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**Product Name :**  
Computerized Cascade Refrigeration Trainer

**Product Code :**  
SCHOOL-REF870007



**Description :**

Computerized Cascade Refrigeration Trainer

**Technical Specification :**

**FEATURES:**

Design and function of a refrigeration system with two-stage compression and injection intercooling

Effect of the inlet temperature at the HP compressor on the efficiency of the compression

Effect of the additional refrigerant intercooling

Distribution of the compressor pressure ratios

Represent and understand the refrigeration cycle process in the log p-h diagram

With intercooling

Without intercooling

**SPECIFICATION:**

Low-pressure compressor (LP) :

Displaced volume: 25,93cm<sup>3</sup>

Power consumption: 550W

Refrigeration capacity: 1744W at -10/32°C

High pressure compressor (HP) :

Displaced volume: 8,86cm<sup>3</sup>

Power consumption: approx. 275W

Refrigeration capacity: 583W at -10/32°C

Refrigerant :

Filling volume: 1,29kg

CO<sub>2</sub>-equivalent: 1,8t

Measuring ranges :

Flow rate: 2...29L/h, 4...40L/h

Pressure: 1x -1...15bar, 2x -1...24bar

Temperature: 8x -75...125°C

Power :

0...562W (heater)

0...750W (LP compressor)

0...2250W (HP compressor)

Required for operation :

230V, 50Hz, 1 phase

230V, 60Hz, 1 phase

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