starting capabilities
- Heavy duty oil, air and fuel filters extend the maintenance interval to 500 hours for reduced total cost of ownership
- Reduces maintenance costs with long intervals easy access for mechanics
- Proven engine platform with high reliability
- Reduces stock of service kits and inventory of parts with rental ROI kept in mind
- External, recessed emergency stop for increased safety
- Allows connection as a critical back-up unit via a 2 wire dry contact connection in the distribution panel

Technical Data<sup>1</sup>

| Generator   | Units       | QAS 250 MD                                      | QAS 330 MD  |
|---|-------------|---|-------------|
| Rated Prime Power 3Ø  | kW / kVA    | 200/250   | 264/330     |
| Rated Standby Power 3Ø  | kW / kVA    | 220/275   | 290/363     |
| 3Ø Power Factor   |             | 0.8   |             |
| 3Ø Voltage In 480V Switch Position (Series Star w/ Neutral)       | V           | 480Y/277  |             |
| Amp Capacity @ 480V   | A           | 301   | 397         |
| 3Ø Voltage In 240-208V Switch Position (Parallel Star w/ Neutral) | V           | 240YY/139 – 208YY/120                           |             |
| Amp Capacity @ 240V   | A           | 601   | 794         |
| Amp Capacity @ 208V   | A           | 694   | 877         |
| Rated Prime Power 1Ø  | kW / kVA    | 136/136   | 198/198     |
| 1Ø Power Factor   |             | 1.0   |             |
| 1Ø Voltage In 120-240V Switch Position (Zig-Zag)                  | V           | 240/120   |             |
| Amp Capacity @ 240V   | A           | 721   | 821         |
| Amp Capacity @ 120V   | A           | 721 x 2   | 821 x 2     |
| Alternator (4 Pole, 12 Wire)                                      | Leroy Somer | LSA 46.2 M5                                     | LSA 46.2 L9 |
| Excitation  |             | AREP  |             |
| Automatic Voltage Regulator (+/- 0.5%)                            | Leroy Somer | R438  |             |
| Insulation  |             | Class H   |             |
| Frequency   | Hz          | 60  |             |
| Amperage Capacity @ 400V 50HZ                                     | A           | 361   | 390         |
| Main Breaker - Shunt Trip   | A           | 600   | 1000        |
| Power Distribution – Terminal Board                               |             | 5 Wire (L1, L2, L3, N, Ground)                  |             |
| Terminal Board Connections  |             | Bare Wire Terminals                             |             |
| Maximum Terminal Cable Size                                       |             | 350MCM  |             |
| Convenience Receptacles <sup>2</sup>                              |             | 2 x NEMA 5-20R & 2 x 125/250V 50A CS6364 HUBBLL |             |

| Engine  | Units      | QAS 250 MD               | QAS 330 MD               |
|---|------------|--------------------------|--------------------------|
| Model   | MTU        | 6R1100                   | 6R1100                   |
| US EPA Tier   |            | Tier 4 Final             |                          |
| Displacement  | L          | 10.6                     |                          |
| Cylinders   | #          | 6                        |                          |
| Continuous Engine Power Output                                    | HP (kW)    | 268 (200)                | 429 (320)                |
| Rated Speed   | RPM        | 1800                     |                          |
| Engine Control  |            | ECU                      |                          |
| Aspiration  |            | Turbocharged intercooled | Turbocharged intercooled |
| Engine oil capacity <sup>3</sup>                                  | US Gal (L) | 9 (34)                   |                          |
| Engine coolant capacity   | US Gal (L) | 16 (61)                  |                          |
| Maximum Ambient Temperature (@ Sea Level) <sup>4</sup>            | °F (°C)    | 122 (50)                 |                          |
| Minimum Starting Temperature (Without cold weather options)       | °F (°C)    | 14 (-10)                 |                          |
| Minimum Starting Temperature (With cold weather kit) <sup>5</sup> | °F (°C)    | -4 (-25)                 |                          |
| Electrical System (Negative Ground)                               | V          | 24                       |                          |
| Engine Alternator Output  | A          | 100                      |                          |
| Battery Capacity (Cold Cranking Amps)                             | A          | 1100 x 2                 |                          |
| Sound Pressure Level @ 23'(7 m) @ 75% Load <sup>6</sup>           | dB(A)      | 73.                      |                          |

| Fuel System                           | Units            | QAS 250 MD                                | QAS 330 MD   |
|---------------------------------------|------------------|---|--------------|
| Fuel Consumption @ 0% load            | US Gal/hr (L/hr) | 3.39 (12.8)                               | 3.4 (12.8)   |
| Fuel Consumption @ 50% load           | US Gal/hr (L/hr) | 9.32 (35.3)                               | 10.2 (38.6)  |
| Fuel Consumption @ 75% load           | US Gal/hr (L/hr) | 11.86 (44.89)                             | 13.6 (51.48) |
| Fuel Consumption @ 100% load          | US Gal/hr (L/hr) | 14.4 (54.5)                               | 18.7 (70.78) |
| Fuel Type                             |                  | Ultra Low Sulfur Diesel ONLY <sup>7</sup> |              |
| Fuel Tank Capacity                    | US Gal (L)       | 440 (1665)                                | 440 (1665)   |
| Fuel Autonomy @ 75% load <sup>8</sup> | Hr               | 37  | 32           |
| DEF Tank Capacity                     | US Gal (L)       | 25(95)                                    | 25(95)       |
| DEF Autonomy @ 75% load <sup>8</sup>  | Hr               | 143                                       | 82           |

<sup>1</sup> All ratings are at a reference condition of 0' altitude and 20°C (68°F)

<sup>2</sup> Please see receptacle voltage configuration in Power Distribution section on page #5

<sup>3</sup> Engine oil to meet CJ-4 (low ash oil)

<sup>4</sup> Please see "Derate Table" for altitude and temperature calculations on page #4

<sup>5</sup> Cold start option comes with 120V block heater and 0W40 synthetic engine oil

<sup>6</sup> Measured in accordance with ISO 2151 under free field conditions @ 7m distance

<sup>7</sup> Engine and emissions require the use of Ultra Low Sulfur Diesel in accordance to ASTM-D975 Grade No.1-D S15 & No.2-D S15

<sup>8</sup> Based on 90% volume of fuel tank