QAS 95 & 125 MVTJD T4F

Mobile Generator



Standard Scope of Supply

The Atlas Copco QAS 95 & 125 MVT JD T4F generators are prime power, multi-voltage, sound attenuated, mobile generators. They are powered by an John Deere Tier 4 Final, liquid-cooled, four 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 powder coated steel with zinc rich primer. 1000 hr salt spray teste.

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 95 & 125 MVT JD T4F

Standard Features

- Compact, sound attenuated, corrosion resistant enclosure with single point lifting and 110% fluid containment
- Available as a skid mounted unit with forklift pockets, or on a single axle trailer
- Heavy Duty alternator with AREP excitation and marine grade protection
- "DeepSea" controller
- Single side servicing with long run filters and 500 hour service intervals
- Extremely reliable and durable John Deere 4045 engine with DOC & SCR after-treatment and 5 year limited warranty
- Identical enclosures and maintenance points between both models
- Emergency Stop
- Remote Start / Stop

Multiple voltage - 95-125 kVA prime power - John Deere engine

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
- Reliable and intuitive controls for ease of use and diagnostic capabilities
- Heavy duty oil, air and fuel filters extend themaintenance 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, a simple maintenance free Diesel Oxidization Catalyst onlyafter treatment
- 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



Performance		QAS 95 JD	QAS 125 JD
Frequency	Hz	60	60
Rated prime power 3ø 600V	kW/kVA	76 / 95	100 / 125
Rated standby power 3ø 600V	kW/kVA	83 / 104	110 / 137
3ø Power factor		0.8	0.8
3ø Voltage in 600V switch position (series star w/neutral)	V	600Y / 347	600Y / 347
Amp capacity @600V	A	94	120
3ø Voltage in 480V switch position (series star w/neutral)	V	480Y / 277	480Y / 277
Amp capacity @480V	A	109.5	120
3ø Voltage in 240 switch position (parallel star w/neutral)	V	240YY / 139	240YY / 139
Amp capacity @240V	A	219	240
3ø Voltage in 208V switch position (parallel star w/neutral)	V	208YY /120	208YY /120
Amp capacity @208V	A	219	240
Rated prime power 1ø	kW/kVA	47 / 47	52 / 52
1ø Power factor		1	1
1ø Voltage in 120-240V switch position (Zig-Zag)	V	240 / 120	240 / 120
Amp Capacity @240V	A	195	216
Amp Capacity @120V	A	195 x 2	216 x 2
Main breaker - Shunt trip	A	400	400
		5 Wire (L1, L2, L3, N,	5 Wire (L1, L2, L3,
Power distribution - Terminal board		Ground)	Ground)
Terminal board connections		Bare Wire Terminals	Bare Wire Termina
Maximum terminal cable size		350MCM	350MCM
Convenience receptacles		2 x NEMA 5-20R	2 x NEMA 5-20R
		& 2 x 125/250V 50A CS6364	& 2 x 125/250V 50 CS6364
Max. sound pressure level (LPA) @23' @75% Load	dB(A)	72	72
Fuel consumption Fuel tank capacity UN31A	gal	170	170
Fuel tank capacity UN31A Fuel consumption at full load (PRP)	gal / h	5.4	7
Fuel tank capacity UN31A			
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity	gal / h	5.4	7
Fuel tank capacity UN31A Fuel consumption at full load (PRP)	gal / h	5.4 28.3	7 23.4
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model	gal / h	5.4 28.3 Leroy Somer 44.3 S4	7 23.4 Leroy Somer 44.3 S
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation	gal / h	5.4 28.3 Leroy Somer 44.3 S4 AREP	7 23.4 Leroy Somer 44.3 S AREP
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%)	gal / h	5.4 28.3 Leroy Somer 44.3 S4	7 23.4 Leroy Somer 44.3 S AREP
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation	gal / h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R438
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine	gal / h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R434 Class H
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine Model	gal / h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H John Deere 4045HFG04	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R438 Class H John Deere 4045HF0
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine Model US EPA Family	gal / h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H John Deere 4045HFG04 HJDXL04.5315	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R438 Class H John Deere 4045HF0 HJDXL0.4.5311
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine Model US EPA Family US EPA Tier	gal/h h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H John Deere 4045HFG04 HJDXL04.5315 Tier 4 Final	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R438 Class H John Deere 4045HF0 HJDXL0.4.5311 Tier 4 Final
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine Model US EPA Family US EPA Tier Displacement	gal / h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H John Deere 4045HFG04 HJDXL04.5315 Tier 4 Final 4.5	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R43 Class H John Deere 4045HF0 HJDXL0.4.5311 Tier 4 Final 4.5
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine Model US EPA Family US EPA Family US EPA Tier Displacement Cylinders	gal/h h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H John Deere 4045HFG04 HJDXL04.5315 Tier 4 Final 4.5 4	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R43 Class H John Deere 4045HF0 HJDXL0.4.5311 Tier 4 Final 4.5 4
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine Model US EPA Family US EPA Family US EPA Tier Displacement Cylinders Continuous engine output	gal / h h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H John Deere 4045HFG04 HJDXL04.5315 Tier 4 Final 4.5 4 122	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R43 Class H John Deere 4045HF0 HJDXL0.4.5311 Tier 4 Final 4.5 4
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine Model US EPA Family US EPA Family US EPA Tier Displacement Cylinders	gal/h h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H John Deere 4045HFG04 HJDXL04.5315 Tier 4 Final 4.5 4 122 133	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R434 Class H John Deere 4045HF(HJDXL0.4.5311 Tier 4 Final 4.5 4 157 172
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine Model US EPA Family US EPA Family US EPA Tier Displacement Cylinders Continuous engine output Gross engine power output Speed	gal / h h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H John Deere 4045HFG04 HJDXL04.5315 Tier 4 Final 4.5 4 122 133 1800	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R434 Class H John Deere 4045HF0 HJDXL0.4.5311 Tier 4 Final 4.5 4 157 172 1800
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine Model US EPA Family US EPA Family US EPA Tier Displacement Cylinders Continuous engine output Gross engine power output Speed Engine control	gal/h h h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H John Deere 4045HFG04 HJDXL04.5315 Tier 4 Final 4.5 4 122 133 1800 ECU	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R434 Class H John Deere 4045HF0 HJDXL0.4.5311 Tier 4 Final 4.5 4 157 172 1800 ECU
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine Model US EPA Family US EPA Family US EPA Tier Displacement Cylinders Continuous engine output Gross engine power output Speed Engine control Aspiration	gal/h h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H John Deere 4045HFG04 HJDXL04.5315 Tier 4 Final 4.5 4 122 133 1800 ECU Turbo w/ Intercooler	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R438 Class H John Deere 4045HF0 HJDXL0.4.5311 Tier 4 Final 4.5 4 157 172 1800 ECU Turbo w/ Intercoole
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine Model US EPA Family US EPA Family US EPA Tier Displacement Cylinders Continuous engine output Gross engine power output Speed Engine control Aspiration Engine oil capacity	gal / h h h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H John Deere 4045HFG04 HJDXL04.5315 Tier 4 Final 4.5 4 122 133 1800 ECU Turbo w/ Intercooler 5.4	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R433 Class H John Deere 4045HF(HJDXL0.4.5311 Tier 4 Final 4.5 4 157 172 1800 ECU Turbo w/ Intercool 5.4
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine Model US EPA Family US EPA Family US EPA Tier Displacement Cylinders Continuous engine output Gross engine power output Speed Engine control Aspiration Engine oil capacity Engine coolant capacity	gal / h h h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H John Deere 4045HFG04 HJDXL04.5315 Tier 4 Final 4.5 4 122 133 1800 ECU Turbo w/ Intercooler 5.4 2.25	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R433 Class H John Deere 4045HF(HJDXL0.4.5311 Tier 4 Final 4.5 4 157 172 1800 ECU Turbo w/ Intercool 5.4 2.25
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine Model US EPA Family US EPA Family US EPA Tier Displacement Cylinders Continuous engine output Gross engine power output Speed Engine control Aspiration Engine colant capacity Engine coolant capacity Max. ambient temperature (@Sea Level)	gal / h h h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H John Deere 4045HFG04 HJDXL04.5315 Tier 4 Final 4.5 4 122 133 1800 ECU Turbo w/ Intercooler 5.4 2.25 122	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R434 Class H John Deere 4045HF(HJDXL0.4.5311 Tier 4 Final 4.5 4 157 172 1800 ECU Turbo w/ Intercoold 5.4 2.25 122
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine Model US EPA Family US EPA Family US EPA Tier Displacement Cylinders Continuous engine output Gross engine power output Speed Engine control Aspiration Engine colant capacity Engine coolant capacity Max. ambient temperature (@Sea Level) Min. starting temperature (w/o Cold weather options)	gal / h h h L L hp hp hp rpm US gal US gal °F	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H John Deere 4045HFG04 HJDXL04.5315 Tier 4 Final 4.5 4 122 133 1800 ECU Turbo w/ Intercooler 5.4 2.25 122 0	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R434 Class H John Deere 4045HF0 HJDXL0.4.5311 Tier 4 Final 4.5 4 157 172 1800 ECU Turbo w/ Intercool 5.4 2.25 122 0
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine Model US EPA Family US EPA Family US EPA Family US EPA Tier Displacement Cylinders Continuous engine output Gross engine power output Speed Engine control Aspiration Engine colant capacity Engine colant capacity Max. ambient temperature (@Sea Level) Min. starting temperature (w/Cold weather options)	gal / h h h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H John Deere 4045HFG04 HJDXL04.5315 Tier 4 Final 4.5 4 122 133 1800 ECU Turbo w/ Intercooler 5.4 2.25 122 0 -4	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R434 Class H John Deere 4045HF0 HJDXL0.4.5311 Tier 4 Final 4.5 4 157 172 1800 ECU Turbo w/ Intercool 5.4 2.25 122 0 -4
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine Model US EPA Family US EPA Family US EPA Tier Displacement Cylinders Continuous engine output Gross engine power output Gross engine power output Speed Engine control Aspiration Engine oil capacity Engine colant capacity Max. ambient temperature (@Sea Level) Min. starting temperature (w/Cold weather options) Electrical system (Negative ground)	gal / h h h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H John Deere 4045HFG04 HJDXL04.5315 Tier 4 Final 4.5 4 122 133 1800 ECU Turbo w/ Intercooler 5.4 2.25 122 0 -4	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R438 Class H John Deere 4045HF0 HJDXL0.4.5311 Tier 4 Final 4.5 4 157 172 1800 ECU Turbo w/ Intercoole 5.4 2.25 122 0 -4
Fuel tank capacity UN31A Fuel consumption at full load (PRP) Fuel autonomy considering 90% of fuel capacity Alternator Model Excitation Automatic voltage regulator (+/-0.5%) Insulation Engine Model US EPA Family US EPA Family US EPA Family US EPA Tier Displacement Cylinders Continuous engine output Gross engine power output Speed Engine control Aspiration Engine colant capacity Engine colant capacity Max. ambient temperature (@Sea Level) Min. starting temperature (w/Cold weather options)	gal / h h h	5.4 28.3 Leroy Somer 44.3 S4 AREP Leroy Somer R438 Class H John Deere 4045HFG04 HJDXL04.5315 Tier 4 Final 4.5 4 122 133 1800 ECU Turbo w/ Intercooler 5.4 2.25 122 0 -4	7 23.4 Leroy Somer 44.3 S AREP Leroy Somer R438 Class H John Deere 4045HFC HJDXL0.4.5311 Tier 4 Final 4.5 4 157 172 1800 ECU Turbo w/ Intercoole 5.4 2.25 122 0 -4

1 All ratings are at a reference condition of 0' altitude and 20°C(72°F)

2 Please see receptacle voltage configuration in Power Distribution section on page #5

3 Engine oil to meet CJ-4 (low ash oil)

4 Please see "Derate Table" for altitude and temperature calculations on page#4

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

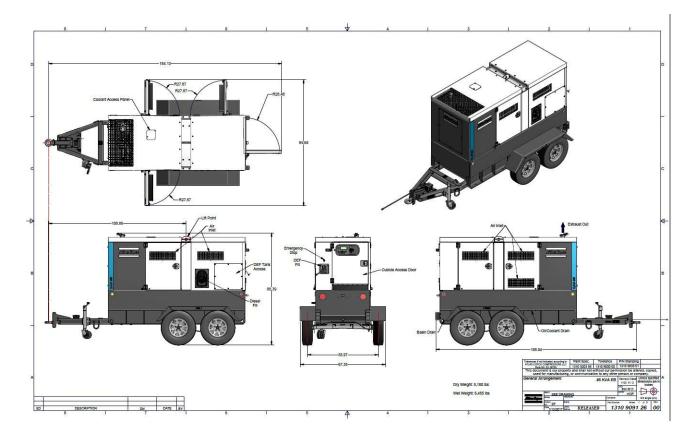
6 Measured in accordance with ISO 2151 under free field conditions @ Tridistance 7 Engine and emissions require the use of Ultra Low Sulfur Diesel in accordance to ASTM-D975 Grade No.1-D S15 & No.2-D S15

8 Based on 90% volume of fuel tank

QAS 95 & 125 MVT JD T4F - Product Referen

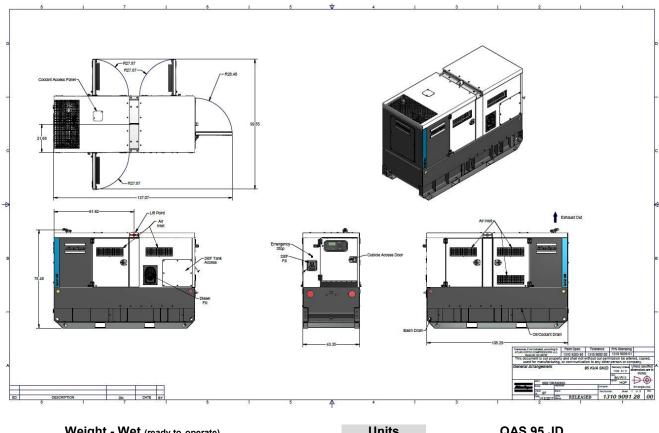
Dimensions

Trailer Mounted



QAS 95 & 125 MVT JD T4F - Product Referen





Weight - Wet (ready to operate)	Units	QAS 95 JD
Trailer Mounted	lbs	6180
Skid Mounted	lbs	5800
Dimensions		
Trailer Mounted (L x W x H)	Inches	162.4 x 56 x 85.5
Skid Mounted (L x W x H)	Inches	108.2 x 43 x 75.5

Weight - Wet (ready to operate)	Units	QAS 125 JD
Trailer Mounted	lbs	6485
Skid Mounted	lbs	6105
Dimensions		
Trailer Mounted (L x W x H)	Inches	162.4 x 56 x 85.5
Skid Mounted (L x W x H)	Inches	108.2 x 43 x 75.5



Principle Data

Alternator

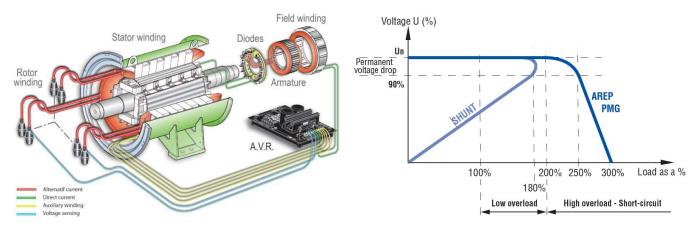
The Leroy Somer LSA alternators are designed for heavy duty continuous applications, with marine winding protection and Leroy Somer's AREP excitation system.

- AREP Excitation for superior motor starting capabilities
- Marine grade (relative humidity >95%)protection
- External multi-voltage selector switch (3 position)
- 4 pole brushless design with single bearing, Class H insulation and IP23 rating
- Voltage regulation +/- 0.5%
- Full Load acceptance of prime power rating

The AREP system uses 2 independent auxiliary windings located in the main stator to send supply voltage to the AVR:

- The voltage delivered by the first auxiliary winding H1 is proportional to the alternator output voltage (shunt characteristic).
- The voltage delivered by the second auxiliary winding H3 is proportional to the current drawn by the alternator and is a function of the applied load (compound characteristic – boostereffect).
- The resulting phase-to-phase voltage supplies power to the AVR.

This power supply to the AVR power circuit is independent of the voltage sensing measured on the alternator output terminals. Therefore, the excitation current delivered by the AVR to the alternator exciter is independent of any voltage distortions (harmonics) due to the load. The AREP system gives the alternator a high overload capacity (load impact or starting electric motors) and a short-circuit capability (300% - 10 s) in order to provide discriminating protection: the alternator with AREP excitation is shorter than the one with PMG excitation. It is particularly suitable for demanding applications.



Performance @ Altitude and High Ambient Conditions

When using at altitude and high ambient conditions the engine and alternator will de-rate as per chart below.

	Temperature °C (°F)										
Height m (Feet)	0 (32)	5 (41)	10 (50)	15 (59)	20 (68)	25 (77)	30 (86)	35 (95)	40 (104)	45 (113)	50 (122)
0	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
500 (1640)	100%	100%	100%	100%	100%	100%	100%	100%	100%	97%	94%
1000 (3280)	100%	100%	100%	100%	100%	100%	100%	100%	100%	97%	94%
1500 (4921)	100%	100%	100%	100%	100%	100%	100%	99%	97%	94%	91%
2000 (6561)	100%	100%	100%	100%	100%	98%	97%	95%	94%	91%	88%
2500 (8202)	100%	100%	100%	100%	100%	95%	94%	92%	91%	88%	86%
3000 (9842)	100%	100%	100%	100%	100%	91%	90%	88%	87%	84%	82%
3500 (11,482)	100%	100%	100%	100%	94%	88%	84%	81%	80%	78%	77%
4000 (13,123)	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%



Power Distribution

The main power is connected from the alternator through a 3 position voltage selector switch to the main power cubicle. The cubicle incorporates all power distribution, controls, sensing and protection devises.

- ✓ 3 position Voltage Selector Switch (VSS)
- ✓ Current transformer x 3 (1 each leg)
- Single main breaker w/shunt trip
- Individual breakers for each receptacle
- Convenience receptacles located on outside of unit for easyaccess
- Terminal board for hard wiring
- Cam-Lock external quick connect (available as option)
- External emergency stop switch (recessed)
- Neutral bonded to Ground with a removable bonding link accessible in the control cubicle

Please refer to the chart below for power distribution and voltages. NOTE: All voltages below are subject to change, depending on set point of "Fine Voltage Adjustment" potentiometer and Voltage Selector Switch.

		120V Receptacle NEMA 20-5R	125/250V Receptacle CS6364	Terminal Board
Fine Voltage Adjustment ↓	Voltage Selector Switch Position ↓		Ś	
\bigcirc	240/120V 1Ø	120V	240/120V	
\bigcirc	240/139V 3Ø	139V	240/139V	240 240 139 139 139
\bigcirc	240/139/v 3Ø	120V	208/120V	208 208 120 208 120 120
\bigcirc	480V 3Ø	139V	240/139V	480 480 277 277 277
\bigcirc	600V 3Ø			600 600 600 346 346 346

• All voltages are adjustable with the "Fine Voltage Adjustment" potentiometer located on the control panel. Therefore voltage may be different then what is shown in the above table. All voltages should be verified before connection to the unit.



Controller

The QAS 95 & 125 come equipped with a Deep Sea 7310 control module. This is a fully diagnostic ECU controller with large 3" display, that is intuitive and easy to operate with all functions conveniently at your fingertips. The controller also manages the engine ECU operating system, and a number of safety warnings and shut downs on various parameters (listed below).

The controller is powered by a main On/Off switch located next to unit.

DeepSea 7310 Controller Functionality:

- Home Page (displayed while running, scrolling every 3seconds)
 - ✓ Generator voltage(ph-ph)
- Generator Page
 - ✓ Generator voltage(ph-N)
 - ✓ Generator voltage(ph-ph)
 - ✓ Generator frequency
- Load Page
 - Generator current (A)
 - Generator earth current
 - Generator load (kW)
 - ✓ Generator load (kVÁ)
 - Generator power factor
 - Load ph-N (kVAr)
 - Generator Load (kVAr)
 - Generator Load (kWh, kVAh, kVArh)
 - ✓ Generator phase sequence
 - Dual mutual status
- Event Page
 - Displays the last 15 events
- Remote Start/Stop
 - Automatic start stop via 2 wire dry contact connection

- Operational Buttons
 - Start button
 - Stop button
 Automatic mode (external)
 - Automatic mode (external remote start)
 Up/Down arrows
 - VD/Down ar
- Info Page
 - Model number
 - USB identification number
 - Configured enginetype
 Module's date and time
 - Module's date and time
 - Scheduler setting
- Engine Page
 - Engine speed
 - Oil pressure
 - Coolant temperature
 - Engine Batteryvolts
 - Run Time
 - Oil Temperature
 - ✓ Fuel Temperature
 - Turbo Pressure
 - ✓ Fuel Pressure
 - Fuel Consumption
 - Fuel Used
 - Fuel Level
 - Auxilliary Sensors
 Engine Maintenance Due
 - Engine Maintenance
 Engine ECU Link
 - Engine 2001
- Engine DTC Page
 - This page contains any active Diagnostic Trouble Codes that the engine ECU is currently generating. These alarms are conditions detected by the engine ECU and displayed on the DSE controller.





Engine

John Deere 4045

John Deere Tier 4 Final, turbo charged, intercooled, four-cylinder, liquid-cooled diesel engine provides ample power to operate the generator continuously at full-load.

Meets all US EPA, CARB and Environment Canada exhaust legislations with Tier 4 Final compliance. The engine utilizes a Selective Catalytic Reduction (SCR) and Diesel Oxidation Catalyst (DOC) to meet final Tier 4 emissions All functionality of the engine is controlled automatically on the Deep Sea 7310 controller.

The engine has the capability to start the generator at 14°F (-10°C) with standard glow-plug aid.

The 166 gal (628L) fuel tank is sufficiently sized to operate the unit at full-load condition for long run times (see chart on page 2 for specifications).

The engine operates on a 12V negative ground electrical system with a 100A charging alternator. The cooling system is suitably designed for continuous operation in ambient conditions up to 122°F (50°C), with canopy door closed.

Fuel System

A large 166 gal (628L) plastic fuel tank provides safe diesel storage while eliminating tank corrosion contaminants from being introduced to your fuel system. With integrated fuel water separator and filter, the system is designed to help maintain clean and trouble free diesel supply to the engine for reliable trouble free operation.

- Pad-lockable diesel fill cap
- Fuel / Water separator
- Inline priming pump (w/ filter)
- Fuel pre-filter
- Fuel supply pump (w/ strainer)
- Fuel level sensor
- Low fuel shut down feature (programmable level)

Scheduled maintenance

Standard equipped with filters sized and designed to allow 500 hour service intervals under normal operating conditions. Extended time between services reduces down time and total cost of ownership of the unit over its lifetime.

- 500 Hour Service Interval:
 - Air filter
 - Oil filter
 - Fuel filter
 - Fuel / water separator

1000 Hour Service Interval:

- Air filter
- Oil filter
- Fuel filter
- Fuel / water separator
- V-Belt

NOTE: Site specific operating conditions such as; poor fuel quality and low load profile may require more frequent service intervals.

Enclosure & Frame

The generator enclosure is designed for extreme applications to provide superior performance and reliability.

The enclosure is fabricated from Zink rich Primer which is powder coated for corrosion resistance. The enclosure and frame are fully sealed from the radiator to the back of the unit, providing a true 110% containment of all fluids.

- Zinc Rich Primer, powder coated enclosure
- Heavy duty baseframe
- 110% fluid containment
- ✓ Large 166 gal (628L), polyethylene fuel tank
- Convenient 2" NPT drain at rear of machine to clean out the containment frame
- Superior level of rain ingress protection and design features
- Pad-lockable doors and fuelcap
- Engine fluid plumbed to exterior of frame for ease of service
- Central liftingpoint
- Sound dampening material and design to allow quiet operation at 67 & 66 dB(A) respectively



Undercarriage

The QAS 95 & 125 is available with two undercarriage alternatives, providing utmost flexibility in installation, site handling or towing. Both the skid frame and the trailer mount the same way and can be interchanged for versatility.

- Trailer:
 - Dual axle
 - Available with hydraulic or electric brakes
 - DOT/Federal MVSS 49CFR571 approved light package and 7 flat blade RV style plug
 - ✓ Adjustable height pintle hitch (3" lunette)
 - 15" Rims w/ ST205/75D15 Tires for trailer use
 - Heavy Duty torsion axle rated at 7,000lbs w/ brakes
 - Safety chains
 - ✓ Screw jack leveling, with jockey wheel, 5,000 lbs static capacity
 - ✓ Single point lifting structure
 - D-Ring Tie down points x4
- Skid mounted:
 - ✓ Sub-frame skid with integrated forklift pockets
 - Heavy duty design for use in extreme conditions
 - ✓ Frame is ¼" wider then machine to reduce damage from forklifts
 - ✓ Built-in locations for straps or chains to secure the unit for transport
 - ✓ Single point lifting structure

Factory Options Available

- 2" or 2 5/16" ball hitches (shipped loose)
- Trailer stabilizerjacks
- Trailer mounted tool box
- Cold start kit (120V block heater, 0W40 synthetic engine oil)
- Battery charger (12V,6A)
- Battery isolation switch (lockable)
- Heavy duty battery (800CCA Optima, Spiralcell AGM, Redtop)
- Inlet shutdown valve
- CSA approval
- External fuel quick connects (3 way valve, located inside of enclosure for spill containment and protection)
- Cam-Lok quick connections (5 x 400A)
- LoJack® (Stolen Vehicle Recovery System)
- Telematics system (DSE Webnet System)



Manufacturing & Environmental Standards

The **QAS 95 &125 JD T4F** is manufactured following stringent ISO 9001 regulations, and by a fully implemented Environmental Management System fulfilling ISO 14001 requirements.

Attention has been given to ensure minimum negative impact to the environment.

Tier

The **QAS 95 &125 JD T4F** meets all current US EPA, CARB and Environment Canada exhaust and noise emission directives.

Supplied Documentation

The unit is delivered with documentation regarding:

- Hard copies of the Atlas Copco Operators Safety and Instruction Manual, Atlas Copco Parts Book, John Deere Engine Manual and Parts book, in English as well as electronic copies available on request.
- Warranty Registration card for engine and Atlas Copco Generators (Units must be registered upon receipt).

Warranty Coverage

Atlas Copco Generator: Warrantied to be free from defects with regard to material and workmanship for the period of eighteen (18) months from date of shipment from the factory, or twelve (12) months from date of initial startup, whichever occurs first, without limitation of running hours.

John Deere Engine: John Deere Diesel engines are warranted to be free from defects with regard to materials and workmanship for the period of twelve (12) months without limitations in running hours, or twenty-four (24) months prior to the accumulation of 2,000 hours from the date of invoicing from Atlas Copco.

Leroy Somer Alternator: Warrantied to be free from defects with regard to material and workmanship for the period of twenty seven (27) months from date of shipment from the factory, or twenty four (24) months from date of initial startup or 10,000 hours, whichever occurs first.

Extended Warranty Programs: Programs are available; please contact your local sales representative for more info.

