

Mounting Arrangement: Engine and alternator coupled directly by means of a flexible disk, mounted on a reinforced steel base frame including anti-vibration isolators ensuring a vibration free standing generating set (USA models do not include fuel tanks). The assembly is made according to EEC regulations. Open set versions include industrial type silencers and are shipped loose.

Volvo Penta Engine: Four stroke, direct injection, water cooled Diesel engine with six in-line cylinders and turbo-compressor for the whole range. The TWD series integrates water-to-air intercooler while the TAD integrates air-to-air. Electronic speed governors are included as standard equipment. Volvo Penta engines stand out for their fast response in cold ambient temperatures and fast load acceptance capabilities. These engines have established themselves as a norm for their low sound and exhaust emissions. The Volvo series complies with environmental EPA standards (confirmation plates come on all engines).

Engine power: Emergency power according to ISO 3046 (IFN3) at variable load measured at 300 m.a.s.l. and 25°C ambient temperature.

Alternator: Stamford, brushless, self-excited, self regulated with electronic voltage regulation (AVR), four poles, IP 22 protection and class H insulation.

Control panel:

- AMT-920 control unit for control and protection of the generating set including:
 - Condition of the generating set, measurements, alarm messages and others are shown on the LCD display. All messages can be deleted with the reset button.
 - Measurements: Generator frequency, voltage and amperes, working hour meter and battery voltage.
 - Alarms: Low oil pressure, high coolant temperature, low fuel level, belt failure, over-speed/over-start, generator voltage out of margin, over-current of the generator, frequency out of margin and start failure.
 - Adjusting parameters: Several parameters are programmable. For more information refer to the operation manual.
 - Functioning mode: Automatic, manual, test, program, reset and disconnected.
- Oil pressure gauge
- Water temperature gauge
- Selector switch for the voltmeter
- Selector switch for the amp-meter
- Emergency push button
- Sound alarm.

Super soundproof enclosure: The modular structure base frame (easy assembly) is made of pressure bent steel profiles. A rock-wool layer of insulation, which complies with prevailing regulations, accomplishes the sound attenuating elements. Critical type silencer and flexible connector are included.



Genset Model	PWVP 210 USA	PWVP 230 USA	PWVP 255 USA	PWVP 305 USA	PWVP 355 USA	PWVP 450 USA	PWVP 505 USA
Emergency power (kWe)	210	230	255	305	355	450	505
Frequency (Hz)	60	60	60	60	60	60	60
Voltage (V)	Three phase 208/120	Three phase 208/120	Three phase 208/120	Three phase 208/120	Three phase 208/120	Three phase 208/120	Three phase 208/120
Engine model	TWD 740 GE	TWD 740 GE	TWD 1030 GE	TWD 1231 GE	TWD 1232 GE	TWD 1630 GE	TWD 1631 GE
Cylinders	6	6	6	6	6	6	6
Aspiration	Turbo W/A	Turbo A/A	Turbo A/A	Turbo A/A	Turbo A/A	Turbo A/A	Turbo A/A
Displacement (c.c.)	7.280	7.280	9.600	11.980	11.980	16.120	16.120
Compress ratio	17,2:1	17,2:1	15,0:1	14,0:1	14,0:1	15,0:1	15,0:1
R.P.M.	1.800	1.800	1.800	1.800	1.800	1.800	1.800
Cooling	Water	Water	Water	Water	Water	Water	Water
Fuel consumption 100% load (l/h / G/h)	58,8 /15,5	62,7/16,6	74,1/19,6	83,3/22	98,6/26	130,2/34,4	145,0/38,3
Fuel consumption 75% load (l/h / G/h)	43,9/11,6	46,3/12,2	54,5/14,4	62,5/16,5	71,8/19	93,2/24,6	104,2/27,5
Fuel consumption 50% load (l/h / G/h)	30,1/8	31,5/8,3	37,0/9,8	42,9/11,3	48,6/12,8	63,0/16,6	70,8/18,3
Exhaust temp. (°C)	555	485	430	510	540	490	560
Exhaust gases flow (m ³ /h)	2.568	2.778	3.816	3.900	4.782	6.078	6.996
Cooling air flow (m ³ /h)	12.690	12.690	13.500	15.660	16.740	27.540	29.430
Combustion air flow (m ³ /h)	1.032	1.116	1.476	1.530	1.746	2.502	2.508
Alternator	Newage	Newage	Newage	Newage	Newage	Newage	Newage
Alternator model	UCI 274 H	UCD 274 J	UCD 274 J	HCI 444 D	HCI 444 E	HCI 544 C	HCI 544 C

Three phase: 12 lead reconnectable voltage up to 480 v.
Emergency power: No overload capacity.

OPEN SET VERSIONS

Genset Model	PWVP 210 USA	PWVP 230 USA	PWVP 255 USA	PWVP 305 USA	PWVP 355 USA	PWVP 450 USA	PWVP 505 USA
Dimensions (inches)							
Length:	118	118	118	118	118	138	138
Width:	43	43	43	43	43	51	51
Height:	75	75	75	75	75	81	81
Weight (kg / lbs.)	2.400/5.290	2.450/5.400	2.475/5.460	2.920/6.440	2.920/6.440	3.700/8.160	3.700/8.160

SOUNDPROOF VERSIONS

Genset Model	PWVP 210 USA	PWVP 230 USA	PWVP 255 USA	PWVP 305 USA	PWVP 355 USA	PWVP 450 USA	PWVP 505 USA
Noise level dB(A), 7m	78	78	78	78	78	78	78
Noise level, dB(A), 1 m	87	87	87	87	87	87	87
Dimensions (inches)							
Length:	138	138	158	158	158	197	197
Width:	52	52	63	63	63	71	71
Height:	78	78	84	84	84	84	84
Weight (kg / lbs.)	3.200/7.060	3.365/7.420	3.400/7.500	4.300/9.480	4.300/9.480	5.250/11.580	5.600/12.350

Weight including coolant and lubricant.



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