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Product Name :	**Product Code :**
Fan Heater Air Heat Exchanger	LBNY-0005-12500023

Description :

The experiment module may be used both to heat rooms and to absorb ambient heat from the outside air. It can thus be operated as either a heat sink or a heat source for a heat pump. Experiment module consisting of a fan convector with piping, quick-release couplings and temperature sensors. This advantage makes it possible to operate room heating with lower temperatures in the heating circuit. In the case of heating rooms, compared to traditional heating radiators, fan heaters offer the possibility of achieving a comparatively good transfer of heat to the room air, even at small dimensions. When combined with a heat pump, the fan heater therefore often represents a beneficial application both economically and in terms of energy, especially when renovating heating systems in old buildings.
The disadvantage of the energy balance, particularly unfavourable in winter, in this case is contrasted with the advantage of lower initial investment costs. When absorbing ambient heat to supply heat to a heat pump, air heat exchangers are often used when there is no access or difficulty accessing other heat sources such as groundwater or geothermal heat collectors.

Technical Specification :

Learning objectives/experiments:
Operating conditions when used as an air heat exchanger in a heat pump system
Use of a fan convector for heating and cooling rooms
Comparison of an air heat exchanger with other heat sources in a heat pump system
How the temperature difference between the heating feed and return affects the overall efficiency of a heating system

Specification:

Quick-release couplings with shut-off valves for connecting the pipes
Fan convector for connection to the modular system
Temperature sensors for feed and return
Axial fan with two selectable speed settings
Control by means of other controllers in the system.