

# Modular Acoustic Enclosures

## 450 – 688 kVA Range

The FG Wilson enclosure for the range of Perkins powered P450P3 to P688ER2 generating sets are a result of continuing research and development by our specialist acoustic engineers. **These enclosures reduce sound levels to comply with the stage II levels of the European Community Directive 2000/14/EC which became effective 3 January 2006.**

The FG Wilson CAHA enclosure for the range of Perkins powered P450P3 to P688ER2 generating sets are a result of continuing research and development by our specialist

acoustic engineers. **These enclosures are designed for operation in high ambient environments up to 50°C, with no loss of cooling system performance.**

The fully weatherproof and sound attenuated enclosure incorporates internally mounted exhaust silencers and is extremely robust in order to withstand the rough handling common on many construction sites. It is designed on modular principles with many interchangeable components permitting on-site repair.

### Robust/Highly Corrosion Resistant Construction

- Black finish stainless steel locks and hinges
- Zinc plated or stainless steel fasteners
- Body made from steel components treated with polyester powder coating

### Excellent Access for Maintenance

- Two large doors on each side
- Radiator fill access plate
- Lube oil and cooling water drains piped to exterior of the enclosure

### Transportability

- Tested and certified single point lifting facility
- Lifting points on baseframe

### Security and Safety

- Control panel viewing window in a lockable access door
- Emergency stop push button (red) mounted on enclosure exterior
- Cooling fan and battery charging alternator fully guarded
- Fuel fill and battery can only be reached via lockable access doors
- Exhaust silencing system totally enclosed for operator safety

### Optional Features

- Oil field type skid with dragging points and fork lift truck pockets

**FG Wilson has manufacturing facilities in the following locations:**

Northern Ireland • Brazil • China • India • USA

With headquarters in Northern Ireland, FG Wilson operates through a Global Dealer Network.

To contact your local Sales Office please visit the FG Wilson website at [www.FGWilson.com](http://www.FGWilson.com)

## Sound Pressure Levels (dBA) for 450 – 688 kVA CAE Enclosure

Generating Set Model	LWA	50 Hz						60 Hz					
		15m (50ft)		7m (23ft)		1m (3ft)		15m (50ft)		7m (23ft)		1m (3ft)	
		75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load
P450P3	98	63.7	64.6	69.7	70.6	79.2	80.0	-	-	-	-	-	-
P500E3	98	64.0	65.0	70.0	71.0	79.5	80.4	-	-	-	-	-	-
P500P3	98	62.9	64.4	68.9	70.4	78.6	80.0	-	-	-	-	-	-
P550E3	98	63.3	65.1	69.3	71.1	79.0	80.7	-	-	-	-	-	-
P513P1	98	-	-	-	-	-	-	64.7	65.9	70.7	71.9	81.4	82.4
P563E1	98	-	-	-	-	-	-	65.0	66.4	71.0	72.4	81.6	82.8
P563P3	98	-	-	-	-	-	-	65.0	66.4	71.0	72.4	81.6	82.8
P625E3	98	-	-	-	-	-	-	65.4	67.2	71.4	73.2	82.0	83.5
P450P2	96	62.6	63.9	68.6	69.9	78.5	79.7	-	-	-	-	-	-
P500E2	96	63.0	64.6	69.0	70.6	78.9	80.3	-	-	-	-	-	-
P500P2	96	62.9	64.4	68.9	70.4	78.7	80.1	-	-	-	-	-	-
P550E2	96	63.3	65.0	69.3	71.0	79.1	80.7	-	-	-	-	-	-
P688ER2*	98	-	-	-	-	-	-	65.6	67.4	71.6	73.4	82.2	83.8

Levels in accordance with European Noise Directive (2000/14/EC). All sound figures are preliminary until further notice.

\*Emergency Rating (Models with suffix "ER") - these ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure, up to a maximum of 200 hours per year. No overload is permitted on these ratings. Exceeding 200 hours operation per year may result in a reduced product life.



## Dimensions and Weights

Generating Set Model	A: mm (in)	B: mm (in)	C: mm (in)	D: mm (in)	E:*\br/>mm (in)	F: mm (in)	Weight: kg (lb)	Fuel Capacity: l (US gal)
P450P3	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5463 (12044)	1000 (264)
P500E3	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5463 (12044)	1000 (264)
P500P3	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5590 (12324)	1000 (264)
P550E3	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5590 (12324)	1000 (264)
P513P1	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5463 (12044)	1000 (264)
P563E1	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5463 (12044)	1000 (264)
P563P3	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5590 (12324)	1000 (264)
P625E3	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5590 (12324)	1000 (264)
P450P2	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5463 (12044)	1000 (264)
P500E2	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5463 (12044)	1000 (264)
P500P2	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5590 (12324)	1000 (264)
P550E2	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5590 (12324)	1000 (264)
P688ER2	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5612 (13372)	1000 (264)

Weight with lube oil, no coolant, no fuel. \* Clearance required on both sides.

## Sound Pressure Levels (dBA) for 450 – 688 kVA CAHA Enclosure

Generating Set Model	LWA	50 Hz						60 Hz					
		15m (50ft)		7m (23ft)		1m (3ft)		15m (50ft)		7m (23ft)		1m (3ft)	
		75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load	75% Load	100% Load
P450P3		64.6	65.3	70.6	71.3	81.2	81.7	-	-	-	-	-	-
P500E3		64.8	65.6	70.8	71.6	81.4	82.0	-	-	-	-	-	-
P500P3		64.8	65.7	70.8	71.7	81.3	82.1	-	-	-	-	-	-
P550E3		65.1	66.1	71.1	72.1	81.5	82.4	-	-	-	-	-	-
P513P1		-	-	-	-	-	-	65.9	66.7	71.9	72.7	83.3	83.9
P563E1		-	-	-	-	-	-	66.1	67.1	72.1	73.1	83.5	84.1
P563P3		-	-	-	-	-	-	66.1	67.1	72.1	73.1	83.5	84.1
P625E3		-	-	-	-	-	-	66.4	67.6	72.4	73.6	83.7	84.4
P450P2		63.8	65.0	69.8	71.0	80.8	81.7	-	-	-	-	-	-
P500E2		64.1	65.6	70.1	71.6	81.1	82.2	-	-	-	-	-	-
P500P2		64.0	65.5	70.0	71.5	81.0	82.0	-	-	-	-	-	-
P550E2		64.4	66.2	70.4	72.2	81.2	82.4	-	-	-	-	-	-
P688ER2*		-	-	-	-	-	-	66.8	68.6	72.8	74.6	83.8	85.2

Levels in accordance with European Noise Directive (2000/14/EC). All sound figures are preliminary until further notice.

\*Emergency Rating (Models with suffix "ER") - these ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure, up to a maximum of 200 hours per year. No overload is permitted on these ratings. Exceeding 200 hours operation per year may result in a reduced product life.

## Dimensions and Weights

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)
P450P3	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5463 (12044)	1000 (264)
P500E3	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5463 (12044)	1000 (264)
P500P3	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5590 (12324)	1000 (264)
P550E3	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5590 (12324)	1000 (264)
P513P1	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5463 (12044)	1000 (264)
P563E1	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5463 (12044)	1000 (264)
P563P3	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5590 (12324)	1000 (264)
P625E3	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5590 (12324)	1000 (264)
P450P2	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5463 (12044)	1000 (264)
P500E2	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5463 (12044)	1000 (264)
P500P2	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5590 (12324)	1000 (264)
P550E2	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5590 (12324)	1000 (264)
P688ER2	4990 (196.5)	1620 (63.8)	2140 (84.3)	2262 (89.1)	1810 (71.3)	1778 (70.0)	5612 (13372)	1000 (264)

Weight with lube oil, no coolant, no fuel. \* Clearance required on both sides.

### FG Wilson has manufacturing facilities in the following locations:

Northern Ireland • Brazil • China • India • USA

With headquarters in Northern Ireland, FG Wilson operates through a Global Dealer Network.

To contact your local Sales Office please visit the FG Wilson website at [www.FGWilson.com](http://www.FGWilson.com)