

**FEATURES:**

Air cooled packaged glycol chiller designed for brewery cooling, including:

Integral 3.1 Bar pump (optional 4.5 Bar pump available)

Integral buffer tank

Refrigerant - R134a

Suitable for indoor or outdoor siting

Single phase power supply

**Specification Overview<sup>4</sup>**

|  |                                   |
|--|-----------------------------------|
| Model  | TAL37                             |
| Max Cooling Duty @ 10°C Fluid / 20°C Ambient | 2.9 kW <sup>1</sup>               |
| Cooling Duty @ -4°C Fluid / 20°C Ambient     | 1.4 kW <sup>1</sup>               |
| Refrigerant                                  | R134a                             |
| Refrigerant Charge                           | 1 kg                              |
| Fluid <sup>1</sup>                           | Water/Glycol 30%                  |
| Settable Fluid Temperature Range             | -10°C to +10°C                    |
| Fluid Flow Rate                              | 600 to 1,080 Litres/Hour          |
| Ambient Temperature Operating Range          | -5°C to +45°C                     |
| Internal Pump Nominal Pressure               | 4.4 Bar <sup>2</sup>              |
| Internal Tank Capacity                       | 50 Litres                         |
| Connection Sizes                             | <sup>3</sup> / <sub>4</sub> " BSP |
| Power  | 230V/1Ph/50Hz                     |
| Full Load Amps                               | 12.6 Amps                         |
| Dimensions (mm)                              | 1254 (H) x 740 (L) x 600 (W)      |
| Net Weight <sup>3</sup>                      | 153 Kg                            |
| Suitable for Indoor or Outdoor Siting        | Fully Weatherproof                |

<sup>1</sup> Correction Factors, Page 4

<sup>2</sup> Optional High Pressure Pump: 4.5 Bar

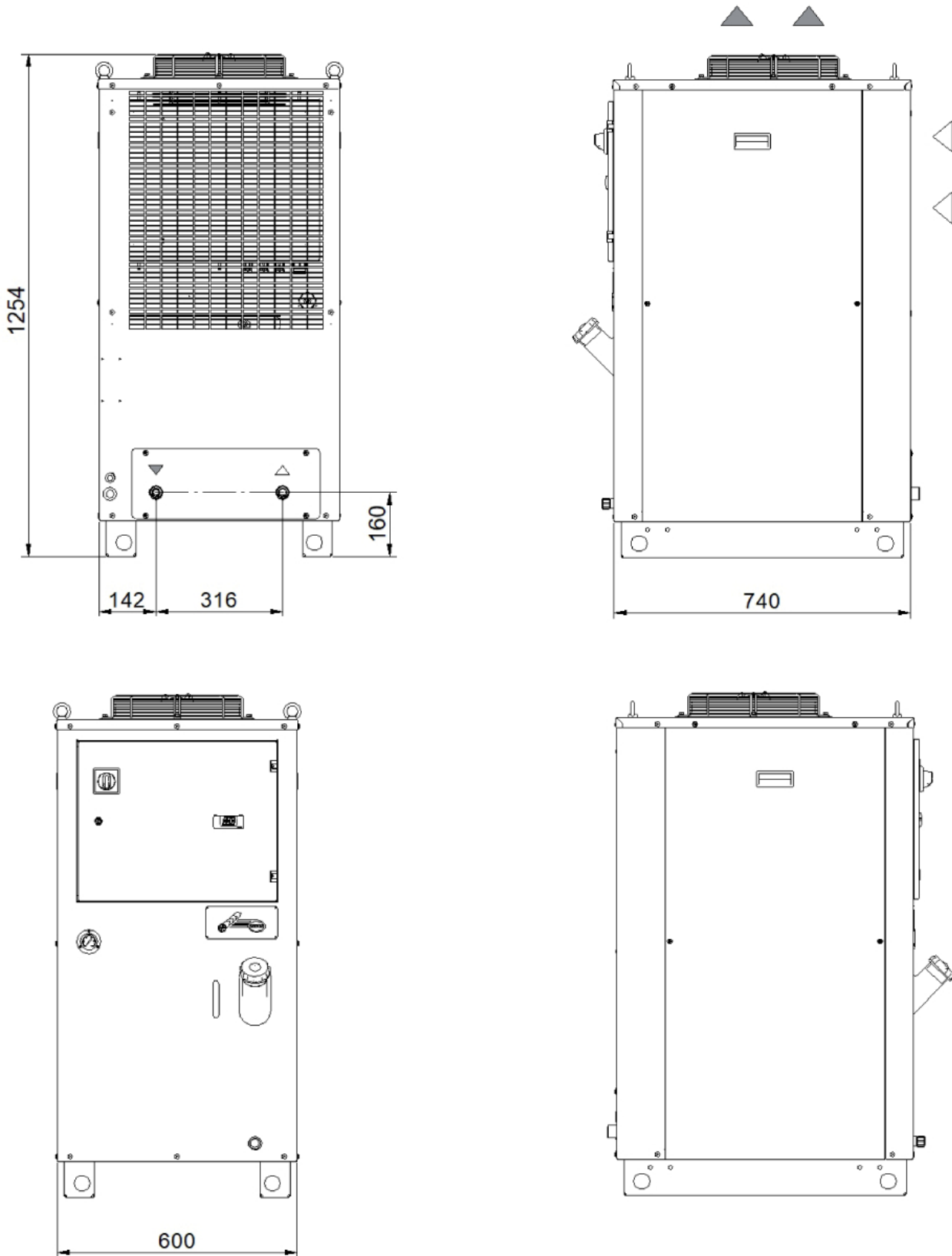
<sup>3</sup> Including Packaging and Refrigerant, Tank Empty

<sup>4</sup> Due to the continuous development of our products, all information is subject to change without notice  
Data Sheet V1.1

# 2.9 kW Brewery Glycol Chiller (2 BBL) TAL37



## Dimensions



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## **STRUCTURE**

In powder-coated steel sheet, RAL 7035 textured finish. Easily removed panels

## **COMPRESSOR**

Hermetic reciprocating compressor, cooled by the refrigerant, complete with thermal cut-out.

## **REFRIGERATION CIRCUIT**

Complete with charging port, drier filter, capillary, high-pressure safety pressure switch, R134a refrigerant.

## **EVAPORATOR**

Brazed stainless-steel plate model.

## **AIR CONDENSER**

Finned high-efficiency copper tube condensing coil, complete with safety grille.

## **AXIAL FAN**

Axial fan, complete with thermal cut-out and safety grille.

## **LIQUID CIRCUIT**

Non-ferrous liquid circuit composed of peripheral electric pump, plastic storage tank complete with visual level indicator, 0-10 bar pressure gauge, protective flow switch, regulation sensor.

## **ELECTRICAL PANEL**

With main disconnect switch, fused motor protection.

## **MANAGEMENT AND CONTROL**

The TX110 control unit manages the chiller's operation, providing warnings including high/low temperature alarms and a general serious fault alarm, with the display indicating if this refers to the refrigeration or liquid circuit. An on-off contact allows the machine to be switched on remotely (pump included). Control disconnect switch for switching on the machine.

## **PAINT/COATING**

Standard colour: RAL 7035 textured.

## **OPTIONAL ACCESSORIES**

- BA - Mechanical bypass valve protecting the pump
- RU - Castors
- TD - Differential fluid temperature management (two sensors)
- BGC - Hot gas bypass for +/- 1 K temperature precision
- BGP - Hot gas bypass for +/- 0.5 K temperature precision
- LS - Liquid circuit for laser application
- UL1 - UL certified electrical panel and components
- High pressure pump - 4.5 bar

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## Correction factors for calculating the cooling power

|  |           |        |          |      |      |      |            |           |          |           |            |      |      |
|--|-----------|--------|----------|------|------|------|------------|-----------|----------|-----------|------------|------|------|
| <b>Water Outlet Temperature</b>                | <b>Fw</b> | °C     |          |      |      |      | <b>-10</b> | <b>-5</b> | <b>0</b> | <b>+5</b> | <b>+10</b> |      |      |
|  |           | factor |          |      |      |      | 0.26       | 0.36      | 0.47     | 0.62      | 0.79       |      |      |
| <b>Ambient Temperature</b>                     | <b>Fa</b> | °C     |          |      |      |      | 15         | 20        | 25       | <b>30</b> | 35         | 40   | 45   |
|  |           | factor |          |      |      |      | 1.16       | 1.1       | 1.05     | <b>1</b>  | 0.97       | 0.91 | 0.84 |
| <b>Percentage Glycol by weight</b>             | <b>Fg</b> | %      | <b>0</b> | 10   | 15   | 20   | 25         | 30        | 35       | 40        |            |      |      |
|  |           | factor | <b>1</b> | 0.99 | 0.98 | 0.97 | 0.96       | 0.94      | 0.92     | 0.89      |            |      |      |
| <b>Cooling power (kW) = 3.6 x Fw x Fa x Fg</b> |           |        |          |      |      |      |            |           |          |           |            |      |      |