

Model: FDT45TM3-10 - 100 kVA Industrial FPT Series

50
Hz

50 Hz



Cooling System: Water

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Three Phase



Diesel



Foto Indicativa / Indicative Picture

Features

Generating Set Model	FDT45TM3-10
Power in PRP (kVA)	100
Power in LTP (kVA)	110
Engine Model	NEF 45 TM3
Engine Brand	FPT
Alimentation	Diesel
Cooling System	Water
Displacement (cc)	4500
Fuel Tank Capacity(lt)	50.00
Battery Capacity	1x100
Automatic Control Panel	A2G
Manual Control Panel	QMA2
Sound Proof Canopy	NK5
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 handbook
- Electric schemes
- CE declaration
- Test report (on demand)

Available Options

- 3 or 4 poles circuit breaker
- Relay and/or differential module
- Over sized integrated fuel tank
- Engine temperature sensor
- Oil pressure sensor
- Fuel level indicator float
- Automatic refill system
- Sound proof canopy
- Catalytic muffler
- Silenced muffler
- Electro manual control panel
- Automatic control panel
- Change over mains/generating set
- Slow speed trailer
- High speed trailer
- Remote alarm control board
- Commissioning

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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	NEF 45 TM3
Brand	FPT
Alimentation	Diesel
Number of Cylinders	4
Displacement (cc)	4500
HP at 50Hz	160
Speed Governor	Mechanical
Aspiration	TCA/A
Air Flow Ventilator (m3/h)	7920
Combustion Air Flow (m3/h)	427
Exhaust Gas Flow (m3/h)	1190
Maximum Exhaust Gas Temperature (°C)	540
Bore (mm)	104
Stroke (mm)	132
Oil cap (l)	8.50
Rounds Per Minute	1500
Consumption at 2/4 of the load (l/h)	14.40
Consumption at 3/4 of the load (l/h)	21.60
Consumption at 4/4 of load (l/h)	27.60

Aspiration Type

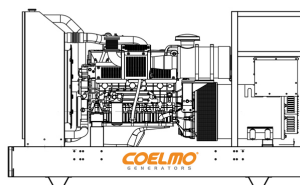
NA	= Natural Aspiration
TC	= Turbo Compressor
TCA/A	= Turbo Compressor Air/Air
W/A	= Turbo Compressor Water/Air

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	0.92
Voltage	400/230 V + N

Dimensions



Disegno a scopo illustrativo - Drawing for illustrative purpose

Version	Open	Soundproof
Length (mm)	2500	2900
Width (mm)	900	1100
Height (mm)	1450	1800
Weight (kg)	1155	1567

Sound Proof Canopy

Model: **NK5**

Industrial Range



Technical Data Sheet

Canopy Model	NK5
Length (mm)	2900
Width (mm)	1100
Height (mm)	1800



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