



Military Reference Guide

Air-cooled DC Generators

Water-cooled DC Generators

Water-cooled AC Generators 50 / 60 Hz

Water-cooled AC Generators 400 Hz

Combined Air-conditioning and Power Systems (CAPS)



Fischer Panda®

Power
wherever
you are™

Fischer Panda Generators and APUs for Military Applications

Fischer Panda has a full military specification for its generators, meeting a wide range of **MIL-STD** requirements especially concerning EMI levels and IR signatures, exhaust emissions and operating sound levels. They are designed with fast and easy maintenance in mind, whatever the conditions or circumstances, which is essential for the military operator. Custom-built generators can be constructed to practically all the main components are manufactured by Fischer Panda. Effective use of water-cooling and installed within a sound-insulated housing, they operate quietly, are practically vibration-free with a minimal thermal signature.



Our achievements over the last 18 years:

- MIL-STD 461
- MIL-STD 810
- Low sound levels
- High reliability
- Worldwide Service

Fischer Panda also builds units specifically designed for vehicles with dedicated generator tunnels. These have been enhanced to form a **Combo Generator**, featuring an AC generator and high efficiency ECU in a single unit.

Combined Air-Conditioner and Power System (CAPS) for container-based applications

CAPS is a highly sophisticated system for container-based applications requiring electrical power, advanced ECU heating and air-conditioning. By fully utilising performance, management and self-testing features, the CAPS can maintain an optimal environment for sensitive electronic equipment and personnel to operate.



Panda 8000 Combo "FENNEC"
Generator and split ECU for mounting on external mounting on vehicle shelter or container.



Panda CAPS 30
Combined Air-conditioning and Power System (CAPS) for container-based



All our reference generators are also online
<https://defence.fischerpanda.de>

Fischer Panda DC generators enhance lighter vehicle systems with powerful charging capabilities and enables silent running. The DC PE150 Series, for example, is perfect for automatically maintaining battery systems onboard M113 tracked vehicles.

Fischer Panda AC generators supply electricity with a very clean sine wave suitable for sensitive electrical equipment. They are also capable of providing sufficient power for starting heavier equipment such as environmental control units (ECUs). With parallel load switching and parallel load sharing options available, the generators can function as decentralised power assets to manage peak demands for power during operations. They can then combine power output or swap the load to sustain a supply. The latest range of SST Generators feature engines capable of running at variable speed while maintaining a constant frequency. They can adjust the speed to match the load with significant fuel savings, reduced wear and lower exhaust emissions. These generators can also offer full load sharing capabilities.



Panda AGT 2500L

2,1 kW at sea level / +45°C

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Panda AGT 3500L

3,2 kW at sea level / +50°C

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Panda AGT 4000/24V PVMV-N

3,8 kW at sea level / +50°C

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Panda AGT 5000 PE-150N

5 kW at 3000 m or +50°

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Panda AGT 5000 PE-150NA

5 kW at 3000 m / +25°

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Panda AGT 6000/24V PVMV-N

5,5 kW at sea level / +50°C

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Panda AGT 10000 PVM-NE

8,5 kW at 3000 m / +50°C

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Panda PU-2060N

6 kW at 3000 m / +50°C

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Panda 8000 PSC

6,0 kW at 3000 m / +50°C

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Panda 8000 PSC-H

6 kW at 3000 m / +50°C

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Panda 8000 PSC

6 kW at 3000 m / +50°C

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Panda 10 SST

10 kW at 3000 m / +50°C

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Panda 12.000 PSC

10 kW at 3000 m / +50°C

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Panda 12000 PSC

10 kW at sea level / +50°C

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Panda 10000 PSC

7.5 kW at 3000 m / +50°C

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Panda 15/10

10 kW at 3000 m / +50°C

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Panda 15 PSC

10 kW at 3000 m / +50°C

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Panda 15 PSC

12,0 kW at sea level / +50°C

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Panda 18 PVM

10 kW at 3000 m / +50°C

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Panda 18 PSC

15 kW at 3000 m / +50°C

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Panda 18 PSC

15 kW at 3000 m / +50°C

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Panda 18 SST

18 kW at 3000 m / +50°C

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Panda 24 PSC

20 kW at 3000 m / +50°C

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Panda 24 PSC

20,5 kW at sea level / +45°C

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Panda 30 PSC

20 kW at 3000 m / +50°C

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Panda 30 PSC

22 kW @ 3000 m / +50 °C

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Panda 30 PVMV-N

20 kW at 3000 m / +50°C

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Panda 30 PVMV-N

25,5 kW at sea level / +45°C

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Panda 30 PSC

30 kW at sea level / +50°C

(with autostart function on loss of land power)

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Panda AGT 6000 PSC

6 kW at 3000 m / +50°C

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Panda AGT 12000 PSC

12,0 kW at 3000 m / +50°C

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Panda AGT 10000

10 kW at 3000 m / +50°C

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Panda 8000 Combo FENNEC

6 kW electrical + 6 kW cooling at 3000 m / +50°C + 8 kW Heat (20000 BTU)

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Panda 10 SST Combo

10 kW electrical or 5 kW + 4 kW cooling at 3000 m / +50 °C

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Panda 30 CAPS

up to 20 kW elec. / 2 x 8 kW cooling at 3000 m / +50°C

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3. Water-cooled AC Generators 50 / 60 Hz



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Disclaimer: All technical data and specifications including dimensions, performance data, weight and material specifications are only valid when they are explicitly expressed in writing. All data should be considered only for approximation purposes because the data from these sources is gathered from current and previous models. As a result of continual product improvement and modification, the validity of technical data from these sources cannot be guaranteed. It is the responsibility of the customer to ensure in all cases when ordering that technical data is valid and that the specifications meet his/her requirements.

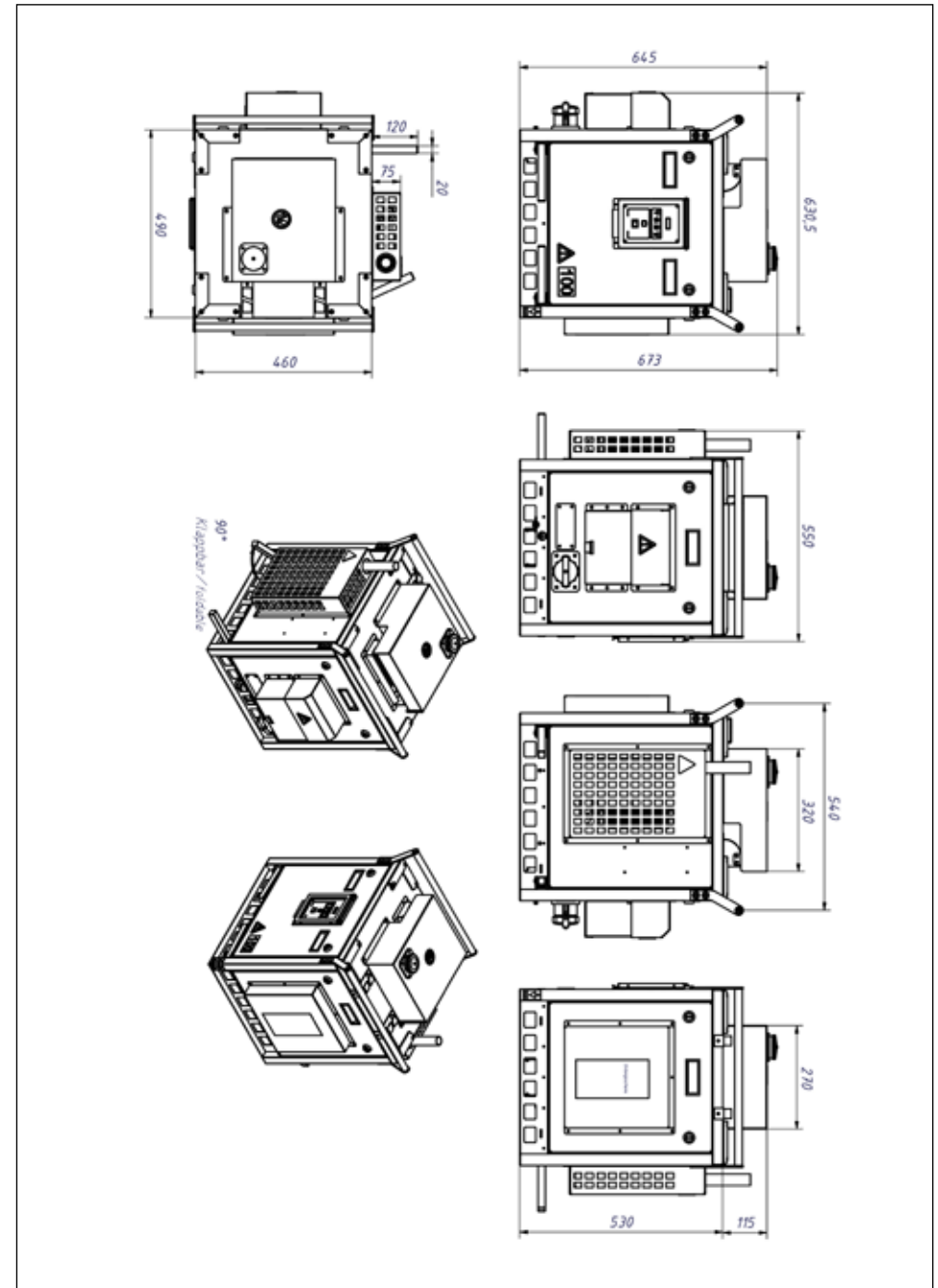
1) 0,35 l / kW electrical power, randomized values between 30% and 80% of the power rating.

PANDA AGT 2500L



Generator	Panda AGT 2500L
	Air-cooled DC Generator
Constant Output	2,1 kW at sea level / +45°C
Output Voltage	24 (28) V DC
Output Current	79 A
Start System	24 V Electrical
Engine Manufacturer	Yanmar
Engine Type	L48AE-DE
Engine Cylinders	1
Engine Operating Temp. Range	-20 °C up to +55°C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	0.9 l/h
Fuel Supply	External fuel tank
Frame / Mounting	Lightweight open frame for installing in well ventilated areas
Cooling System	Air cooling
Instrumentation & Electrical	Instrument and electrical connections on APU Frame
Approx APU weight*	100 kg (with fuel and engine oil) (wet)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



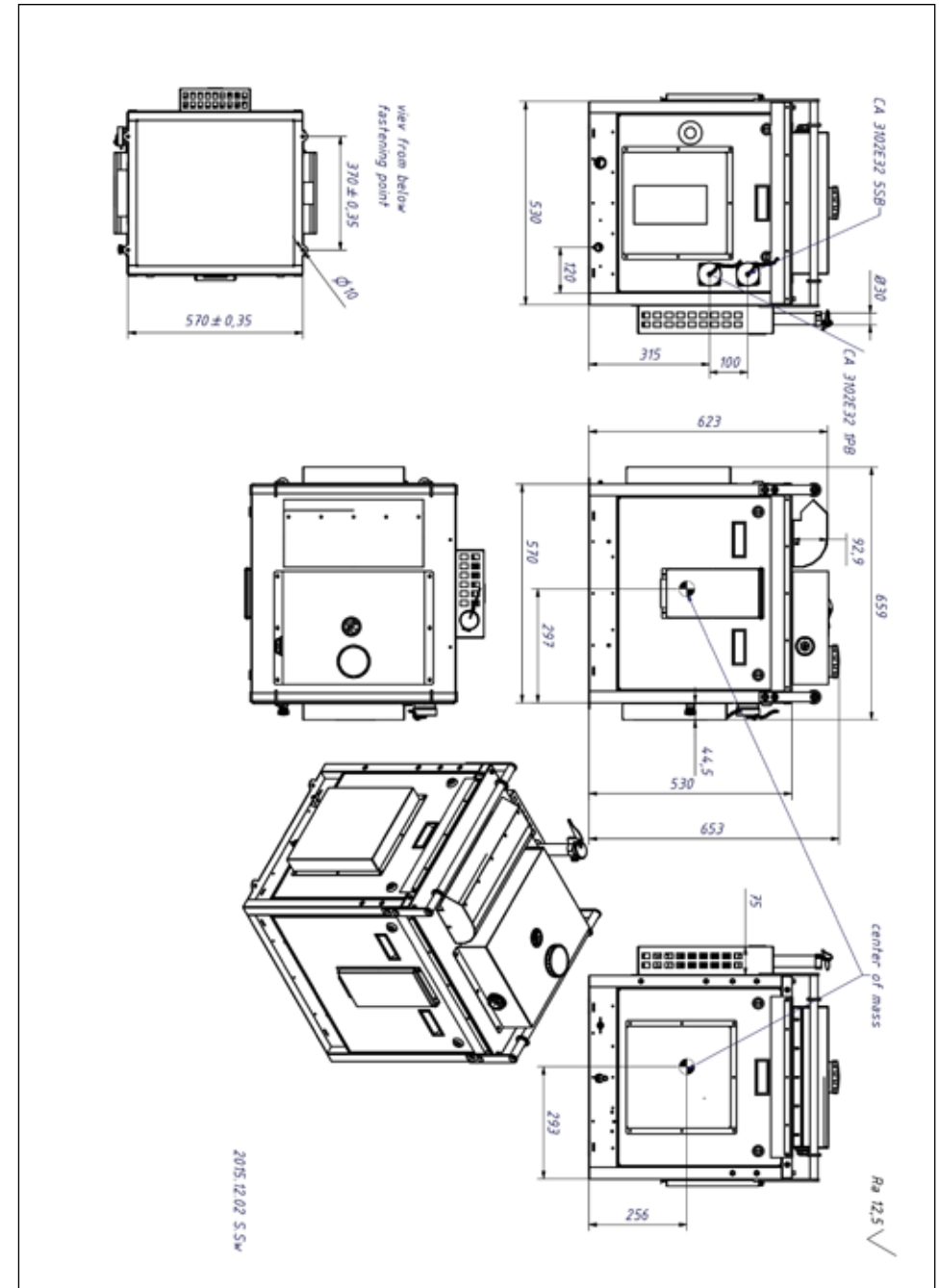
Reference: MRG_201618_REF_001_001

PANDA AGT 3500L



Generator	Panda AGT 3500L Air-cooled DC generator with fuel tank
Constant Output	3,2 kW at sea level / +50 °C
Output Voltage	24 (28) V DC
Output Current	120 A
Start System	24 V Electrical
Engine Manufacturer	Hatz
Engine Type	1B40
Engine Cylinders	1
Engine Operating Temp. Range	-20 °C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.3 l/h
Fuel Supply	Integrated 5l fuel tank + option for external
Frame / Mounting	Lightweight open frame for installing in well ventilated areas
Cooling System	Air cooling
Instrumentation & Electrical	Instruments on APU Frame
Approx APU weight*	128 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



Reference: MRG_201618_REF_001_002

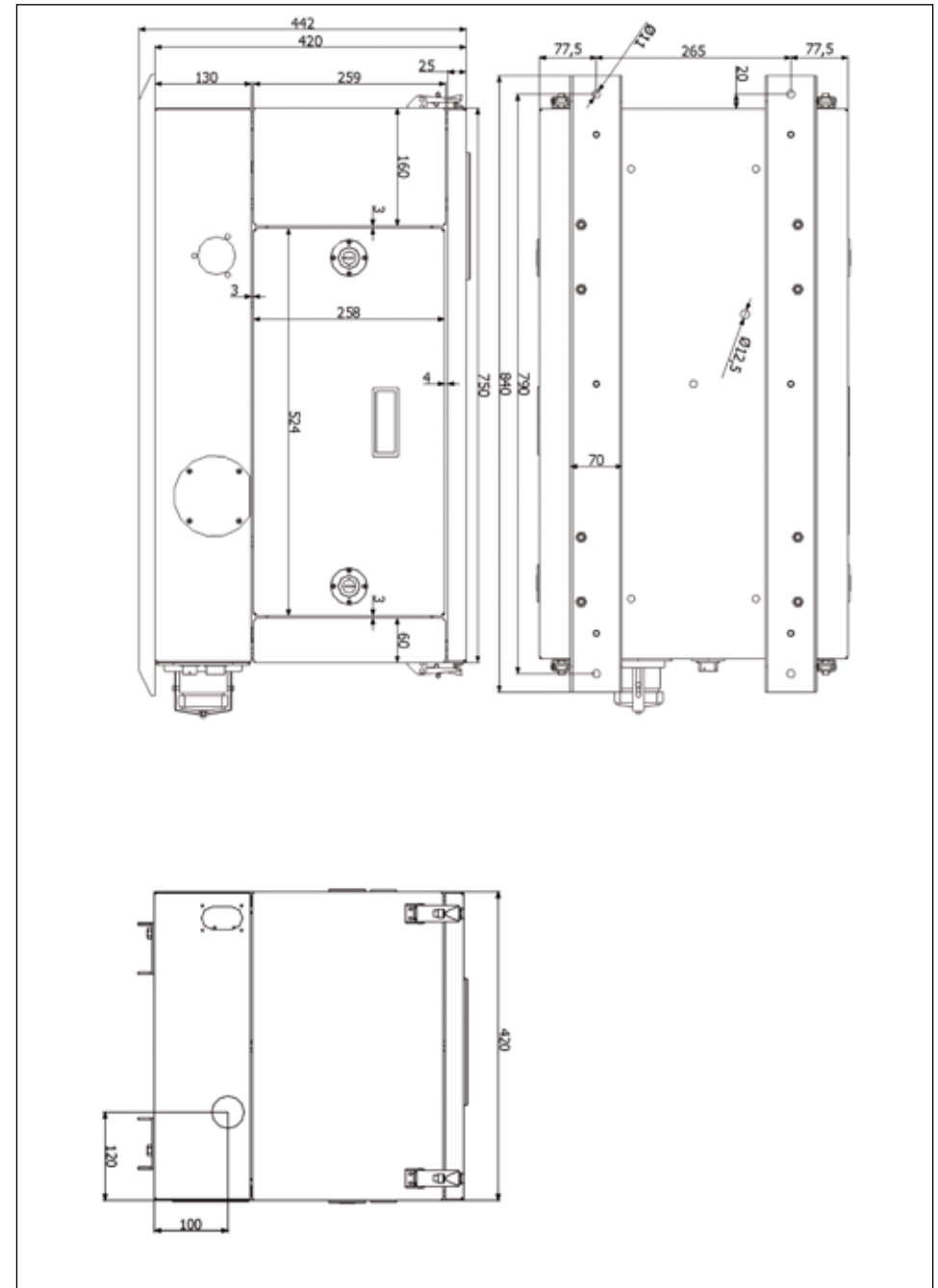


PANDA AGT 4000/24 V PVMV-N



Generator	Panda AGT 4000/24 V PVMV-N
	Water-cooled DC Generator
Constant Output	3,8 kW at sea level / +50 °C
Output Voltage	24 (28) V DC
Output Current	135 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	EA 300
Engine Cylinders	1
Engine Operating Temp. Range	-20 °C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	0.4 - 1.5 l/h
Fuel Supply	Connections for external or vehicle fuel tank
Frame / Mounting	Generator mounted inside sound insulated capsule
Cooling System	Uses external radiator for cooling.
Instrumentation & Electrical	Externally Mounted Panel
Approx APU weight*	142 kg without radiator (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



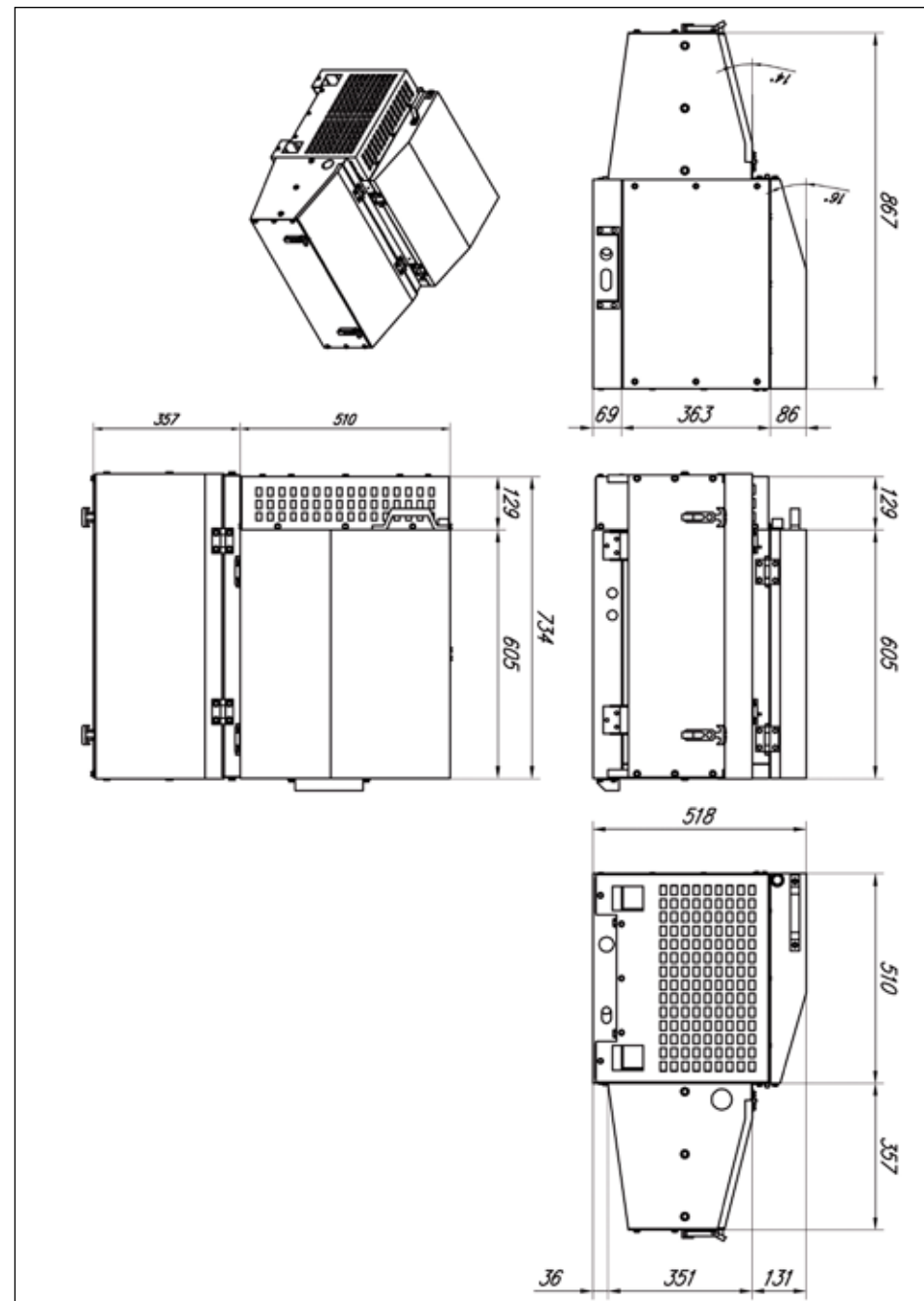
Reference: MRG_201618_REF_002_003

PANDA AGT 5000 PE-150N



Generator	Panda AGT 5000 PE-150N Water-cooled DC Generator (Suitable for mounting on M577 command post)
Constant Output	5 kW at 3000 m or +50°
Output Voltage	24 (28) V DC
Output Current	180 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D722
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	0.6 - 1.8 l/h
Fuel Supply	Connections for external or vehicle fuel tank
Frame / Mounting	Generator mounted inside sound insulated capsule
Cooling System	integrated radiator and fans for cooling
Instrumentation & Electrical	Panel mounted in APU + external slave panel
Approx APU weight*	240 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



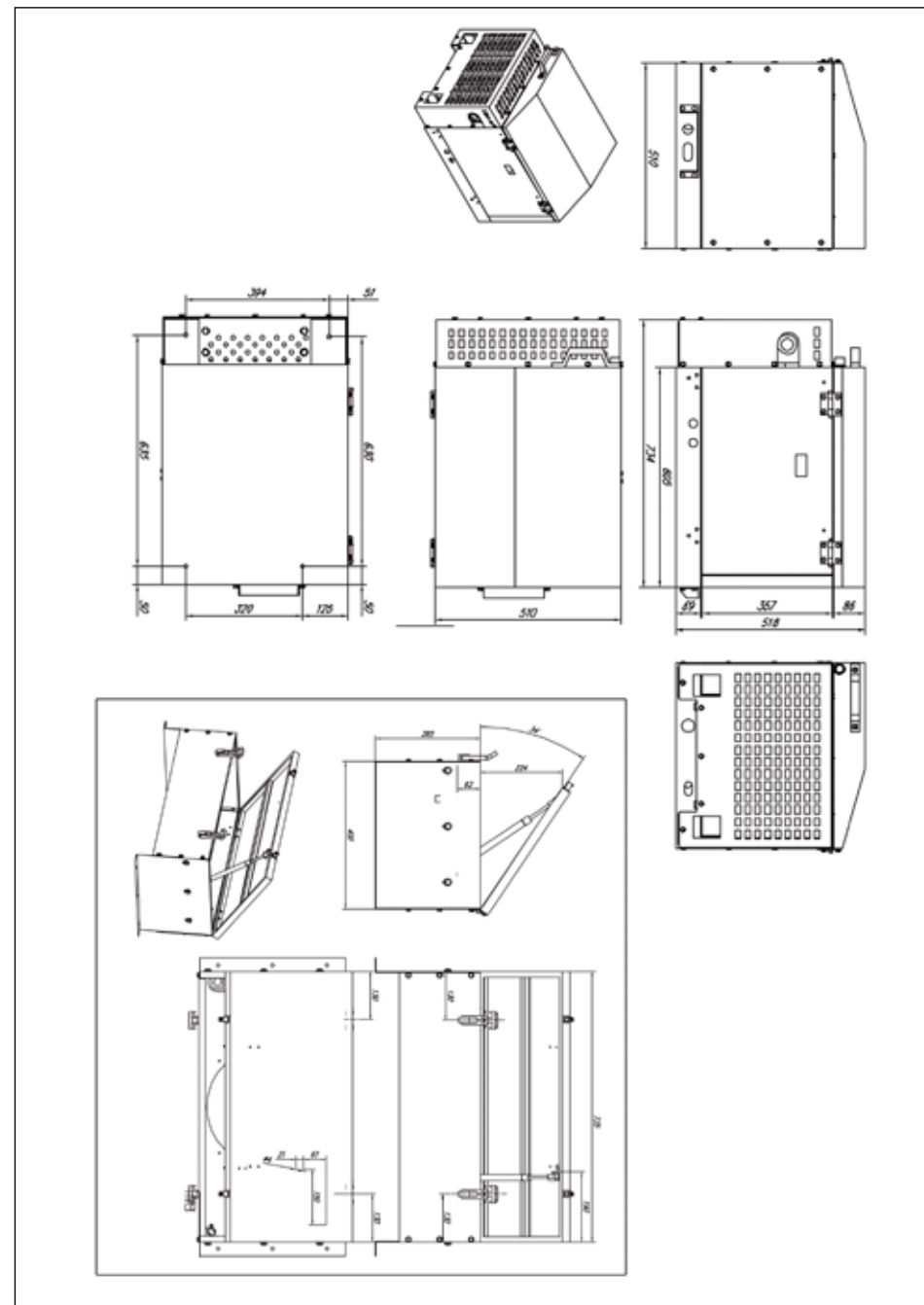
Reference: MRG_201618_REF_002_005

PANDA AGT 5000 PE-150NA



Generator	Panda AGT 5000 PE-150NA Water-cooled DC Generator with external radiator cooler for mounting on M113
Constant Output	5 kW at 3000 m / +25°
Output Voltage	24 (28) V DC
Output Current	180 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D722
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +25 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	0.6 - 1.5 l/h
Fuel Supply	Connections for external or vehicle fuel tank
Frame / Mounting	Generator mounted inside sound insulated capsule
Cooling System	external radiator and fan unit in housing for cooling
Instrumentation & Electrical	Panel mounted in APU + external slave panel
Approx APU weight*	240 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



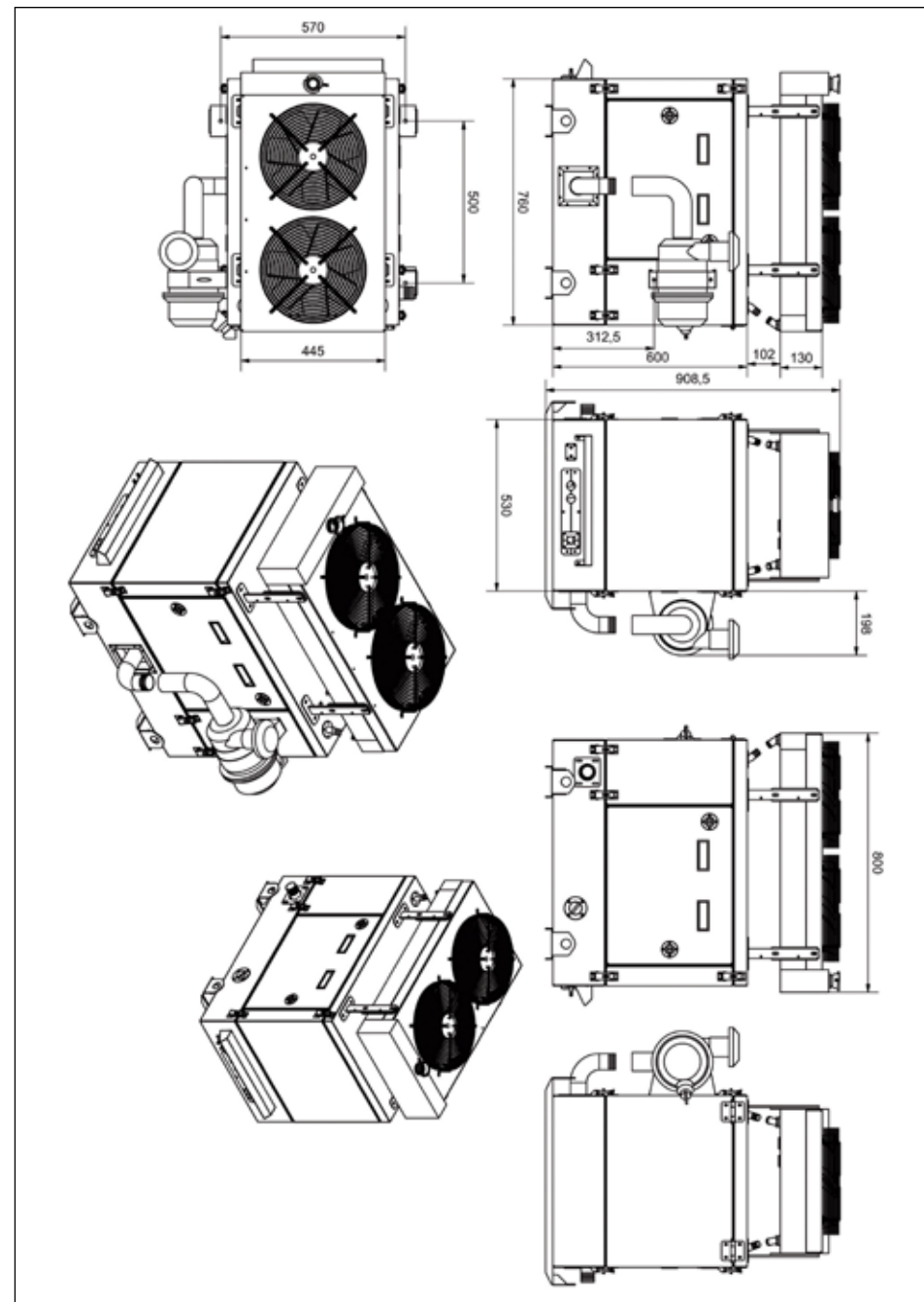
Reference: MRG_201618_REF_002_007

PANDA AGT 6000/24 V PVMV-N



Generator	Panda AGT 6000/24 V PVMV-N
	Water-cooled DC Generator
Constant Output	5,5 kW at sea level / +50 °C
Output Voltage	24 (28) V DC
Output Current	200 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	Z 482
Engine Cylinders	2
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	0.6 - 2.0 l/h
Fuel Supply	Connections for external or vehicle fuel tank
Frame / Mounting	Generator mounted inside sound insulated capsule
Cooling System	Integrated radiator and fans mounted horizontally for cooling
Instrumentation & Electrical	Externally Mounted Panel
Approx APU weight*	266 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



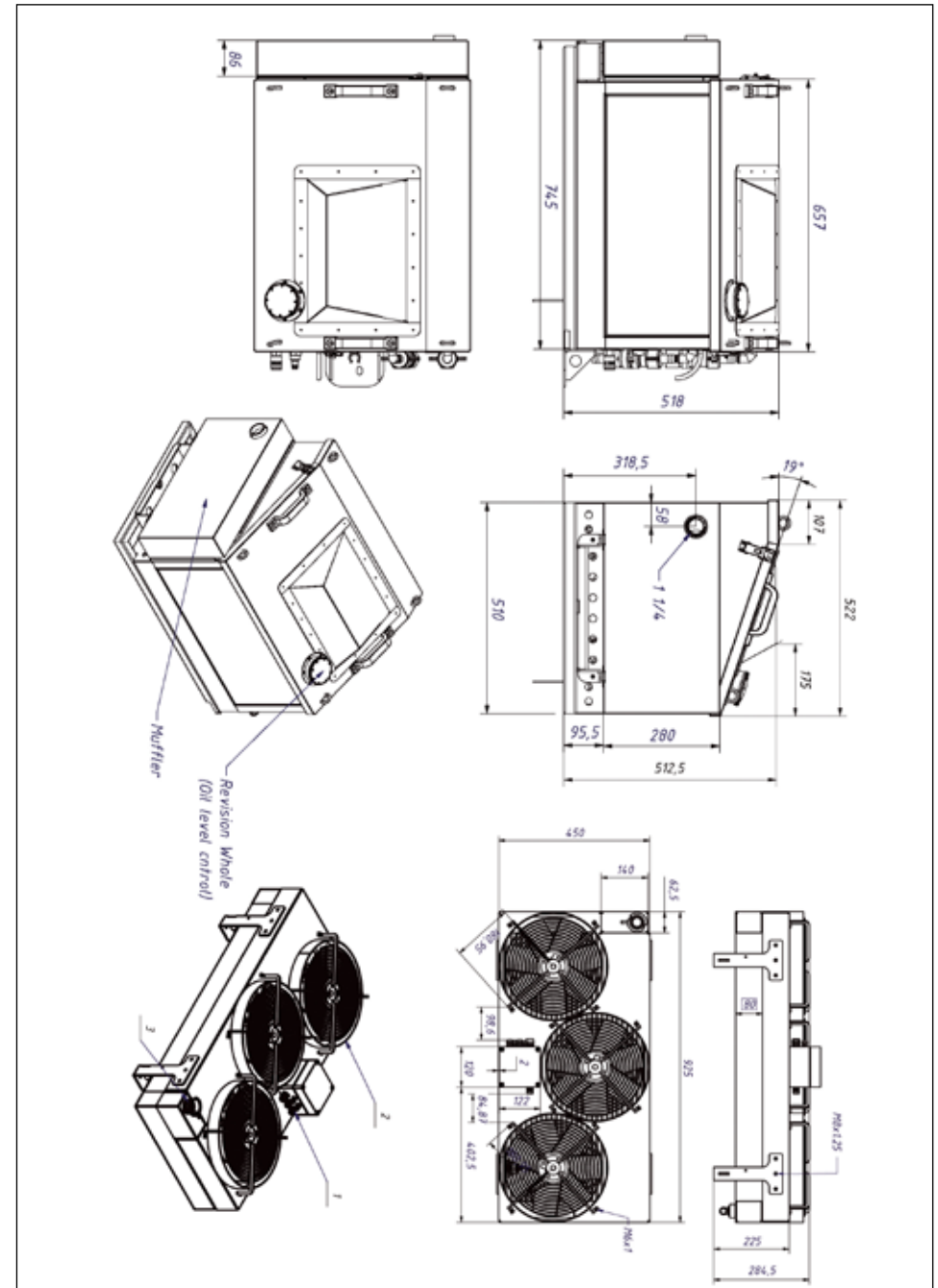
Reference: MRG_201618_REF_002_008

PANDA AGT 10000 PVM-NE



Generator	Panda AGT 10000 PVM-NE Water-cooled DC Generator
Constant Output	8,5 kW at 3000 m / +50 °C
Output Voltage	28 V
Output Current	320 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D722 + Turbo
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +55°C (other temperature ranges on request)
Fuel Types	F 34, F54, Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	0.6 - 3.0 l/h
Fuel Supply	Connections for external or vehicle fuel tank
Frame / Mounting	Unit mounted on frame
Cooling System	External radiator and fan unit in housing for cooling
Instrumentation & Electrical	External control box with remote control panel and instrumentation
Approx APU weight*	266 kg without radiator (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



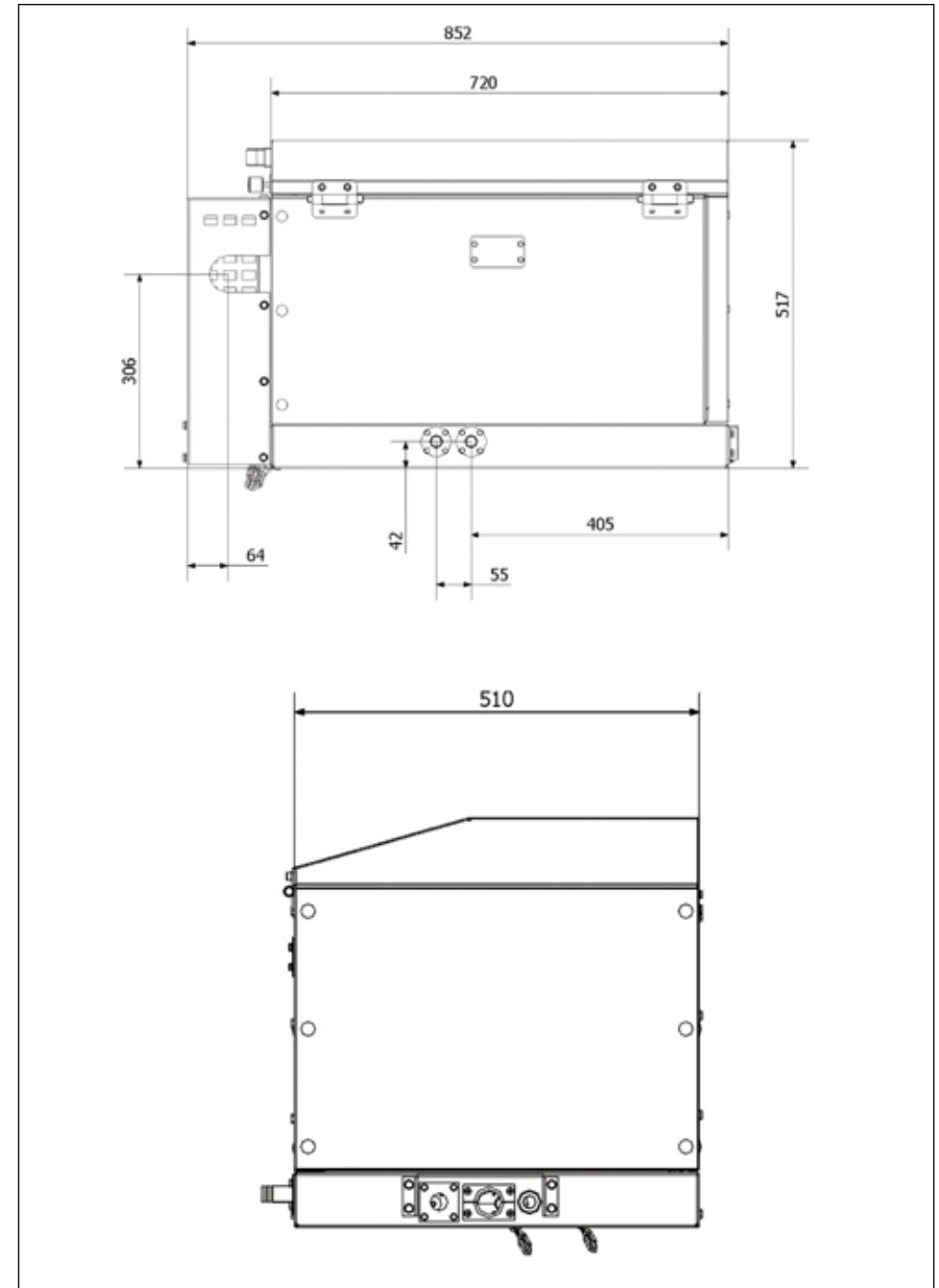
Reference: MRG_201618_REF_002_009

PANDA PU-2060N



Generator	Panda PU-2060N
	Water-cooled AC Generator
Constant Output	6 kW at 3000 m / +50 °C
Output Voltage	230 V AC / 50 Hz single phase, optional 230 V/400 V/50Hz three phase
Output Current	26 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D722
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	0.9 - 2.2 l/h
Fuel Supply	Connections for external or vehicle fuel tank
Frame / Mounting	Generator mounted inside sound insulated capsule
Cooling System	External radiator and fan unit in housing for cooling
Instrumentation & Electrical	Externally Mounted Panel
Approx APU weight*	277 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



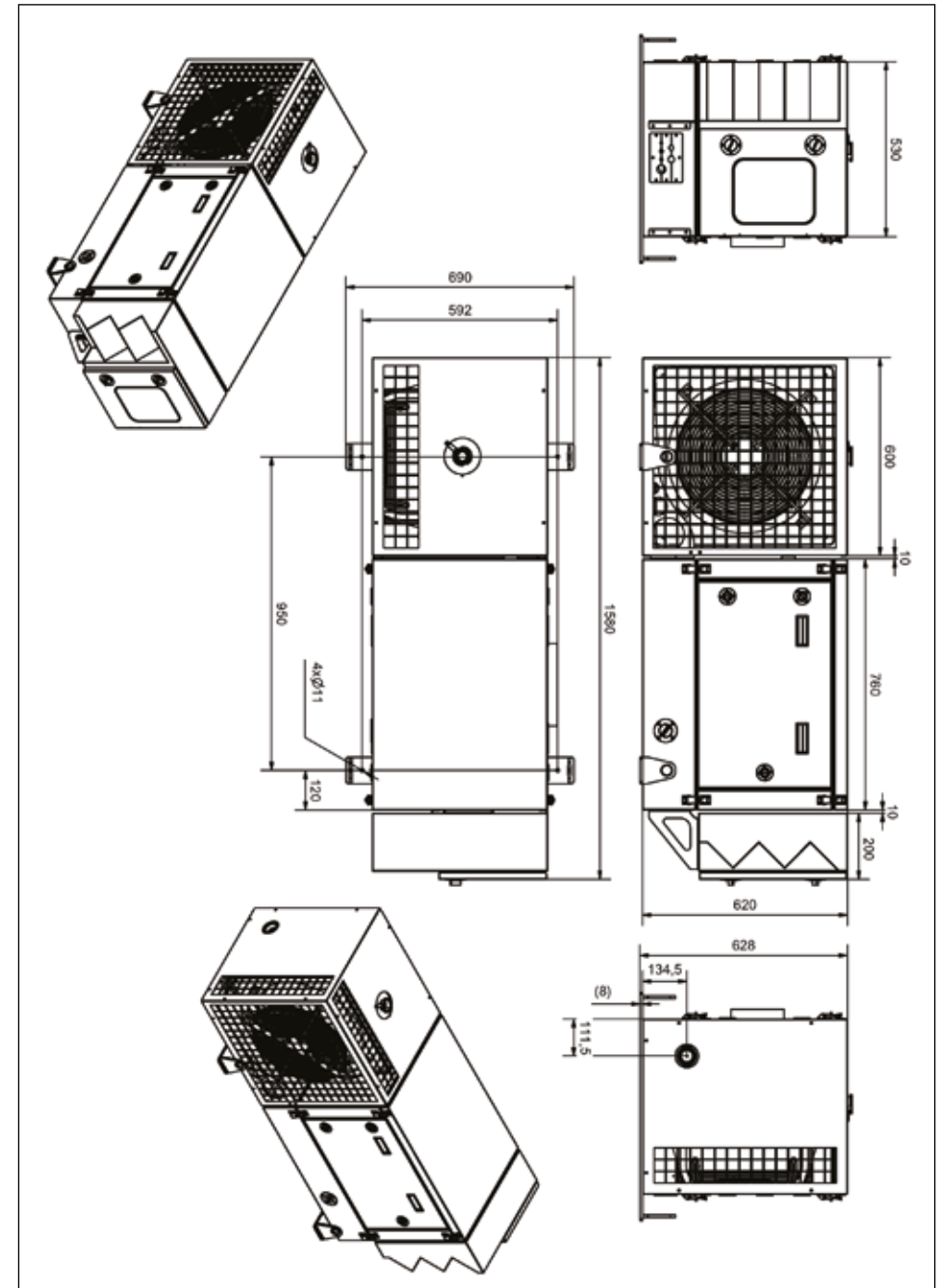
Reference: MRG_201618_REF_003_001

PANDA 8000 PSC



Generator	Panda 8000 PSC
	Water-cooled AC Generator
Constant Output	6,0 kW at 3000 m / +50 °C
Output Voltage	230 V / 50 Hz
Output Current	26 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D722
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F54, Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	0.9 - 2.2 l/h
Fuel Supply	Connections for external or vehicle fuel tank
Frame / Mounting	Lifting bars under the generator
Cooling System	Integrated radiator and fans mounted for cooling
Instrumentation & Electrical	Integrated electrical cabinet
Approx APU weight*	300 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



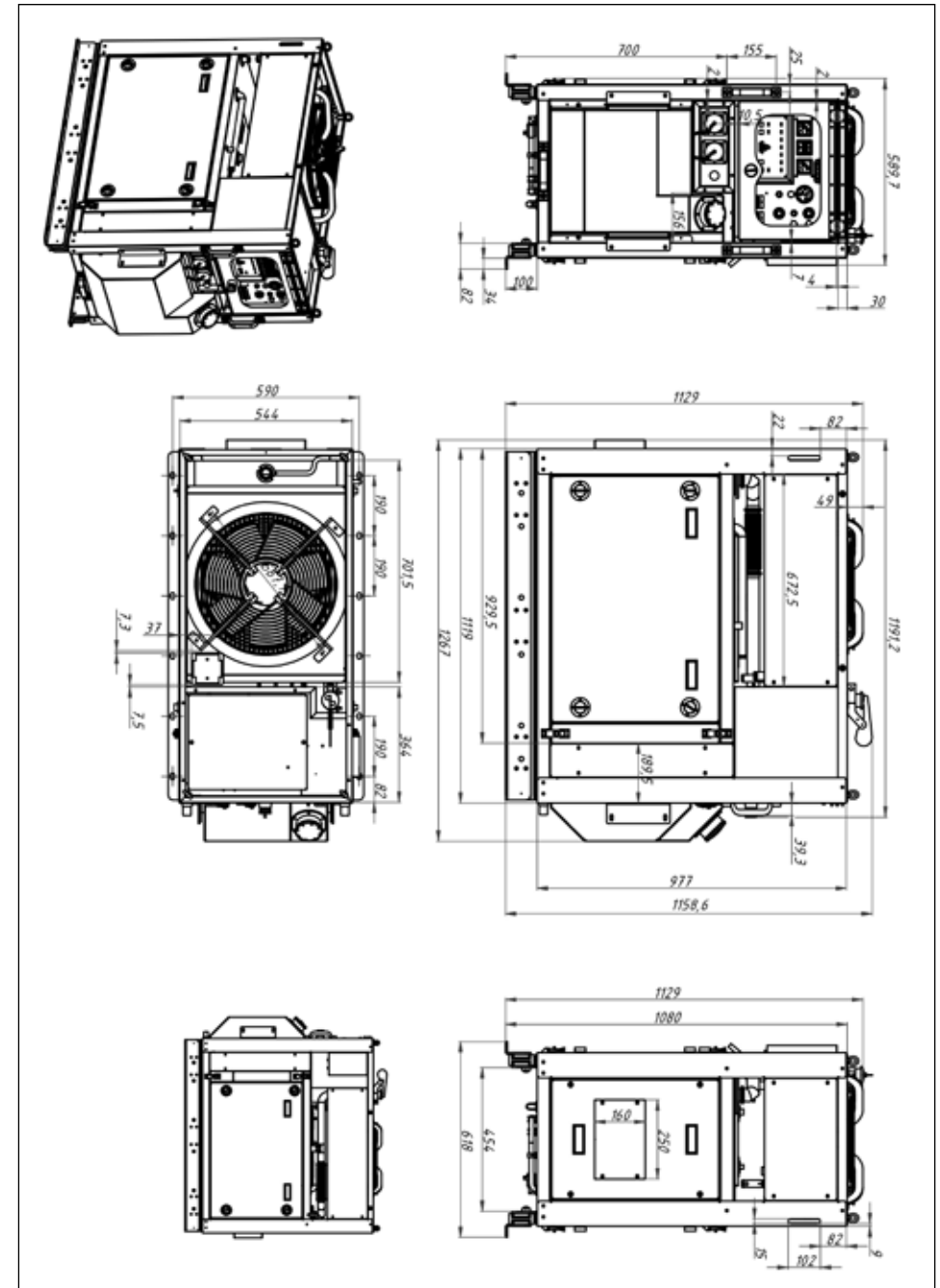
Reference: MRG_201618_REF_003_002

PANDA 8000 PSC-H



Generator	Panda 8000 PSC-H
	Water-cooled AC Generator with integrated radiator (tall version).
Constant Output	6 kW at 3000 m / +50 °C
Output Voltage	230 V 50 Hz single phase, optional 230 V / 400 V / 50 Hz three phase
Output Current	26 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D722
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	0.9 - 2.2 l/h
Fuel Supply	Integrated Fuel Tank (52 litre capacity)
Frame / Mounting	Self contained unit - slide mounted on rails with full extension
Cooling System	Integrated radiator and fans mounted horizontally for cooling
Instrumentation & Electrical	Integrated electrical cabinet with instruments and connections
Approx APU weight*	467 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



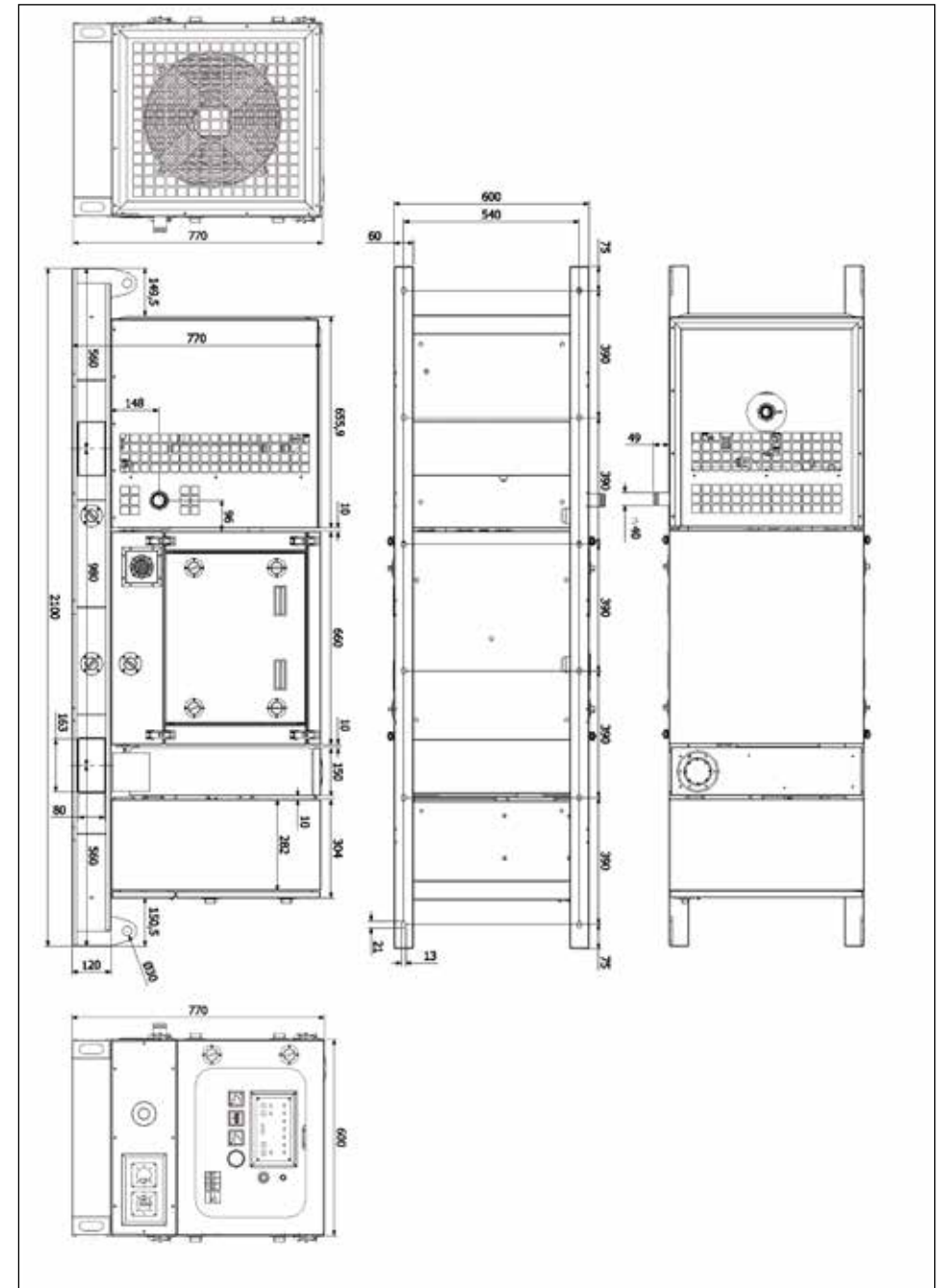
Reference: MRG_201618_REF_003_003

PANDA 8000 PSC



Generator	Panda 8000 PSC Water-cooled AC Generator
Constant Output	6 kW at 3000 m / +50 °C
Output Voltage	230 V 50 Hz single phase, optional 230 V / 400 V / 50 Hz three phase
Output Current	28 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D722
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	0.9 - 2.2 l/h
Fuel Supply	Integrated Fuel Tank (51 litre capacity)
Frame / Mounting	Unit mounted on frame with lifting eyes and fork lift pockets
Cooling System	Integrated radiator and fans mounted vertically for cooling
Instrumentation & Electrical	Integrated electrical cabinet with instruments and connections
Approx APU weight*	571 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



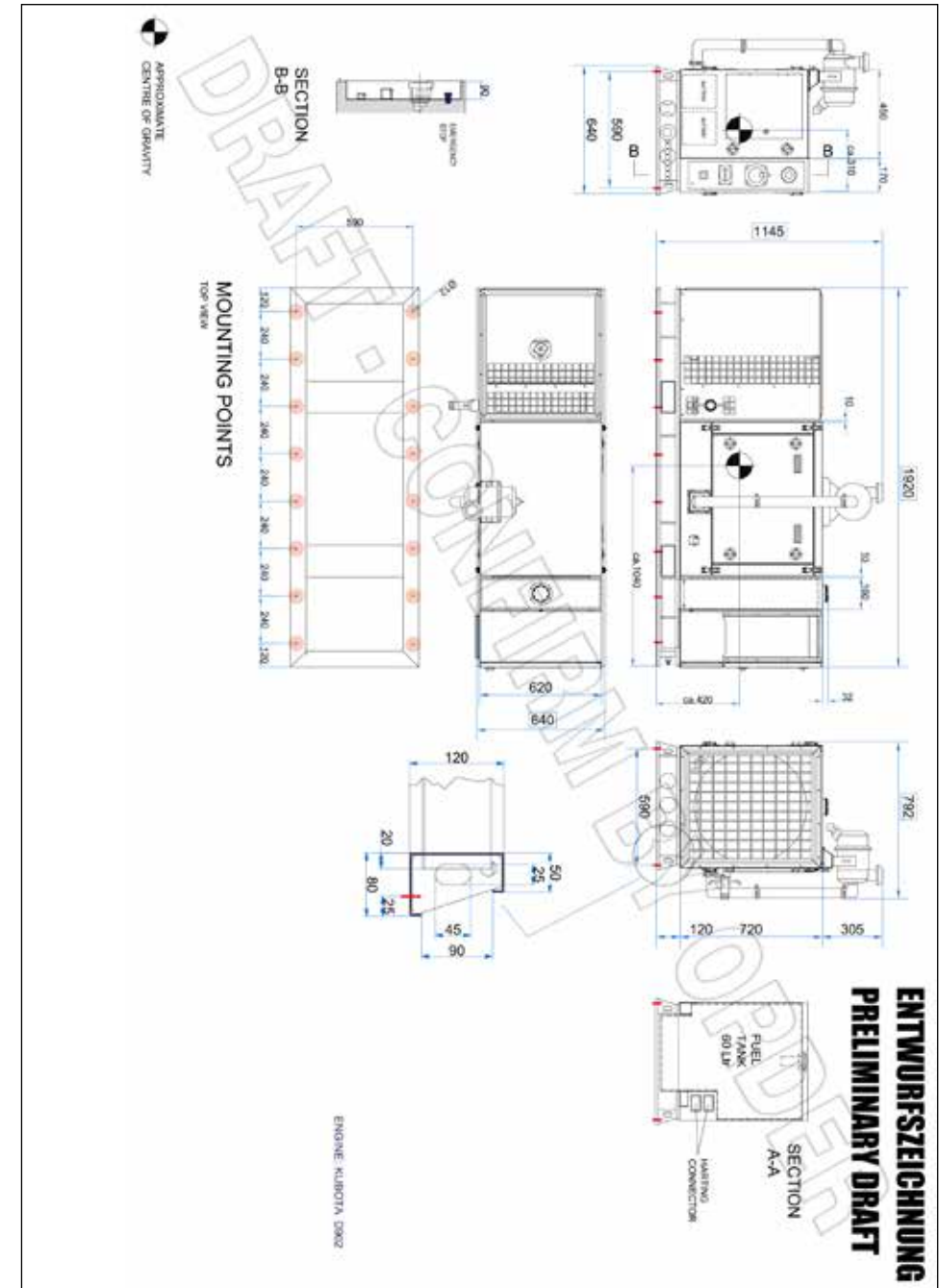
Reference: MRG_201618_REF_003_004

PANDA 10000 PSC



Generator	Panda 10000 PSC
	Water-cooled AC Generator
Constant Output	7.5 kW at 3000 m / +50 °C
Output Voltage	230 V / 400 V 3- phase 50 Hz
Output Current	3 x 11 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D902
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +55°C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.5 - 5.0 l/h
Fuel Supply	Integrated Fuel Tank (60 litre capacity)
Frame / Mounting	Self contained unit mounted on frame with forklift pockets
Cooling System	Integrated radiator and fans mounted vertically for cooling
Instrumentation & Electrical	Integrated electrical cabinet with instruments and connections
Approx APU weight*	600 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



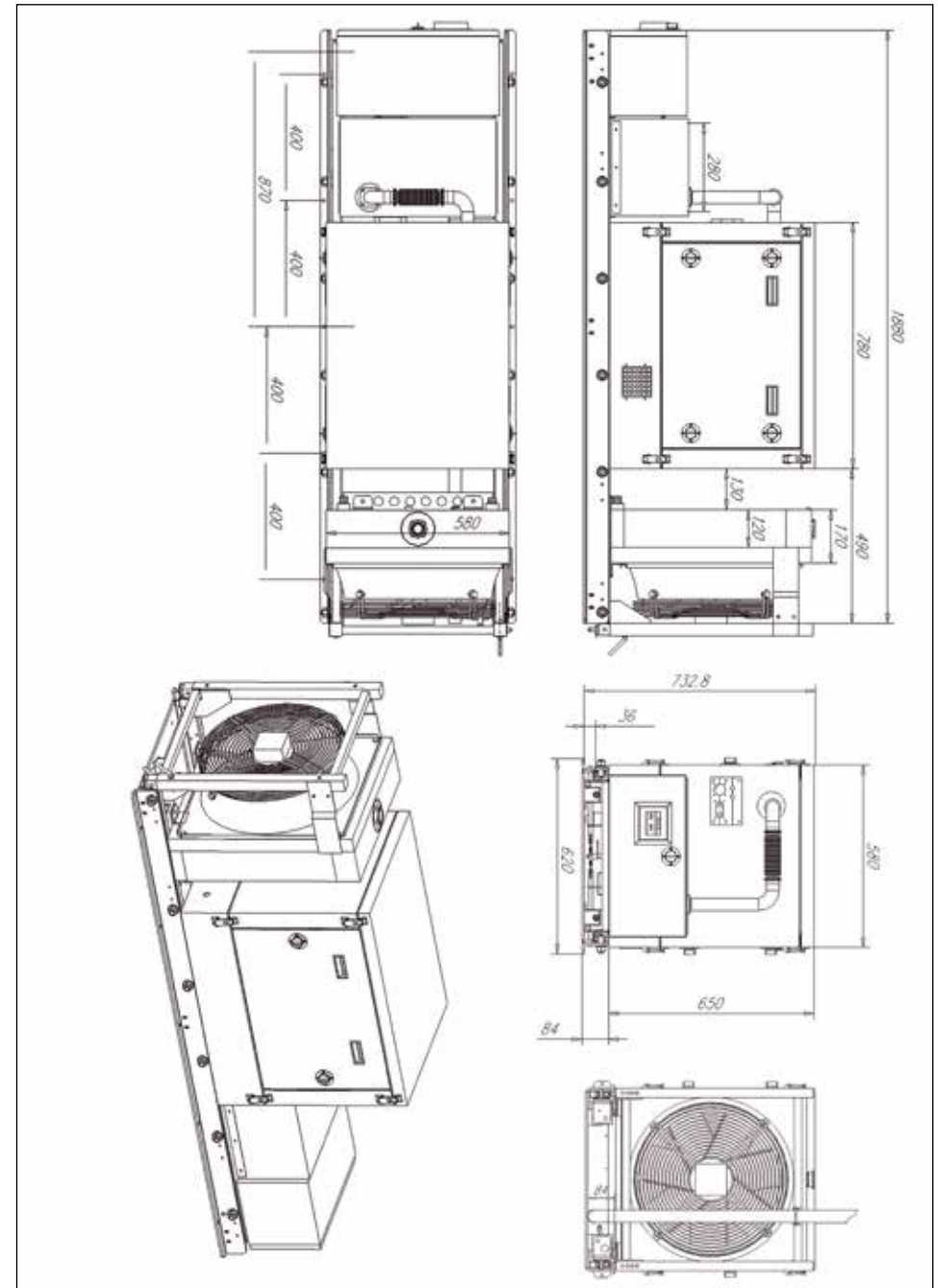
Reference: MRG_201618_REF_003_005

PANDA 10 SST



Generator	Panda 10 SST Water-cooled AC Generator
Constant Output	10 kW at 3000 m / +50 °C
Output Voltage	3 x 208 V 3-phase 60 Hz optional 120 V / 240 V / 60Hz or 230 V / 50 Hz or 230 V / 400 V / 50 Hz
Output Current	3 x 28 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D722 + Turbo
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.0 - 3.5 l/h
Fuel Supply	Connections for external or vehicle fuel tank
Frame / Mounting	Slide mounted on rails for installation in HUMVEE Shelter
Cooling System	Integrated radiator and fans for cooling
Instrumentation & Electrical	Externally Mounted Panel
Approx APU weight*	340 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



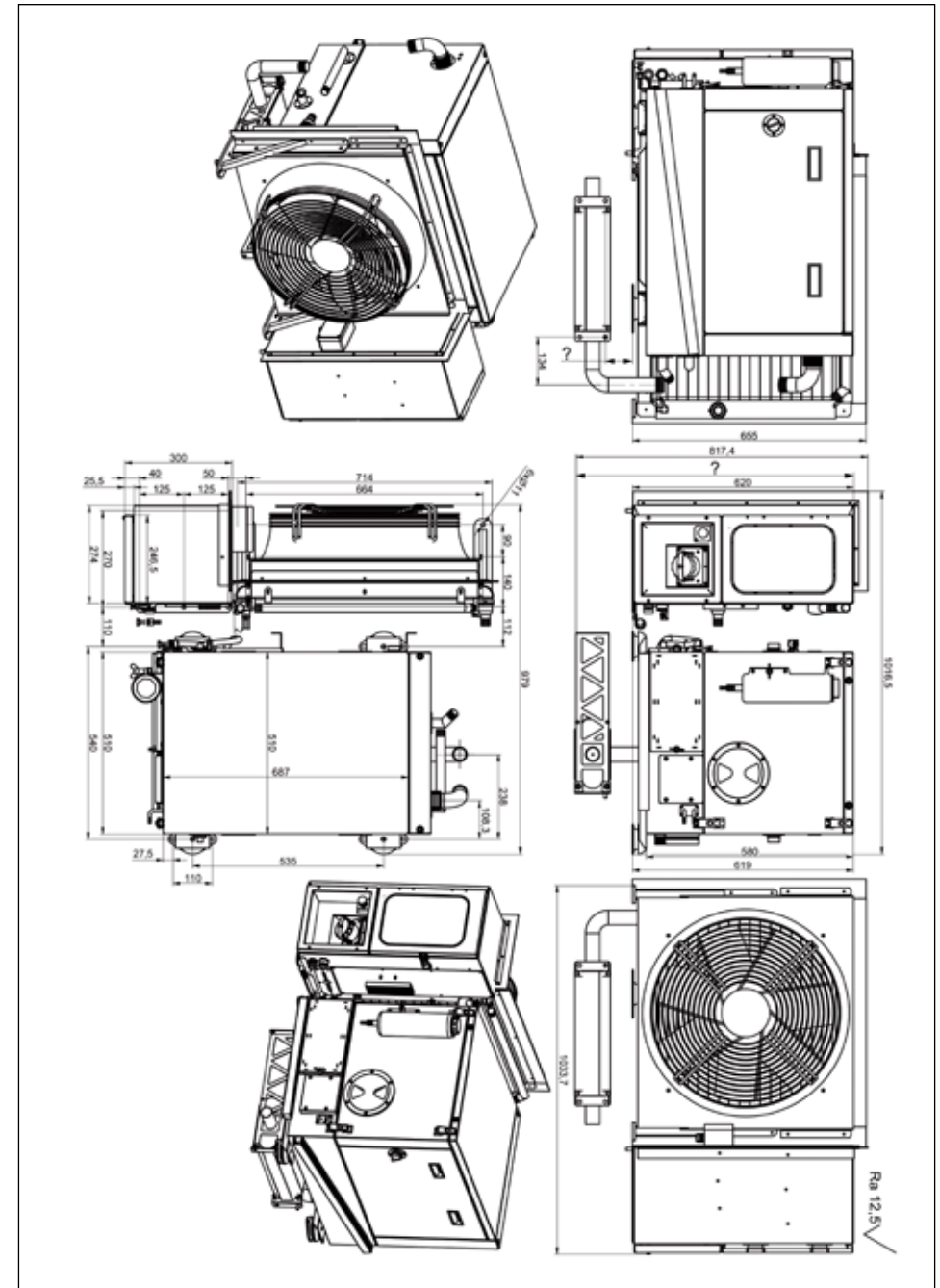
Reference: MRG_201618_REF_003_006

PANDA 12.000 PSC



Generator	Panda 12.000 PSC
	Water-cooled AC Generator (lightweight design - only 285 kg without fuel tank)
Constant Output	10 kW at 3000 m / +50 °C
Output Voltage	230 V / 400 V / 50 Hz
Output Current	16 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D722-T
Engine Cylinders	3
Engine Operating Temp. Range	-32 °C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.0 - 3.5 l/h
Fuel Supply	Connections for external or vehicle fuel tank
Frame / Mounting	Self contained unit mounted on installation plate
Cooling System	Integrated radiator and fans mounted vertically for cooling
Instrumentation & Electrical	Integrated electrical cabinet with instruments and connections
Approx APU weight*	285 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



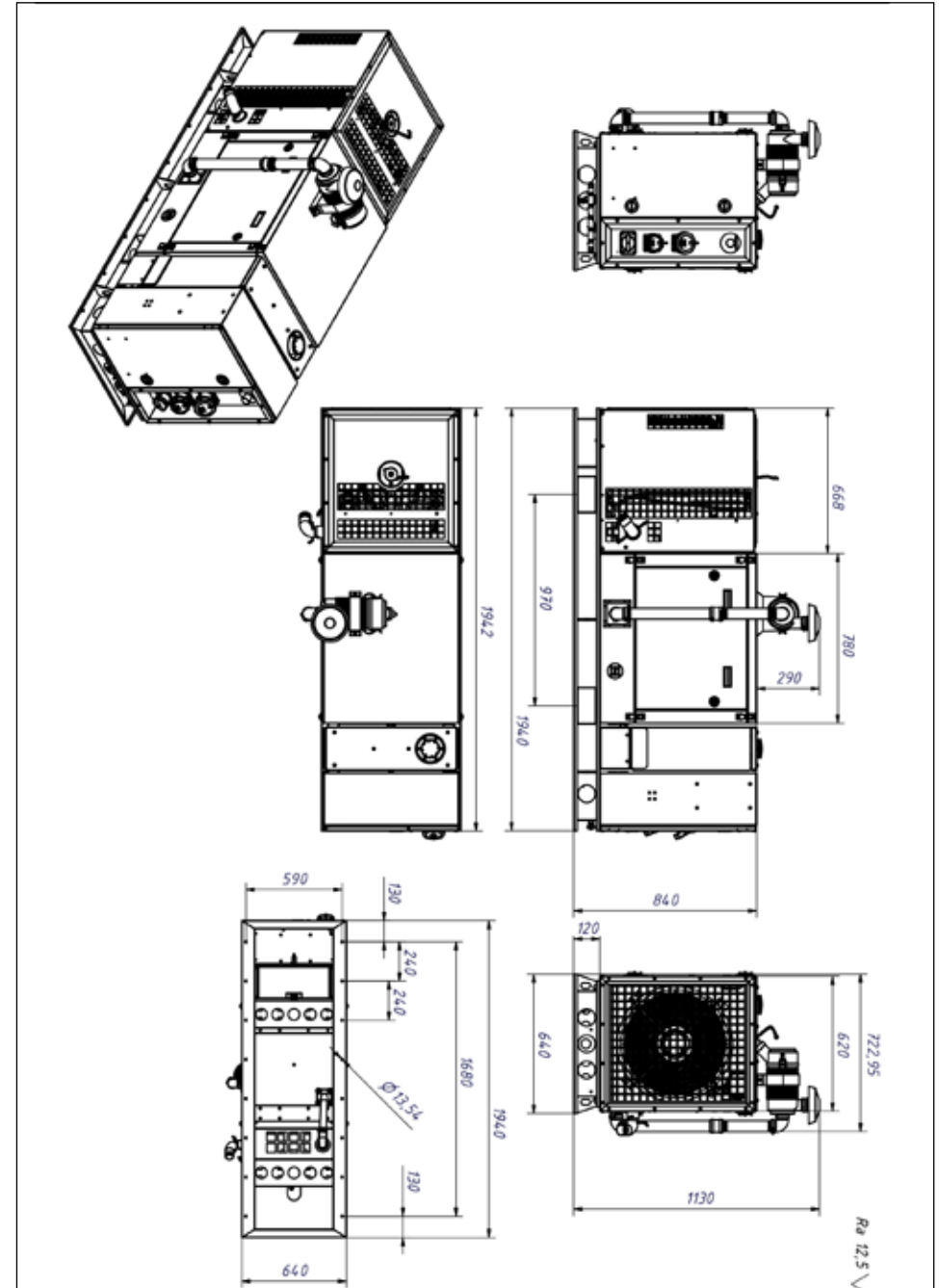
Reference: MRG_201618_REF_003_007

PANDA 12000 PSC



Generator	Panda 12000 PSC Water-cooled AC Generator
Constant Output	10 kW at sea level / +50 °C
Output Voltage	230 V / 400 V 3-phase 50 Hz
Output Current	3 x 14 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D 902
Engine Cylinders	3
Engine Operating Temp. Range	-30 °C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.5 -5.0 l/h
Fuel Supply	Integrated Fuel Tank (60 litre capacity)
Frame / Mounting	Self contained unit mounted on frame with forklift pockets
Cooling System	Integrated radiator and fans mounted vertically for cooling
Instrumentation & Electrical	Integrated electrical cabinet with instruments and connections
Approx APU weight*	520 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



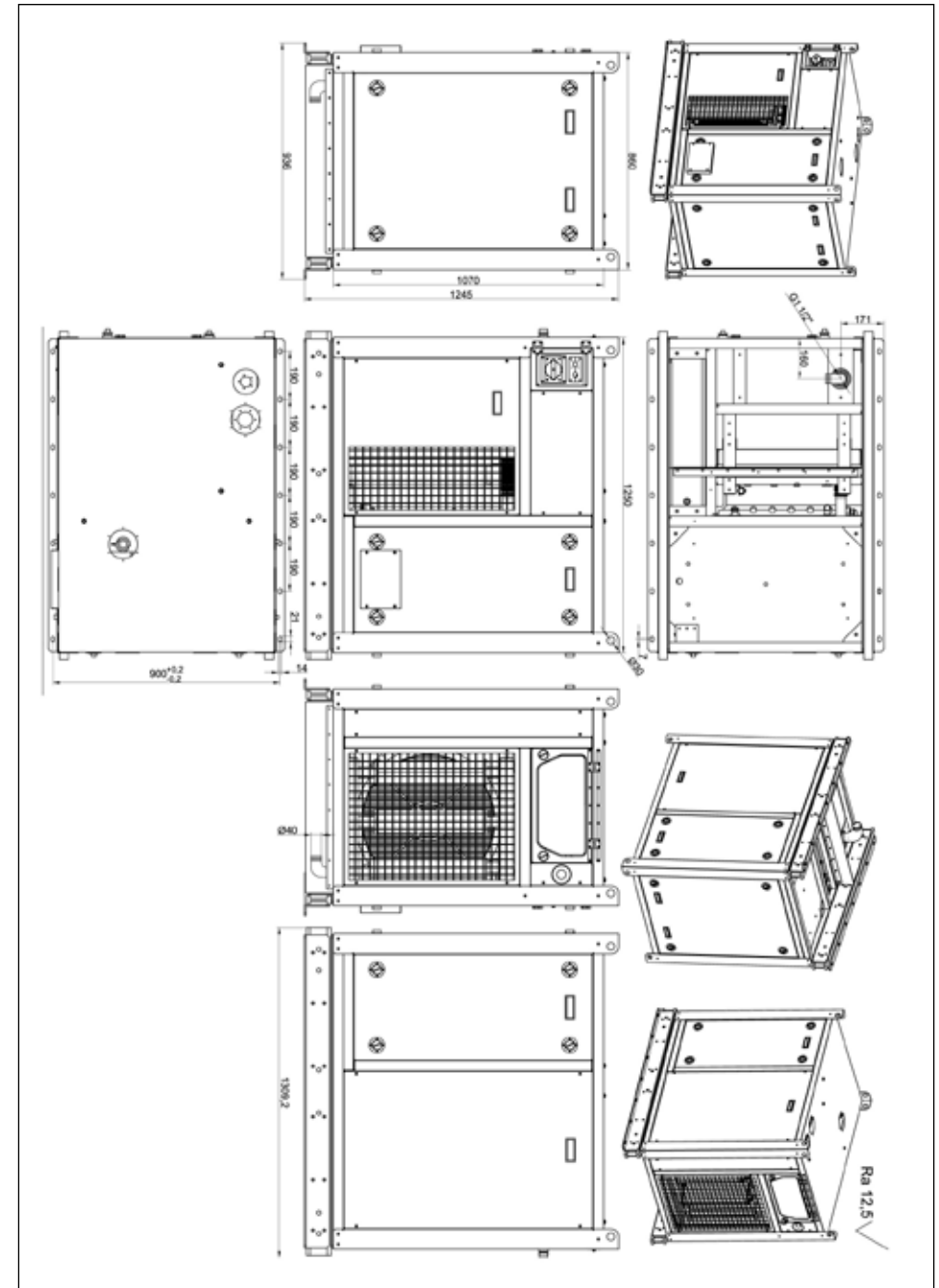
Reference: MRG_201618_REF_003_008

PANDA 15/10



Generator	Panda 15/10
	Water-cooled AC Generator
Constant Output	10 kW at 3000 m / +50 °C
Output Voltage	220 V / 380 V / 50 Hz
Output Current	3 x 16 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D1105
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F54, Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.5 - 3.5 l/h
Fuel Supply	Integrated Fuel Tank (45 litre capacity)
Frame / Mounting	Slide mounted on rails
Cooling System	Integrated radiator and fans mounted for cooling
Instrumentation & Electrical	External control box with remote control panel and instrumentation
Approx APU weight*	778 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



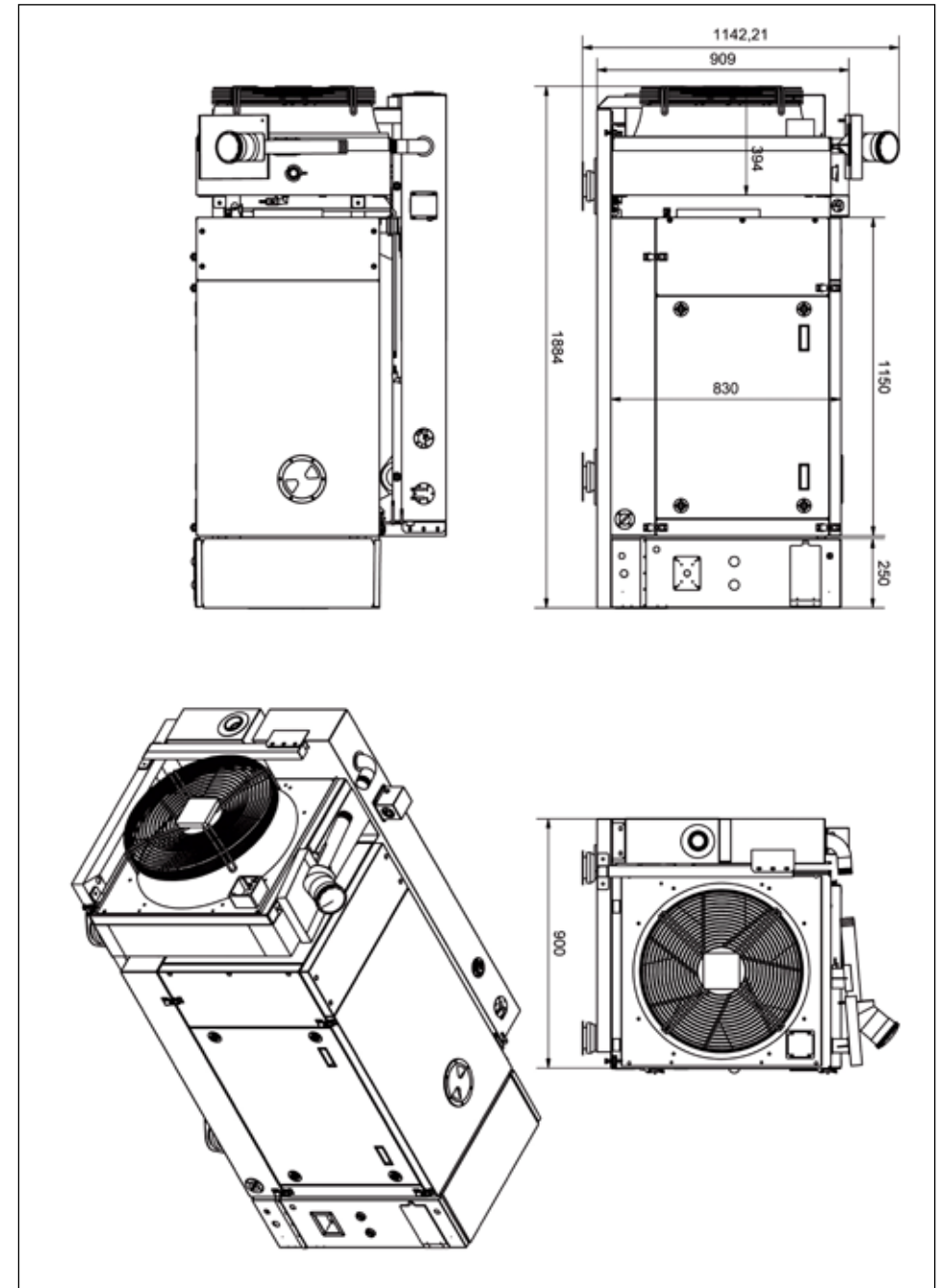
Reference: MRG_201618_REF_003_009

PANDA 15 PSC



Generator	Panda 15 PSC Water-cooled AC Generator
Constant Output	10 kW at 3000 m / +50 °C
Output Voltage	230 V AC 50 Hz optional 230 V / 400 V / 50 Hz three phase
Output Current	62 A / 17 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D902 + Turbo
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.5 - 5.3 l/h
Fuel Supply	Integrated Fuel Tank (240 litre capacity)
Frame / Mounting	Self contained unit mounted on frame with lifting eyes
Cooling System	Integrated radiator and fans mounted vertically for cooling
Instrumentation & Electrical	Integrated electrical cabinet with instruments and connections
Approx APU weight*	530 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



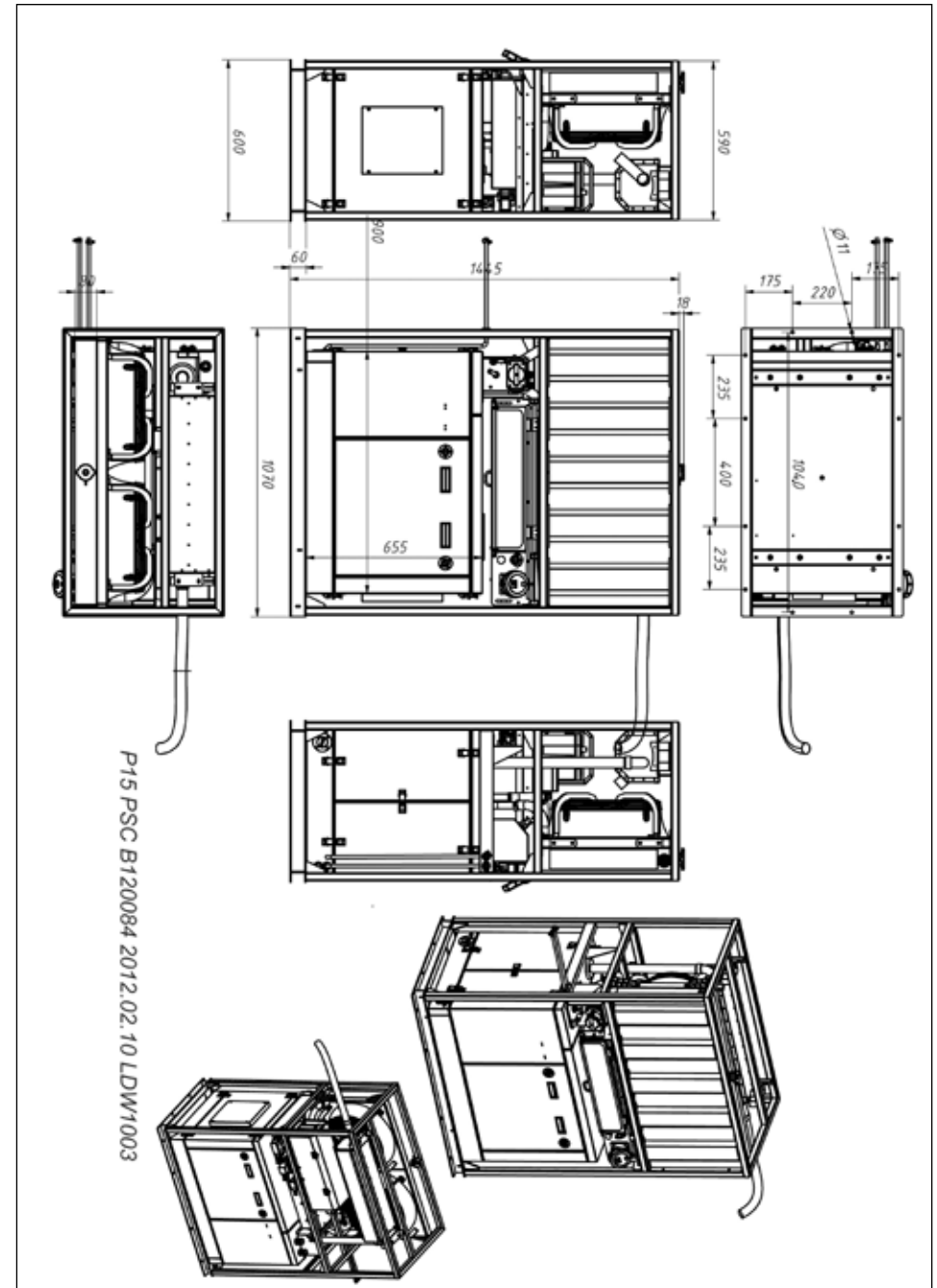
Reference: MRG_201618_REF_003_010

PANDA 15 PSC



Generator	Panda 15 PSC
	Water-cooled AC Generator
Constant Output	12,0 kW at sea level / +50 °C
Output Voltage	230 V / 400 V / 50 Hz
Output Current	3 x 17 A
Start System	24 V Electrical
Engine Manufacturer	Lombardini
Engine Type	LDW 1003
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F54, Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.5 - 4.2
Fuel Supply	Connections for external or vehicle fuel tank
Frame / Mounting	Complete unit mounted in a frame
Cooling System	Integrated radiator and fans mounted for cooling
Instrumentation & Electrical	19" rack with remote control panel and fast connectors for change
Approx APU weight*	500 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



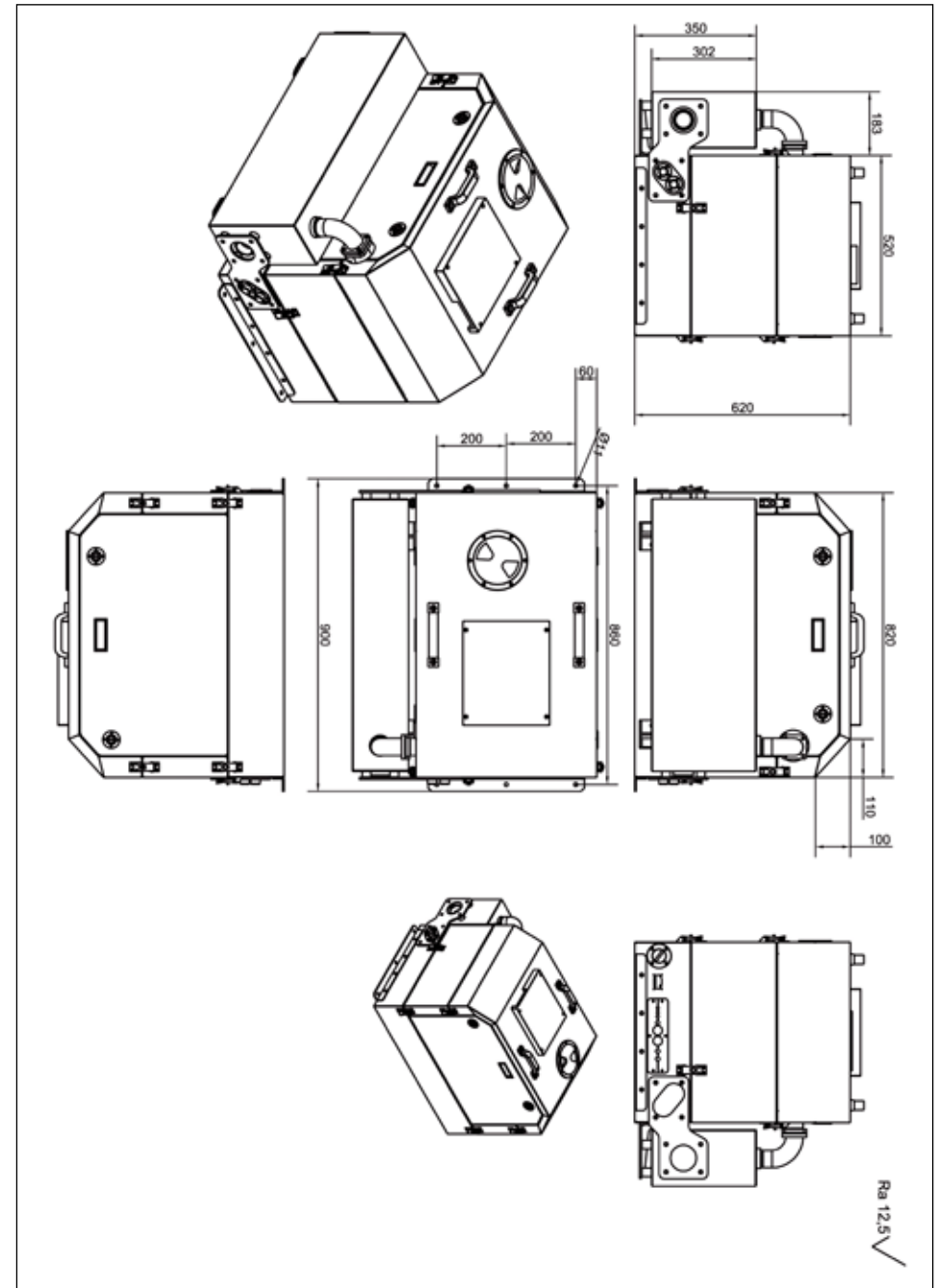
Reference: MRG_201618_REF_003_011

PANDA 18 PVM



Generator	Panda 18 PVM
	Water-cooled AC Generator
Constant Output	10 kW at 3000 m / +50 °C
Output Voltage	400 V AC 50 Hz
Output Current	22,1A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D 1105
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.5 - 3.5 l/h
Fuel Supply	Connections for external or vehicle fuel tank
Frame / Mounting	Generator mounted inside sound insulated capsule
Cooling System	External radiator and fan unit for cooling
Instrumentation & Electrical	Externally Mounted Panel
Approx APU weight*	368 kg (without radiator) (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



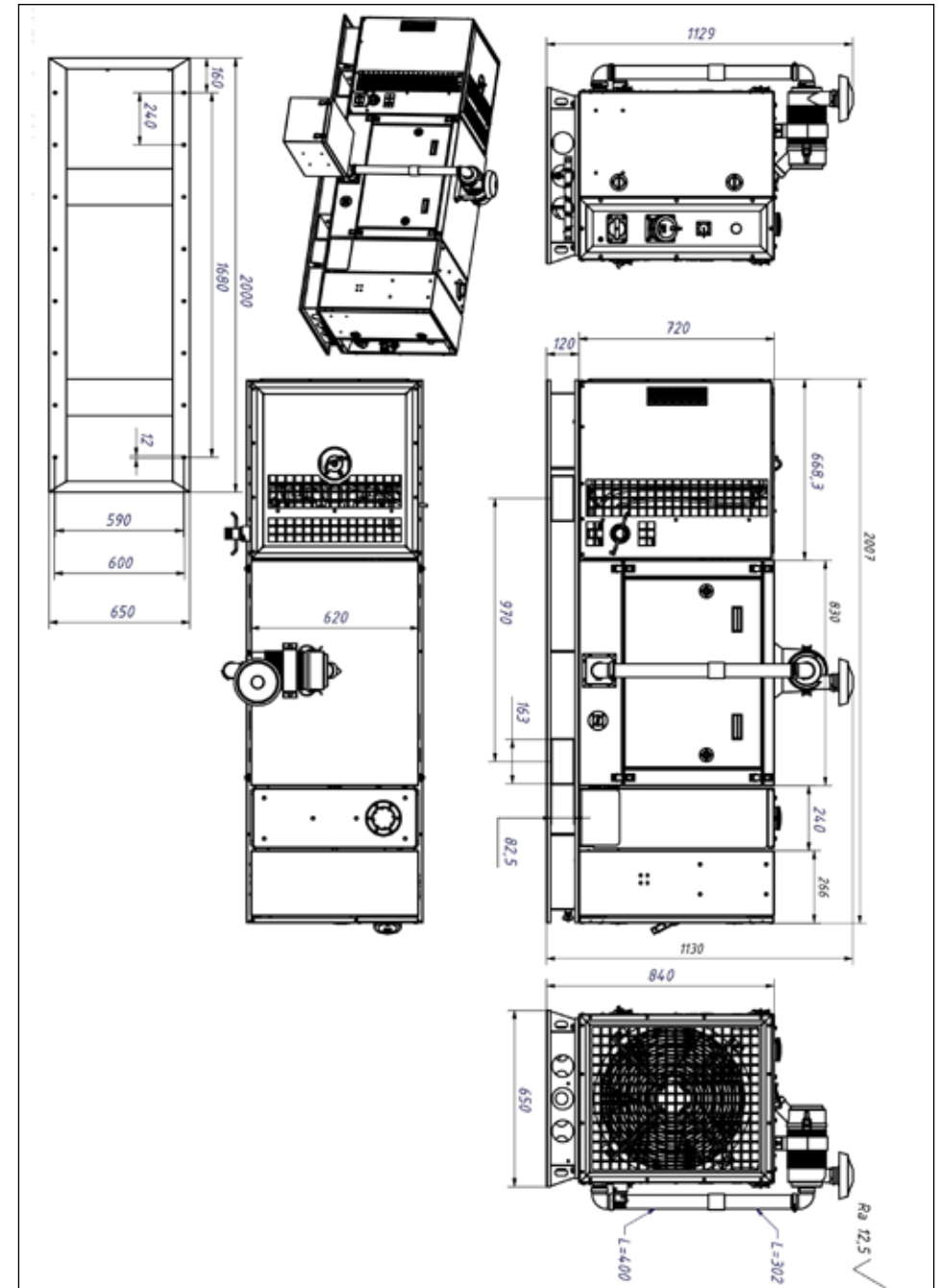
Reference: MRG_201618_REF_003_012

PANDA 18 PSC



Generator	Panda 18 PSC Water-cooled AC Generator
Constant Output	15 kW at 3000 m / +50 °C
Output Voltage	230 V / 400 V 3-phase 50 Hz
Output Current	3 x 21 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D 1105 T
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.5 -5.3 l/h
Fuel Supply	Integrated Fuel Tank (120 litre capacity)
Frame / Mounting	Self contained unit mounted on frame with fork lift pockets
Cooling System	Integrated radiator and fans mounted vertically for cooling
Instrumentation & Electrical	Integrated electrical cabinet with instruments and connections
Approx APU weight*	650 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



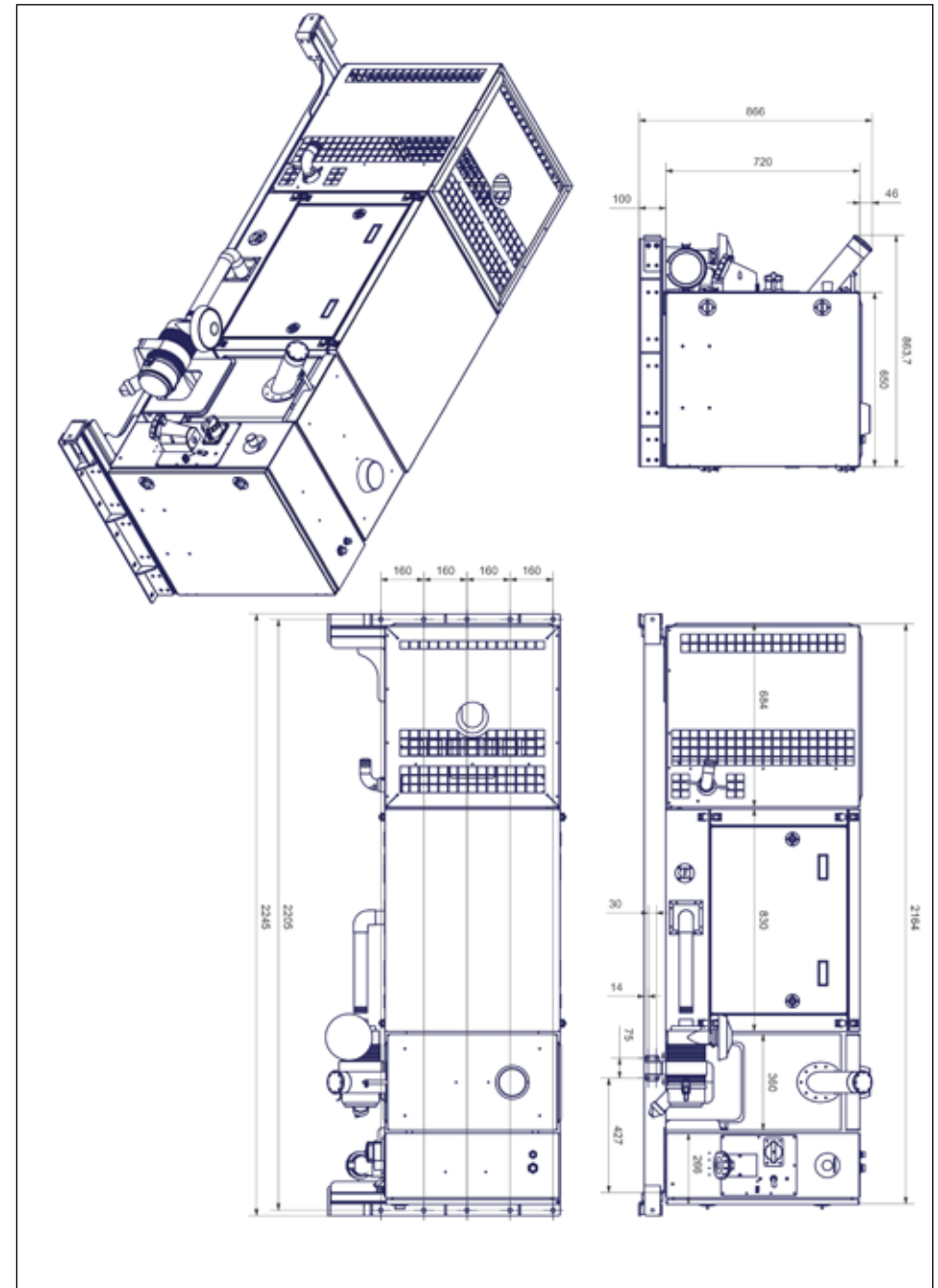
Reference: MRG_201618_REF_003_013

PANDA 18 PSC



Generator	Panda 18 PSC
	Water-cooled AC Generator
Constant Output	15 kW at 3000 m / +50 °C
Output Voltage	400 V 50 Hz
Output Current	3 x 21 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	V 1105
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.8 - 6.3 l/h
Fuel Supply	Integrated Fuel Tank
Frame / Mounting	Complete unit mounted on a frame
Cooling System	Integrated radiator and fans mounted vertically for cooling
Instrumentation & Electrical	Integrated electrical cabinet with instruments and connections
Approx APU weight*	750 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



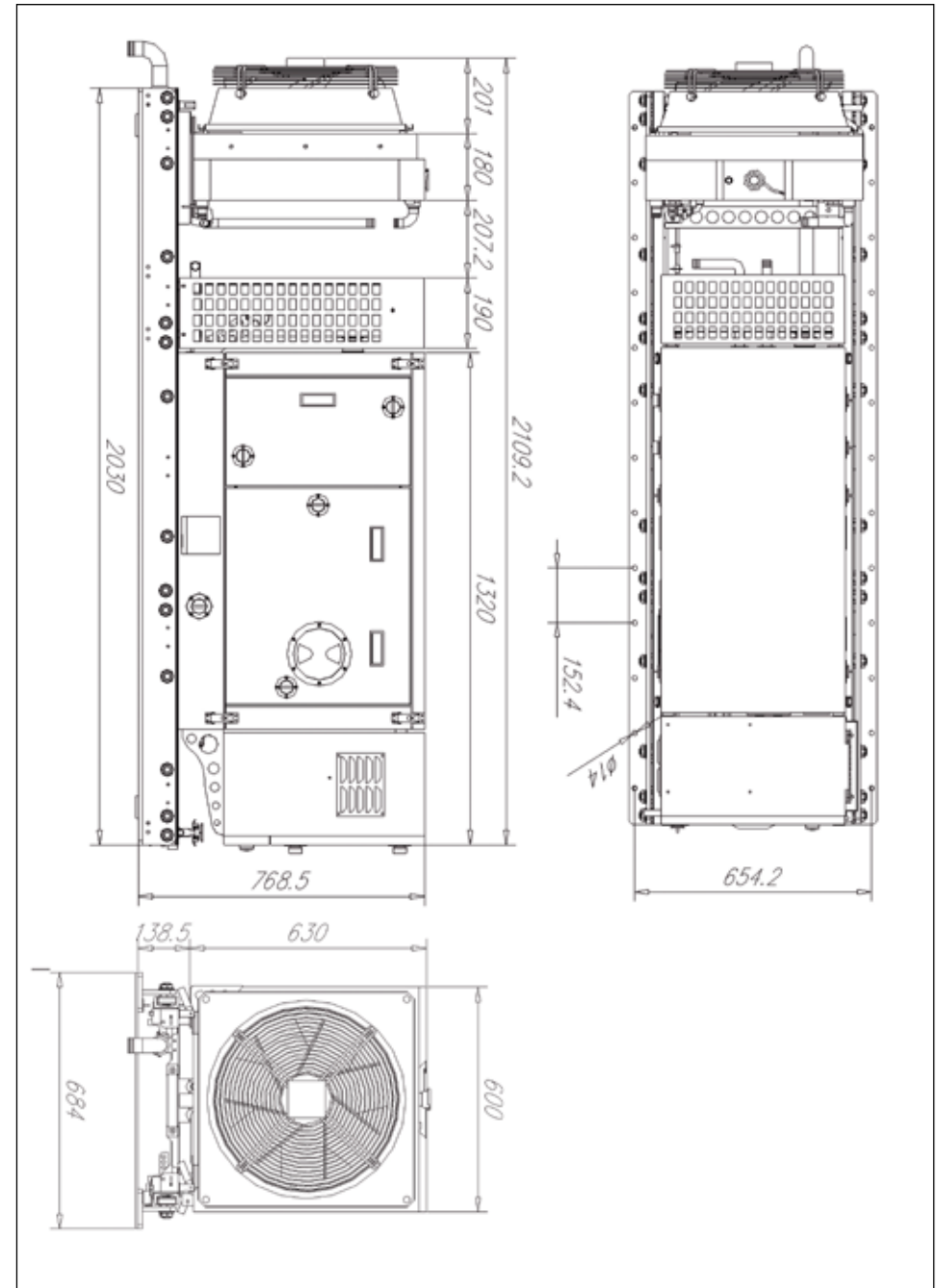
Reference: MRG_201618_REF_003_014

PANDA 18 SST



Generator	Panda 18 SST
	Water-cooled AC Generator
Constant Output	18 kW at 3000 m / +50 °C
Output Voltage	208 V 3-phase 60 Hz
Output Current	3 x 50 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	V 1505T
Engine Cylinders	4
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.8 - 6.3 l/h
Fuel Supply	Connections for external or vehicle fuel tank
Frame / Mounting	Slide mounted on rails for installation in HUMVEE Shelter
Cooling System	Integrated radiator and fans mounted vertically for cooling
Instrumentation & Electrical	Integrated electrical cabinet with instruments and connections
Approx APU weight*	560 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



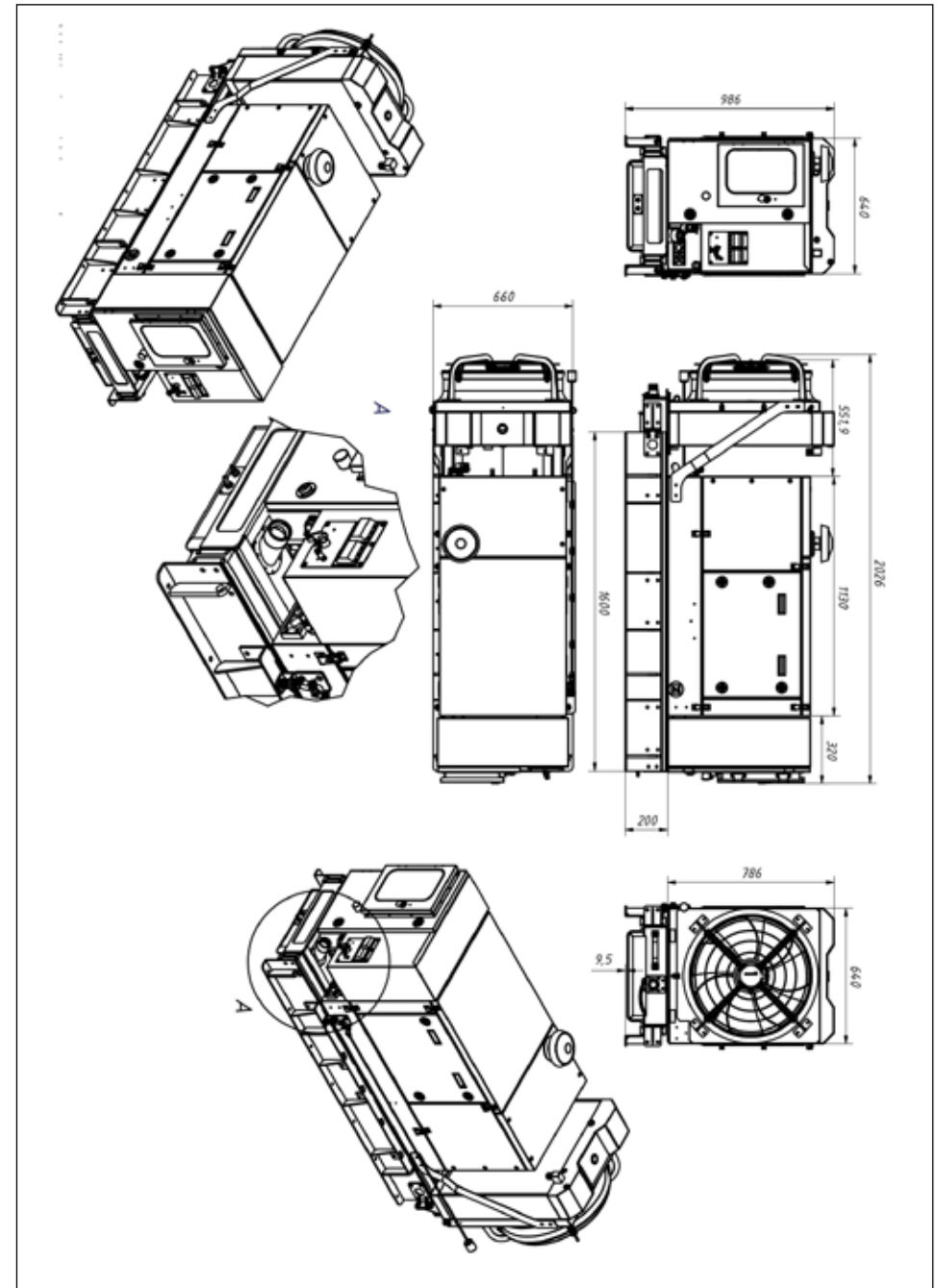
Reference: MRG_201618_REF_003_015

PANDA 24 PSC



Generator	Panda 24 PSC Water-cooled AC Generator
Constant Output	20 kW at 3000 m / +50 °C
Output Voltage	230 V / 400 V / 50 Hz
Output Current	3 x 30 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	V 1505 T
Engine Cylinders	4
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.8 - 7.0 l/h
Fuel Supply	Integrated Fuel Tank (85 litre capacity)
Frame / Mounting	Self contained unit - slide mounted on rails
Cooling System	Integrated radiator and fan unit for cooling
Instrumentation & Electrical	Integrated electrical cabinet with instruments and connections
Approx APU weight*	850 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



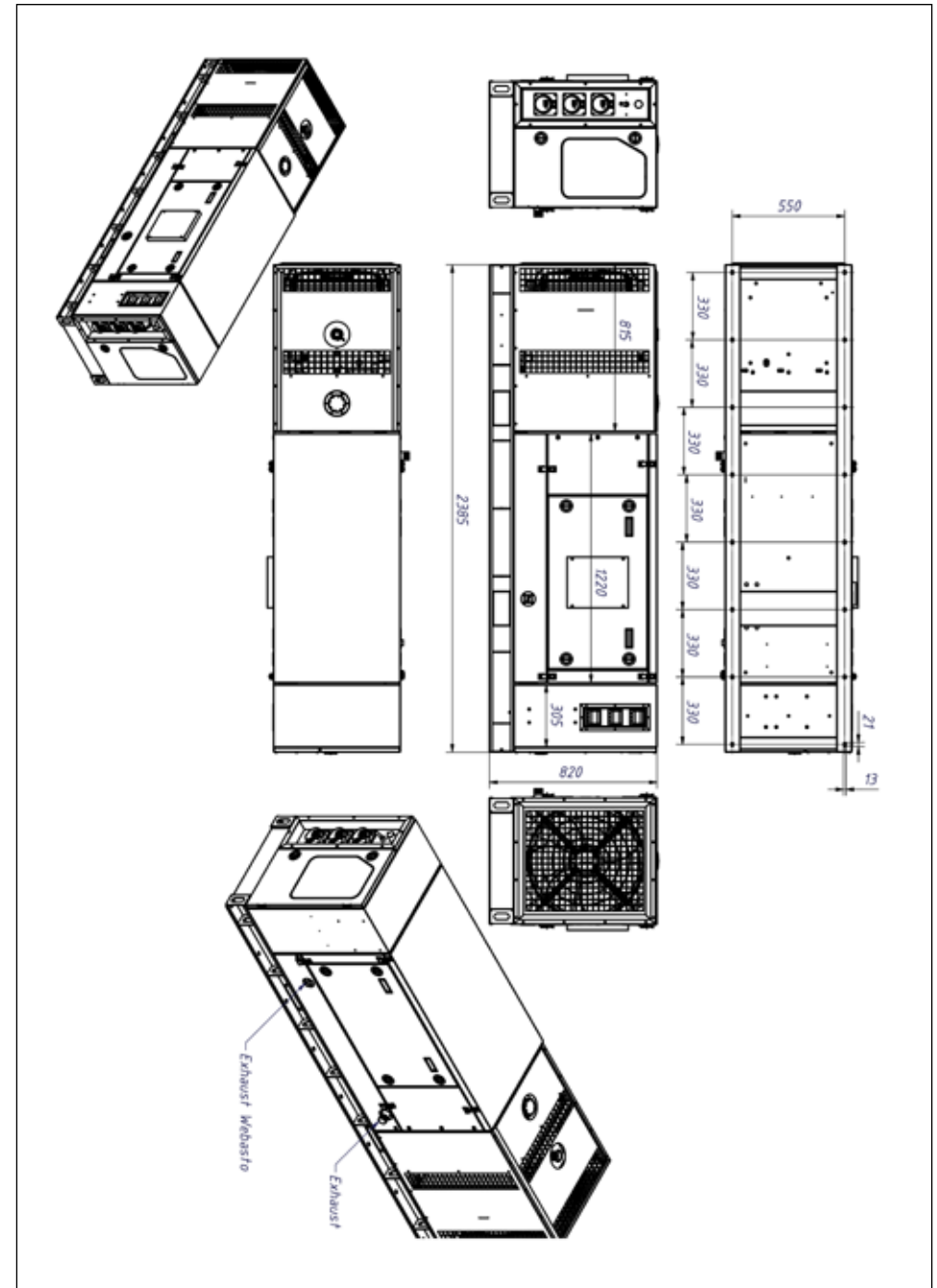
Reference: MRG_201618_REF_003_016

PANDA 24 PSC



Generator	Panda 24 PSC
	Water-cooled AC Generator
Constant Output	20,5 kW at sea level / +45°C
Output Voltage	230 V / 400 V / 50 Hz
Output Current	3 x 29 A
Start System	12V Electrical
Engine Manufacturer	Kubota
Engine Type	V 1505
Engine Cylinders	4
Engine Operating Temp. Range	-40 up to +45°C (other temperature ranges on request)
Fuel Types	F 34, F54, Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.8 - 7.2 l/h
Fuel Supply	Integrated Fuel Tank (90 litre capacity)
Frame / Mounting	Complete unit mounted on a frame
Cooling System	Integrated radiator and fans mounted for cooling
Instrumentation & Electrical	Integrated electrical cabinet
Approx APU weight*	882 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



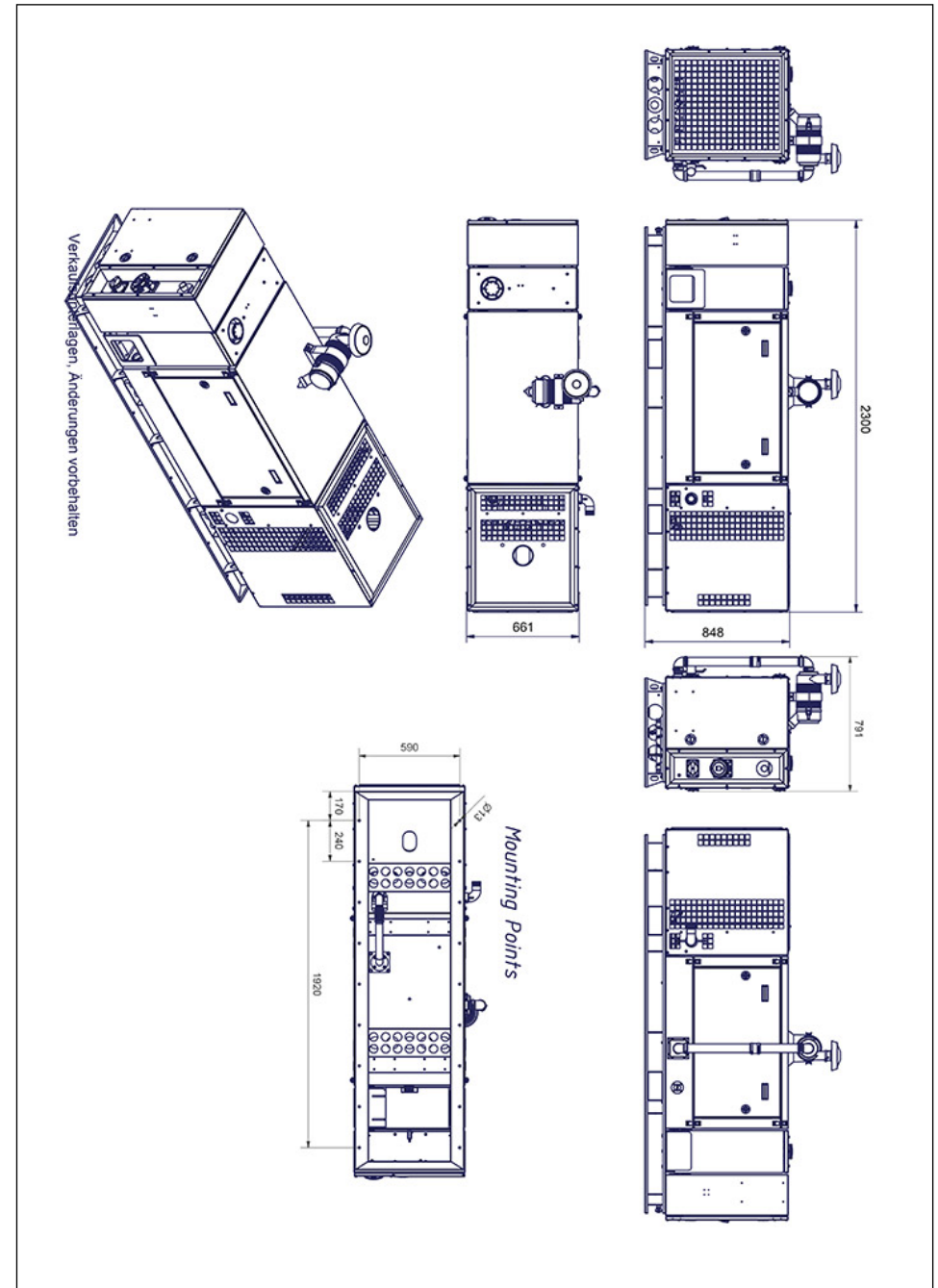
Reference: MRG_201618_REF_003_017

PANDA 30 PSC



Generator	Panda 30 PSC Water-cooled AC Generator
Constant Output	20 kW at 3000 m / +50 °C
Output Voltage	230 V / 400 V / 50 Hz
Output Current	3 x 29 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	V1505 T
Engine Cylinders	4
Engine Operating Temp. Range	-30 °C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.8 - 7.0 l/h
Fuel Supply	Integrated Fuel Tank (100 litre capacity)
Frame / Mounting	Self contained unit mounted on frame with fork lift pockets
Cooling System	Integrated radiator and fans mounted vertically for cooling
Instrumentation & Electrical	Integrated electrical cabinet with instruments and connections
Approx APU weight*	750 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



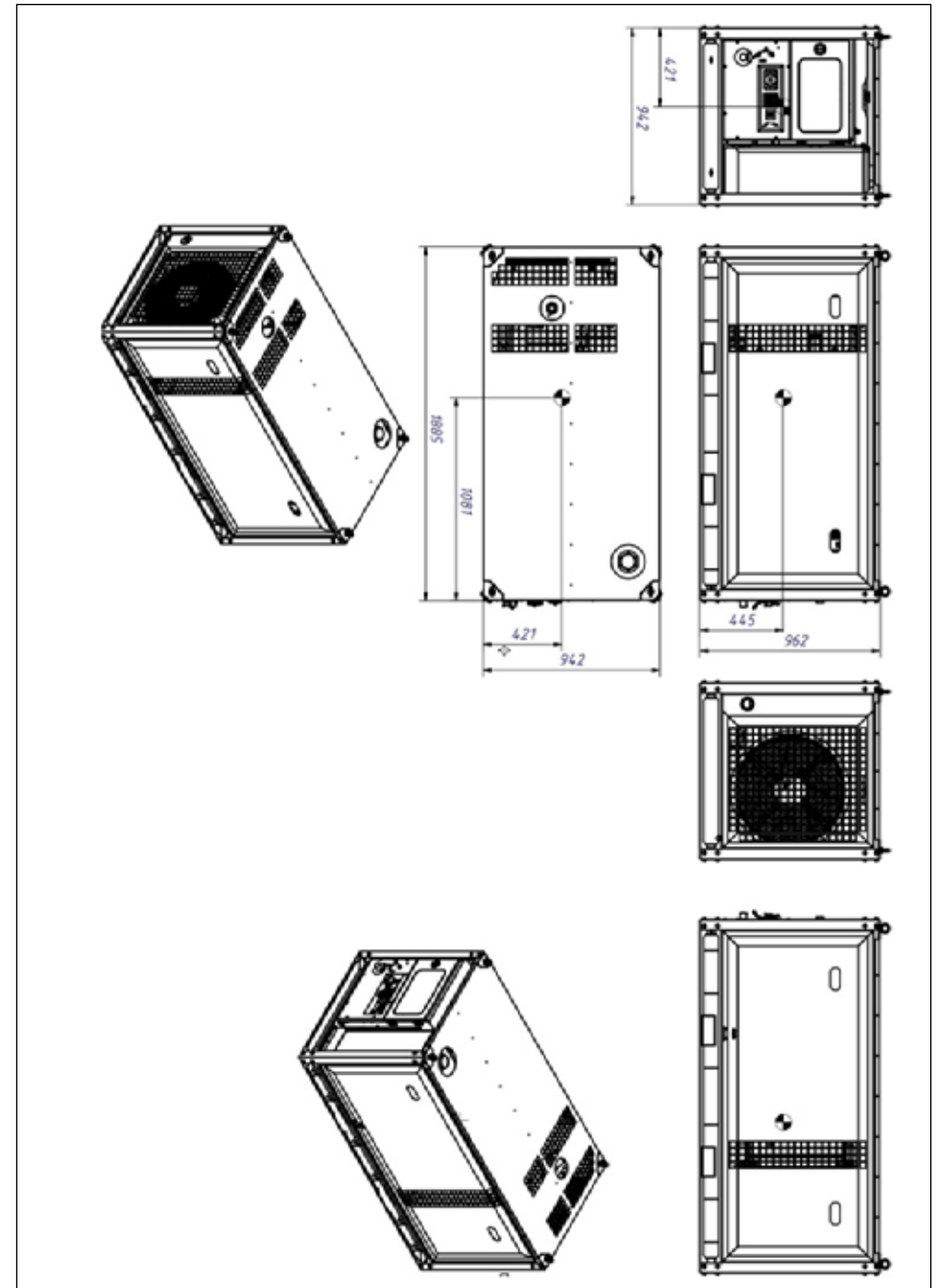
Reference: MRG_201618_REF_003_018

PANDA 30 PSC



Generator	Panda 30 PSC
	Water-cooled AC Generator
Constant Output	22 kW @ 3000 m / +50 °C
Output Voltage	230 V / 400 V 3-phase / 50 Hz
Output Current	3 x 32 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	V 1505T-IC
Engine Cylinders	4
Engine Operating Temp. Range	-32°C up to +55°C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.8 - 7.0 l/h
Fuel Supply	Integrated 200 litre fuel tank
Frame / Mounting	Self contained unit mounted in frame with fork lift pockets and lifting eyes
Cooling System	Integrated radiator and fans mounted vertically for cooling
Instrumentation & Electrical	Integrated electrical cabinet, instruments and connections
Approx APU weight*	950 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



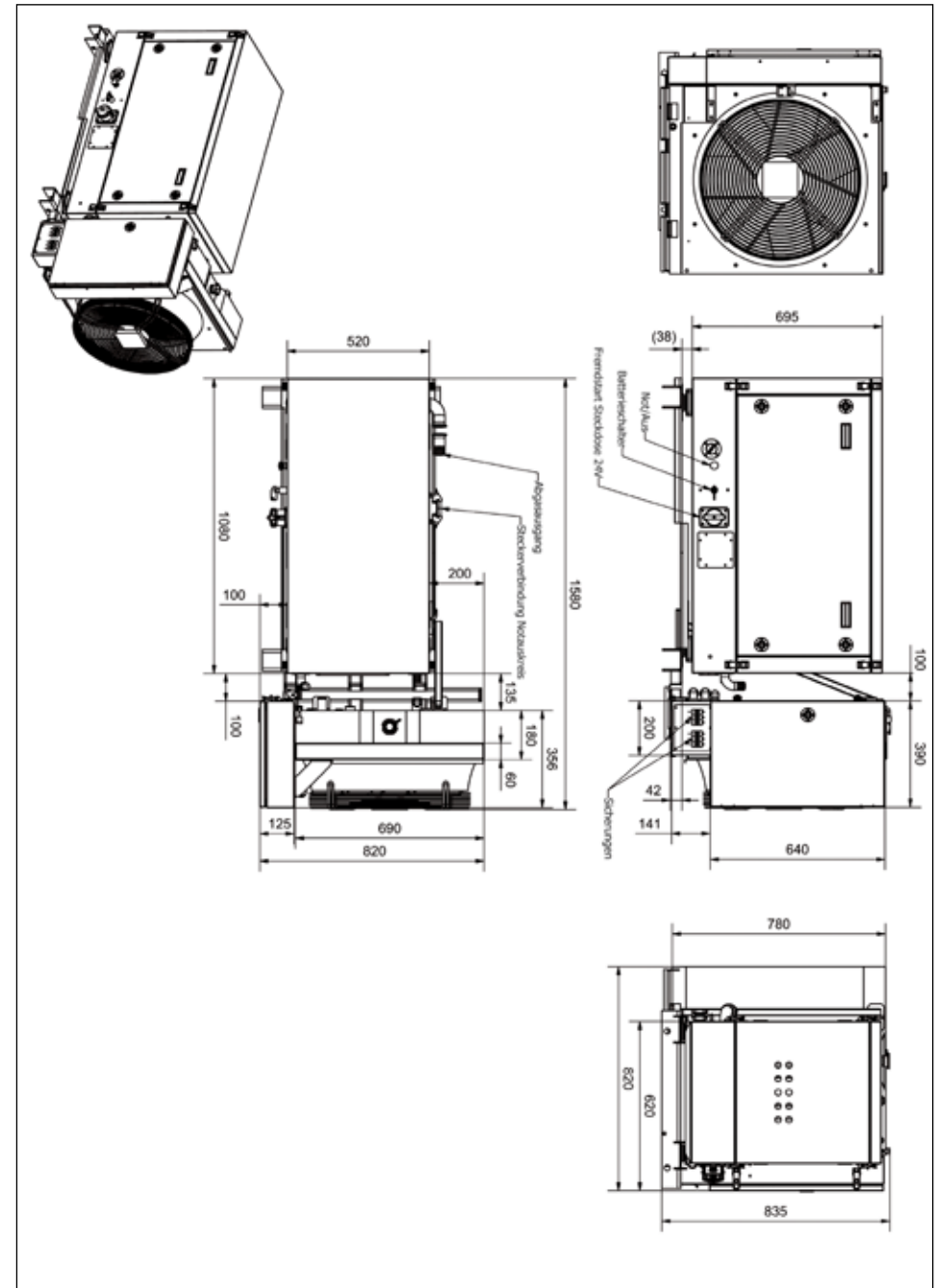
Reference: MRG_201618_REF_003_020

PANDA 30 PVMV-N



Generator	Panda 30 PVMV-N Water-cooled AC Generator
Constant Output	20 kW at 3000 m / +50 °C
Output Voltage	230 V / 400 V / 50 Hz
Output Current	3 x 29 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	V 1505 T
Engine Cylinders	4
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.8 - 7.0 l/h
Fuel Supply	Connections for external or vehicle fuel tank
Frame / Mounting	Unit mounted on frame
Cooling System	Integrated radiator and fans mounted vertically for cooling
Instrumentation & Electrical	Integrated electrical cabinet with instruments and connections
Approx APU weight*	580 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



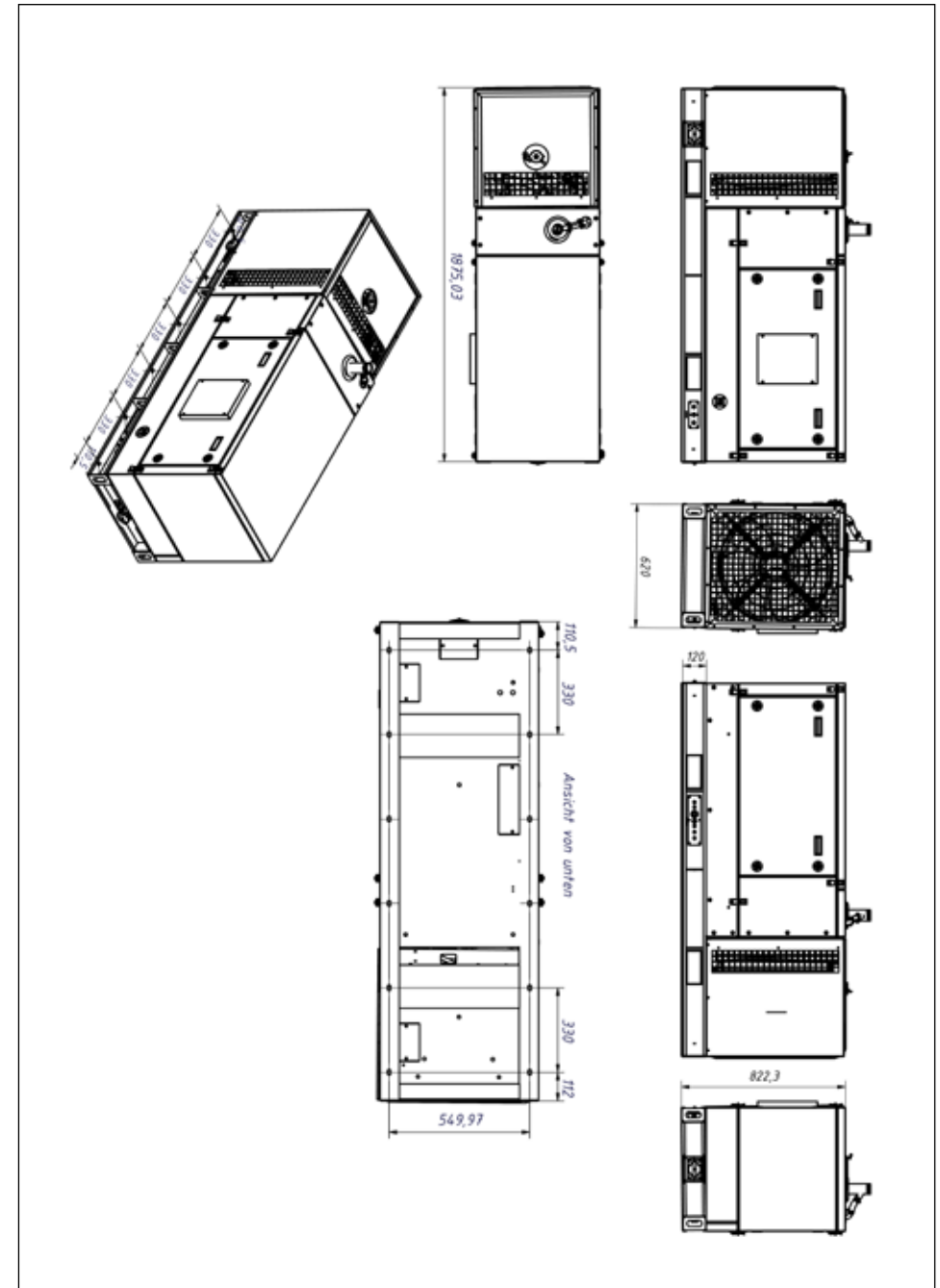
Reference: MRG_201618_REF_003_023

PANDA 30 PVMV-N



Generator	Panda 30 PVMV-N
	Water-cooled AC Generator
Constant Output	25,5 kW at sea level / +45°C
Output Voltage	230 V / 400 V / 50 Hz
Output Current	3 x 36 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	V 1505T
Engine Cylinders	4
Engine Operating Temp. Range	-32°C up to +45°C (other temperature ranges on request)
Fuel Types	F 34, F54, Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.8 - 9.0 l/h
Fuel Supply	Connections for external or vehicle fuel tank
Frame / Mounting	Generator mounted on a frame with fork lifter inlets
Cooling System	Integrated radiator and fans mounted for cooling
Instrumentation & Electrical	External remote control panel
Approx APU weight*	750 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



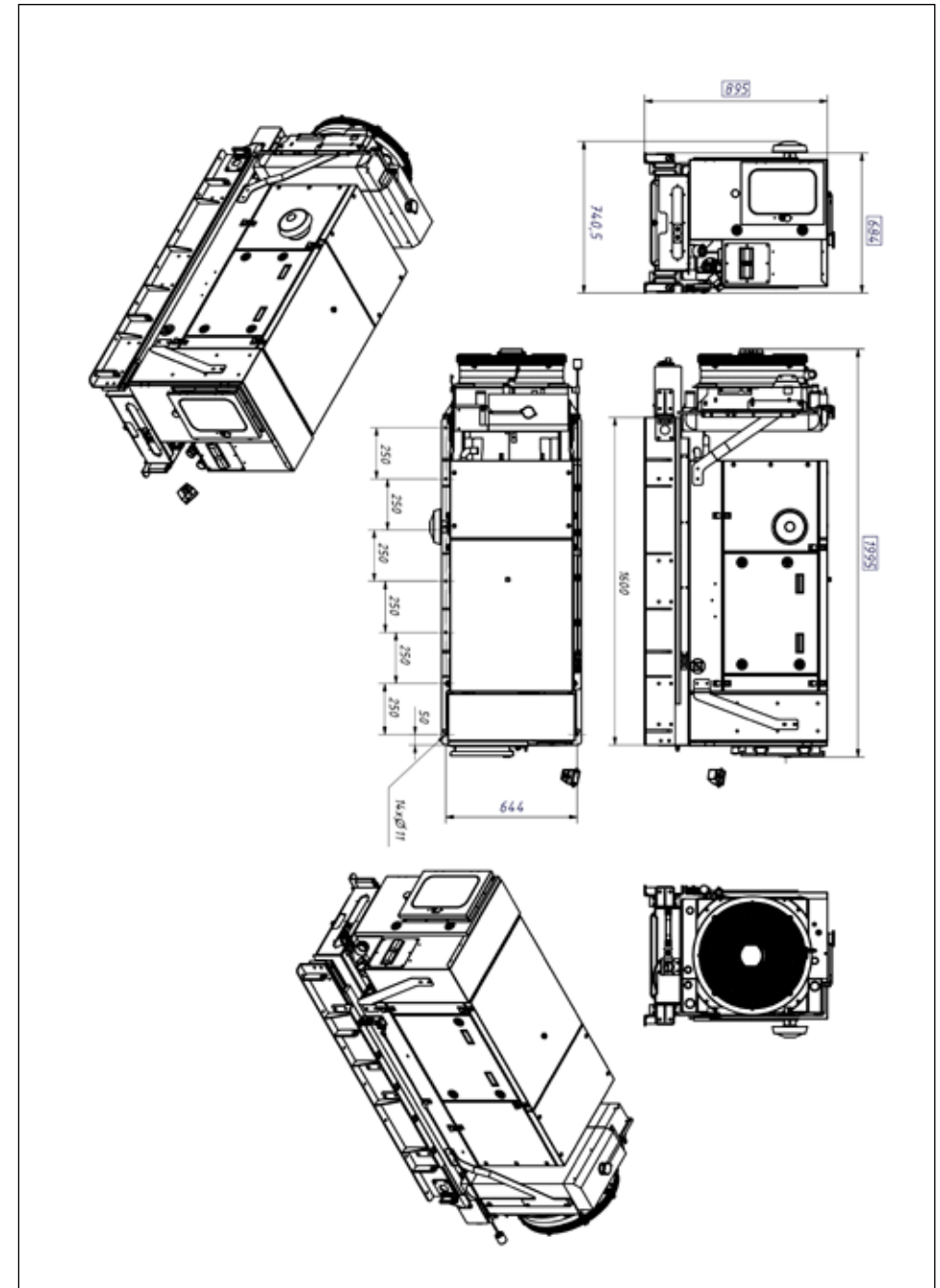
Reference: MRG_201618_REF_003_025

PANDA 30 PSC



Generator	Panda 30 PSC
Constant Output	23,0 kW at Sea Level
Output Voltage	230 V / 400 V / 50 Hz
Output Current	3 x 36.8 A
Start System	24 V DC Electrical
Engine Manufacturer	Kubota
Engine Type	V 1505 T
Engine Cylinders	4
Engine Operating Temp. Range	-32°C up to +50°C
Fuel Types	F34, F54, Standard automotive diesel fuel, kerosene, JP8, JP5, JET A1
Approx. Fuel Consumption	1.8 – 7 l/h
Fuel Supply	Integrated Fuel Tank (80 litre capacity)
Frame / Mounting	Self contained unit – slide mounted on rails
Cooling System	Integrated radiator and fan unit for cooling
Instrumentation & Electrical	Integrated electrical cabinet with instruments, FP Control Panel and connectors. Autostart function on loss of land/shore power Auxiliary Heating Unit
Approx APU weight*	750 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



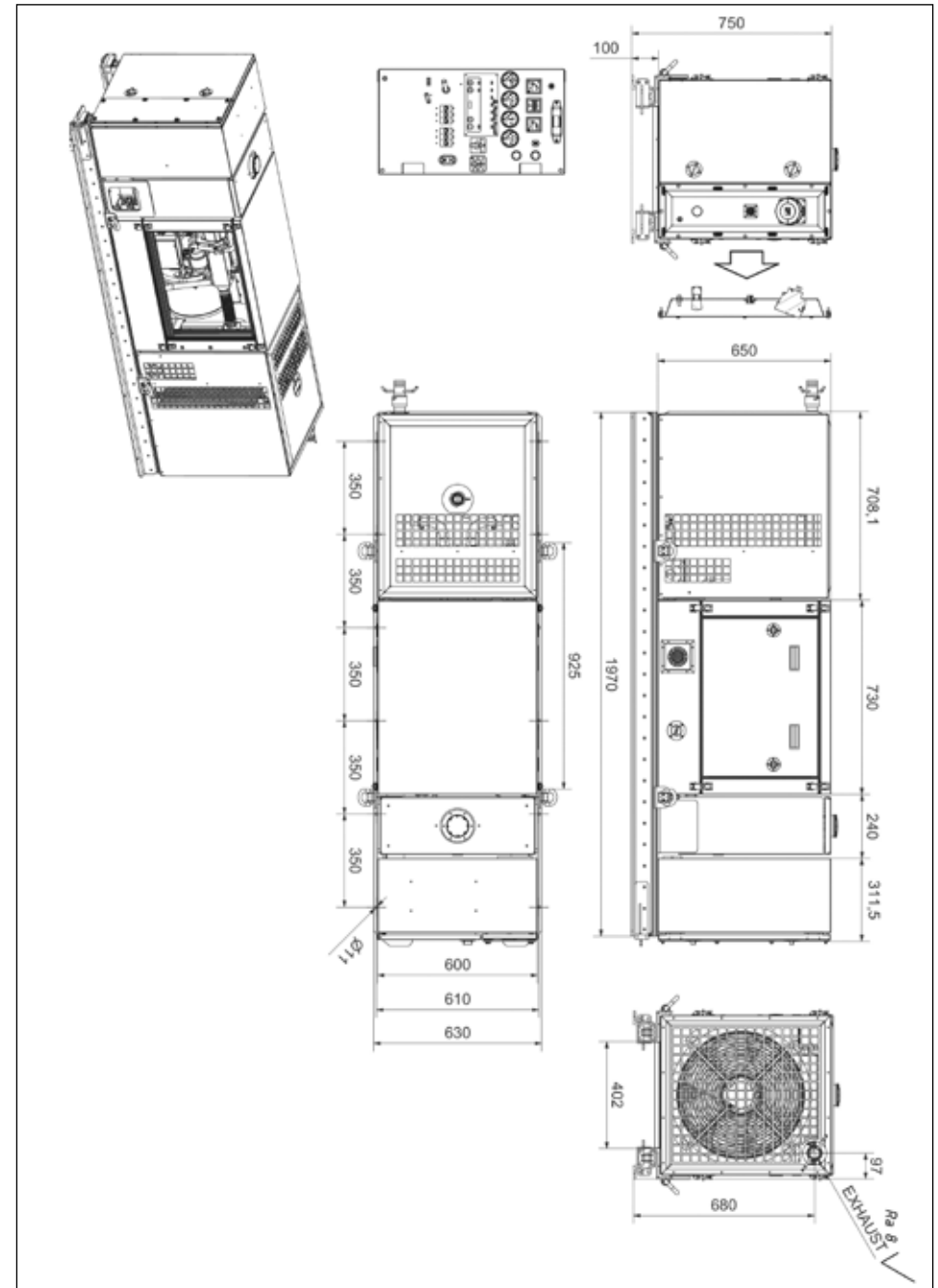
Reference: P30 PSC 400-50-3 M4 SV08

PANDA AGT 6000 PSC



Generator	Panda AGT 6000 PSC
	Water-cooled AC Generator
Constant Output	6 kW at 3000 m / +50 °C
Output Voltage	240 / 416 V AC 400 Hz or 120 / 208 V AC 400 Hz
Output Current	3 x 8.3 A or 3 x 16.6 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D722
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	0.6 - 2.1 l/h
Fuel Supply	Integrated Fuel Tank (50 litre capacity)
Frame / Mounting	Self contained unit mounted on frame with fork lift pockets
Cooling System	Integrated radiator and fans mounted vertically for cooling
Instrumentation & Electrical	Integrated electrical cabinet with instruments and connections
Approx APU weight*	468 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



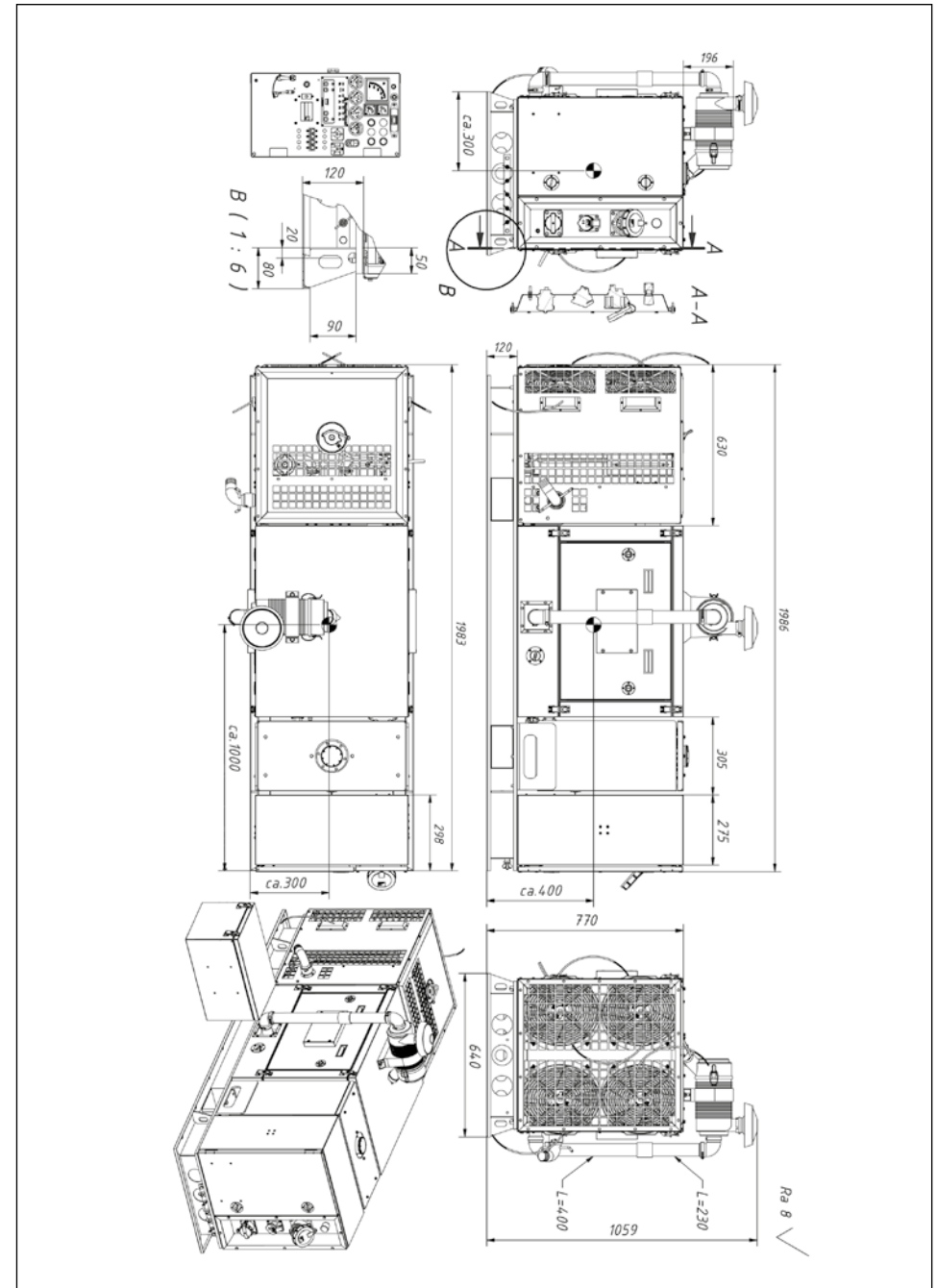
Reference: MRG_201618_REF_004_001

PANDA AGT 12000 PSC



Generator	Panda AGT 12000 PSC
	Water-cooled AC 400 Hz Generator
Constant Output	12,0 kW at 3000 m / +50 °C
Output Voltage	120 V / 208 / 400 Hz or 240 / 416 / 400 Hz
Output Current	3 x 33 A or 3 x 16.7 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D902 + Turbo
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.0 - 4.2 l/h
Fuel Supply	Integrated Fuel Tank (70 litre capacity)
Frame / Mounting	Self contained unit - slide mounted on rails
Cooling System	Integrated radiator and fans mounted vertically for cooling
Instrumentation & Electrical	Integrated electrical cabinet with instruments and connections
Approx APU weight*	530 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.

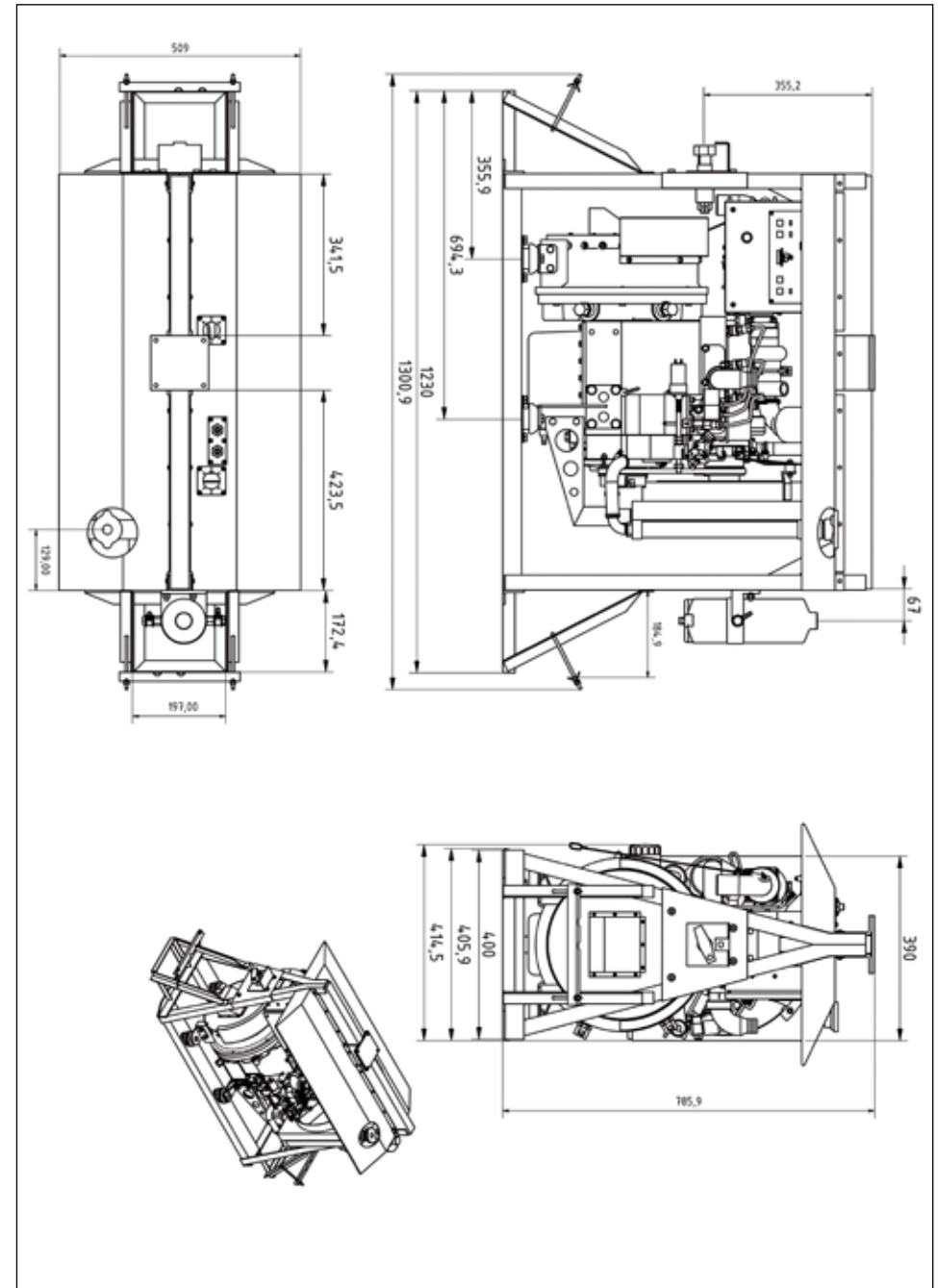


Reference: MRG_201618_REF_004_003

PANDA AGT 10000



Generator	Panda AGT 10000 Water-cooled AC 400 Hz Generator (Balloon)
Constant Output	10 kW at 3000 m / +50 °C
Output Voltage	120 V / 208 V / 400 Hz or 240 V / 416 / 400 Hz
Output Current	3 x 28 A or 3 x 14 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D722 + Turbo
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.0 -3.5 l/h
Fuel Supply	Connections for external supply
Frame / Mounting	Unit mounted on open frame
Cooling System	Integrated radiator and fans for cooling
Instrumentation & Electrical	Panel mounted on frame
Approx APU weight*	150 / 222 kg (dry)



Reference: MRG_201618_REF_004_004

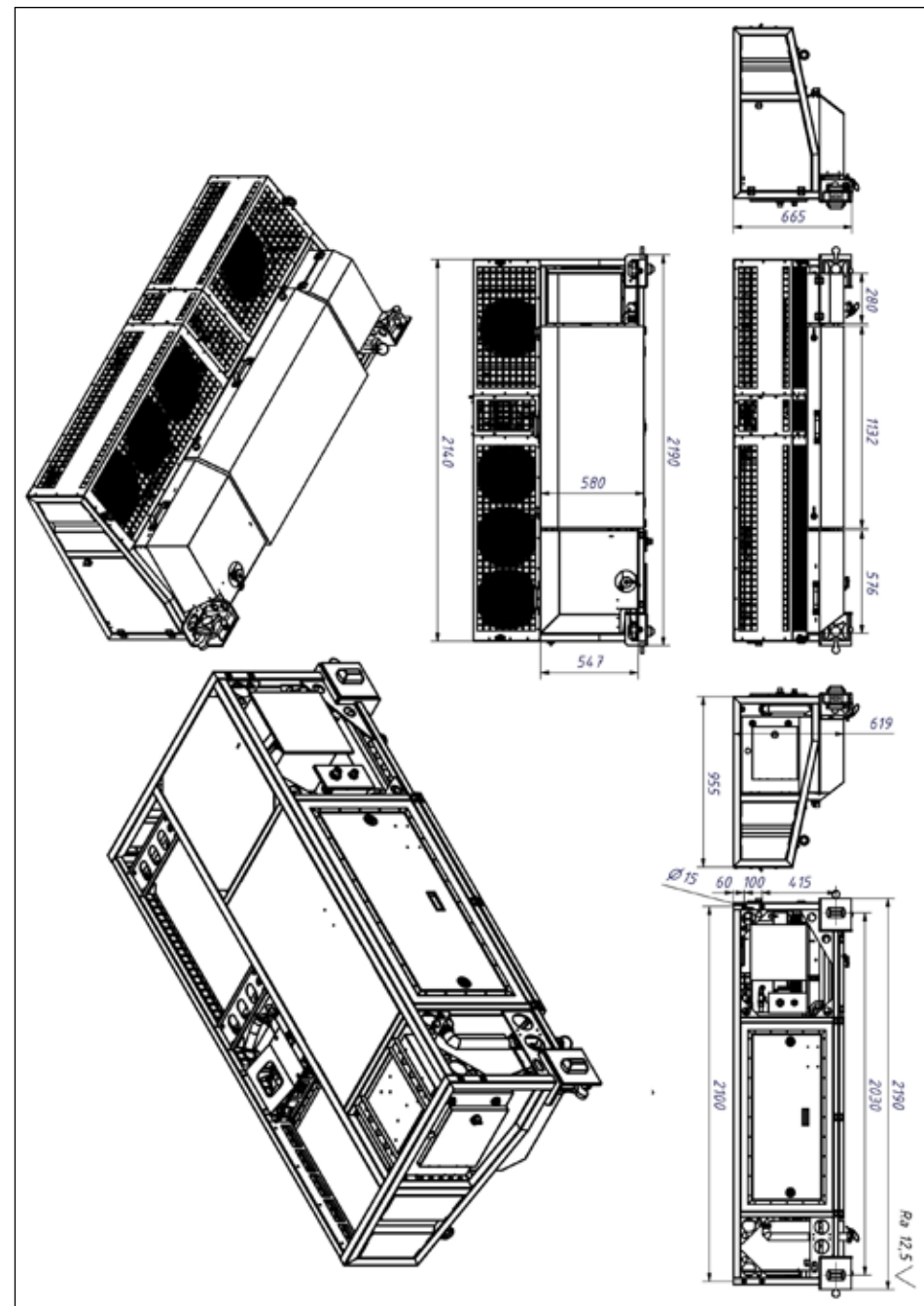
*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.

PANDA 8000 COMBO FENNEC



Generator	Panda 8000 Combo FENNEC Generator with ECU for shelter
Constant Output	6 kW electrical + 6 kW cooling at 3000 m / +50 °C + 8 kW Heat (20000 BTU)
Output Voltage	230 V / 50 Hz (400 V / 3-phase on request)
Output Current	1 x 27.8 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D1105
Engine Cylinders	3
Engine Operating Temp. Range	-20 °C up to +55 °C (-32 °C up to 60 °C on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.0 - 4.5 l/h
Fuel Supply	Connections for external or vehicle fuel tank
Frame / Mounting	Connection for shelter mounting / ISO corner casting
Cooling System	Integrated radiator and fans for cooling
Instrumentation & Electrical	Integrated electrical cabinet with instruments and connections
Approx APU weight*	760 kg (wet)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



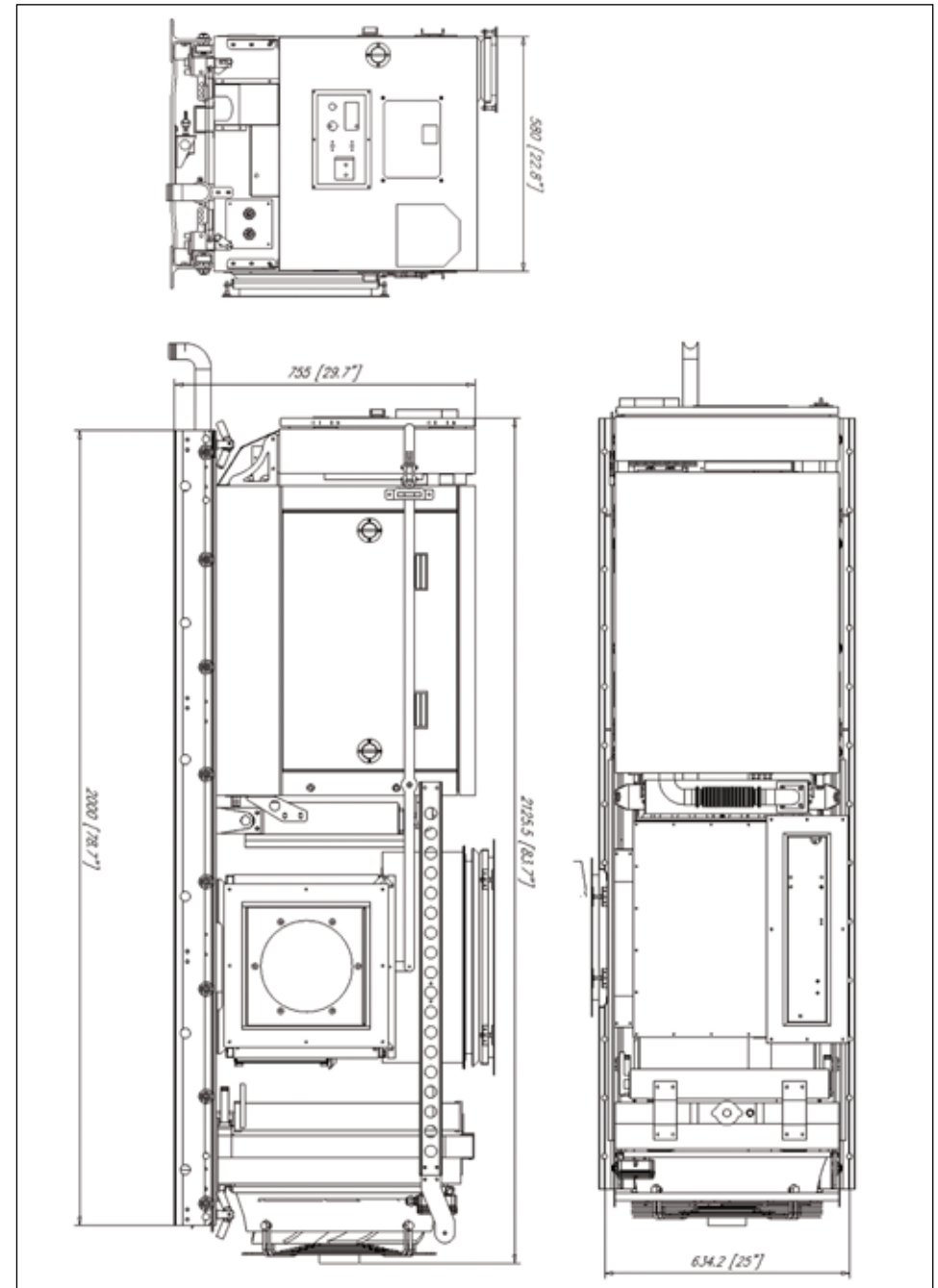
Reference: MRG_201618_REF_005_001

PANDA 10 SST COMBO



Generator	Panda 10 SST Combo Combo-Unit Generator + 18.000 BTU ECU
Constant Output	10 kW electrical or 5kW + 4kW cooling at 3000 m / +50 °C
Output Voltage	230 V / 400 V / 50 Hz three phase
Output Current	3 x 14.5 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	D722 + Turbo
Engine Cylinders	3
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F 54 ,Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	1.0 - 3.5 l/h
Fuel Supply	Connections for external or vehicle fuel tank
Frame / Mounting	Slide mounted on rails for installation in HUMVEE Shelter
Cooling System	Integrated radiator and fans for cooling
Instrumentation & Electrical	Integrated electrical cabinet with instruments and connections
Approx APU weight*	450 kg (dry)

*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



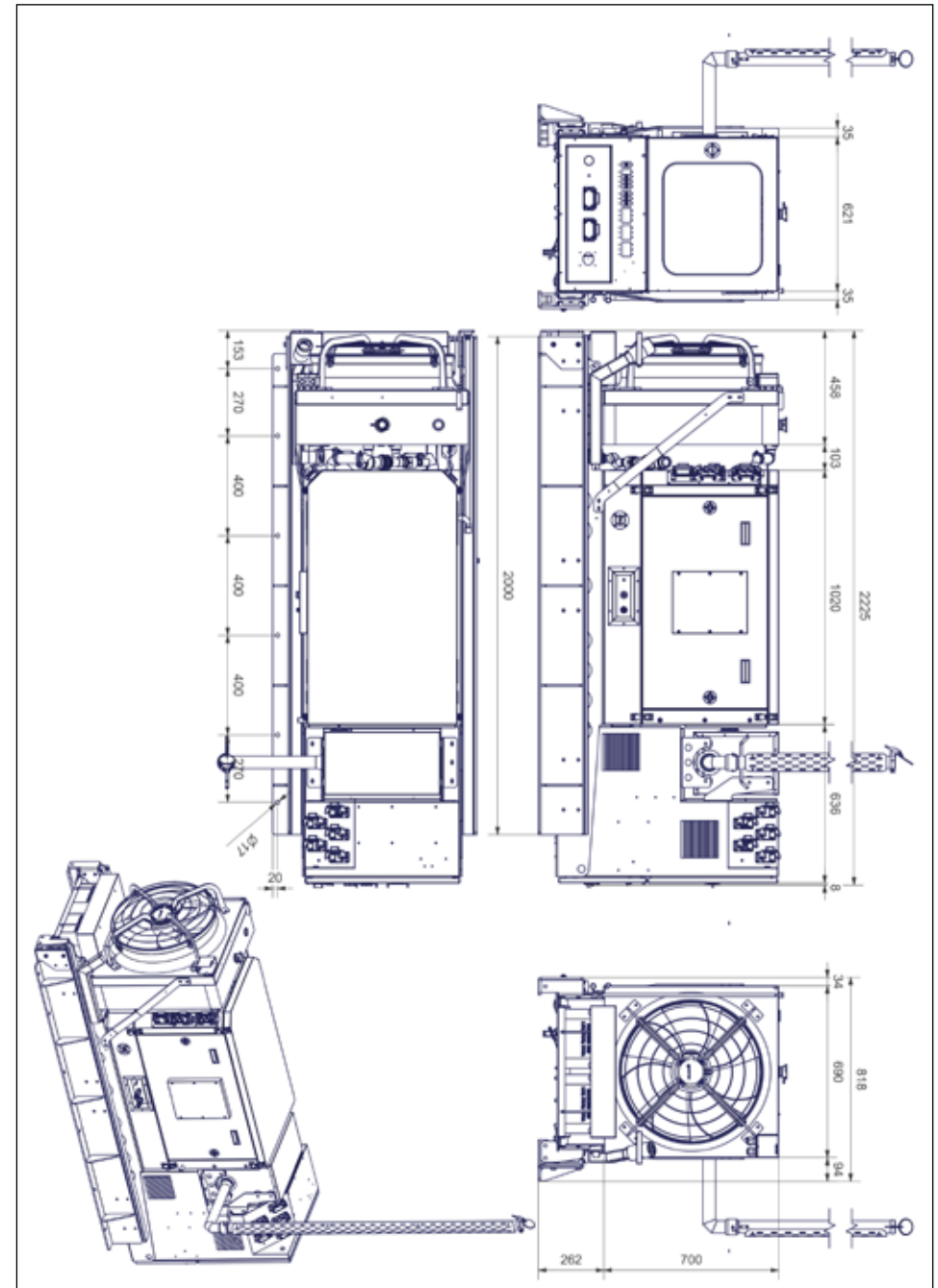
Reference: MRG_201618_REF_005_002

PANDA 30 CAPS



Generator	Panda 30 CAPS Combined generator + aircon + heating # Built to comply with MIL STD 461E / MIL STD 810F # Ambient temperature - 46°C up to + 60 °C
Constant Output	up to 20 kW elec. / 2 x 8 kW cooling at 3000 m / +50 °C
Output Voltage	400 V 3-phase AC 50 Hz
Output Current	3 x 29 A
Start System	24 V Electrical
Engine Manufacturer	Kubota
Engine Type	V 1505 T
Engine Cylinders	4-cylinder
Engine Operating Temp. Range	-32°C up to +50 °C (other temperature ranges on request)
Fuel Types	F 34, F54, Standard automotive diesel fuel, kerosene, JP 8, JP 5, JET A
Approx. Fuel Consumption ¹⁾	2.7 - 7.1 l / h (7-8 l/h fully loaded)
Fuel Supply	Internal (approx. 100 litres) with connections for an external supply source
Frame / Mounting	Mounted on rails. Design for container application
Cooling System	Integrated radiator and fans mounted for cooling
Instrumentation & Electrical	Features a fully external control unit for mounting within container.
Approx APU weight*	approx. 2000 kg (dry)

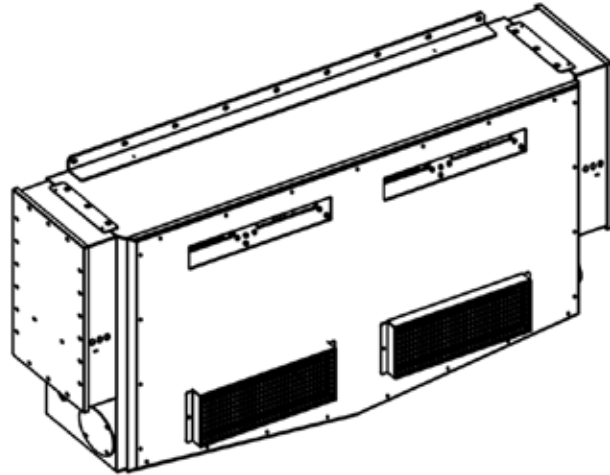
*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



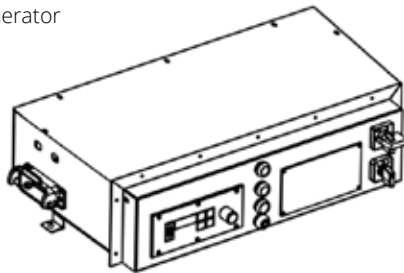
Reference: MRG_201618_REF_005_010

CAPS - Primary components

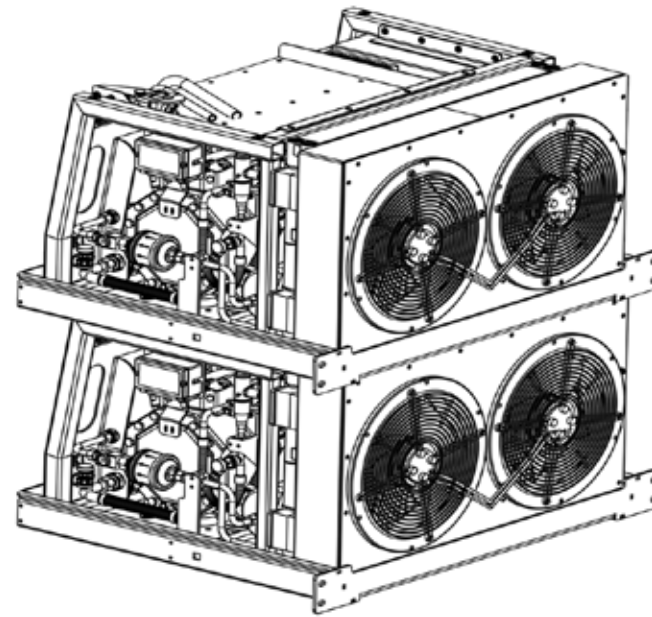
Wall mounted evaporator - WEV2



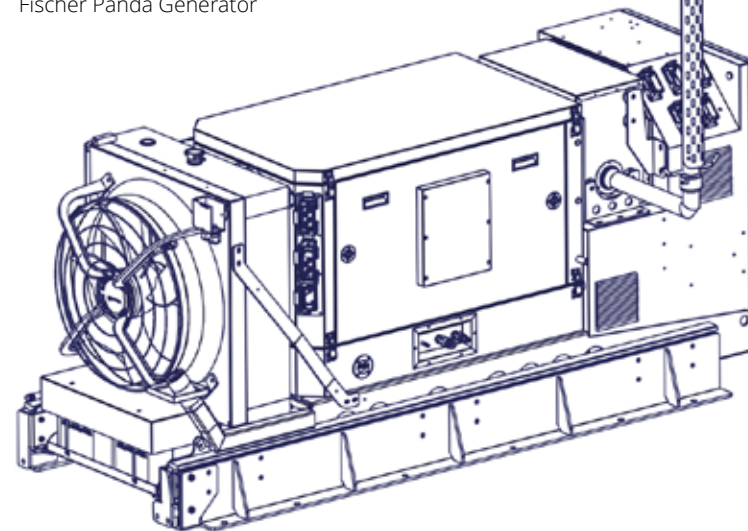
Control unit for mounting inside container - containing panel for ECU and generator



Compact compressor unit (cascadable) - CCU3

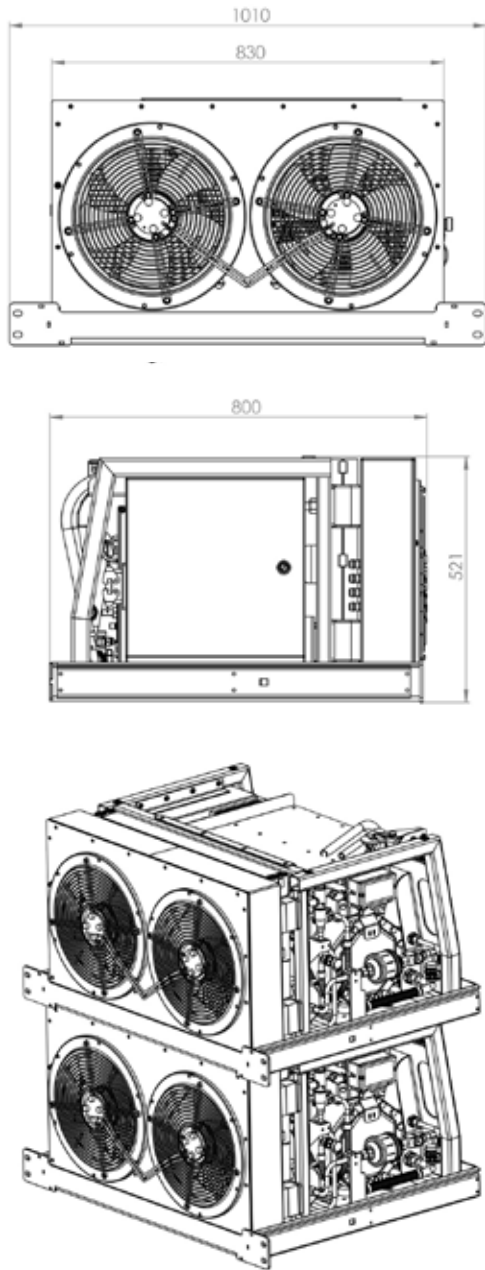


Fischer Panda Generator

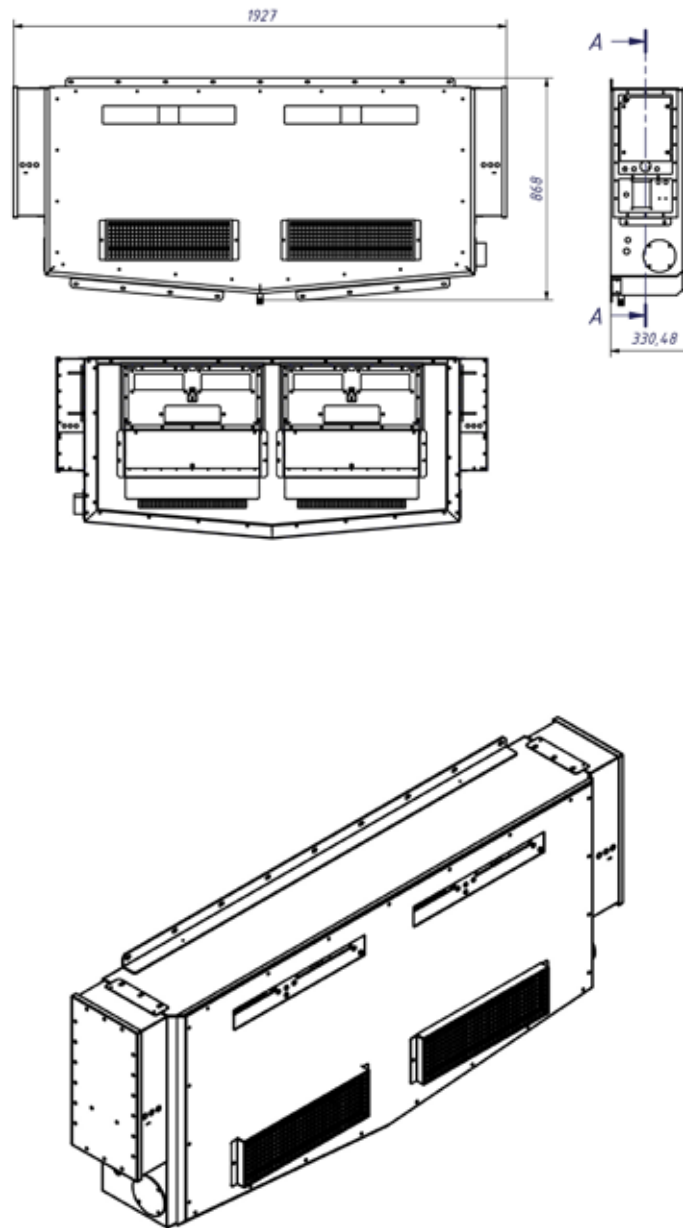


*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.

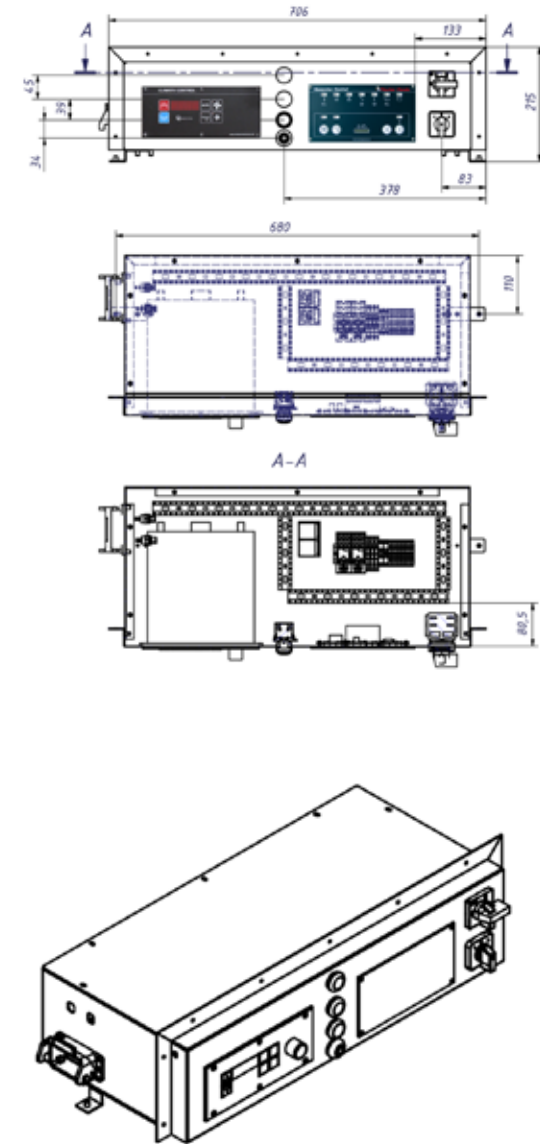
Compact compressor unit
(cascadable) - CCU3



Wall mounted evaporator - WEV2



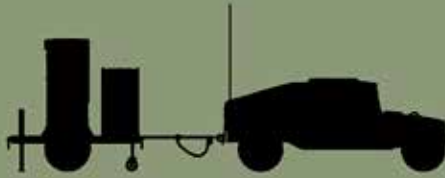
Control unit for mounting inside container -
containing panel for ECU and generator



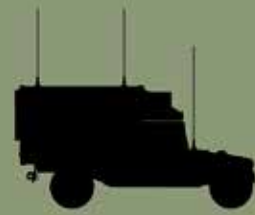
*Note the wet weight for APUs with integrated fuel tanks is excluding fuel unless stated.



Communications



Mobile workshops / chassis mounted units



Command and control systems



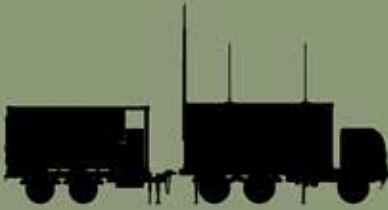
Tracked command posts



Mobile Tactical Shelters



Recce / AFVs



Trailer mounted APUs



DROPS / PLS based applications



Tactical shelters / command headquarters



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Disclaimer:

The information contained here is to the best of our knowledge accurate at the date of publication. Please note that the data in this publication reflects the technical state at time of print. Dimensions apply for the sound insulation capsule only and do not include latches, fittings etc. Additional room will need to be calculated for installation to include hoses, cables and capsule mountings. Additional components or alternators may also affect capsule dimensions. Due to our policy of continual product development, we reserve the right to alter technical specifications without notice. All performance data relates to air and water temperatures of 20°C. Performance reduction (approx. 1% per 100 m height and approx 2% per 5°C air temperature and approx. 1% per 1°C water temperature above 20°C)

Stand: 2022