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CAE/CAL Modular Acoustic Enclosures

P7.5-2S – P22-4 Range

The FG Wilson fully weatherproof sound attenuated CAE/CAL enclosures reduce sound levels to comply with the stage 2 levels of the European Community Directive 2000/14/EC which became effective 3 January 2006.

These enclosures incorporate internally mounted exhaust silencers and are of extremely rugged construction in order to withstand the rough handling common on many construction sites.

They provide the benefit of increased ease of installation and serviceability, all within a compact footprint.



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CAE Enclosures



Highly Corrosion Resistant Construction

- Stainless steel locks
- Black zinc die cast hinges on gullwing doors tested and proven to withstand extremely corrosive conditions
- Zinc plated or stainless steel fasteners and hinges
- Body made from steel components pre-treated with zinc phosphate prior to polyester powder coating

Excellent Access for Maintenance

- Top hung gullwing doors
- Hinged and lockable end panels
- Radiator fill access through radiator end panel
- Lube oil drain piped to exterior of the canopy

Transportability

- Tested and certified single point lifting facility

Security and Safety

- Perspex control panel viewing window in a lockable access door
- Emergency stop button mounted on canopy exterior
- End panels secured by internal latches with safety retainer
- Cooling fan and battery charging alternator fully guarded
- Fuel fill and battery can only be reached via lockable access doors
- Exhaust silencing system enclosed for operator safety

Optional Features

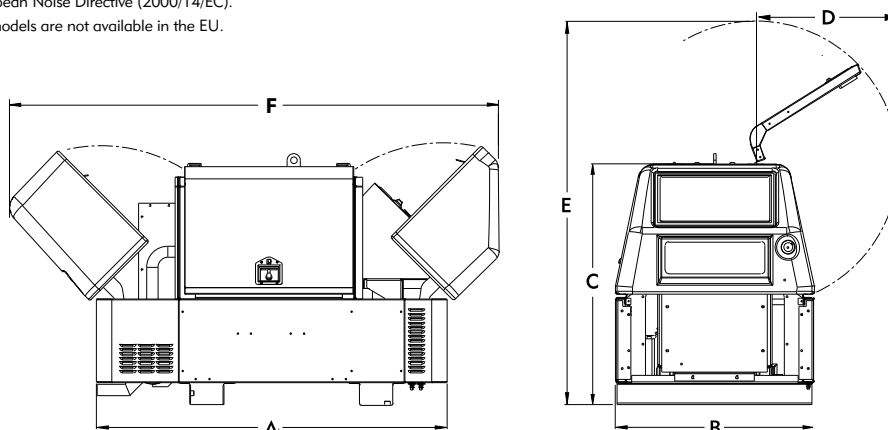
- Lockable vandal proof control panel cover in place of window

Sound Pressure Levels (dBA) - CAE

		50 Hz at 1500 RPM							60 Hz at 1800 RPM					
		15m (50ft)		7m (23ft)		1m (3ft)			15m (50ft)		7m (23ft)		1m (3ft)	
Generating Set Model	LWA	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load		75% Load	100% Load	75% Load	100% Load	75% Load	100% Load
3 Phase Models														
P9.5-2*	Prime	-	58.5	59.5	64.5	65.5	72.9	74.1	61.3	62.3	67.3	68.3	76.2	77.2
	Standby	-	58.7	59.8	64.7	65.8	73.1	74.5	61.6	62.8	67.6	68.8	76.5	77.7
P13.5-4	Prime	90	59.7	61.0	65.7	67.0	75.4	76.7	61.3	63.2	67.3	69.2	77.2	79.4
	Standby	90	60.1	61.5	66.1	67.5	75.8	77.2	61.7	64.0	67.7	70.0	77.7	80.2
P18-4	Prime	91	58.6	60.1	64.6	66.1	73.5	74.9	60.7	61.6	66.7	67.6	75.5	76.4
	Standby	91	59.0	60.7	65.0	66.7	73.8	75.5	60.9	62.1	66.9	68.1	75.7	76.8
P22-4	Prime	91	59.5	61.6	65.5	67.6	74.3	76.4	61.1	62.5	67.1	68.5	75.9	77.2
	Standby	91	60.1	62.6	66.1	68.6	74.9	77.5	61.5	63.3	67.5	69.3	76.2	78.0
Single Phase Models														
P7.5-2S*	Prime	-	58.5	59.5	64.5	65.5	72.9	74.1	61.3	62.3	67.3	68.3	76.2	77.2
	Standby	-	58.7	59.8	64.7	65.8	73.1	74.5	61.6	62.8	67.6	68.8	76.5	77.7
P11-4S	Prime	90	59.7	61.0	65.7	67.0	75.4	76.7	61.3	63.2	67.3	69.2	77.2	79.4
	Standby	90	60.1	61.5	66.1	67.5	75.8	77.2	61.7	64.0	67.7	70.0	77.7	80.2
P14-4S	Prime	91	58.6	60.0	64.6	66.0	73.4	74.8	60.7	61.6	66.7	67.6	75.5	76.4
	Standby	91	58.9	60.5	64.9	66.5	73.7	75.3	60.9	62.1	66.9	68.1	75.7	76.8
P16.5-4S	Prime	91	59.2	61.0	65.2	67.0	74.0	75.8	61.1	62.5	67.1	68.5	75.9	77.2
	Standby	91	59.7	61.9	65.7	67.9	74.5	76.8	61.5	63.3	67.5	69.3	76.2	78.0

Levels in accordance with European Noise Directive (2000/14/EC).

*LWA figures not recorded as models are not available in the EU.



Dimensions and Weights - CAE

Generating Set Model	A: mm (in)	B: mm (in)	C: mm (in)	D: mm (in)	E: mm (in)	F: mm (in)	Weight: kg (lb)	Fuel Capacity: l (US gal)
3 Phase Models								
P9.5-2	1593 (62.7)	900 (35.4)	1275 (50.2)	840 (33.1)	1878 (73.9)	2228 (87.7)	494 (1089)	45 (12)
P13.5-4	1593 (62.7)	900 (35.4)	1275 (50.2)	840 (33.1)	1878 (73.9)	2228 (87.7)	580 (1279)	45 (12)
P18-4	1593 (62.7)	900 (35.4)	1275 (50.2)	840 (33.1)	1878 (73.9)	2228 (87.7)	641 (1413)	45 (12)
P22-4	1593 (62.7)	900 (35.4)	1275 (50.2)	840 (33.1)	1878 (73.9)	2228 (87.7)	654 (1442)	45 (12)
Single Phase Models								
P7.5-2S	1593 (62.7)	900 (35.4)	1275 (50.2)	840 (33.1)	1878 (73.9)	2228 (87.7)	494 (1089)	45 (12)
P11-4S	1593 (62.7)	900 (35.4)	1275 (50.2)	840 (33.1)	1878 (73.9)	2228 (87.7)	580 (1279)	45 (12)
P14-4S	1593 (62.7)	900 (35.4)	1275 (50.2)	840 (33.1)	1878 (73.9)	2228 (87.7)	641 (1413)	45 (12)
P16.5-4S	1593 (62.7)	900 (35.4)	1275 (50.2)	840 (33.1)	1878 (73.9)	2228 (87.7)	654 (1442)	45 (12)

Note: Net Weight with lube oil, no coolant, no fuel; Clearance required on all four sides.

CAL Enclosures



Highly Corrosion Resistant Construction

- Black zinc die cast hinges tested and proven to withstand extremely corrosive conditions
- Zinc passivated and stainless steel fasteners
- Body made from sheet steel components with polyester powder coating at 200°C (392°F)

Excellent Access for Maintenance

- Vertically hinged side doors allowing 180° opening rotation
- Front and rear "lift-off" access panels
- Radiator fill access through cover in canopy roof
- Lube oil drain and radiator drain

Security and Safety

- Perspex control panel viewing window in a lockable access door
- Emergency stop button mounted on canopy exterior
- Cooling fan and battery charging alternator fully guarded
- Fuel fill and battery can only be reached via lockable access doors
- Exhaust silencing system enclosed for operator safety

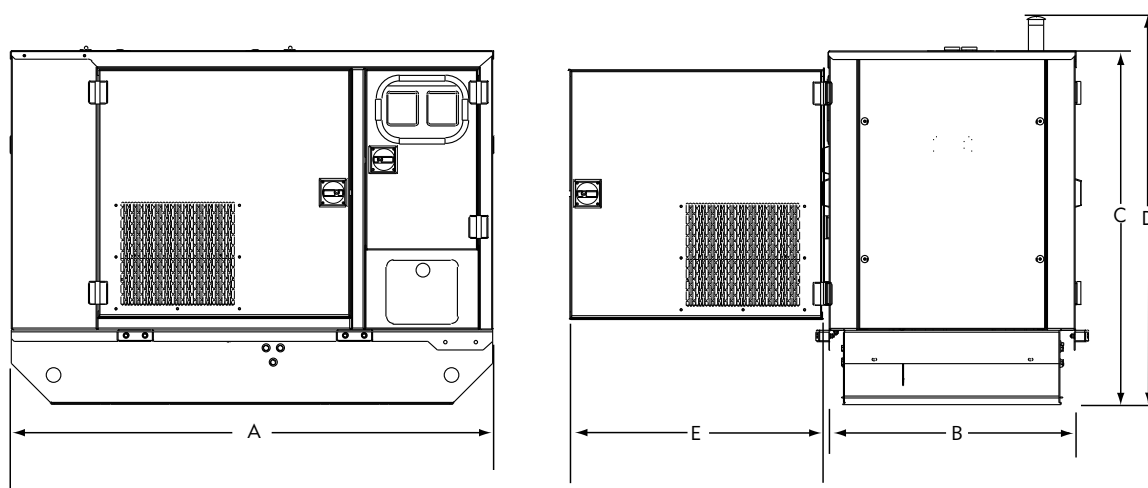
Transportability

- Lifting points on baseframe

Sound Pressure Levels (dBA) - CAL

		50 Hz @ 1500 RPM							60 Hz @ 1800 RPM					
			15m (50ft)		7m (23ft)		1m (3ft)		15m (50ft)		7m (23ft)		1m (3ft)	
Generating Set Model	LWA	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load		75% Load	100% Load	75% Load	100% Load	75% Load	100% Load
3 Phase Models														
P13.5-4	Prime	86	52.7	53.9	58.7	59.9	70.8	71.9	55.0	56.0	61.0	62.0	72.3	74.0
	Standby	86	53.1	54.5	59.1	60.5	71.1	72.4	55.3	56.4	61.3	62.4	72.7	74.6
P18-4	Prime	91	55.6	56.0	61.6	62.0	72.8	73.4	58.4	59.7	64.4	65.7	75.3	77.2
	Standby	91	55.7	56.2	61.7	62.2	72.9	73.7	58.7	60.4	64.7	66.4	75.8	78.1
P22-4	Prime	91	55.8	56.4	61.8	62.4	73.2	74.2	59.0	60.9	65.0	66.9	76.1	78.7
	Standby	91	56.0	56.7	62.0	62.7	73.4	74.7	59.5	62.0	65.5	68.0	76.9	80.1
Single Phase Models														
P11-4S	Prime	86	52.7	53.9	58.7	59.9	70.8	71.9	55.0	56.0	61.0	62.0	72.3	74.0
	Standby	86	53.1	54.5	59.1	60.5	71.1	72.4	55.3	56.4	61.3	62.4	72.7	74.6
P14-4S	Prime	91	55.6	56.0	61.6	62.0	72.7	73.4	55.0	56.0	61.0	62.0	72.3	74.0
	Standby	91	55.7	56.1	61.7	62.1	72.9	73.6	55.3	56.4	61.3	62.4	72.7	74.6
P16.5-4S	Prime	91	55.8	56.2	61.8	62.2	73.0	73.9	59.0	60.9	65.0	66.9	76.1	78.7
	Standby	91	55.9	56.5	61.9	62.5	73.3	74.3	59.5	62.0	65.5	68.0	76.9	80.1

Levels in accordance with European Noise Directive (2000/14/EC)



Dimensions and Weights - CAL

Generating Set Model	A: mm (in)	B: mm (in)	C: mm (in)	D: mm (in)	E: mm (in)	Weight: kg (lb)	Fuel Capacity: l (US gal)
3 Phase Models							
P13.5-4	1684 (66.3)	860 (33.9)	1253 (49.3)	1385 (54.5)	880 (34.6)†	645 (1422)	45.0 (12.0)
P18-4	1684 (66.3)	860 (33.9)	1253 (49.3)	1385 (54.5)	880 (34.6)†	706 (1556)	45.0 (12.0)
P22-4	1684 (66.3)	860 (33.9)	1253 (49.3)	1385 (54.5)	880 (34.6)†	719 (1585)	45.0 (12.0)
Single Phase Models							
P11-4S	1684 (66.3)	860 (33.9)	1253 (49.3)	1385 (54.5)	880 (34.6)†	645 (1422)	45.0 (12.0)
P14-4S	1684 (66.3)	860 (33.9)	1253 (49.3)	1385 (54.5)	880 (34.6)†	706 (1556)	45.0 (12.0)
P16.5-4S	1684 (66.3)	860 (33.9)	1253 (49.3)	1385 (54.5)	880 (34.6)†	719 (1585)	45.0 (12.0)

Note: Net Weight with lube oil, no fuel. Clearance required both sides.

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