

Product Name :
Two-Stage Axial Fan

Product Code :
FUDE0050



Description :

Two-Stage Axial Fan

Technical Specification :

- two axial fans in series configuration or in individual operation
- three-hole probe for determining pressure and velocity profile

Axial fans are connected in series in plants to increase the pressure. In theory, connecting two fans in series doubles the pressure increase.

The trainer allows the investigation of a two-stage axial fan. A measuring device is used to determine the pressure and velocity distribution.

The trainer includes a measuring section with two identical axial fans. The carefully designed nozzle contour and a flow straightener at the air inlet ensure a uniform velocity distribution with little turbulence in the measuring section.

The rotors are equipped with individually adjustable blades to change the angle of attack. The fans are equipped with outlet guide vane systems. These guide mechanisms redirect the angular momentum of the outflow in the axial direction and allow an increase in pressure. A pipe bend may optionally be installed to rotate the flow at the outlet of the measuring section. One of the fans can be removed from the measuring section so that the remaining fan can be studied in individual operation.



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