ORIFLOW
Air Leakage Test Equipment

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COBRA Duct Leakage Tester

The Cobra model duct air leakage tester has been engineered to handle the most common commercial jobs. This positive & negative pressure, duct leakage tester includes everything you need to perform a professional duct air leakage test. The Cobra model can measure from 9 to 680 cfm of air leakage (see table below).

Cobra tester

Standard Features:

- 115v/1ph/15A operation.
- Precision variable speed controller.
- 12.5-ft of 5-inch diameter flex-duct (not shown).
- 20-ft of pressure tubing.
- Set of four (1" to 4") orifice plates with +/- 2% error.
- Measure 9 to 600+ cfm of leakage.
- Certified calibration certificate for each orifice plate.
- EXCLUSIVE Twist-Lock orifice plates for quick changes.
- Simple to use digital gauges powered from controller.
- No-flat tires and upper locking casters for horizontal transport and convenience.

Options/Accessories:

- Low-flow ½" orifice plate for 1 to 10 cfm.
- Stand-alone smoke machine.
- Dust cover with zippered front access.
- 230v/1ph/8A/50-60Hz operation (w/ speed controller).
- Analog pressure gauges substitution.

Compliant with Following Standards:

- EN 1507, Ventilation for Buildings - Sheet Metal Air Ducts with Rectangular Section - Requirements for Strength and Leakage.
- EN 12237, Ventilation for Buildings - Ductwork - Strength and Leakage of Circular Sheet Metal Ducts.
- Eurovent 2/2, Leakage Rate in Sheet Metal Air Distribution Systems.
- DW/143, Ductwork Leakage Testing.
- SMACNA Air Duct Leakage Test Manual.

Leakage Capacity of Orifice Plates

Test Pressure **+/-** (in.wg.)	Recommended Flow Range of Orifice Plate									
	OPTIONAL Low-flow Plate		1-inch Plate		2-inch Plate		3-inch Plate		4-inch Plate	
	Min Flow (cfm)	Max Flow (cfm)	Min Flow (cfm)	Max Flow (cfm)	Min Flow (cfm)	Max Flow (cfm)	Min Flow (cfm)	Max Flow (cfm)	Min Flow (cfm)	Max Flow (cfm)
0.10	1	10	9	47	34	180	82	440	175	680
1	1	10	9	44	34	170	82	420	175	650
2	1	10	9	42	34	165	82	410	175	645
4	1	10	9	36	34	140	82	375	175	600
6	1	8	9	29	34	115	82	290	175	465
8	1	6	9	19	34	75	82	195	175	350
9	1	4	9	12	34	45	82	130	175	250
10	1	2	0	2	0	0	0	0	0	0

Minimum flow based on 0.40 in.wg. pressure drop across orifice plate. Customer may choose to measure smaller pressures.