

# CAE Modular Acoustic Enclosure

24 – 220 kVA Range



The intelligent and striking design of the 24 – 220 kVA enclosure range meets the demands of diverse applications. Extremely durable, the enclosures are designed to resist corrosion and handling damage.

All weatherproof sound attenuated enclosures are the result of continuing research and development by our specialist acoustic engineers. These 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.

## Durable and Robust Construction

- Manufactured from galvanised steel
- Advanced powder coating paint finish
- Single piece main roof
- Baseframe extends beyond enclosure protecting against handling damage
- Minimal external fixings exposed to environment
- Zinc plated fasteners
- Corner posts and air handling units manufactured from high grade composite material

## Excellent Service and Maintenance Access

- Side hinged doors on both sides of the enclosure incorporating lift-off hinges at 45 degrees
- Radiator fill via removable, flush mounted rain cap fitted with compression seal
- Lube oil drain valves / Coolant drain valves
- Removable end panels allow access to radiator, exhaust outlet and alternator rear
- Doors positioned for optimum access to frequently serviced items

## Security and Safety

- Secure, lockable doors prevent unauthorised access to control panel, fuel fill and battery
- Emergency stop button mounted on exterior, convenient to control panel
- Cooling fan and battery charging alternator fully guarded

## Transportability

- Optional tested and certified lifting arch
- Lifting and drag points on baseframe facilitating handling from both sides

## Sound Attenuated (SA) Sound Pressure Levels (dBA)

| Generator Set Model   |         | 50 Hz |            |           |           |           |          |           | 60 Hz      |           |           |           |          |           |
|-----------------------|---------|-------|------------|-----------|-----------|-----------|----------|-----------|------------|-----------|-----------|-----------|----------|-----------|
|                       |         | LWA   | 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 |
| <b>3 Phase Models</b> |         |       |            |           |           |           |          |           |            |           |           |           |          |           |
| P33-3                 | Prime   | 93    | 60.5       | 61.8      | 66.5      | 67.8      | 76.3     | 78.4      | 60.6       | 62.7      | 66.6      | 68.7      | 77.6     | 79.9      |
|                       | Standby | 93    | 60.9       | 62.4      | 66.9      | 68.4      | 76.9     | 79.4      | 61.2       | 63.8      | 67.2      | 69.8      | 78.2     | 81.1      |
| P33-6                 | Prime   | 94    | 59.4       | 61.3      | 65.4      | 67.3      | 76.5     | 78.6      | –          | –         | –         | –         | –        | –         |
|                       | Standby | 94    | 60.0       | 62.1      | 66.0      | 68.1      | 77.1     | 79.6      | –          | –         | –         | –         | –        | –         |
| P50-3                 | Prime   | 93    | 56.7       | 57.7      | 62.7      | 63.7      | 76.7     | 77.9      | 59.7       | 60.8      | 65.7      | 66.8      | 79.5     | 80.8      |
|                       | Standby | 93    | 56.9       | 58.2      | 62.9      | 64.2      | 77.0     | 78.5      | 60.1       | 61.5      | 66.1      | 67.5      | 80.0     | 81.6      |
| P50-4                 | Prime   | 90    | 55.7       | 56.4      | 61.7      | 62.4      | 75.3     | 75.5      | –          | –         | –         | –         | –        | –         |
|                       | Standby | 90    | 55.9       | 56.7      | 61.9      | 62.7      | 75.4     | 75.6      | –          | –         | –         | –         | –        | –         |
| P55-3                 | Prime   | 93    | 56.9       | 58.2      | 62.9      | 64.2      | 77.0     | 78.5      | 60.1       | 61.5      | 66.1      | 67.5      | 80.0     | 81.6      |
|                       | Standby | 93    | 57.3       | 58.9      | 63.3      | 64.9      | 77.4     | 79.2      | 60.5       | 62.2      | 66.5      | 68.2      | 80.5     | 82.4      |
| P55-4                 | Prime   | 91    | 56.2       | 56.5      | 62.2      | 62.5      | 75.3     | 75.5      | –          | –         | –         | –         | –        | –         |
|                       | Standby | 91    | 56.3       | 56.7      | 62.3      | 62.7      | 75.3     | 75.6      | –          | –         | –         | –         | –        | –         |
| P65-5                 | Prime   | 93    | 57.6       | 59.4      | 63.6      | 65.4      | 77.8     | 79.7      | 61.0       | 63.0      | 67.0      | 69.0      | 81.0     | 83.3      |
|                       | Standby | 93    | 58.1       | 60.5      | 64.1      | 66.5      | 78.3     | 80.8      | 61.5       | 63.8      | 67.5      | 69.8      | 81.6     | 84.2      |
| P65-6                 | Prime   | 91    | 57.7       | 58.5      | 63.7      | 64.5      | 75.8     | 77.1      | –          | –         | –         | –         | –        | –         |
|                       | Standby | 91    | 57.9       | 58.9      | 63.9      | 64.9      | 76.2     | 77.8      | –          | –         | –         | –         | –        | –         |
| P88-3                 | Prime   | 92    | 57.7       | 59.1      | 63.7      | 65.1      | 76.0     | 77.0      | 60.6       | 61.2      | 66.6      | 67.2      | 79.0     | 79.5      |
|                       | Standby | 92    | 58.1       | 59.8      | 64.1      | 65.8      | 76.2     | 77.4      | 60.8       | 61.5      | 66.8      | 67.5      | 79.2     | 79.6      |
| P88-6                 | Prime   | 96    | 61.3       | 61.4      | 67.3      | 67.4      | 80.1     | 80.2      | –          | –         | –         | –         | –        | –         |
|                       | Standby | 96    | 61.3       | 61.5      | 67.3      | 67.5      | 80.2     | 80.3      | –          | –         | –         | –         | –        | –         |
| P110-3                | Prime   | 96    | 62.4       | 63.1      | 68.4      | 69.1      | 80.4     | 81.0      | 65.2       | 65.4      | 71.2      | 71.4      | 84.4     | 84.6      |
|                       | Standby | 96    | 62.6       | 63.5      | 68.6      | 69.5      | 80.6     | 81.3      | 65.2       | 65.5      | 71.2      | 71.5      | 84.5     | 84.7      |
| P110-6                | Prime   | 94    | 61.4       | 61.6      | 67.4      | 67.6      | 80.2     | 80.3      | –          | –         | –         | –         | –        | –         |
|                       | Standby | 94    | 61.5       | 61.7      | 67.5      | 67.7      | 80.2     | 80.4      | –          | –         | –         | –         | –        | –         |
| P150-5                | Prime   |       | 60.0       | 60.5      | 66.0      | 66.5      | 78.8     | 79.1      | 60.7       | 61.1      | 66.7      | 67.1      | 81.0     | 81.1      |
|                       | Standby |       | 60.1       | 60.7      | 66.1      | 66.7      | 78.8     | 79.2      | 60.8       | 61.3      | 66.8      | 67.3      | 81.0     | 81.2      |
| P165-4                | Prime   | 95    | 58.6       | 59.1      | 64.6      | 65.1      | 77.1     | 77.5      | –          | –         | –         | –         | –        | –         |
|                       | Standby | 95    | 58.8       | 59.4      | 64.8      | 65.4      | 77.2     | 77.7      | –          | –         | –         | –         | –        | –         |
| P165-5                | Prime   |       | 58.5       | 58.9      | 64.5      | 64.9      | 78.0     | 78.2      | 61.3       | 61.9      | 67.3      | 67.9      | 82.1     | 82.4      |
|                       | Standby |       | 58.6       | 59.1      | 64.6      | 65.1      | 78.1     | 78.3      | 61.5       | 62.1      | 67.5      | 68.1      | 82.2     | 82.7      |
| P200-3                | Prime   | 97    | 62.3       | 63.5      | 68.3      | 69.5      | 80.0     | 80.7      | 64.9       | 65.2      | 70.9      | 71.2      | 84.2     | 84.3      |
|                       | Standby | 97    | 62.7       | 64.0      | 68.7      | 70.0      | 80.2     | 81.1      | 65         | 65.3      | 71        | 71.3      | 84.3     | 84.4      |
| P220-3                | Prime   | 97    | 62.3       | 63.5      | 68.3      | 69.5      | 80.0     | 80.7      | –          | –         | –         | –         | –        | –         |
|                       | Standby | 97    | 62.7       | 64.0      | 68.7      | 70.0      | 80.2     | 81.1      | –          | –         | –         | –         | –        | –         |

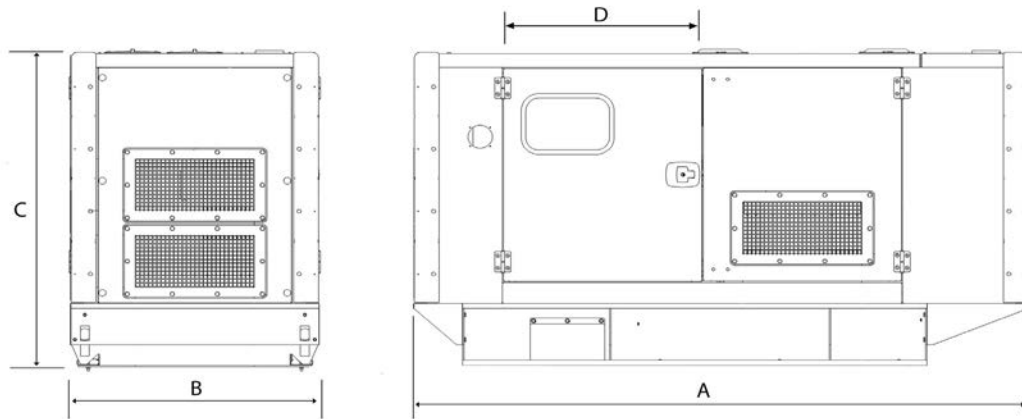
Levels in accordance with European Noise Directive (2000/14/EC).

**Sound Attenuated (SA) Sound Pressure Levels (dBA)**

| Generator Set Model |         | 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 |      |
| P26-3S              | Prime   | 93         | 60.5      | 61.8      | 66.5      | 67.8     | 76.3      | 78.4       | -         | -         | -         | -        | -         | -    |
|                     | Standby | 93         | 60.9      | 62.4      | 66.9      | 68.4     | 76.9      | 79.4       | -         | -         | -         | -        | -         | -    |
| P26-6S              | Prime   | 94         | 60.5      | 61.8      | 66.5      | 67.8     | 76.3      | 78.4       | -         | -         | -         | -        | -         | -    |
|                     | Standby | 94         | 60.9      | 62.4      | 66.9      | 68.4     | 76.9      | 79.4       | -         | -         | -         | -        | -         | -    |
| P40-3S              | Prime   | 93         | 56.7      | 57.7      | 62.7      | 63.7     | 76.7      | 77.9       | 59.7      | 60.8      | 65.7      | 66.8     | 79.5      | 80.8 |
|                     | Standby | 93         | 56.9      | 58.2      | 62.9      | 64.2     | 77.0      | 78.5       | 60.1      | 61.5      | 66.1      | 67.5     | 80.0      | 81.6 |
| P40-4S              | Prime   | 90         | 55.7      | 56.4      | 61.7      | 62.4     | 75.3      | 75.5       | -         | -         | -         | -        | -         | -    |
|                     | Standby | 90         | 55.9      | 56.7      | 61.9      | 62.7     | 75.4      | 75.6       | -         | -         | -         | -        | -         | -    |
| P50-5S              | Prime   | -          | 58.1      | 59.1      | 64.1      | 65.1     | 76.6      | 77.3       | 61.1      | 62.1      | 67.1      | 68.1     | 78.9      | 80.0 |
|                     | Standby | -          | 58.5      | 59.5      | 64.5      | 65.5     | 76.9      | 77.6       | 61.4      | 62.5      | 67.4      | 68.5     | 79.3      | 80.5 |
| P55-6S              | Prime   | -          | 57.7      | 58.5      | 63.7      | 64.5     | 75.8      | 77.1       | -         | -         | -         | -        | -         | -    |
|                     | Standby | -          | 57.9      | 58.9      | 63.9      | 64.9     | 76.2      | 77.8       | -         | -         | -         | -        | -         | -    |
| P90-3S              | Prime   | -          | 62.2      | 62.8      | 68.2      | 68.8     | 80.2      | 80.8       | 65.1      | 65.3      | 71.1      | 71.3     | 84.4      | 84.6 |
|                     | Standby | -          | 62.4      | 63.1      | 68.4      | 69.1     | 80.4      | 81.0       | 65.2      | 65.4      | 71.2      | 71.4     | 84.4      | 84.6 |
| P90-6S              | Prime   | -          | 61.3      | 61.5      | 67.3      | 67.5     | 80.2      | 80.3       | -         | -         | -         | -        | -         | -    |
|                     | Standby | -          | 61.4      | 61.6      | 67.4      | 67.6     | 80.2      | 80.3       | -         | -         | -         | -        | -         | -    |

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

## Dimensions, Weights and Fuel Capacities



| Generator Set Model        | A:<br>mm (in) | B:<br>mm (in) | C:<br>mm (in) | D*:<br>mm (in) | Weight:<br>kg (lb) | Fuel Capacity<br>l (US gal) |
|----------------------------|---------------|---------------|---------------|----------------|--------------------|-----------------------------|
| <b>3 Phase Models</b>      |               |               |               |                |                    |                             |
| P33-3                      | 2120 (83.5)   | 970 (38.2)    | 1525 (60.0)   | 718 (28.3)     | 991 (2185)         | 161 (43.0)                  |
| P33-6                      | 2120 (83.5)   | 970 (38.2)    | 1525 (60.0)   | 718 (28.3)     | 991 (2185)         | 161 (43.0)                  |
| P50-3                      | 2300 (90.6)   | 1120 (44.1)   | 1525 (60.0)   | 795 (31.3)     | 1191 (2626)        | 219 (58.0)                  |
| P50-4                      | 2300 (90.6)   | 1120 (44.1)   | 1525 (60.0)   | 795 (31.3)     | 1183 (2608)        | 219 (58.0)                  |
| P55-3                      | 2300 (90.6)   | 1120 (44.1)   | 1525 (60.0)   | 795 (31.3)     | 1196 (2637)        | 219 (58.0)                  |
| P55-4                      | 2300 (90.6)   | 1120 (44.1)   | 1525 (60.0)   | 795 (31.3)     | 1236 (2725)        | 219 (58.0)                  |
| P65-5                      | 2300 (90.6)   | 1120 (44.1)   | 1525 (60.0)   | 795 (31.3)     | 1207 (2661)        | 219 (58.0)                  |
| P65-6                      | 2300 (90.6)   | 1120 (44.1)   | 1525 (60.0)   | 795 (31.3)     | 1247 (2749)        | 219 (58.0)                  |
| P88-3                      | 2300 (90.6)   | 1120 (44.1)   | 1525 (60.0)   | 795 (31.3)     | 1391 (3067)        | 219 (58.0)                  |
| P88-6                      | 2770 (109.1)  | 1120 (44.1)   | 1525 (60.0)   | 896 (35.3)     | 1529 (3371)        | 250 (66.0)                  |
| P110-3                     | 2770 (109.1)  | 1120 (44.1)   | 1525 (60.0)   | 896 (35.3)     | 1547 (3411)        | 250 (66.0)                  |
| P110-6                     | 2770 (109.1)  | 1120 (44.1)   | 1525 (60.0)   | 896 (35.3)     | 1637 (3609)        | 250 (66.0)                  |
| P150-5                     | 3520 (138.6)  | 1010 (39.8)   | 1815 (71.5)   | 1145 (45.1)    | 1918 (4228)        | 349 (92.2)                  |
| P165-4                     | 3520 (138.6)  | 1120 (44.1)   | 1815 (71.5)   | 1145 (45.1)    | 2003 (4416)        | 349 (92.2)                  |
| P165-5                     | 3520 (138.6)  | 1120 (44.1)   | 1815 (71.5)   | 1145 (45.1)    | 2016 (4445)        | 349 (92.2)                  |
| P200-3                     | 3520 (138.6)  | 1320 (52.0)   | 1815 (71.5)   | 1080 (42.5)    | 2198 (4846)        | 418 (110.4)                 |
| P220-3                     | 3520 (138.6)  | 1320 (52.0)   | 1815 (71.5)   | 1080 (42.5)    | 2238 (4934)        | 418 (110.4)                 |
| <b>Single Phase Models</b> |               |               |               |                |                    |                             |
| P26-3S                     | 2120 (83.5)   | 970 (38.2)    | 1525 (60.0)   | 718 (28.3)     | 991 (2185)         | 161 (43.0)                  |
| P26-6S                     | 2120 (83.5)   | 970 (38.2)    | 1525 (60.0)   | 718 (28.3)     | 991 (2185)         | 161 (43.0)                  |
| P40-3S                     | 2300 (90.6)   | 1120 (44.1)   | 1525 (60.0)   | 795 (31.3)     | 1247 (2749)        | 219 (58.0)                  |
| P40-4S                     | 2300 (90.6)   | 1120 (44.1)   | 1525 (60.0)   | 795 (31.3)     | 1199 (2643)        | 219 (58.0)                  |
| P50-5S                     | 2300 (90.6)   | 1120 (44.1)   | 1525 (60.0)   | 795 (31.3)     | 1340 (2954)        | 219 (57.0)                  |
| P55-6S                     | 2300 (90.6)   | 1120 (44.1)   | 1525 (60.0)   | 795 (31.3)     | 1355 (2987)        | 219 (58.0)                  |
| P90-3S                     | 2770 (109.1)  | 1120 (44.1)   | 1525 (60.0)   | 899 (35.4)     | 1613 (3556)        | 250 (66.0)                  |
| P90-6S                     | 2770 (109.1)  | 1120 (44.1)   | 1525 (60.0)   | 899 (35.4)     | 1653 (3644)        | 250 (66.0)                  |

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