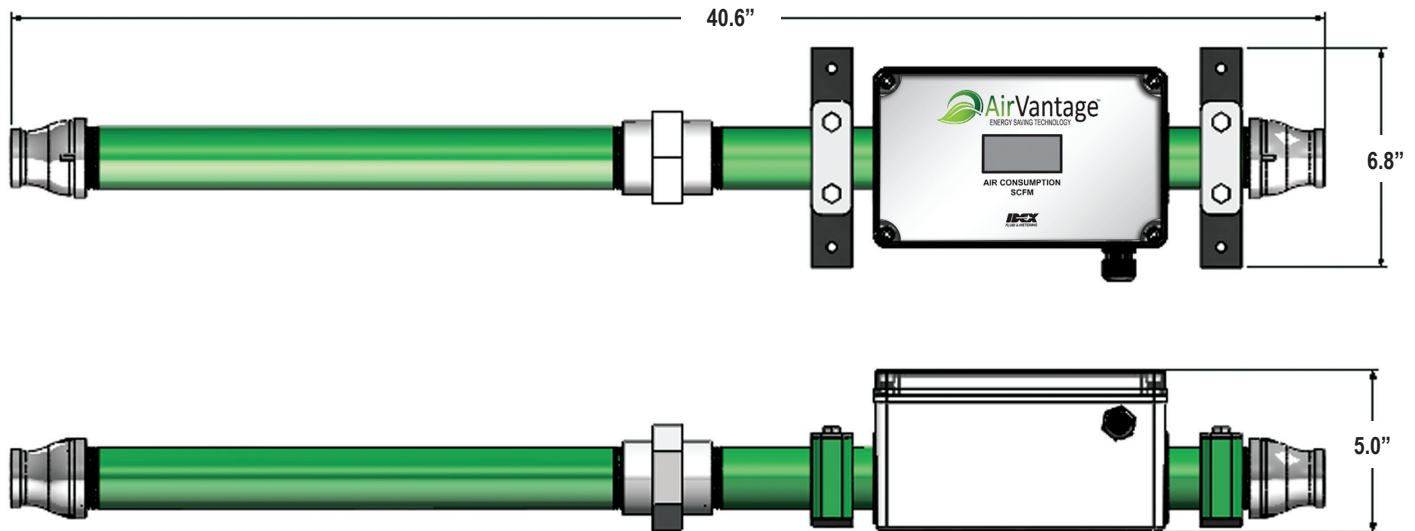


AirVantage™ Validator

Air Flow Kit for AirVantage site assessment and product validation



MODEL #: 475.274.000 US • 475.282.000 METRIC

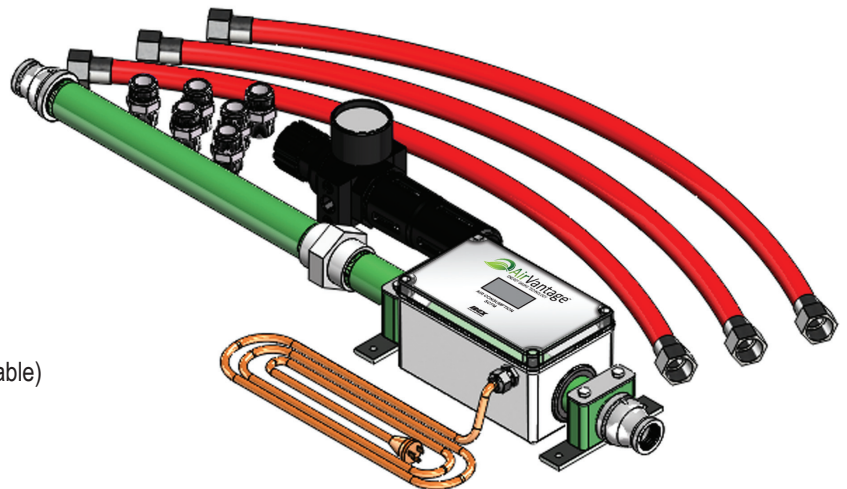
Usage Description:

The AirVantage Validator is used to measure air inlet pressure and pump air usage. The device plumbs inline just prior to the air inlet of the pump.

The AirVantage Validator contains data-loggers that record data over a period of time. The data is then analyzed to determine frequency and duration of pump operation, projecting energy savings.

Specifications:

- Flowrate:** 2-300 SCFM
- Pressure:** 0-200 PSI
- Fluids:** Compressed air
- Input Power:** 100V-240V, 50/60Hz
- Display:** Four-digit LED display for SCFM
- Data-Logging Sample Rate:** 1 sec – 12 hr
- Data-Logging Capacity:** 32,000 data points (see table)
- Data Logger Battery Life:** Estimated 1 year



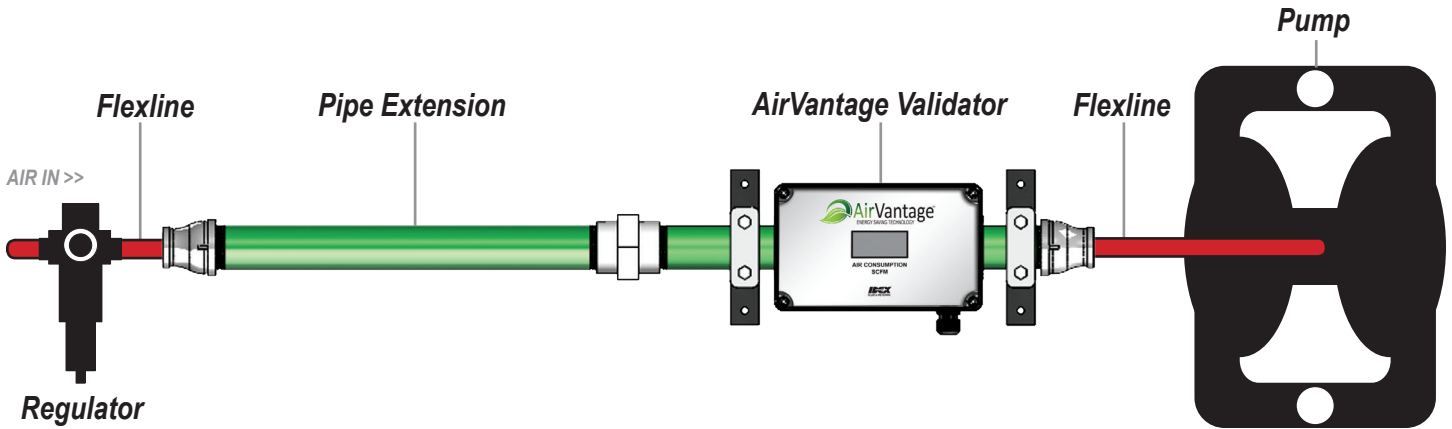
Required Tools: (Not Included)

- Crescent wrenches
- Channel Lock Pliers
- Air system fittings for connection (variable by applicaiton)

Kit Includes: Flowmeter, NPT/JIC fittings (4), JIC/JIC coupling (2), Filter regulator, 1" Flexible hose (3)

Installation and Operation

Install Pressure Regulator to inlet side of pipe . Make sure to install Pressure Gauge and plugs.



Step 1: Validator Preparation

1. Remove hardware from carrying case.
2. Attach additional length of pipe onto the coupling/union already installed to the meter unit.
3. Install Pressure Regulator to inlet side of pipe. Make sure to install Pressure Gauge and plugs.
4. Attach flexible tubing to hard pipe and Pressure Regulator. A third piece of flexible tubing is provided to help with installation. Note; Plant shop air is to flow from the Pressure Regulator to the meter unit.
5. Place unit in a convenient location for viewing and accessing. Secure unit using 'zip-ties' through the holes in the 'feet' (E).
6. Plug unit into power source.

Step 3: Data Collection Table

Sampling Interval	Record Times
1 sample every second	9 hours
1 sample every 10 seconds	90 hours
1 sample every minute	22 days
1 sample every 5 minutes	112 days
1 sample every 30 minutes	22 months
1 sample every hour	>2 years
1 sample every 6 hours	>2 years
1 sample every 12 hours	>2 years

Step 2: Installation and Operation

1. Swap out current pump with the AirVantage pump.
2. Maintain Air Flow Meter Kit.
3. If air-line is not already $\geq \frac{1}{2}$ " ID for 2" pumps ($\geq \frac{3}{4}$ " ID for 3" pumps), replace all air-lines as far back as necessary.
4. Eliminate any unnecessary air restrictions.
5. Adjust regulator till desired flow rate is achieved.
6. Come prepared to have the proper fittings to mate-up with the customer's plumbing.
7. Operate Pump
8. Internal Data Loggers record Air inlet pressure and air consumption.
9. Remove Internal Data Logger and download to computer for analysis

