



**SACCAL INDUSTRIES S.A.L.**  
Member of Saccal Holding

# DN 33

Engine Deutz, D226B – 3D

## STANDARD FEATURES

- Water cooled Deutz diesel engine.
- Radiator with pressure cap and drain point
- Fully guarded engine-driven fan
- Fully welded steel skid base with lifting points
- Heavy duty rubber anti-vibration mountings
- 12V starter batteries and connecting cables
- Separate engine-driven battery charging alternator
- Spin on oil and fuel filters and dry type air filter element



| Voltage   | Standby Power KVA | Prime Power KVA | Stand by Amps | Dimensions                          | Weight  |
|-----------|-------------------|-----------------|---------------|-------------------------------------|---------|
| 415 / 240 | 33                | 30              | 45.9          | L x W x H =<br>1850 x 950 x 1100 mm | 750 Kg. |
| 400 / 230 | 33                | 30              | 47.6          |                                     |         |
| 380 / 220 | 33                | 30              | 50.1          |                                     |         |

### POWER DEFINITION

**Prime Power** is available for an unlimited number of annual operating hours in variable load applications

**Standby Power** is applicable for supplying emergency power in variable load applications

### TERMS OF USE

Standard reference conditions Standby / Prime 27°C / 40°C Air Inlet Temp, 1000 m / 1000 m A.S.L. 60% relative humidity.

### Main features:

- Heavy level acoustic attention: 65 dB at 1 meter from all directions on site
- A critical type muffler is mounted inside the enclosure
- Total design flexibility
- Robustness and enhanced durability
- Heavy duty base frame made up of steel U channels 10\*5cm insulated with 10cm sound absorbing material and covered by 3mm sheet steel from both sides up and down
- Canopy components are manufactured in 3mm sheet steel
- Canopy walls and ceiling are coated with sound absorbing material
- Anti Scratch 100 micron Powder Paint Coated under the temperature of 120 oC
- Four lockable doors
- Four lifting points
- Oil and coolant drainage points
- Easy canopy dismantling for maintenance purpose
- Full weather proof enclosure
- Suitable for operation in very adverse weather conditions



### Dimensions Super Sound Proof Version

|                  |       |
|------------------|-------|
| Canopy           | SSP33 |
| Length (mm).     | 3450  |
| Width (mm).      | 1150  |
| Height (mm).     | 1580  |
| Dry weight (kg). | N/A   |

sheet without notice in a constant effort to improve the quality of its products.

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## ENGINE SPECIFICATIONS

|                          |  |                             |
|--------------------------|--|-----------------------------|
| DATA<br><br>GENERAL DATA | Motor model                                    | DEUTZ D226B-3D, 3 cylinders |
|                          | Cylinder arrangement                           | Vertical in-line            |
|                          | Displacement (L)                               | 3.12                        |
|                          | Bore (in) X Stroke (in)                        | 105 mm x 120 mm             |
|                          | Compression ratio                              | 16.5:1                      |
|                          | Speed (RPM)                                    | 1500                        |
|                          | Cycle  | 4 Stroke                    |
|                          | Maximum stand-by power at rated RPM (BHP)      | NA                          |
|                          | BMEP (psi)                                     | NA                          |
|                          | Governor type                                  | MECHANICAL                  |
| EXHAUST SYSTEM           | Exhaust gas temperature (°C)                   | 555                         |
|                          | Exhaust gas flow (cfm)                         | 165                         |
|                          | Max. exhaust back pressure (mmWG)              | 300                         |
| FUEL SYSTEM              | Consumption @ 110% load (L/hr)                 | 8.14                        |
|                          | Consumption @ 100% load (L/hr)                 | 7.4                         |
|                          | Consumption @ 75% load (L/hr)                  | 5.0                         |
|                          | Consumption @ 50% load (L/hr)                  | 3.7                         |
| OIL                      | Oil capacity (L)                               | 7.25                        |
|                          | Min. oil pressure (Bar)                        | 4.7                         |
|                          | Max. oil pressure (Bar)                        | 7.5                         |
|                          | Oil consumption 100% load (L/hr)               | N/A                         |
| THERMAL<br>BALANCE       | Heat rejection to exhaust (KW)                 | 31                          |
|                          | Radiated heat to ambient (KW)                  | 6                           |
|                          | Heat rejection to coolant (kW)                 | 18                          |
| AIR INTAKE               | AIR INTAKE_entree_max% Intake air flow (L/sec) | NA                          |
| COOLANT SYSTEM           | Radiator & Engine capacity (L)                 | 10.2                        |
|                          | Max water temperature (°C)                     | 102                         |
|                          | Outlet water temperature (°C)                  | 95                          |
|                          | Fan power (kW)                                 | 0.7                         |
|                          | Fan air flow w/o restriction (m3/sec)          | 1.74                        |
|                          | Available restriction on air flow (mm WG)      | 10                          |
|                          | Type of coolant<br>Thermostat (°C)             | Gencool<br>82-95            |
| EMISSIONS                | Emissions PM (g/kW.h)                          | NA                          |
|                          | Emission CO (g/kW.h)                           | NA                          |
|                          | Emissions HCNOx (g/kWh)                        | NA                          |
|                          | Emission HC (g/kW.h)                           | NA                          |

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