

FLOW FINDER MODEL 153

for measurements of air flows at grilles

The FLOW FINDER has been developed in co-operation with the department of Indoor Environment of TNO, Delft.

Principle of the zero pressure method

The working of the FLOW FINDER is based on the principle of the zero pressure method. With this method the resistance of the measuring instrument is compensated by means of a fan, so that the characteristic of the air distribution system is not influenced by the measurements.

Research at the universities of Stuttgart, Trier and Delft has proven that the zero pressure compensation method is the most accurate way of measuring air flows in supply and exhaust ornaments of various shapes and sizes.

Application:

- airconditioning systems with a low terminal resistance
- line diffusors
- low air volumes or velocities
- natural ventilation

Operation:

Because of the unique zero pressure method the air flow is virtually not influenced by the placing of the FLOW FINDER before an outlet or grille. The FLOW FINDER is set manually. The zero pressure indicator will indicate analogously if the air flow on the scale of the FLOW FINDER is higher or lower than or equal to the air flow to be measured.

The FLOW FINDER itself and the zero pressure indicator react instantly so that the air flow that is to be measured can be determined very rapidly.

A standard accessory of the FLOW FINDER is an adaptor cone with the dimensions 425 x 340 mm. If necessary other cones can be mounted without changing the air flow scale.

The accuracy of the reading is better than +/- 5% of the indicated value +/- 0,0005 m3/s (= +/- 2 m3/h). This more than meets the tolerances with which airconditioning systems can usually be balanced.

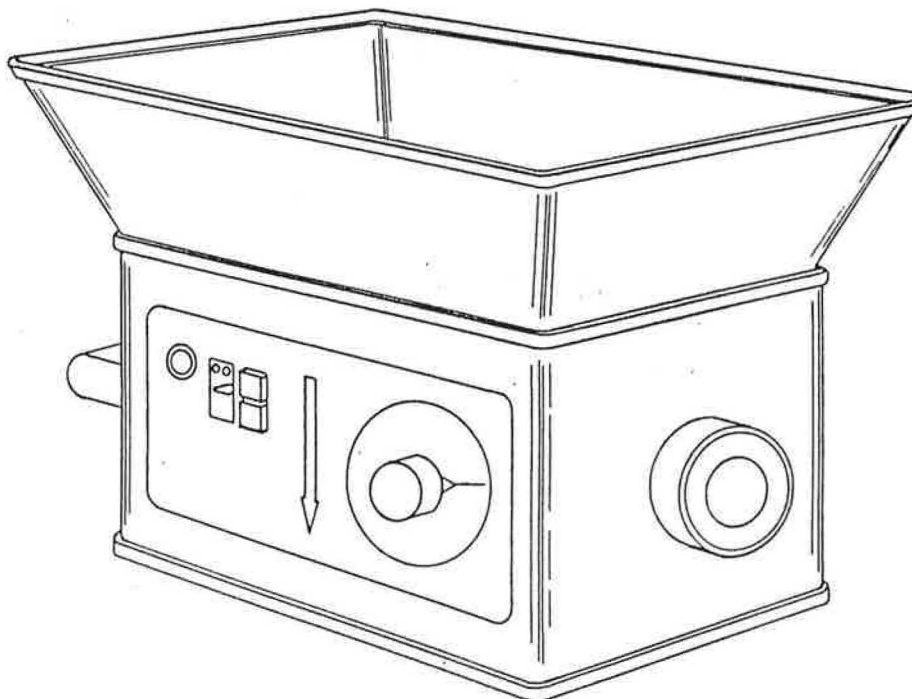
The working of the FLOW FINDER is exclusively based on mechanical principles, so that the repeatability is very high. The scale and the zero pressure indicator will hardly need re-adjusting. The pressure drop of the FLOW FINDER is fully compensated by an electric fan which runs on a rechargeable battery.

If necessary the working of the FLOW FINDER can be checked with a calibrated opening.



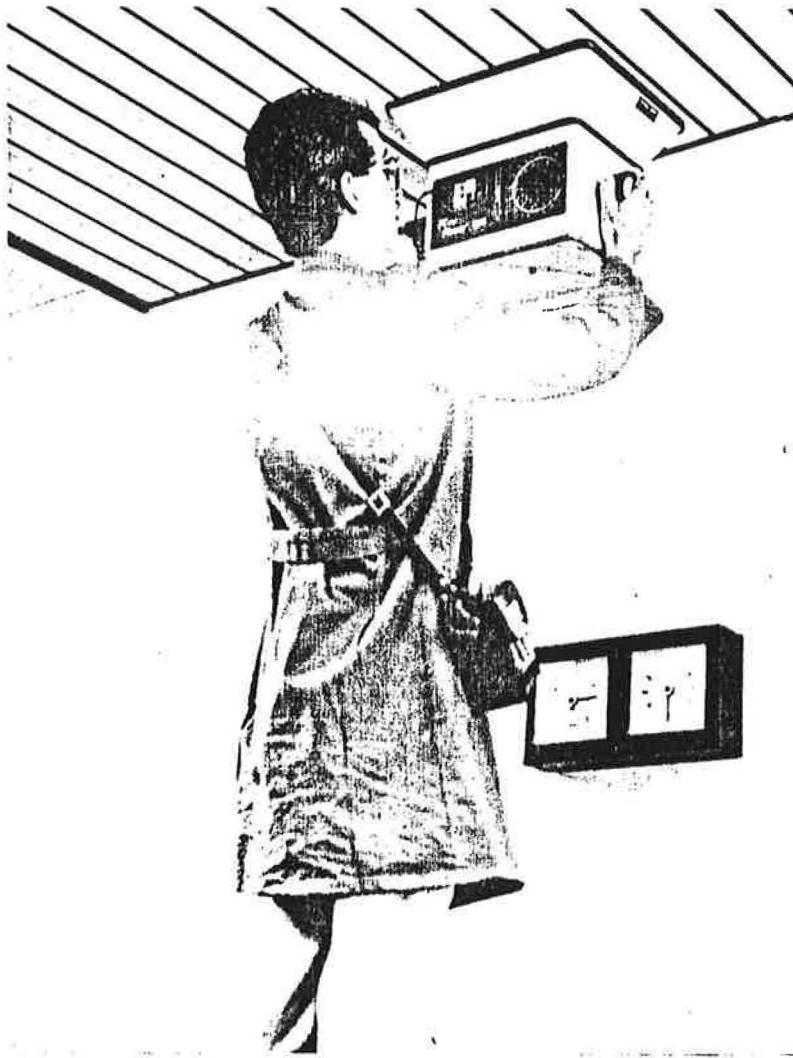
Specifications:

air flow range	:	0 to 0,063 m ³ /s (0 to 225 m ³ per hour) supply and exhaust
accuracy	:	5% of the reading \pm 0,0005 m ³ /s (2 m ³ per hour)
resolution of the zero pressure indicator	:	<1 Pa
battery life	:	more than 1 hour of continuous operation
weight	:	FLOW FINDER 3,7 kg
dimensions	:	FLOW FINDER 425 x 340 x 320 mm

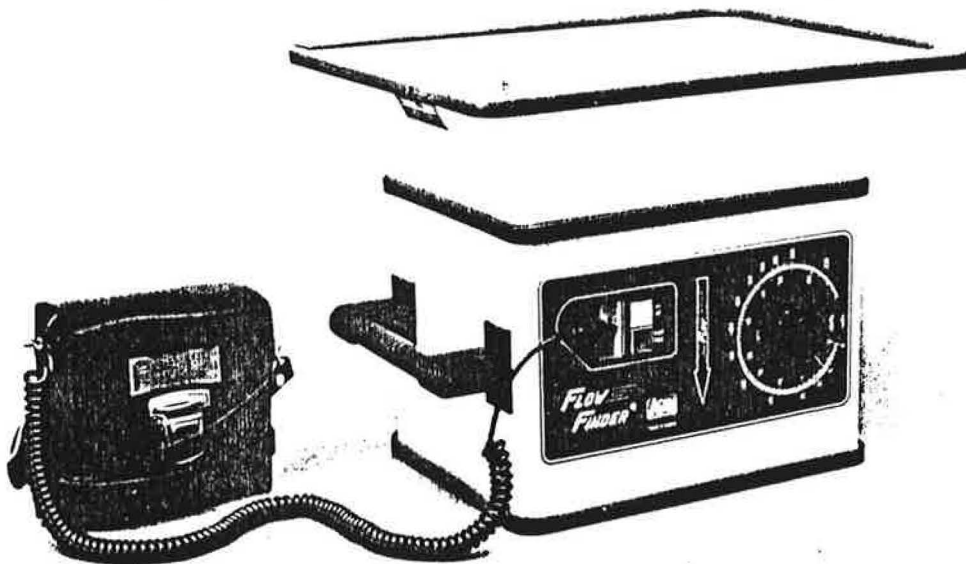


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measuring
air quantities at
zero pressure



instrumentbedrijf ACIN bv
postbus 19191 tel. 070-888990
2500 cd den haag telex 33214

ACIN

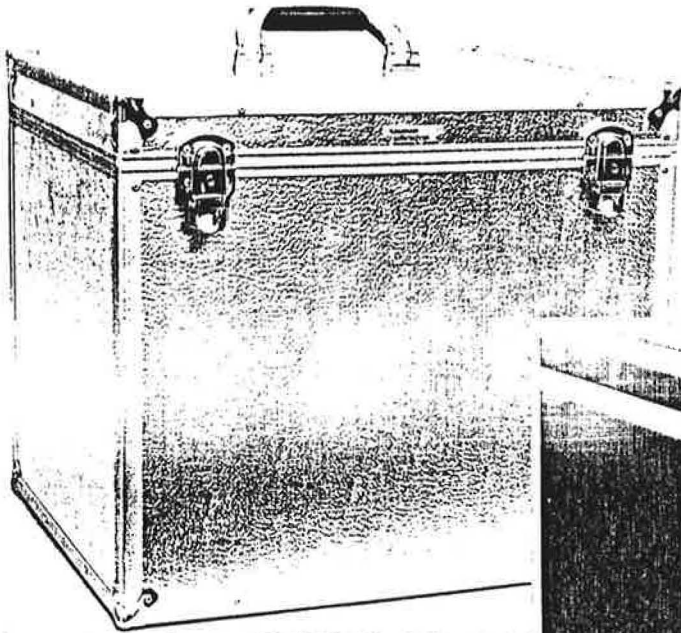
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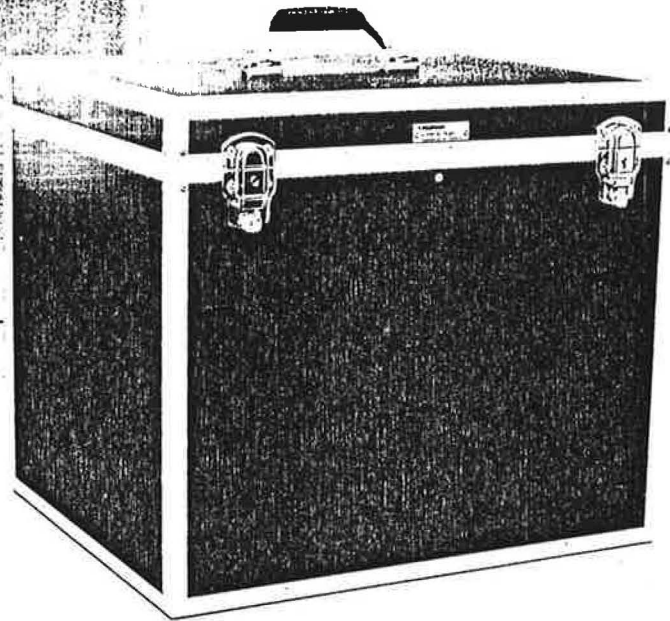
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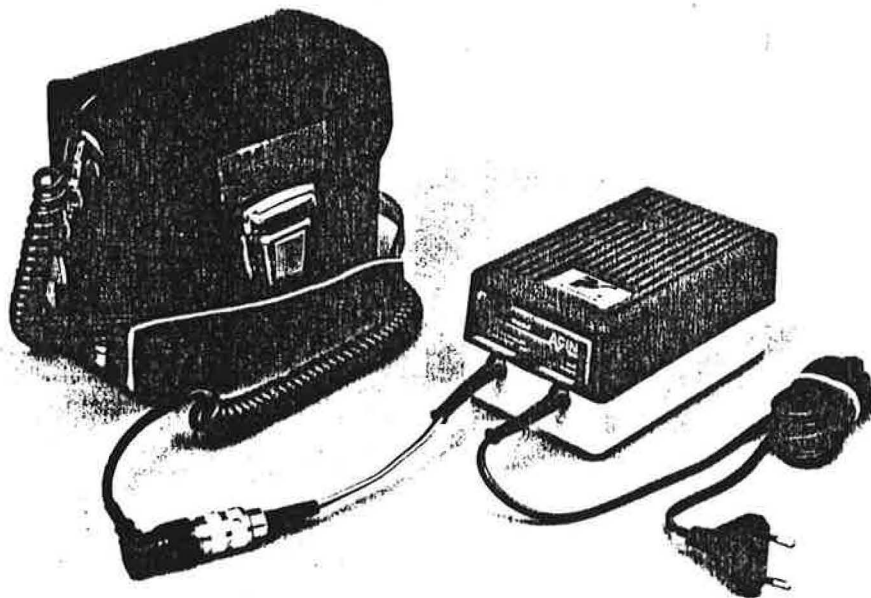
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carrying case
standard, black ABS
or heavy duty, alum.



battery set and recharger



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MEASURINGSYSTEM 153

components :	- zero-pressure meter for 0...135 cfm	
	- hood, conical shape	
	- battery set in leather carrying case	
	- battery charger	
	- manual	
		f. 4.400,--

ACCESSORIES

carrying case, standard (ABS)	47x39x42 cm	f. 420,--
carrying case, heavy duty (alum. with reinforced corners)	47x39x42 cm	f. 520,--
hood, straight		f. 300,--

SPARES

hood, conical shape		f. 400,--
battery set with 3 batteries in leather carrying case		f. 312,--
battery		f. 60,--
battery charger		f. 140,--

Prices are for delivery ex works, Den Haag,
and are subject to change without notice.