

SUBSONIC BELLOWS RETURN



Non contractual photo

**SERVICE : POWER SUPPLY : 380/440 V
THREE-PHASE, 50 HZ (OTHER VOLTAGES
ON REQUEST). COLD WATER SUPPLY FOR
THE EA104 MODEL EQUIPPED WITH A
COOLING SYSTEM**

REFERENCE : EA104 - EA108

The two return subsonic wind tunnels illustrate the wide range that is available. These two wind tunnels are compact and fit into laboratories or test halls without facilities or civil works. From these models, or from a precise specification, DELTALAB can propose aerodynamic test means adapted to the needs of the user.

Technical specifications :

The test veins are generally made of altuglas to allow visualization of the flows and a direct overview of the positioning of the instrumentation. They are equipped to receive models and aerodynamic profiles, scales and optional probes.

Each wind tunnel is equipped with a plenum composed of a honeycomb and grids with different meshes. The convergents, very neat finish, are calculated to obtain an excellent distribution of speed in the vein of tests.

The aerodynamic circuit comprises a diffuser and round-square connections upstream and downstream of the axial fan which is decoupled from the circuit by flexible sleeves. The circuit is completed by elbows equipped with guide vanes to avoid delamination and to ensure a good distribution of the pressure during the change of direction of the flow. The fan is driven directly by a motor controlled by a frequency converter which allows to obtain a wide range of speeds in the test line. The EA104 blower is equipped with a cooling system requiring a cold water supply to maintain a constant temperature during prolonged use. The EA108 blower can also be used in an open vein configuration. Closed altuglas test vein replaced

by a profiled section, mounted at the entrance of the diffuser. The velocity of flow in the vein is decreased by about 5 m / s in this configuration. An optional cooling system is available to maintain a constant temperature during prolonged use. Given the height of the vein above the floor, a floor and worktop can be provided as an option to facilitate access to experiments and installation of equipment.