



CB100



CF302LA
CF312LA



CF802



CA301



CA801

Water Circulator (Chiller)

Cold Trap

Water Circulator (Chiller)

Purpose

Supplies a source of temperature controlled fluid, typically water, which removes heat from a process

Benefits

Keeps water in the condenser at a stable low temperature thereby creating ideal conditions for collecting the maximum amount of solvent

Cold Trap

Purpose

Efficiently collects moisture and harmful vapors by trapping them in the container and keeping them from reaching the vacuum pump

Benefits

Protects vacuum pumps

For oil-sealed pumps, collection of vapors is critical to prevent them from getting into the vacuum pump where they would condense and contaminate the pump's oil which will eventually cause loss of efficiency or irreparably damage pump

Protects the environment

For dry pumps, collection of vapors makes the evaporation system a closed system, preventing vapors from passing through the vacuum pump and into the environment

Increases evaporation rate

Vapors are collected as a frozen solid and are therefore not condensed inside the vacuum tubing, which would slow evaporation

Combination Example

In combination with a rotary evaporator



CF302LA + RE Rotary Evaporator + RT200 + Vacuum Pump

In combination with a vacuum oven



DP63C Vacuum Oven + CA801 + Vacuum Pump

Specifications

| Type | Series | Temperature range | Dehumidifying capacity | Capacity (L) | Features | Application | Recommended in combination with |
|----------------------------|--------------------|---------------------------------------------|--------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| Water Circulator (Chiller) | CB100 | -10°C to 80°C | N/A | 3.4L | <ul style="list-style-type: none"> ● Closed circulation system ● Environment friendly coolant used for refrigeration ● Less energy use and less cooling capacity loss by fixing the heat resistant lead ● Can connect four (4) Rotary Evaporators when using CF802 | <ul style="list-style-type: none"> ● Used for many cooling applications | Viscometer Spectrofluorometer |
| | CF302LA CF312LA | -20°C to 30°C <i>no heating function</i> | N/A | 3.9L | | | |
| | CF802 | | N/A | 15.5L | | | |
| Cold Trap | CA301 | <i>Max lowest temperature</i> -45°C | Max 0.9 kg (water type liquid) | 4L | <ul style="list-style-type: none"> ● A worry-free system which can be operated without adding dry ice or liquid nitrogen ● Uses environment friendly and CFC-free refrigerant ● Standard equipped with stainless steel condenser / option for glass trap for corrosives ● CA801 designed with defrosting mechanism (hot gas bypass) ● Space saving and highly mobile on wheels, equipped with stoppers in the front caster wheels | <ul style="list-style-type: none"> ● Large amount of outgassing or contaminants that may be present ● Large amount of liquid that must be removed from the vacuum environment (e.g. freeze drying) | Vacuum oven Freeze dryer |
| | CA801 | <i>Max lowest temperature</i> -85°C | Max 1.0 kg (water type liquid) | 4L | | | |