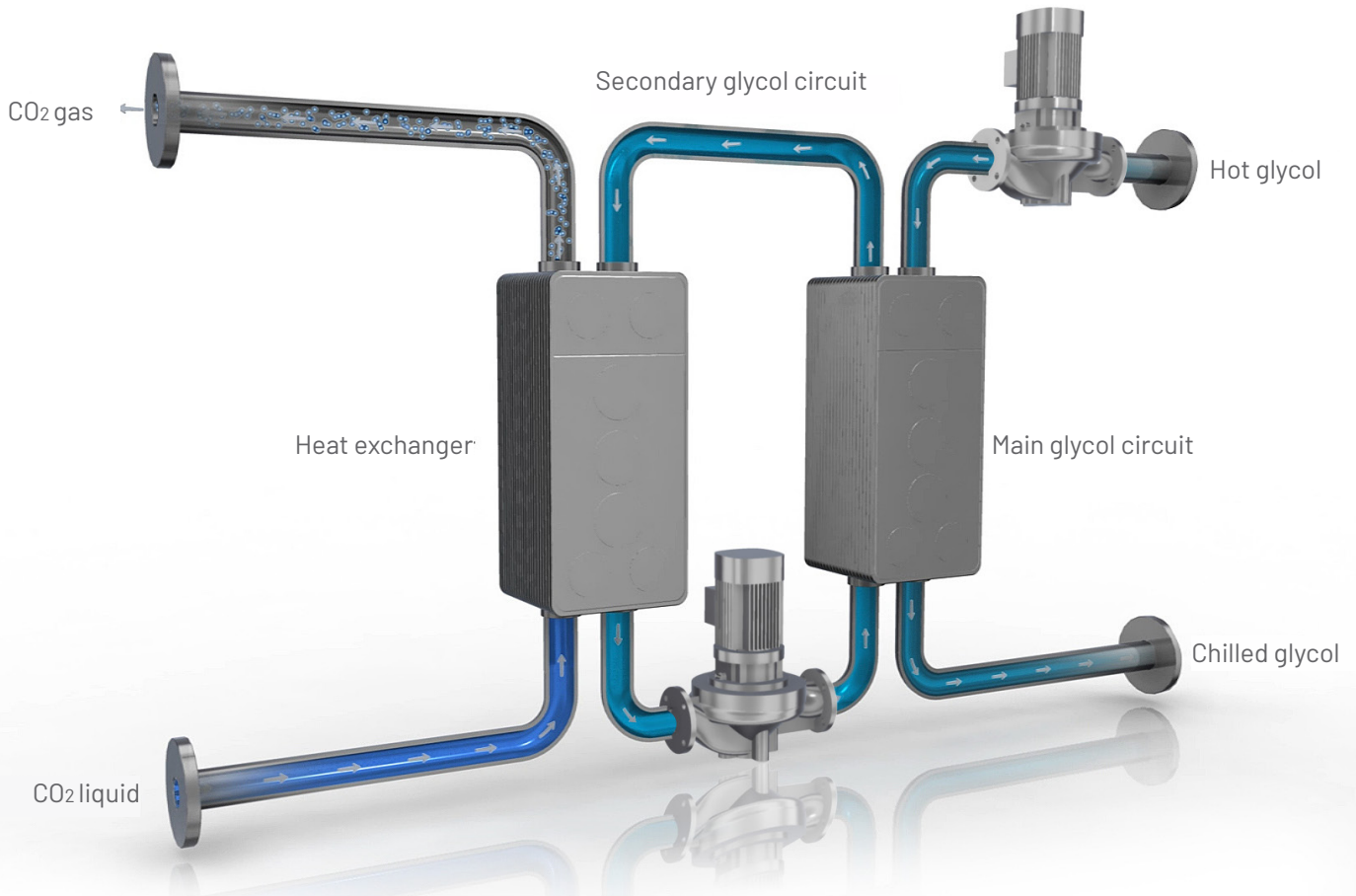


ReVap



SAVE 26%* OF A BREWERY'S TOTAL ANNUAL CO₂ PRODUCTION COSTS - WITH AN ROI BELOW 12 MONTH

ReVap is a technology designed to minimise both CO₂ evaporation and glycol refrigeration expenses in the process.

Evaporating CO₂ for consumption has always been an unavoidable expense in breweries (and many other CO₂ consuming industries), and the same applies to refrigerating glycol. However, by combining these two discrete processes, ReVap reduces the energy costs associated with both.

The innovative heat exchange system, ReVap, uses the cooling capacity of stored liquid CO₂ to chill glycol. The transfer of heat between glycol and liquid CO₂ subsequently raises the temperature of CO₂ to its evaporation point. The CO₂ is now available for the consumer as gas.

Since the simple concept relies solely on the efficient reuse of existing resources, the ReVap solution offers a saving equivalent to about 26%* of a brewery's total annual CO₂ production costs. A unit typically pays for itself within 12 months.

As a self-contained system, ReVap is installed quickly (within 48 hours) without the need to halt production and its straightforward design makes it virtually maintenance free.

If you are looking to reduce energy bills and increase your positive impact on the environment, ReVap can help.

REVAP BENEFITS

- Plug & Play - 100 % stand-alone unit, connect piping and wires and run unit
- Reduces CO₂ production costs by an average of more than 26% in breweries*
- Free-up refrigeration capacity
- ROI below approx. 12 months
- Can be installed without halting production (i.e. no downtime)
- Virtually maintenance free
- Efficient reuse of existing resources
- Emphasizes the use of ecological and financially sustainable processes and procedures

* based on 35°C cooling water, -4°C glycol, COP = 3 main ref. plant, steam = 22 €/ton, power = 0.1 €/kWh

SCOPE OF SUPPLY

- Glycol Pump with motor to primary side
- Glycol pump with motor to secondary side (loop)
- 2 Plate heat exchangers for heat transfer
- Temperature and pressure indicators on both CO₂ and primary and secondary glycol side
- Safety valves on CO₂ and primary and secondary glycol side
- Automatic and manual valves
- Expansion vessel
- Control Panel/MCC panel
- Insulated interconnected piping
- Frame mounted

Technical specification:

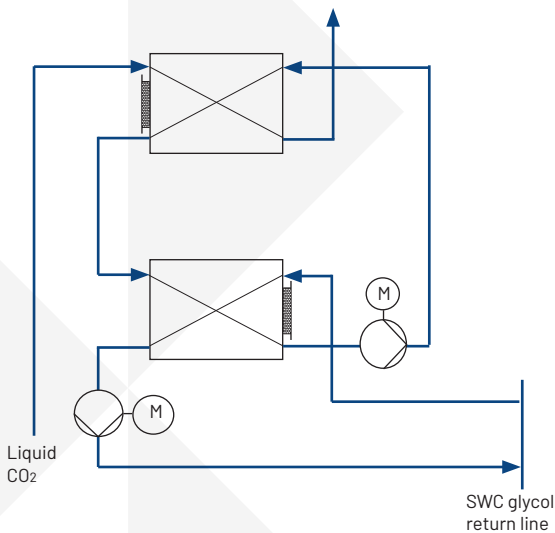
| | |
|--------------------------------------------|-----------------------|
| Glycol Temperature inlet | 5° |
| Glycol Temperature outlet | -5° |
| LCO ₂ Pressure inlet and outlet | 17 bar (g) |
| AC motor for pump Primary side | 1,1 kW |
| AC Motor for pump Secondary side (loop) | 0,75 kW |
| Main Supply | 3X380/440V+PE |
| Control Voltage | 230VAC/24VDC |
| Frequency | 50/60 Hz |
| Degree of Protection | IP 55 |
| Connection | Weld ends with flange |

Weight and dimensions:

| | |
|----------------------|-----------------------|
| Dimensions W x H x L | 1400 x 2000 x 2600 mm |
| Weight | App 600 kg |

| Type: | Size: | Order number: |
|------------|---------|----------------------------------------|
| Revap-285 | 285 kg | Please consult your local Sales office |
| Revap-500 | 500 kg | Please consult your local Sales office |
| Revap-1000 | 1000 kg | P0654RVU1000 |
| Revap-1500 | 1500 kg | Please consult your local Sales office |
| Revap-2000 | 2000 kg | P0654RVU2000 |
| Revap-3000 | 3000 kg | Please consult your local Sales office |

PRODUCT FLOW DIAGRAM (PFD)



DIMENSIONS

