

## COBRA Duct Leakage Tester

The Cobra model duct leakage tester has been engineered to handle the most common commercial jobs. This duct leakage tester includes everything you need to perform a professional duct leakage test. Each tester comes with one calibrated orifice plate, your choice. Additional plates may be purchased separately. Use the table below to assist with matching tester/plate performance to your requirements

### Standard Features:

- Unit is fully assembled and ready for use
- 12.5 ft of 5-inch diameter flex-duct (not shown)
- 20 ft of pressure tubing
- 1hp, 60Hz, 1ph motor wired for 115 or 230V
- Choice of one orifice plate with +/- 2% error
- Certified calibration certificate
- Inlet slide gate for flow control
- Simple to use analog gauges
- No-flat tires and upper locking casters for horizontal transport and usage

### Options:

- Digital pressure gauges.
- State of the art digital variable frequency drive (VFD) for low pressure, low flow applications and allows precise speed control and quiet operation.
- Additional orifice plates for different flow ranges.
- 230V/50-60Hz/1ph VFD.

### 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.



### **Cobra model**

(Shown with optional VFD and optional digital gauges)

### Common configurations:

- SET of 1, 2, 3 and 4-inch plates (free plate discount)
- VFD (useful for testing lower leakage or pressure)



*Stamped and Certified ..... anything less is rolling dice.*

## Leakage Capacity of Orifice Plates

Test Pressure (in.wg.)	Recommended Flow Range of Orifice Plate									
	1/2-inch 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	11	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	8	9	36	34	140	82	375	175	600
6	1	7	9	29	34	115	82	290	175	465
8	1	4	9	19	34	75	82	195	175	350
9	1	3	9	12	34	45	82	130	175	250

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