

## Model: FDT45A1 - 45 kVA FPT Industrial Series

50  
Hz

50 Hz



Cooling System: Water

T

Three Phase



Diesel



Foto Indicativa / Indicative Picture

### Features

Generating Set Model	FDT45A1
Power in PRP (kVA)	45
Power in LTP (kVA)	50
Engine Model	NEF45AM1A
Engine Brand	FPT
Alimentation	Diesel
Cooling System	Water
Displacement (cc)	4500
Fuel Tank Capacity(lt)	50.00
Battery Capacity	1x80
Automatic Control Panel	A1
Manual Control Panel	QMA2
Sound Proof Canopy	GK2
Frequence	50 Hz
Voltage	400/230 V + N
Rounds per Minute	1500

### Standards Applied

Coelmo Generating Sets are CE marked and comply with the following regulations:  
(Environmental conditions 1.000 mbar, 25°C, 30% relative humidity. Power referring to ISO 3046)

- Power: ISO 8528
- Directive Machinery : 2006/42/CE - 89/392CEE - 98/37/CE
- Low Voltage : 2006/95/CE - 73/23/CEE - 93/68/CEE
- Electromagnetic Compatibility : 2004/108/CE - 89/336/CEE - 93/68/CEE
- Emissions for non-road engines : 2002/88/CE - 97/68/CE (\*)
- Acoustic emission : 2005/88/CE - 2000/14/CE (\*\*)

\* For non-stationary use only

\*\* For Sound Proof Version Only

### Basic Configuration

- Fuel tank
- Starting battery
- High temperature engine thermostat
- Low pressure oil thrust meter
- Electrovalve engine
- Initial filling of fluids

### Documentation

- User's and maintenance manual
- Electric schemes
- CE declaration
- Test report (on demand)

### Available Options

- Relay and/or differential module
- Over sized fuel tank
- Leakage basin - Automatic refill system
- Catalytic muffler
- Manual fuel transfer pump
- Manual oil extraction pump
- Welded basafame
- Reinforced vibration dampers
- Steel tank
- Manual control panel
- Automatic control panel
- Parallel control panel - Slow speed trailer
- High speed trailer
- Remote alarm control board
- Commissioning
- Remote management

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### Engine

Diesel engine, four stroke water cooled. An efficient cooling system assures excellent performances in whichever site conditions. A low electric power/displacement ratio guarantees a full available power.

Model	NEF45AM1A
Brand	FPT
Alimentation	Diesel
Number of Cylinders	4
Displacement (cc)	4500
HP at 50Hz	61
Speed Governor	Mechanical
Aspiration	NA
Air Flow Ventilator (m3/h)	6480
Combustion Air Flow (m3/h)	172
Exhaust Gas Flow (m3/h)	490
Maximum Exhaust Gas Temperature (°C)	620
Bore (mm)	104
Stroke (mm)	132
Oil cap (l)	8.50
Rounds Per Minute	1500
Consumption at 2/4 of the load (l/h)	6.40
Consumption at 3/4 of the load (l/h)	9.20
Consumption at 4/4 of load (l/h)	11.30

### Aspiration Type

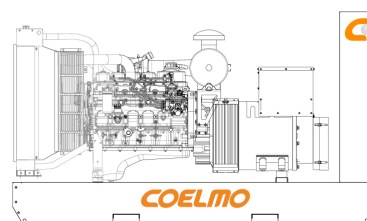
NA	= Natural Aspiration
TC	= Turbo Compressor
TCA/A	= Turbo Compressor Air/Air
W/A	= Turbo Compressor Water/Air

### Alternator

Manufactured in accordance with international IEC 34-1 standards, self regulated, selfexcited, selfventilated, insulated in class "H", regulation accuracy (with load from 0 to 100%) of +/- 1%.

Number of Poles	4
Excitation	Brushless with electronic regulator
Number of Terminals	12
IP	23
Phase	Three Phase
Cos Phi	0.8
Performance	0.88
Voltage	400/230 V + N

### Dimensions



	Open	Soundproof
Length (mm)	2200	2500
Width (mm)	900	900
Height (mm)	1350	1650
Weight (kg)	1075	1265

## Control Panel: Automatic Model: A1 Industrial Range

### Technical Data Sheet

Control Panel Model	A1
Type	Automatic
Applicable Range(kVA)	3 - 48
Change Over	By interlocked contactor
IP	20
Control Board Model	GIOTTO AMF

### Control Board Dimensions

Length (mm)	400
Width (mm)	200
Height (mm)	500

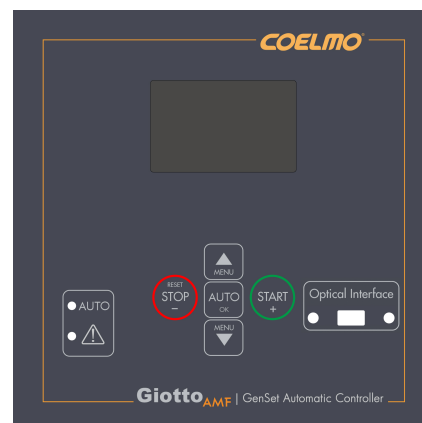
### Standard Set-up

- Voltage, Current, Power and energy
- Power Factor
- Energy Meter
- Frequency
- Engine Rounds
- Number of Start Ups
- Function Hours and Maintenance Notice
- Engine Temperature Indicator\*
- Oil Pressure and Fuel Level Indicator\*

\* Transducers Not Included

### Available Options

- Remote management and reports from PC to fax or via the GSM network
- Alarm Report Control Board
- Remote Control Management Kit



### Description

The automatic control panel and change over switch allows a perfect management of the Generating Set. A magnetothermal circuit breaker is available for the protection of Generating Set and eventual sockets. As an option a Change over switch Mains/Generating Set can be supplied. The control board (micro processor) that is supplied along with the Automatic control panel allows 4 different operational functions: "manual", "automatic", "test", "supermanual". The diagnostics is multilingual (Italian, English, French and Spanish), with clear messages regarding the operational state and active alarms. The electronic board is entrusted with the management of operational safety, thanks to visual/acoustic alarms and eventual engine shutdown, it can help prevent damage caused by malfunctions. The control board counts the number of start attempts and issues the following clear messages on the illuminated display: Running hours, engine speed, start attempts, phase-phase voltage and phase-neutral voltage, battery voltage, active power, apparent power, power factor, provided power, alarms, optional mechanical measurements (oil pressure, engine temperature, fuel level meter).

The automatic control panel manages its own maintenance program indicating the routine maintenance to be performed. It offers the possibility to calibrate measuring instruments and to regulate more than 70 parameters. It can be managed and programmed through a PC and remotely managed thanks to an RS232 port. It has a historic memory that records the breakdowns and services.

## Sound Proof Canopy

Model: **GK2**

Industrial Range



### Technical Data Sheet

Canopy Model	GK2
Length (mm)	2200
Width (mm)	900
Height (mm)	1450



### Description

The canopy is a self-supported structure in pressure folded and soldered steel sheets. The structure is reinforced with four flat corner brackets made of steel sheets. Before being accurately covered in two layers of epoxy resin, the canopy is subject to an anti corrosion treatment and then highly acoustic and auto extinguishing panels are applied. The insulating separators act as thermal noise traps and room dividers, channeling the flow of cool air and prevents its mixture with hot water. The cooling system is enhanced with appropriate measures that help to provide safe characteristics of continuous service. The doors are water and dust tight, allowing an easy access to the Generating set. The lifting hooks provide a balanced handling of the Generating Set when in suspension. The Sound proof version guarantees a noise level of 70 dBA at 7 meters. As an option the Generating Set can be prepared for slow speed and high speed towing that allows the Generating Set to be moved easily.

- Dimensions are relative to the Generating Set complete with Canopy
- The height includes the muffler