

CRYSTALLIZATION UNIT

Mod. CRU1/EV

CR

INTRODUCTION

The unit allows to demonstrate the cooling crystallisation process to the students within a typical laboratory period. Interface and data logging software for Win are included.

TRAINING PROGRAM

- Understanding the principle of crystallization
- Mass and energy balance
- Fractional crystallization
- Efficiency and kinetics of crystallization
- Effect of stirring and cooling speeds
- Particle size distribution of crystals

TECHNICAL SPECIFICATIONS:

- Jacketed crystallisation vessel in borosilicate glass with temperature control and agitation
- Hot water recirculation system, 2.4 kW
- Electronic thermostat
- Set of test sieves with a range of mesh sizes
- Conductivity meter, range 0 - 200 mS/cm
- Flow meter for cooling water
- Interface and data logging software for Windows

Power supply: 230 Vac 50 Hz single-phase
(Other voltage and frequency on request)

Dimensions: 850 x 700 x 770 (h) mm

Weight: 50 kg



REQUIRED

UTILITIES (PROVIDED BY THE CUSTOMER)

- Tap water: 250 l/h @ 2 bar
- Water drain

ACCESSORIES (NOT INCLUDED)

- Personal Computer running Windows
- Buchner vacuum filtration apparatus
- Laboratory oven to dry the crystals sample
- Laboratory balance

SUPPLIED WITH

INSTRUCTION MANUAL

