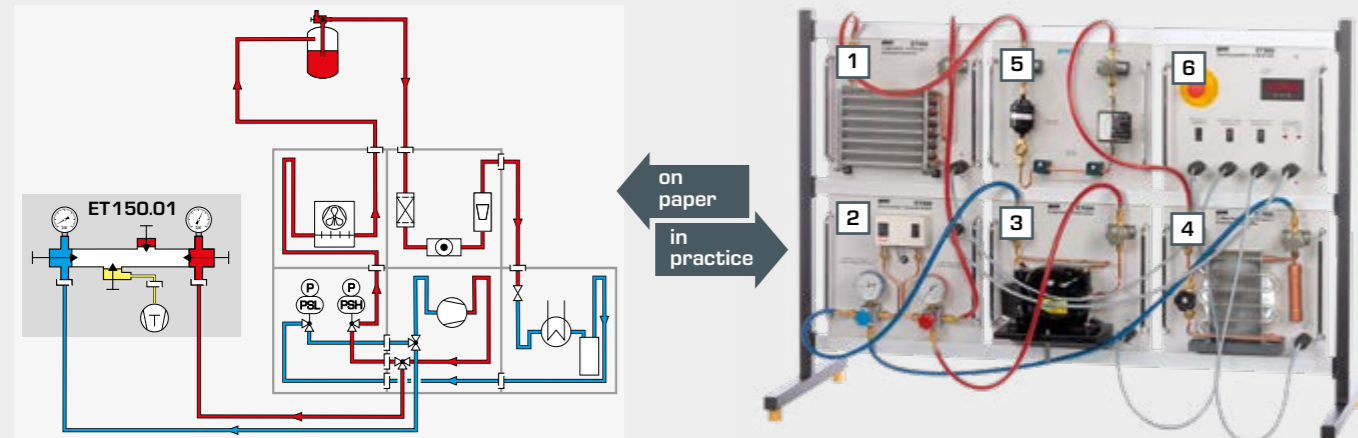


ET 900 Introduction to refrigeration

Set-up of simple refrigeration circuits

With the training system ET 900 it is possible to familiarise yourself with the handling and principle of function of refrigeration systems. The training system includes all necessary components for operation, such as compressor, evaporator,

condenser and expansion element. Additional components, such as pressure switches, flow meter, sight glass and filter/dryer complement the learning objectives.



Refrigeration circuit with air cooling evaporator

Process schematic: 1 condenser, 2 pressure switch, 3 compressor, 4 air cooling evaporator, 5 sight glass with filter/dryer and flow meter, 6 display and control panel



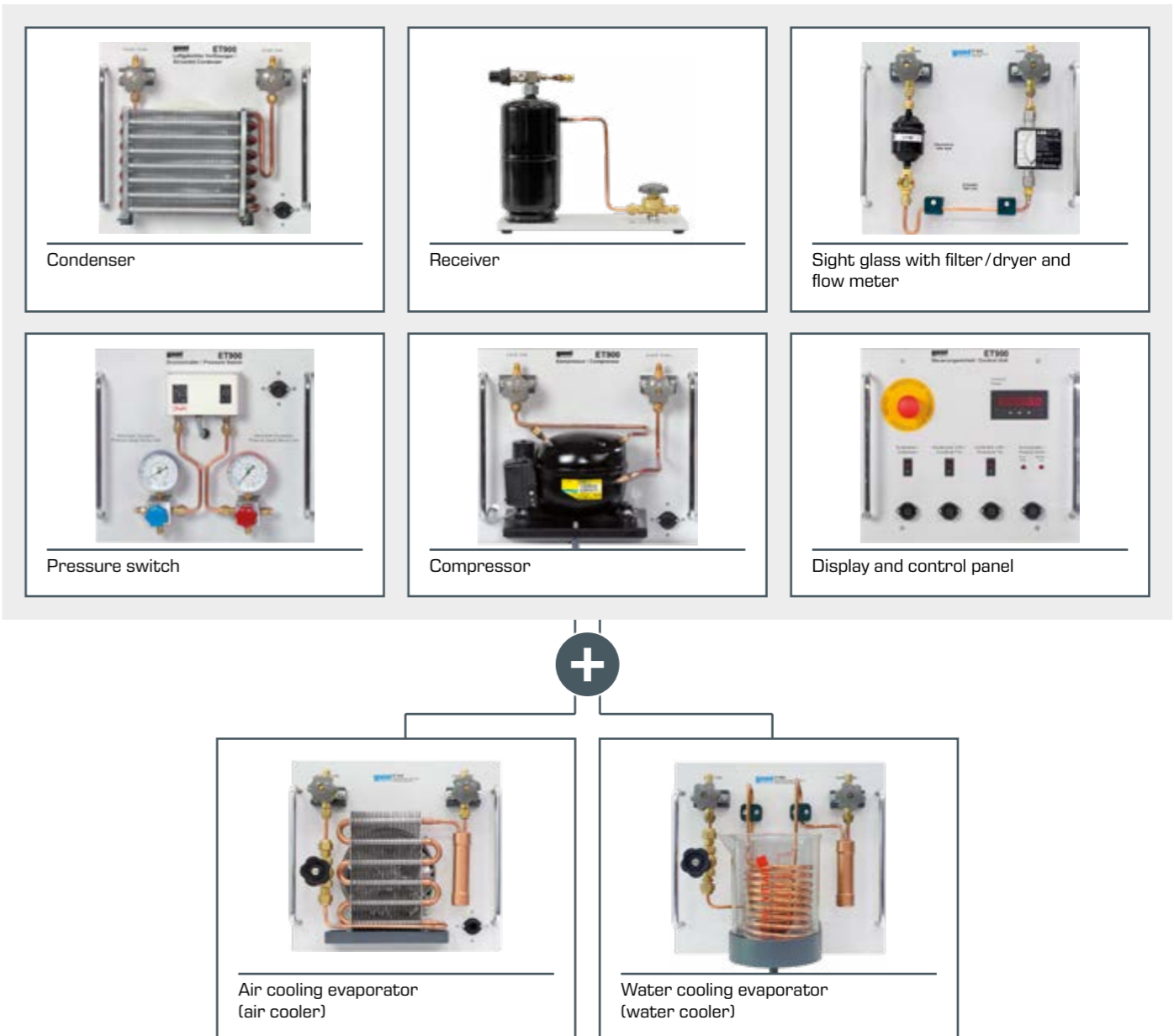
Refrigeration circuit with condenser and water cooling evaporator

1 condenser, 2 pressure switch, 3 compressor, 4 water cooling evaporator, 5 sight glass with filter/dryer and flow meter, 6 display and control panel

Interchangeable modules

The interchangeable modules form self-contained functional components. 6 modules are positioned in the frame at any one time and connected via hoses and supply cables. The receiver is integrated into the refrigeration circuit as a stand-alone

module. The evaporator is present twice: as air/refrigerant heat exchanger and as water/refrigerant heat exchanger. A set of hoses and cables is included in the scope of delivery.



Learning objectives

- stationary operation: air-cooled condenser with an air cooling evaporator
- cold water generator: air-cooled condenser with a water cooling evaporator
- draining and filling a refrigeration system
- refrigeration system and main components
- basic principle of a thermodynamic cycle process
- simple energy balances
- fault finding