



## Cetane Analyzer FM-CTA-A100

### Overview

Cetane Analyzer FM-CTA-A100 features a piston stroke of 114.3 mm, ensuring precise and consistent engine operation for accurate cetane number measurements. It includes a single-cylinder, four-stroke engine with a variable compression ratio for precise fuel testing. This maintains a stable cylinder jacket coolant temperature for engine performance. Our Analyzer has precise temperature controls, ensuring optimal testing conditions for accurate results.

### Specifications :

Piston Stroke	114.3 mm (4.5 inch)
Range of Compression Ratio	8:1 to 36:1
Inner Diameter of Cylinder	82.55 mm (3.25 inch)
Engine Speed	900 – 9 r/min
Injection Flow Rate	13.0 – 0.2 ml/min
Oil Atomizing Advance Angle	13° – 0.2° (BTDC)
Injector Coolant Passage Temperature	38 – 2
Fuel Pressure	172 to 207 kPa
Fuel Temperature	57 – 8
Cylinder Jacket Coolant Temperature	100 – 2
Intake Air Temperature	66 – 0.5
Engine Cycling Water Temperature	d Ambient Temp. + 5
Power Supply	380 VAC – 10%, 50 Hz, 3 Phase
Power Consumption	10,000 W
Dimensions (L×W×H)	1450 ×720 ×1750 mm
Weight	1000 kg

### Features :

- Stable engine speed control
- Reliable pressure control system
- Accurate fuel injection system
- Advanced safety mechanism design
- Efficient data collection process

### Applications :

Cetane Analyzer FM-CTA-A100 is used in laboratories, fuel testing facilities, and industries that accurately measure the cetane number of diesel fuels. It applies to diesel fuel quality evaluation, ensuring compliance with international standards and optimal performance.

### Accessories :

Name	Quantity
Circulating Cooling Water	1pc
Anchor Bolt	6 pc
M10×5 Bolt	1 set
Power Cable (2 5mm <sup>2</sup> , 5 Core*6metres)	1 pc
Cooling Pipe	1 set
Metal Bellows	1 set
Gasket For Cooling	3 pc
Exhaust Pipe	1 set
Metal Hose 1 5m+1m	1 set
Woven Net Tube	6m
Pagoda-Style Water Pipe Joint	1+1pc
Hose Hoops	4 pc
Power Line	1 pc
Monitor Screen	1 pc
Keyboard +Mouse +Stylus Pen	1 pc
Plastic Pipe	1 set
Lubricating Oil, 3 5L/Can	3m
Piston Ring	1 pc
Jacket Gasket	2 pc
Oil Seal Gasket	2 pc
Combustion Pickup Assembly	1 set
Cylinder Cushion	5 pc
Air Cushion	3 pc
Filter	1 pc
Injector	1 pc
Filter Pad	9 pc
Plastic Tubing	3m
Tool Box	1 pc
Wrenches	1 set
Socket Wrench	1 pc
Adjustable Spanner	1 pc
Socket Head Wrench	1 pc
Special Filter Wrench	1 set
Cross Screwdriver	1 pc
Combination Pliers	1 pc
Straight Screwdriver	1 pc
Combination Pliers (55mm)	1 pc
The Flywheel Crank	1 pc
Clamp	1 pc
Feeler (0 02 to 1 00mm)	1 pc
Tape (2 Meters)	1 pc
Olican (100 to 150ml)	1 pc
Electrical Tape	1 pc
Teflon Tape	1 pc
Sealant	1 pc
Metallographic Sandpaper	1 pc
Torque Wrench	1 pc