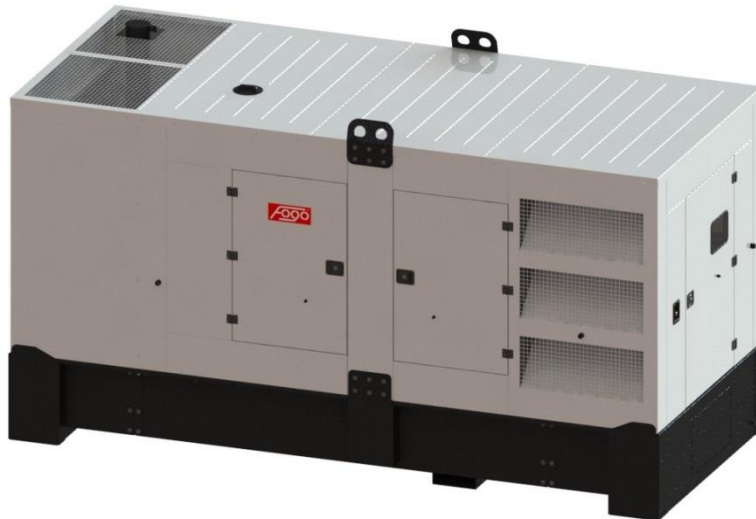


**MAIN FEATURES**

|   |   |
|---|---|
| Highest quality and reliability.<br>ComAp IL-NT AMF25 controller. | Wide range of standard and optional equipment.<br>Engine heater – ready to load just after start. |
| Ready to control MAINS – GENERATOR transfer switch.               | Drip tray,  |
| Configured for both manual and automatic mode (MRS + AMF).        | Anticorrosion coating: frame - Zr, canopy – Zr, Al-Zn.  |
| Wide range of remote communications options.                      | Brushless alternator.   |
| Schneider NS type GCB.  |   |



The presented image is for illustration purpose only.

**GENERAL DATA**

|                                   |                    |
|-----------------------------------|--------------------|
| Code                              | F.0730.SA.G        |
| Standby power E.S.P. [kVA] / [kW] | 767,0 / 614,0      |
| Prime power P.R.P. [kVA] / [kW]   | 697,0 / 558,0      |
| Prime current P.R.P [A]           | 1006,0             |
| Frequency [Hz]                    | 50                 |
| Voltage [V]                       | 400                |
| Exhaust emission                  | fuel optimized     |
| Fuel type                         | Diesel (EN 590)    |
| Fuel consumption - 50% load [l/h] | 76,1               |
| - 75% load [l/h]                  | 111,3              |
| - 100% load [l/h]                 | 141,2              |
| - 110% load [l/h]                 | 158,8              |
| Standard fuel tank capacity [l]   | 990                |
| Autonomy with 100% load [h]       | 7,0                |
| Engine control voltage [V]        | 24                 |
| Weight without fuel [kg]          | ~5970              |
| Dimensions L x W x H [mm]         | 4850 x 1961 x 2521 |
| Guaranteed noise power Lwa [dBA]  | 105                |
| Acoustic pressure Lpa (7m) [dBA]  | 73,6 ± 1,9         |

**Nominal power P.R.P.:**

Prime power available in variable load application in accordance with ISO 8528. 10% overload capacity is available for a period of 1 hour within a 12-hour period of operation. Average power consumption should not exceed 70% PRP for each 24-hour period of operation.

**Stand-by power E.S.P.:**

Emergency standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload allowed, limited to 200h of operation per year. Max mean load factor of 70% of rated power over 24-hour period of operation.

**Remark:**

Ratings represent the genset performance capabilities to standard conditions specified in ISO 8528-1

**Norms and directives:**

- Machinery directive 2006/42/EC
- Low voltage directive 2014/35/EC
- EC directive 2014/30/EC
- Noise directive 2000/14/EC
- Emission directive 97/68/EC
- ISO 8528-1:2005, ISO 8528-5:2013
- ISO 8528-13:2016
- EN 60204-1

**STANDARD CONTROLLER**

|   |
|---|
| Controller type: AMF 25   |
| Easy to operate, intuitive graphical interface  |
| Real time clock with battery supply   |
| AMF function available  |
| Flexible event based history with up to 119 events  |
| 3 Phase generator current measurement   |
| Generator and Mains phase voltage measurement   |
| Active/reactive power measurement   |
| Active and reactive energy counter  |
| Running hours counter   |
| Battery charging alternator circuit connection  |
| Fuel level measurement  |
| Generator protection (over/under frequency, voltage, overcurrent)                                 |
| Communication with ECU supporting CAN J1939 standard  |
| Communication interface RS 485 and RS 232 supporting Modbus RTU (IL-NT RS232-485 module required) |
| GSM modem / wireless internet (IL-NT GPRS module required)  |
| Internet/Ethernet communication (IB-Lite module required)   |
| InteliMonitor software for single gen-set view  |
| WebSupervisor software for Android mobile devices or PC's for fleet management                    |
| Active SMS or e-mail (IL-NT GPRS or IB-Lite module required)                                      |


**ENGINE**

|                             |                         |
|-----------------------------|-------------------------|
| Brand                       | Scania                  |
| Type                        | DC16 078A 02-43         |
| Made in                     | Sweden                  |
| Engine power [kW]           | 596,0                   |
| Emission standard*          | fuel optimized          |
| Rotation per minute [rpm]   | 1500                    |
| Engine governor             | electronic              |
| Governor class**            | G3                      |
| Displacement [l]            | 16,4                    |
| No of cylinder              | 8                       |
| Fuel system                 | Extra high pressure XPI |
| Electrical system [V]       | 24                      |
| Cooling system capacity [l] | 68,0                    |
| Oil pan capacity [l]        | 48,0                    |
| Fuel type                   | Diesel (EN 590)         |

**ALTERNATOR**

|                                    |                      |
|------------------------------------|----------------------|
| Nominal Voltage [V]                | 400                  |
| Nominal power factor (cos phi)     | 0,8                  |
| Ambient temperature, altitude      | 40 °C, 1000m a.m.s.l |
| Nominal Power [kVA]                | 730,0                |
| IP protection                      | IP 23                |
| No of bearing                      | single bearing       |
| Coupling                           | direct               |
| Technology                         | brushless            |
| Short circuit maintaining capacity | 270% 10s             |
| Efficiency [%]                     | 93,6                 |
| Insulation class                   | H                    |
| Total harmonic content THD [%]     | 3,5                  |
| Reactance Xd'' [%]                 | 15,9                 |
| Voltage regulator type             | DVR, digital         |
| Voltage measurement                | 3 phases             |
| Voltage accuracy [%]               | +/- 0,25             |
| AVR supply system                  | auxiliary winding    |
| AVR supply optional                | PMG                  |
| Made in                            | EU                   |

\* According directive 97/68/EC non road mobile machinery engine emission.

\*\* According ISO 8528-5:2013

**FOCUSSED ON GENERATORS ONLY****Power Generator FDG 730 S****STANDARD EQUIPMENT****OPTIONAL EQUIPMENT**

|   |   |  |   |
|---|---|--|---|
| Scania DC16 078A 02-43 engine                       | ✓ | Battery disconnection switch                       | ✓ |
| Electronic engine speed governor                    | ✓ | GCB 4P Schneider NS Micrologic 2.0                 | ✓ |
| Oil low pressure switch                             | ✓ | Power Lock type power output                       | ✓ |
| Oil pressure sensor                                 | ✓ | Power socket box                                   | ✓ |
| Engine high temperature switch                      | ✓ | Transfer switch controlled by generator controller | ✓ |
| Engine high temperature sensor                      | ✓ | Transfer switch with ATS controller                | ✓ |
| Engine preheating with thermostat                   | ✓ | GPRS communication card                            | ✓ |
| Engine oil Titan Cargo 15W40                        | ✓ | Ethernet card                                      | ✓ |
| Fuel filter with water separator                    | ✓ | RS 485, RS 232 card                                | ✓ |
| Coolant Fuchs Maintain Fricofin LL-35               | ✓ | Remote display                                     | ✓ |
| Coolant inlet outside of the canopy                 | ✓ | Drip space level sensor                            | ✓ |
| Starting batteries 2x180Ah                          | ✓ | External fuel tank 1 000 – 10 000 l                | ✓ |
| Battery charger                                     | ✓ | 3-way valve for external fuel tank connection      | ✓ |
| GCB Schneider NS1250 3P + Micrologic 2.0            | ✓ | Fuel tank filling pump and shut-off valve          | ✓ |
| GCB shunt release coil                              | ✓ | Non-standard canopy color (RAL palette)            | ✓ |
| Bar connection                                      | ✓ | Oil draining hand pump                             | ✓ |
| Controller ComAp IL-NT-AMF25                        | ✓ |  |   |
| Controller switch                                   | ✓ |  |   |
| Acoustic alarm                                      | ✓ |  |   |
| Emergency stop button                               | ✓ |  |   |
| Silenced canopy made with Al.-Zn.                   | ✓ |  |   |
| Standard color RAL 7032                             | ✓ |  |   |
| Fuel tank installed in drip tray                    | ✓ |  |   |
| Welded frame with fuel tank                         | ✓ |  |   |
| Fuel inlet inside, protected by canopy locked doors | ✓ |  |   |
| Fuel level measurement                              | ✓ |  |   |
| Exhaust compensator and silencer                    | ✓ |  |   |
| Engine and alternator vibro isolators               | ✓ |  |   |
| Transportation brackets                             | ✓ |  |   |

**INSTALLATION GUIDELINES**

|   |   |
|---|---|
| Power terminal  | Busbar                                      |
| Recommended cable for up to 30m power cable way                       | Flexible elastyczny 3x5x185 mm <sup>2</sup> |
| Recommended cable for do 30m generator heater supply                  | Flexible elastyczny 3x2,5 mm <sup>2</sup>   |
| *For additional cable connection with FOGO ATS see ATS wiring diagram |   |
| Exhaust pipe min diameter (max. 7 m, 4 bends)                         | 133 mm                                      |
| Exhaust pipe min diameter (max. 15 m, 4 bends)                        |   |

**MAINTENANCE GUIDELINES**

|                                     |   |
|-------------------------------------|---|
| Fuel filters replacement            | 500 h / 1 year  |
| Oil replacement                     | After first 100h, then every 500 h / 1 year             |
| Oil filters replacement             | After first 100h, then every 500 h / 1 year             |
| Coolant replacement                 | 1000 h / 2 years  |
| Battery replacement                 | 2 years   |
| Electrical installation supervising | According to local requirements, at least once per year |

**WARRANTY**

|                            |                                    |
|----------------------------|------------------------------------|
| Continuous work generators | 12 months up to 1000 working hours |
|----------------------------|------------------------------------|