



FCM-100™ FAN CHARACTERIZATION MODULE

The FCM-100™ Fan Characterization Module is a specialized unit designed to test and characterize fans of various sizes and performance outputs. Using the FCM-100™ Module in conjunction with the FCMC-100™ it is possible to develop fan curves (ΔP vs. Flow rate) that can be used to verify fan manufacturer data or to characterize fans of unknown performance.

The FCM-100™ is constructed of sturdy corrosion resistant sheet metal. A removable and customizable lexan mounting plate is provided to which fans of various diameters can be secured. Six (6) perforated removable plates and one (1) solid plate for the 0 flow data point is provided. This allows the user to control the pressure drop through the module for fans under testing.

Customizable options include various sized specialized mounting plates can be made for the characterization of multiple fans simultaneously, including fan tray assemblies.



FCMC-100™
Fan Characterization Module Controller

OVERALL DIMENSIONS (L X W X H)

92 CM X 47.5 CM X 50 CM
(36.2" X 18.7" X 19.7")

FLOW RATE

70 CFM TO 2080 CFM

PRESSURE RANGE

UP TO 0.15 PSI

ACCURACY

+/- 3%

FAN/FRAME SIZES

ROUND: DIA 200 AND DIA 172
SQUARE: 150MM, 140MM, 127MM, 120MM,
AND 92MM

FEATURES:

- » **Flow Restriction Plates**
Includes six removable perforated flow restriction plates allowing the user to control the pressure drop through the module
- » **Sturdy Construction**
For integration into control circuits that require analog voltage as input signals
- » **Multiple Fan Sizes**
Accepts 2 round frames, the DIA 200 and DIA 172, and 5 square sizes, 150x150, 140x140, 127x127, 120x120, and 92x92 mm
- » **Customizable Options**
Options include specialized mounting plates for the characterization of multiple fans simultaneously, including fan tray assemblies.
- » **Compatible Instruments**
Can be used in conjunction with FCMC-100™ to develop fan curves that can be used to characterize fans or verify manufacturer data.

APPLICATIONS:

- » **Telecommunications**
- » **Networking**
- » **Embedded Systems**
- » **Thermal Management**



For further technical information, please contact Advanced Thermal Solutions, Inc. at 1-781-769-2800 or ats-hq@qats.com.

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