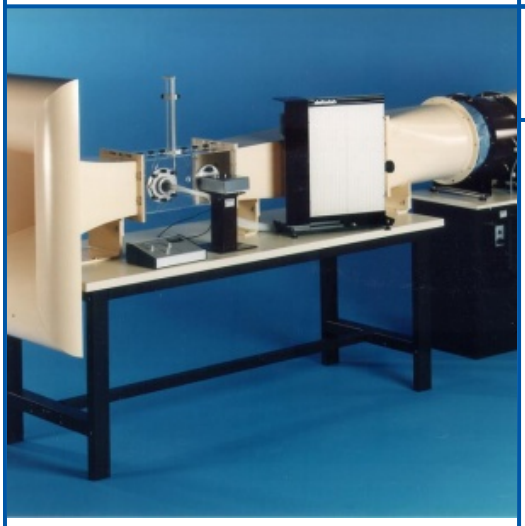
SUBSONIC SUCTION BLOWER

REFERENCE : EA600 - EA103



Non contractual photo

SERVICE : POWER SUPPLY : 380/440 V THREE-PHASE, 50 HZ (OTHER VOLTAGES ON REQUEST) POWER SUPPLY FOR ADDITIONAL EQUIPMENT : 220 V SINGLE PHASE, 50 HZ.
DIMENSIONS : EA600 : 3 850 X 1 150 X 1 750 MM / EA103 : 4 000 X 1 100 X 2 100 MM
WEIGHT : EA600 : 270 KG / EA103 : 350 KG

DELTALAB EA600 and EA103 subsonic wind tunnels are high level technical teaching tools for aerodynamic experiments. These blowers generate an air flow in a transparent test vein in which different accessories (wing profiles, pitot tube ...) can be integrated to check the laws of subsonic aerodynamics.

Technical specifications :

Subsonic wind tunnel allows several types of experiments, including :

- Flow velocity measurement and velocity profile tracing in different sections of the test vein.
- Pressure distribution measurement on the lower and upper surfaces of a wing profile.
- Study of the distribution of pressure around a cylinder.
- Measurement of lift, drag and moment of lift with a 3-component aerodynamic balance on different wing profiles according to the incidence.

The blower is mounted on a work plan allowing to have the various accessories necessary for the experiments. The wind tunnel includes :

- A contraction studied to obtain a uniform flow of air. A transparent vein for the test section with walls prepared to receive the different probes
- A diffuser and a honeycomb structure for the axial fan and motor assembly is installed on a separate metal support to isolate the vibration test vein. This allows the control of the air flow rate
- A diffuser that allows air to exit the blower in the laboratory
- The wind tunnel is made of PVC
- A rigid worktop
- Technical Manual and Teaching Notes

OPTIONS :

Pitot tube penetration device (ref EA605)

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