M-HFanA®

Heavy Duty Fan Analyzer

Heavy Duty Fan System Performance Tester

Field Testing, R&D

52440 Series - Heavy Duty Fan System Performance Tester WITHOUT sensor for fan systems

## 52450 Series - Heavy Duty Fan System Performance Tester WITH sensor for fan systems

Features and Benefits

Without connecting any sensor	With additional sensor
• Analysis of real-time behavior of fan systems, *including Fan load curve.*	• Analysis of real-time behavior of fan systems, *including Fan load curve.*
• Input and output performance of the fan's nominal working point, including _Rotation speed. Motor Output power, Motor Input power, Motor Efficiency._	• Friction & Friction spectrum for mechanical defect testing.
• Friction and mechanical defect testing.	• Complete motor and FAN load data from stall up to max speed.
• Can be integrated with: • Vibration measurements, using 1 or 3 acceleration sensors; • Noise level measurements, using a microphone; • Temperature measurements, using a thermal sensor.	• Can be integrated with: • Vibration measurements, using 1 or 3 acceleration sensors; • Noise level measurements, using a microphone; • Temperature measurements, using a thermal sensor. • Torque & Speed spectrum.
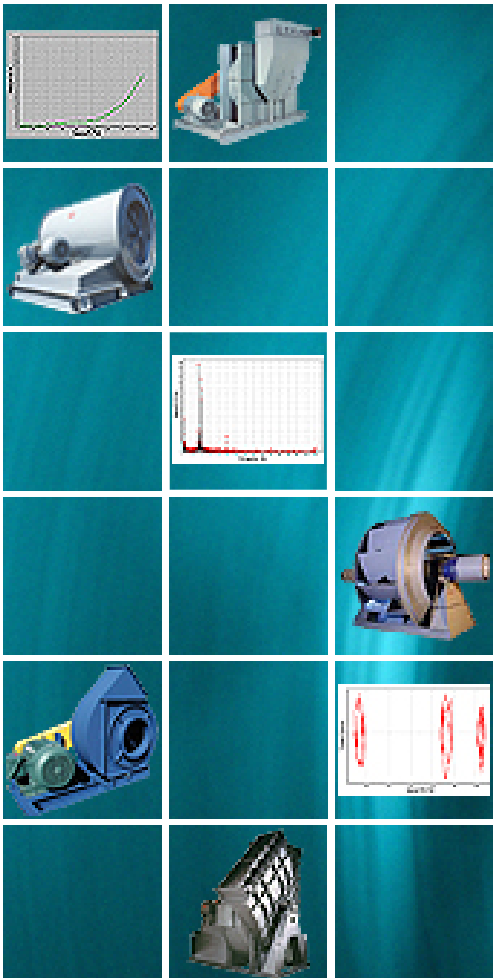
Application Testers

M.E.A. Testing Systems Ltd.
www.meatesting.com

General Specifications

MLK Dimensions	(W x H x D) 26 x 12 x 33 cm
Operating System	Windows ™ XP

## Performance Tests

Supported Tests	Speed, torque, speed and torque spectrum, input power, output power.
System Accuracy	± 0.2%
Sensors	Testing is supported: - WITH sensor - WITHOUT sensor

Heavy Duty Fan Analysis test example: Testing without any sensor by using only the input power line

System gives Fan load performance.
Working point: Rotation speed; Motor Output power, Motor Input power, Motor Efficiency.

Fan Load Curve

Fan Working Point
Speed: 1,400 rpm
Motor Output Power: 79.82 W
Motor Input Power: 147 W
Motor Efficiency: 54.3 %
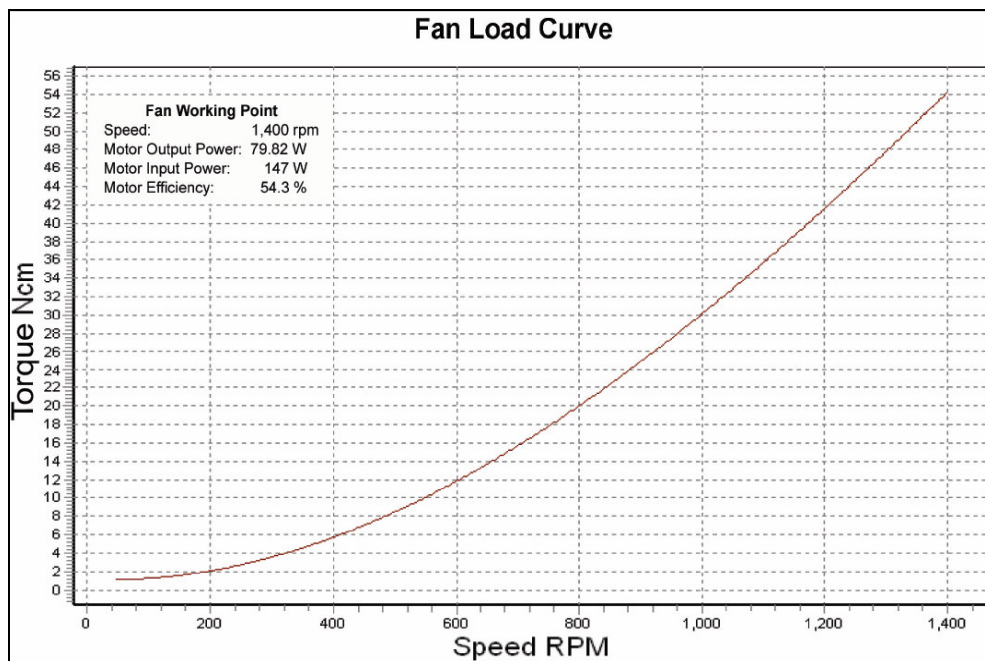
Powerful, Yet Simple

An advanced service instrument, with USB connection, MEA's M-HFanA® Heavy Duty Fan Analyzer gives you the power to obtain analysis of real-time behavior of fan.
Without any additional sensor, the System automatically gives the fan load's complete load performances, input and output performance of the fan's nominal working point, friction, and mechanical defect testing.

M-HFanA® provides data measurement and recording of analog and digital input signals, enabling analysis of fan systems performance. It displays analytical results giving you the capability to identify previously undetected mechanical and electrical problems and defects (i.e. transition and resonance phenomena, vibration, unbalance, noise), to assess fan system condition on-site, and to give adequate solutions to the underlying causes.

Simply Powerful

With MEA M-HFanA® Heavy Duty Fan Analyzer, you have all you need in your laptop for your Fan analysis in the field and also before delivering to your customers.

- Customized solutions
- Customer support
- Technical services
- 1-Year warranty
- Optional extended warranty program
- Local sales offices throughout the world

MEA
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