



## NATURAL GAS GENERATING SETS



Generating Set Model	Standby kW
APD - NG30	30
APD - NG50	50
APD - NG60	60
APD - NG80	80
APD - NG100	100
APD - NG130	130
APD - NG150	150

\*EPA Certified Stationary Emergency

## DESIGN SPECIFICATIONS

- High quality, reliable and complete power unit
- Compact design
- Easy access for maintenance
- Every generating set is subject to a comprehensive test program which includes full load testing and testing of the control and safety shut down functions
- Fully engineered with a wide range of options and accessories

## ENGINE

- PSI heavy duty natural gas engine
- Four stroke, water cooled
- 12 Vdc starter and charge alternator
- Replaceable fuel filter, oil filter and dry element air filter

- Cooling radiator and fan
- Starter battery (with lead acid) including rack and cables
- Jacket water heater
- Operation manuals and circuit diagram documents

## ALTERNATOR

- Brushless, single bearing system, flexible disc, 4 poles
- Insulation class H
- Standart degree of protection IP21/IP23
- Self-exciting and self-regulating.
- Impregnation with tropicalised epoxy varnish.
- Solid state Automatic Voltage Regulator.
- Stator windings with 2/3 pitch for improved harmonics.

## CONTROL SYSTEM

- Auto Mains Failure Control Panel – P732
- Control, supervision and protection panel is mounted on the gen-set base frame.
- Control with DSE, model 7320 module
- Static battery charger
- Emergency stop push button

## CHASIS

- The complete generator set is mounted as whole on a heavy-duty fabricated, steel base frame. Antivibration pads are fixed between the engine/alternator feet and the base frame.
- The chasis is suitable for modular canopy installation.
- The generating set can be lifted or carefully pushed/ pulled by the base frame.

## CANOPY

- All canopy parts are designed with modular principles.
- All metal canopy parts are painted by electrostatic polyester powder paint.
- Thermally insulated engine exhaust system
- Easy lifting and moving
- Easy maintenance and operation.



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### 480/277V & 208/120V – 60Hz

GROUP MODEL	APD-NG30	APD-NG50	APD-NG60	APD-NG80	APD-NG100	APD-NG150
Stand by kW/kVA (Power Pf: 0.8)	30kW/37.5kVA	50kW/62.5kVA	60kW/75kVA	80kW/100kVA	100kW/125kVA	150kW/187.5kVA
ENGINE MAKE	PSI	PSI	PSI	PSI	PSI	PSI
ENGINE MODEL	3.0 L	5.0 L	5.7 L	5.7 LT	5.7 LTCAC	8.8 LTCAC
ENGINE POWER Output at rated rpm	49bhp	89bhp	105hp	133bhp	162bhp	259bhp
	36.5kW	66.4kW	78.3kW	99kW	121kW	193.1kW
ENGINE SPEED	1800	1800	1800	1800	1800	1800
Total Displacement	181 cid	305 cid	348 cid	348 cid	348 cid	537 cid
No. of Cylinders and Build	4 In-line	8 Vertical In-line	8 Vertical In-line	8 Vertical In-line	8 Vertical In-line	V-8
Aspiration and Cooling	Natural Aspiration	Natural Aspiration	Natural Aspiration	Turbo Charged	Turbo Charged Air Cooled	Turbo Charged & Charge Air Cooled
Bore and Stroke	4.00 in x 3.60 in	3.74 in x 3.48 in	4.00 in x 3.48 in	4.00 in x 3.48 in	4.00 in x 3.48 in	4.35 in x 4.50 in
Compression Ratio	8.2 : 1	9.4 : 1	9.1 : 1	9.1 : 1	9.1 : 1	10.1 : 1
Governor	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Fuel Pressure	7-11" H2O	7-11" H2O	7-11" H2O	7-11" H2O	7-11" H2O	7-11" H2O
Fuel Consumption	430 cfh	744 cfh	790 cfh	1185 cfh	1389 cfh	1965 cfh
Oil Capacity	1g (3.8L)	1.24g (4.7L)	1.24g (4.7L)	1.24g (4.7L)	1.24g (4.7L)	2.38g (9L)
Coolant Capacity	3.9g (14.9L)	5.5g (20.8L)	5.5g (20.8L)	6.0g (22.5L)	6.0g (22.5L)	7.3g (27.6L)
Radiator Cooling Air	7100 scfm	6000 scfm	6000 scfm	5500 scfm	7000 scfm	12000 scfm
Air Intake - Engine	74 cfm	175 cfm	185 cfm	237 cfm	298 cfm	314 cfm
Exhaust Gas Flow	250 cfm	550 cfm	580 cfm	670 cfm	876 cfm	971 cfm
Exhaust Gas Temperature	1270 °F	1100 °F	1200 °F	1200 °F	1250 °F	1200 °F

\* Deration – All data based on operation to ISO3046-1:2002 & BS5514 standard reference conditions. Derate factor may apply under a typical site conditions.

## DIMENSIONS

Sound Attenuated	APD-NG30	APD-NG50	APD-NG60	APD-NG80	APD-NG100	APD-NG150
Dimensions - LxWxH (in)	80 x 42.09 x 57.66	122.88 x 42.05 x 68		127.95 x 45.79 x 70		
Dry Weight (lb)	1870	2780	2800	3300	3350	4470

## OPTIONAL EQUIPMENT

- ✓ Accessories
- ✓ Manual oil sump drain pump
- ✓ Enclosure or soundproof canopy
- ✓ Tool kit for maintenance
- ✓ Over sized alternator
- ✓ Residential type silencer
- ✓ 4 pole contractor
- ✓ Generating set output circuit breaker
- ✓ Anti-condensation heater
- ✓ Charge ammeter
- ✓ Trans switch 3 pole
- ✓ Trans switch 4 pole