PRE-PROGRAM DUCT SIZES AND QUICK SELECTION

TSI® 9565-P, 9565-X, 7575-X
AIRFLOW INSTRUMENTS® TA465-P, TA465-X

APPLICATION NOTE TSI-162 (A4)

Testing and balancing commercial HVAC systems commonly includes duct traverse measurements to ensure the entire system is operating at design conditions. Different ductwork sizes are used in commercial ventilation systems and are sized by the amount of airflow required to be delivered to a particular space.

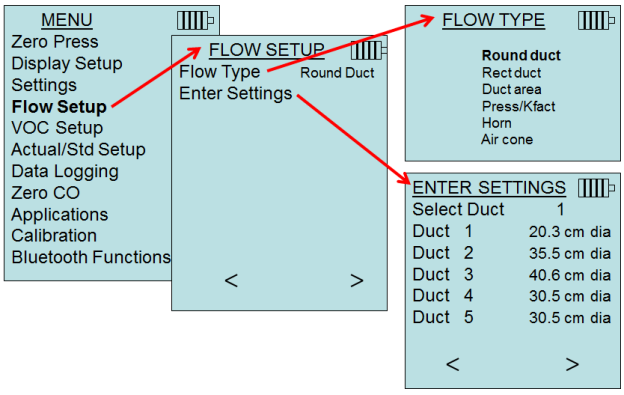
An enhanced feature of the multi-purpose meters 9565-P/-X, TA465-P/-X and 7575-X is the ability to pre-program multiple duct sizes and quickly switch from one size to another. This allows the contractor to quickly switch between common duct configurations encountered on the jobsite which maximizes measurement productivity.

In addition to pre-programed duct sizes, user configurable Kfactors can also be entered into multi-purpose models 9565-P and TA465-P. A Kfactor is used to convert the differential pressure signal from a pressure-based flow station mounted in a duct or VAV box directly into a flow rate. This measurement requires the Kfactor value from the manufacturer providing the flow station.

Flow Setup

The menu structure is organized to allow easy navigation and instrument setup utilizing the arrow keys and ↵ button. To exit a menu or menu item, press the **ESC** key.

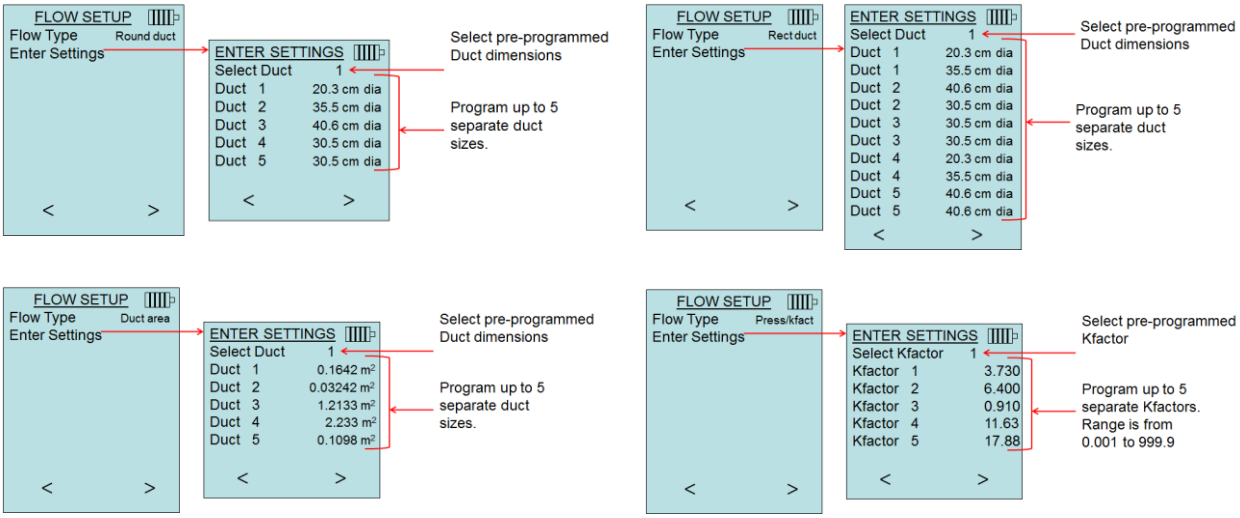
- To access the Menu items, press the **Menu** soft key.
- To select **Flow Setup**, use the Arrow keys to highlight the selection and press the button.
- Use the arrow keys and ↵ button to make changes and selections.



Pre-Program Duct Sizes

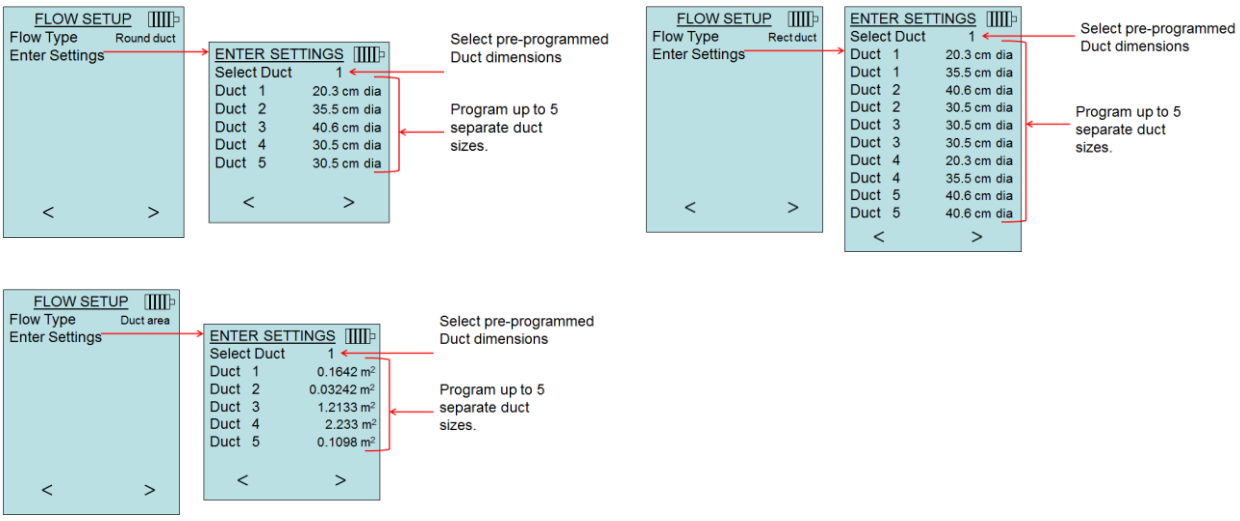
Models 9655-P and TA465-P

Up to five rectangular ducts, five round ducts, five duct areas and five Kfactors can be pre-programmed for quick use on a jobsite. Duct traverse measurements can be taken with a standard Pitot tube or thermoanemometer probe.



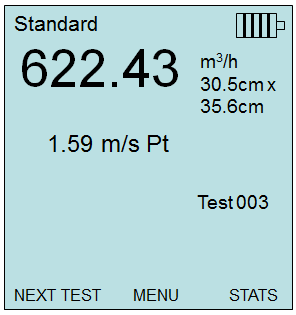
Models 9565-X, TA465-X and7575-X

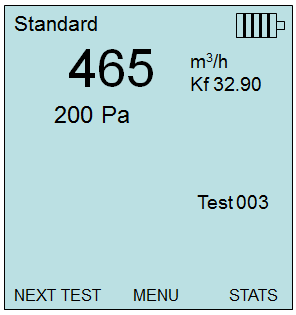
Up to five rectangular ducts, five round ducts, five duct areas can be pre-programmed for quick use on a jobsite. Duct traverse measurements can be taken with these models when using the thermoanemometer probe.



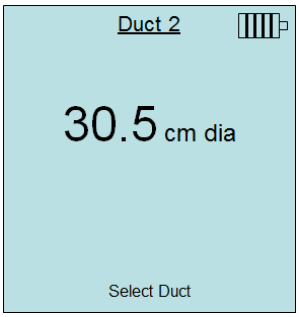
Quick Duct Selection

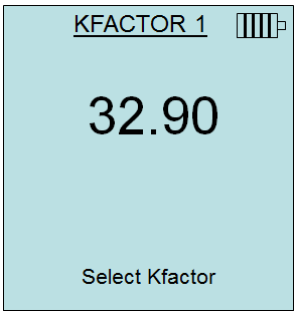
When **Flow** is set as the **Primary** measurement in the **Display Setup** menu, the dimensions or Kfactor will be displayed depending on instrument model:



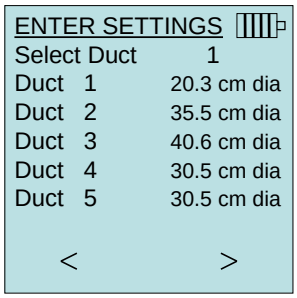


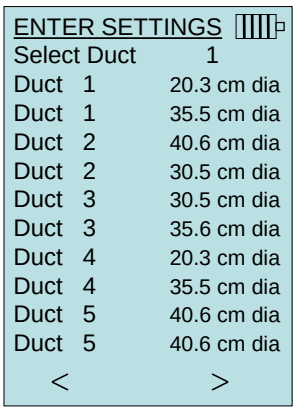
When measuring **Flow** as the **Primary** measurement, the parameters can be quickly changed by pressing the ▲ or ▼ key while on the main measurement screen:

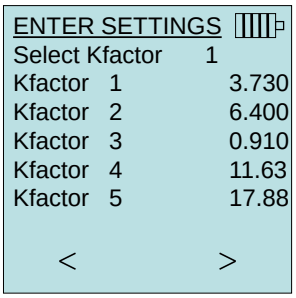


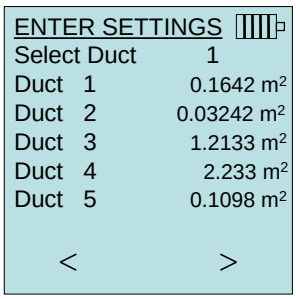


Make adjustments to the indicated value with the ▲ or ▼ keys and press ↵ to accept, or enter the **Select Duct** or Select **Kfactor** menu to choose a different pre-programmed flow value or dimension depending on instrument model:









The information contained herein can also be found in the instruction manuals for the appropriate instrument models.

UNDERSTANDING, ACCELERATED

TSI Incorporated – Visit our website **www.tsi.com** for more information.

USA	**Tel:** +1 800 874 2811	**India**	**Tel:** +91 80 67877200
UK	**Tel:** +44 149 4 459200	**China**	**Tel:** +86 10 8219 7688
France	**Tel:** +33 1 41 19 21 99	**Singapore**	**Tel:** +65 6595 6388
Germany	**Tel:** +49 241 523030		

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