

# ET 499.30

## Cutaway model: ceiling air cooler



### Learning objectives/experiments

- principle of operation and layout of an expansion vessel
- principle of operation and layout of an evaporator
- principle of operation and layout of a filter/drier

### Specification

- [1] cutaway models of refrigeration components: thermostatic expansion valve, filter/drier, ceiling fan air cooler
- [2] mounted on base plate
- [3] functionality preserved

### Technical data

Thermostatic expansion valve

- with internal pressure compensation
- nozzle size: 3
- LxWxH: 79x32x65mm

Filter/drier

- L=132mm, Ø=58mm

Ceiling fan air cooler

- volumetric air flow rate: 260m<sup>3</sup>/h
- capacity: 0,33kW
- cooling surface area: 2,2m<sup>2</sup>
- LxWxH: 440x430x130mm
- Weight: 8,6kg

LxWxH: 750x500x190mm

Weight: approx. 20kg

### Description

- **cutaway models of industrial components used in refrigeration engineering**

A thermostatic expansion valve, a filter/drier and a ceiling fan air-cooler (evaporator) in the form of cutaway models are fitted to a base plate.

The components are cut such that important individual features and functions are visible.

### Scope of delivery

- 1 base plate with cutaway models
- 1 description
- 1 set of sectional views