

## Airflow Impedance Characterization System for ATCA Front Blades

# Blade Profiler-FB

### Features



- Determine airflow impedance of ATCA Front blades in minutes
- Airflow, pressure and flow distribution data generation
- State of the art sensors technology
- Fully automated wind tunnel control system
- User friendly and intuitive software interface
- CP-TA ICD compliant test process
- Rugged carrying case

### About Blade Profiler

In an open platform, such as ATCA where the shelf and blades may be from different vendors, interoperability is assured by strict adherence to design standards. The shelf is designed to provide certain airflow and pressure characteristics on each blade slot. It is the responsibility of the blade designer to utilize the available airflow adequately. The prime factor that determines the amount of airflow over a blade is its airflow impedance. Measuring the blade impedance has never been this easy with this automated wind tunnel from DegreeC.

The Blade Profiler System is a testing instrument developed for airflow impedance measurement of an ATCA Front board. It lets the user to perform a flow impedance scan of an individual board in matter of minutes. This process will assure that it complies with the flow impedance requirement of CP-TA ICD.

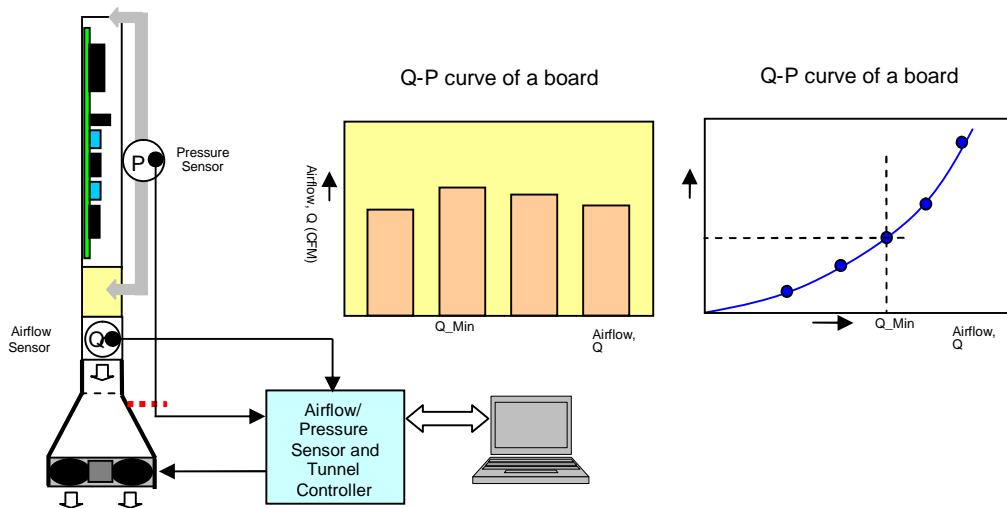
The Blade Profiler Software turns your PC into a powerful test and analysis center. The windows-based software prompts for EUT information. It performs a sweep of the air velocity and collects airflow, and pressure drop data. The report generated contains impedance curve, and flow distribution. The user then can print the summary test report or save it and email it to its destination. It is that simple!

We also offer our FlowMarker Kit as an accessory to aid in airflow visualization. The Flow Marker is a unique, portable fog generator tool designed to facilitate detection and analysis of air movement. The fog is environmentally friendly, non-toxic and safe for human use, and best of all does not leave any residues on your electronics or test equipment.

## Electrical Specifications

Description	Units	Minimum	Normal	Maximum
Supply Voltage	V	15	24V DC	28
Supply current	A	3.0		5.0
Flow rate	CFM	3.0		55.0
Velocity range	FPM	30		4000
Operating Temperature	°C	10		60
Interface	USB 2.0			

## Block Diagram



## Accessory Tool

Flow Marker Kit for CFD Simulation and Flow Visualization of airflow pattern over the blade.

