In accordance to curricula of Indian engineering colleges

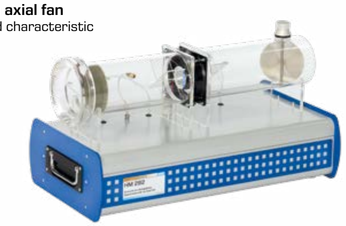
Fluid mechanics

Fluid machinery

Fans and compressors

HM 292
Experiments with a radial compressor
Two-stage compressor: recording of the compressor curve for both stages

HM 282
Experiments with an axial fan
Operating behaviour and characteristic variables of an axial fan

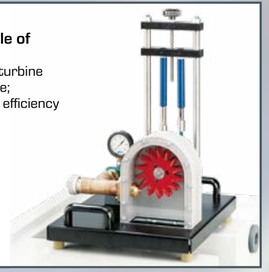


HM 280
Experiments with a radial fan
Operating behaviour and characteristic variables of a radial fan; two interchangeable rotors

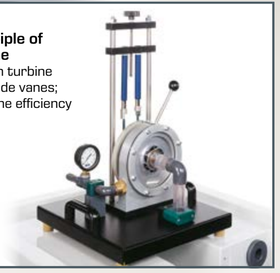
HM 210
Characteristic variables of a radial fan
Determination of flow rate via iris diaphragm or Venturi nozzle

Turbines

HM 150.19
Operating principle of a Pelton turbine
Model of an impulse turbine with adjustable nozzle; determination of the efficiency



HM 150.20
Operating principle of a Francis turbine
Model of a reaction turbine with adjustable guide vanes; determination of the efficiency

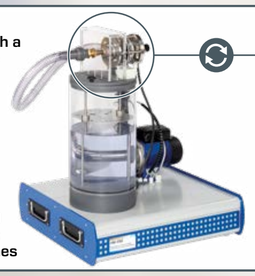


HM 421
Kaplan turbine trainer
Four-bladed Kaplan turbine with guide vane adjustment for varying power

HM 287
Experiments with an axial turbine
Record characteristics of an axial reaction turbine

HM 288
Experiments with a reaction turbine
Record characteristics of a turbine based on the reaction force

HM 290
Base unit for turbines



HM 289
Experiments with a Pelton turbine
Record characteristics of a free jet turbine

HM 291
Experiments with an action turbine
Record characteristics of an axial impulse turbine

HM 270
Impulse turbine
Investigation of a compressed air driven axial impulse turbine

HM 272
Reaction turbine
Investigation of a compressed air driven radial reaction turbine

Pumps

HM 150.04
Centrifugal pump
Determining the characteristics of a typical centrifugal pump

HM 150.16
Series and parallel configuration of pumps
Characteristic curves and hydraulic power; comparison of operating modesy

HM 284
Series and parallel configuration of pumps
Demonstration of series, parallel and the individual operation of centrifugal pumps

HM 285
Experiments with a piston pump
Record characteristics of a reciprocating positive displacement pump

HM 286
Experiments with a gear pump
Record characteristics of a rotary positive displacement pump

HM 380
Cavitation in pumps
Visualisation of cavitation effects in a transparent pump; how speed, inlet pressure, flow rate and temperature affect cavitation

CE 271
Multi-head diaphragm pump
Metering pump with three pump heads

CE 272
Rotary vane vacuum pump
Generation of negative pressure over time

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