

Demonstration bench of the refrigerating cycle



SPECIFICATIONS

Declaration of conformity EC.
ISO 9001 certification.
Design, manufacturing, testing, commissioning service in our workshops.
Aluminum profiled chassis on castors
Multidirectional with brakes.
Installation provided with the following elements:
- Technical and operating instructions of the system.
- Practical work guide.
All documentations are provided as paper and digital.

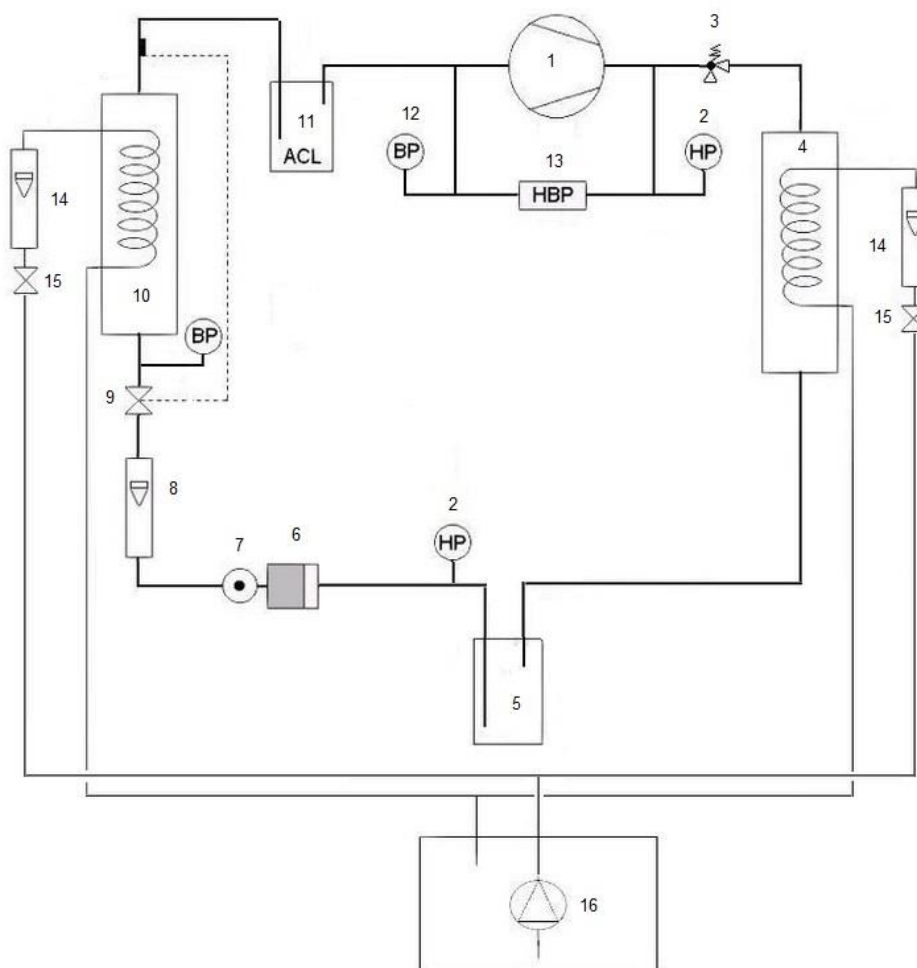
PEDAGOGICAL APPLICATIONS

- Study and basic concept of a refrigeration installation to the 134 a
- Study of the important phases of a refrigerating cycle
- Compression – condensation
Evaporation - expansion
- Refrigerating cycle analysis theoretical and real:
 - Determination of loss of loads, overheating, subcooling, power
 - refrigerating to the evaporator, power to the condenser
 - -Calculation of the thermal balances to the condenser and to the evaporator
- - Construction of the refrigerating cycle
- on a state diagram

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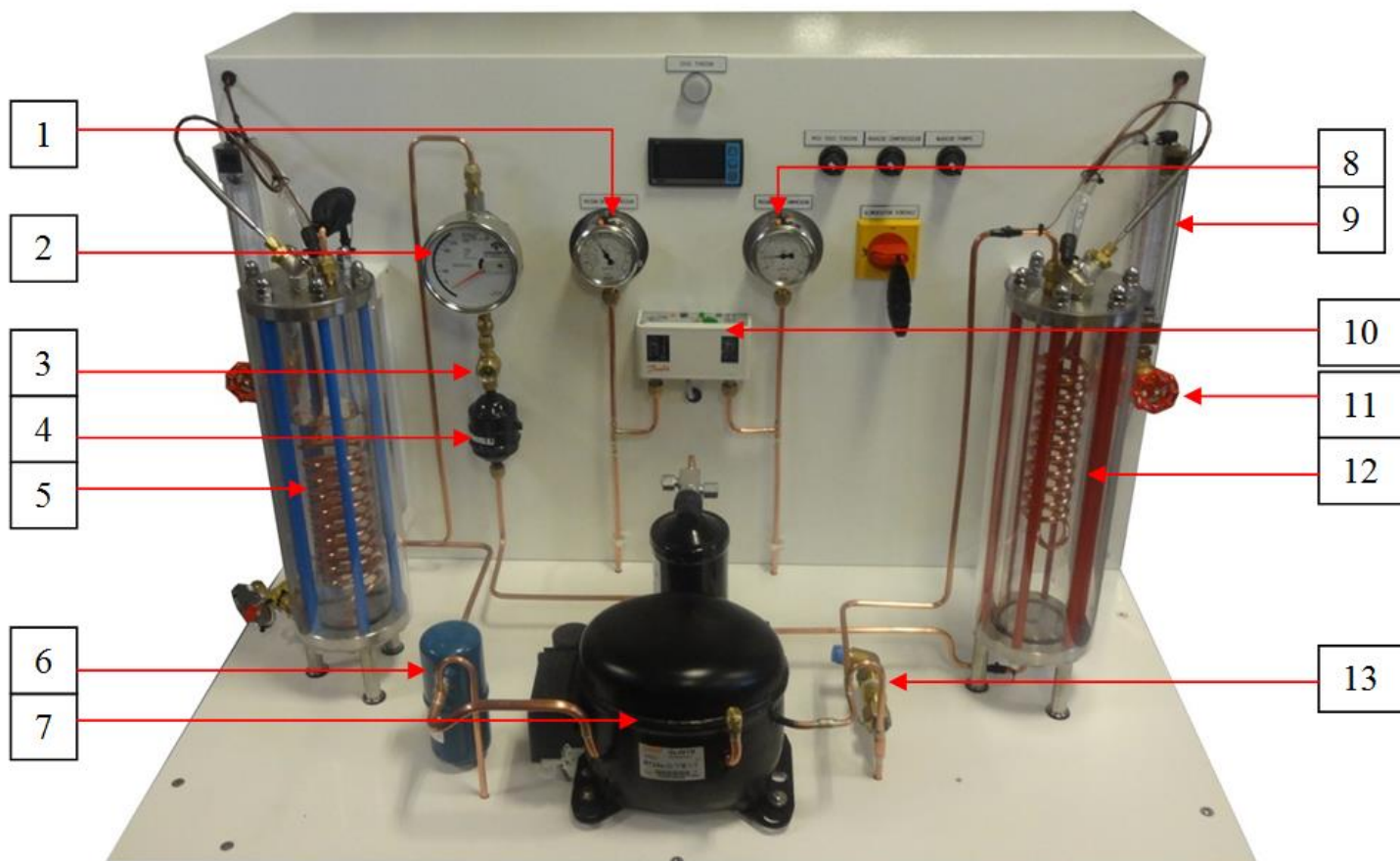


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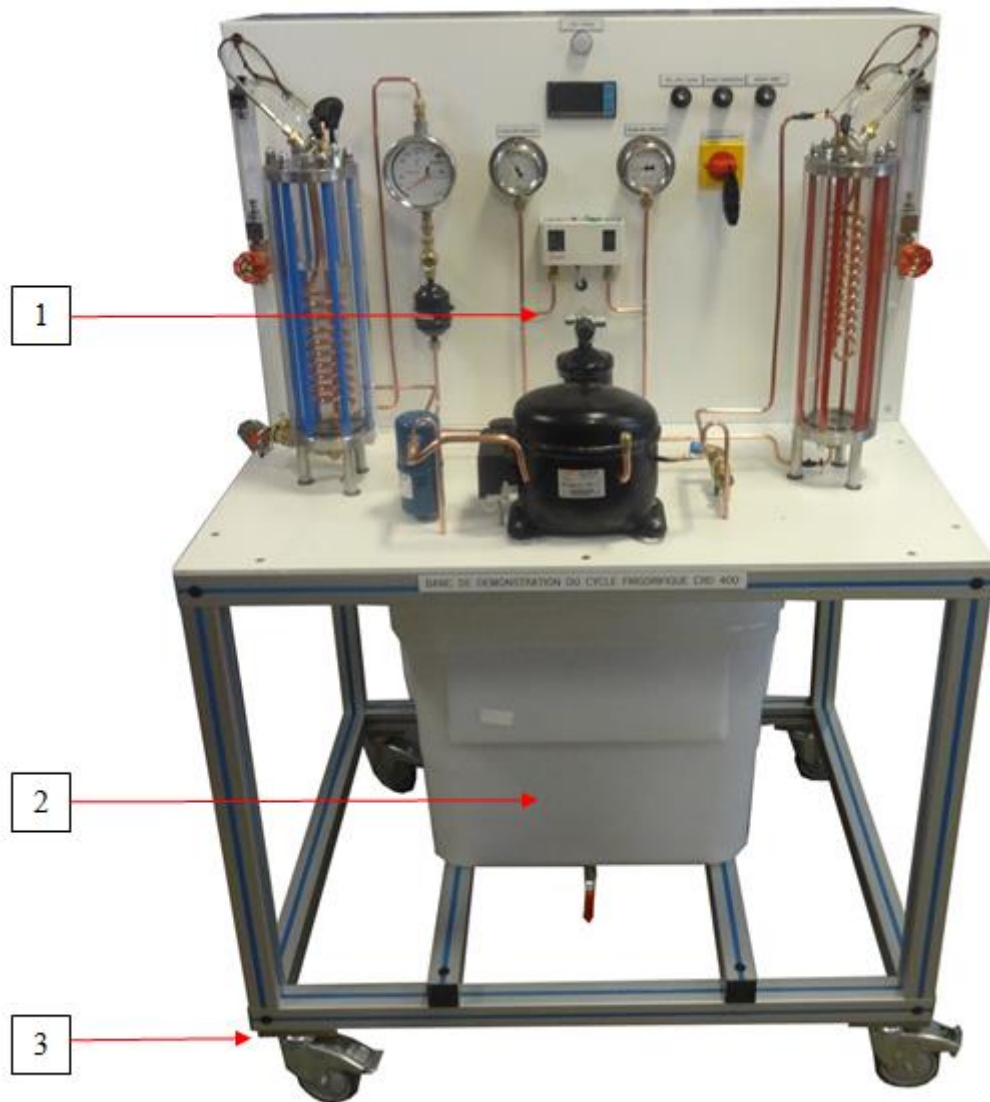
- 1 hermetic piston compressor
- 2 manometer Hp
- 3 safety valve
- 4 water condenser
- 5 liquid reservoir
- 6 dehydrator
- 7 moisture indicator liquid sight glass
- 8 refrigerant flowmeter
- 9 regulator with internal pressure equalization
- 10 evaporator
- 11 bottle anti blow of liquid
- 12 manometer BP
- 13 combined BPH Pressostatic
- 14 flowmeter
- 15, water flow rate control valve
- 16 submersible pump

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1. BP manometer
2. refrigerant flowmeter
3. sight glass
4. dehydrator
5. water evaporator
6. Anti blow bottle of liquid
7. hermetic compressor
8. HP manometer
9. condenser water flowmeter
10. combines safety pressostatic
11. gate-valve
12. water condenser
13. Safety valve

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1. demonstration bench of the refrigeration cycle
2. 50 liter tank with submersible pump and drain valve
3. Chassis on wheels

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Illustrations :



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Utilités :

Electricity: 230VAC - 50 Hz - 16 A
Water supply for filling
Wastewater discharge for drainage

Dimensions (LxWxH mm) : 1100 * 750 * 1700

Included with the installation



Temperature display and power consumption.

The following temperatures:

- **Exchangers water inlet**
- **Condenser water outlet**
- **Evaporator water outlet**
- **R134a condenser inlet**
- **R 134a condenser outlet**
- **R134a input regulator**
- **R 134a evaporator outlet**