VEA 113

DIDATEC TECHNOLOGIE

Centrifugal fan test unit

DESCRIPTION

- **The centrifugal wind tunnel test unit is complete with instrumentation and includes a technical and instruction manual.**
- **The aspiring flue and fan can be disconnected and operated independently.**
- **The components of the unit can be disconnected from each other allowing for many different designs in specific investigations.**
- **Open circuit**

SUGGESTED APPLICATIONS

- Determination of fan characteristics: speed, aspiration and expulsion pressure.
- Measurement of the electric power required by the fan motor; determination of efficiency.
- Determination of the loss of pressure.
- Use of a column-multimanometer to get the pressure measurement.
- Measuring of flow with a Pitot tube.
- Verification of Bernoulli's equation.
- Confirmation of aerodynamic lines.

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Frame
Two parts, anodized aluminium structure on wheels.
Units are connected with flexible shaft.

Flue
It consists of a convergent, transparent tube and a diffuser.

Fan
Centrifugal type
Maximum flow volume : 9000 m^3/h
Static pressure : 85 mm CE
Rotation speed : from 0 to 2900 R.P.M
Engine : 4 kW
Adjustable exhaust valve

Instrumentation
A Pitot tube
A multitubes column manometer
Engine speed indicator
Engine power indicator

UTILITIES
Electricity : 400 Three-phase – 50/60 Hz

DIMENSIONS

Length	: 3150 mm
Width	: 900 mm
Height	: 1990 mm
Weight	: 300 kg