

°LAUDA

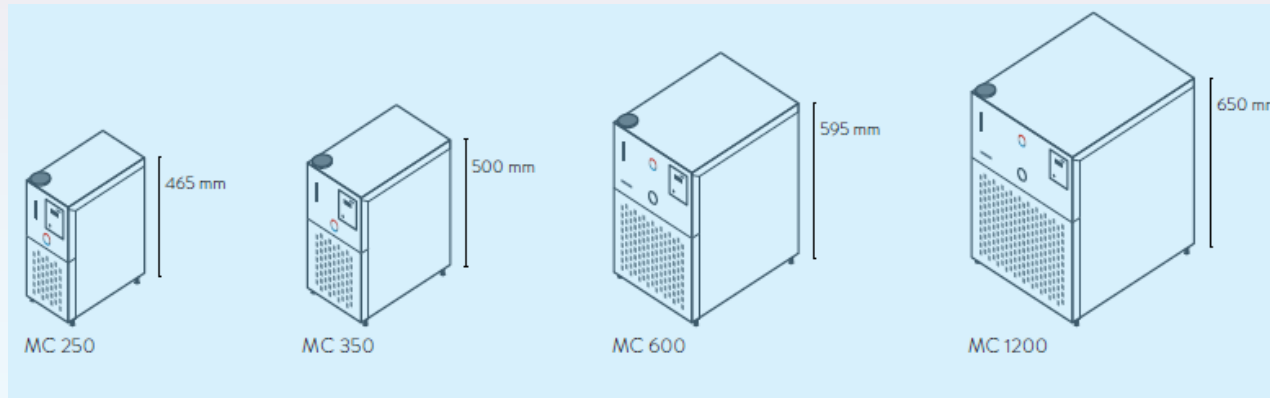


°FAHRENHEIT. °CELSIUS. °LAUDA.

# MICROCOOL

## Overview

- 4 units - 4 air cooled units in 4 different sizes
- Temperature range -10 to 40 °C
- Cooling capacity 250 W up to 1200 W



200x350x465 mm

240x400x500 mm

350x480x595 mm

450x550x650 mm

# MICROCOOL – TECHNICAL FEATURES & HANDLING



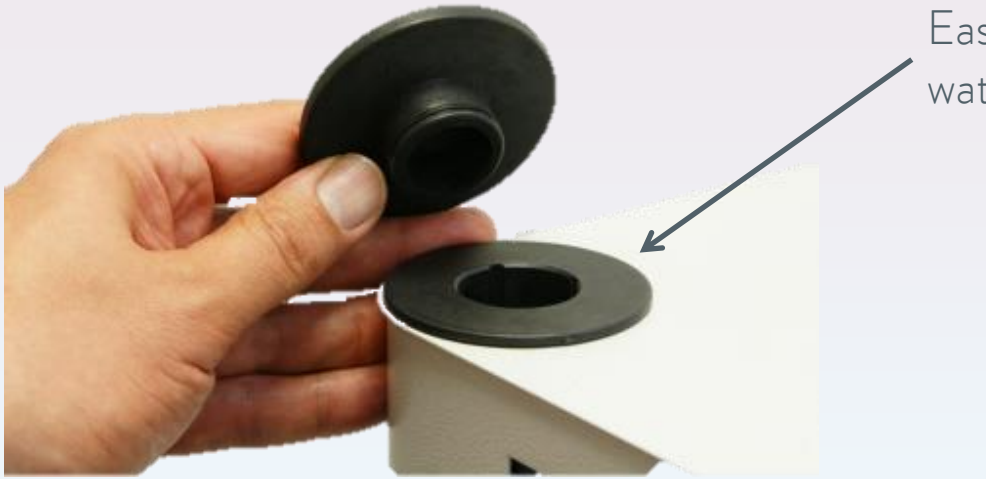
Control panel with LED display

- LEDs for function display: glycol warning, refrigeration active, warning
- Three button operation: UP, DOWN, ENTER

Timer for auto start and auto shut down

Illuminated level indication

# MICROCOOL – TECHNICAL FEATURES & HANDLING

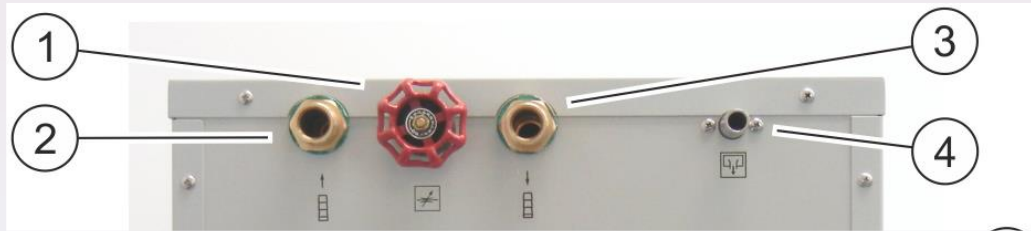


Easy fill up on top (only water or water/glycol)

Magnetic coupled pump



# MICROCOOL – TECHNICAL FEATURES & HANDLING



- 1 Adjustable bypass MC 600, MC 1200
- 2 Pump connection, inlet
- 3 Pump connection, outlet
- 4 Overflow connection



Pressure gauge at types with bypass  
(MC 600, MC 1200)

# MICROCOOL – TECHNICAL FEATURES & HANDLING



# MICROCOOL – TECHNICAL FEATURES & HANDLING



Opening for cleaning  
condenser without tools



Wheels MC 600, MC 1200

# MICROCOOL – ACCESSORIES

- Hoses  
polymer hoses, insulated hoses, insulation with different diameters



- Hose clamps



- Adapters



- Heat transfer liquids  
Aqua 90: 5...90 °C (decalcified water with stabilizer)  
Kryo 30: -30...90 °C (glycol/water mixture)



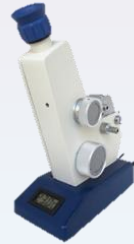


# MICROCOOL - APPLICATIONS

- Rotary evaporators, Soxhlet apparatuses



- Analytical devices (refractometers, spectrometers,...)



- LAUDA devices with cooling coils for temperatures below ambient: shaking incubators (Varioshake), shaking water baths (Hydro), heating thermostats (Alpha, ECO, PRO)



# APPLICATION: TAP WATER COOLING

In laboratories tap water is typically used to remove energy from different applications, i.e. analyzers, evaporators, condensers, distillation units etc.



# TAP WATER COOLING VS. LAUDA CHILLER

## TAP WATER COOLING

- **Advantages:**
  - Easy to handle
  - Only tap and tubing necessary
  - Nearly everywhere available
- **Disadvantages:**
  - Big temperature variations in tap water (depending on the ambient condition and the season)
  - High water consumption
  - "Dirty" cooling water causes algae growth, electrochemical corrosion etc.

## LAUDA Chiller

- **Advantages:**
  - Easy to handle
  - Reliable and economical solution
  - Reproducible, constant temperature throughout the year
  - Independent of ambient temperature and season
  - Reduction of operational costs
  - Ensuring process control
  - Responsible utilization of resources