

IAQ ENFORCER™ Installation Guide

1. PHYSICAL INSTALLATION

1.1 ALL FAN INLETS

1.11 - Each package is labeled for serial number, size and location. Carefully open packages and inspect for damage. Make sure that the protective foam padding remains on the sensor assembly until after the entire unit is installed. Although the sensors are rugged after installation, they are vulnerable to rough handling during the installation process. The protective foam padding will insure that no damage results from the installation.

1.12 - Fan inlet sensors are designed to be mounted in the throat of centrifugal fans or the housing of a vane axial fan upstream of the impeller. Adjustable mounting brackets allow for precise sizing at the job site. Make sure that no moving parts can interfere with the sensor assemblies, mounting hardware, or wiring.

1.13 - Measure the diameter, "D", of the fan at the location that you intend to mount the flow station.

1.14 - Look up the dimension for "L" from table 1.1 based on the inlet diameter "D" that you measured.

1.15 - Set each rod length, based on table 1.1 measurements. The length given in the table is the distance between the center set screws of the sensor housing and roll pin in the sensor mounting foot. Set the length of each rod and securely tighten the sensor housing set screws. Be certain that the mounting feet orientation is correct with respect to the sensor housing (see figure 1.1).

1.16 - Mount one pair of fan inlet sensors in each fan inlet as illustrated in figure 1.2 with hardware suitable for inlet conditions and that will not interfere with the fan during operation. Place the assemblies marked "red" and "blue" in

Table 1.1 - Determination of length "L" for Mounting Bracket Adjustment

Inlet Diameter "D"	L	Inlet Diameter "D"	L	Inlet Diameter "D"	L	Inlet Diameter "D"	L
11	3 11/16	31	12 2/16	51	20 8/16	71	28 15/16
12	4 2/16	32	12 9/16	52	20 15/16	72	29 6/16
13	4 9/16	33	12 15/16	53	21 6/16	73	29 13/16
14	4 15/16	34	13 6/16	54	21 13/16	74	30 3/16
15	5 6/16	35	13 13/16	55	22 3/16	75	30 10/16
16	5 13/16	36	14 3/16	56	22 10/16	76	31 1/16
17	6 4/16	37	14 10/16	57	23 1/16	77	31 8/16
18	6 10/16	38	15 1/16	58	23 8/16	78	31 14/16
19	7 1/16	39	15 8/16	59	23 14/16	79	32 5/16
20	7 8/16	40	15 14/16	60	24 5/16	80	32 12/16
21	7 14/16	41	16 5/16	61	24 12/16	81	33 2/16
22	8 5/16	42	16 12/16	62	25 3/16	82	33 9/16
23	8 12/16	43	17 3/16	63	25 9/16	83	34
24	9 3/16	44	17 9/16	64	26	84	34 7/16
25	9 9/16	45	18	65	26 7/16	85	34 13/16
26	10	46	18 7/16	66	26 13/16	86	35 4/16
27	10 7/16	47	18 14/16	67	27 4/16	87	35 11/16
28	10 14/16	48	19 4/16	68	27 11/16	88	36 2/16
29	11 4/16	49	19 11/16	69	28 2/16	89	36 8/16
30	11 11/16	50	20 2/16	70	28 8/16	90	36 15/16

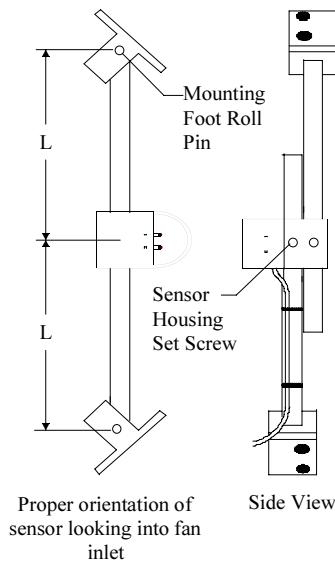
one inlet and the ones marked "yellow" and "green" (dual inlet systems only) in the other inlet. The length set from section 1.15 will insure that the sensor is located properly. After installing the first sensor assembly in an inlet, position the second sensor assembly, as close as parallel to the first sensor assembly as possible, on the opposite side of the inlet.

1.17 - Secure the cable to the sensor assembly rods with tie wraps and secure to the inlet housing with cable clamps.

2. ELECTRICAL CONNECTION BETWEEN SATELLITE STATION AND INLET SENSORS

2.1 - Connect the color coded cables to the same color connector on the satellite as illustrated in figure 2.1.

Figure 1.1 - Sensor Assembly



Single Fan Inlet Systems

- Position A RED
- Position B BLUE

Dual Fan Inlet Systems

- Position A RED
- Position B BLUE
- Position C YELLOW
- Position D GREEN

Figure 2.1 - Satellite Connections

