For field or laboratory use ... 
The Dwyer® Air Volume Gage is a precision-built instrument for air conditioning and heating engineers that has proven to be extremely useful both in the field and in the laboratory. Portable and highly accurate, this instrument fills the need for an instrument to accurately determine the volume of air flowing through air conditioning coils. An indispensable aid in proving out cooling system installations, the Dwyer® Air Volume Gage helps to avoid poor performance and mechanical failure. It shows the installer or engineer exactly when more or less air is needed to keep within the critical limits necessary for the most efficient and trouble-free cooling system operation.

Features
- Also useful for ventilating, heating, refrigeration and air filter systems: indicates air volume flow, furnace draft, filter condition, plenum pressure, etc.
- Trail-Tail: Static pressure tips assure accurate measurements even in turbulent flow conditions.
- Complete: Gage, Trail-Tails, tubing and accessories all packed in fitted carrying case.
- Ready to use: Simple to assemble, hook up, and take readings.
- Permanently accurate: No delicate parts to get out of order, no moving parts of any kind, accuracy remains constant.
- Durablock: Construction of solid transparent plastic, virtually indestructible and permanently accurate.

Installation ...
Simply level, adjust for zero, attach static lines and insert Trail-Tails in test holes. Pressure drop is then read in inches of water column. The reading can be quickly converted to volume flow by referring to the manufacturer's pressure and flow curves furnished with the cooling unit.

Durablock® Air Volume Gage
Specifications - Installation and Operating Instructions
Small and portable ...
To determine cooling capacity of air conditioning systems, the American Society of Refrigeration Engineers requires that air volume be established by measuring static pressure differential across a calibrated test orifice with an elliptic curve approach. This laboratory test is highly accurate, but impractical for field use because of the large, cumbersome equipment involved. The Dwyer® Air Volume Gage with Trail-Tail static pressure sensors offers a positive solution to this problem. This compact gage combines laboratory accuracy, field-use versatility and ease of operation.

Saves time, saves work ...
Leading cooling equipment manufacturers furnish coil performance data showing the static pressure differential across each coil along with the equivalent volume flow and peak cooling point. This data is determined in laboratory hot rooms with air flow accurately measured by ASRE standard methods. Recommended static pressure differentials usually run between .10˝ and .20˝ water column (.2482 mbar and .4964 mbar). Maximum cooling capacity is usually found in the range of 400 c.f.m. (11,326.4 LPM) for each 12,000 b.t.u. of cooling. Using the Dwyer® Air Volume Gage with Trail-Tail static pressure sensors, the air conditioning engineer or installer can accurately measure air pressure differential across a cooling coil. With this information, the user may determine air volume flow from the manufacturer’s data, thus bringing laboratory accuracy into the field. Adjustments in blower speed can then be made to exactly duplicate the manufacturer’s recommended operating point. Conditions which would lead to mechanical failure are avoided and peak performance is assured.

Complete kit
Gage comes in fitted plastic carrying case with a pair of Trail-Tail static pressure sensors, extra trail tube and fin assemblies, package of 25 plastic hole plugs, two molded nylon rapid-shutoff connections, pair of Magneclips, 9-foot (274.32 cm) length of rubber tubing, terminal tube with holder, 3/4 ounce (22.18 ml) bottle of gage oil and instructions.

VT-170 Inclined, range 0 - .50˝ w.c., .02˝ Divisions
VT-171 Inclined, range 0 - .25˝ w.c., .01˝ Divisions
VT-172 Inclined, range 0 - 1.0˝ w.c., .02˝ Divisions