

INTRODUCTION OF POWER EQUIPMENT

配套动力设备简介

動力設備系統 Power equipment system

设备构成

本系统由水处理机组(客户选项)、电加热蒸汽发生器或蒸汽锅炉、制冷机组、空气压缩机等组成。

生产能力

满足每日生产50L、100L、200L、300L、500L、800L、1000L啤酒酿造所需要的酿造用水、蒸汽或电加热、冷媒、压缩空气等工艺条件,也可根据客户订单指定配套设备供货。

按圖說明

啤酒酿造水处理设备

- ◆啤酒酿造用水的水质与啤酒口味关系密切。酿造用水首先应符合饮用水标准,同时对水的硬度、PH值等主要指标应满足啤酒生产需要。
- ◆本设备为客户选项,由客户根据其酿造用水水质情况确定是否配备。

啤酒吧生产热源供给与设备

啤酒吧属于小型啤酒生产设备,一般采用电加热蒸汽发生器/电加热蒸汽锅炉供给热源,也可采用电加热方式直接对物料进行加热。

电加热蒸汽发生器/电加热蒸汽锅炉

电加热蒸汽发生器/电加热蒸汽锅炉由电加热系统和蒸汽发生系统组成,根据啤酒吧的生产能力可采用额定蒸发量30、50、100、200Kg/h,装机功率24、36、72、144Kw等设备。

啤酒制冷原理与要求

啤酒属于低温发酵产品,发酵温度在6~15°C之间,贮酒温度在-1~5°C之间,所以啤酒生产需要制冷设备提供冷媒以满足啤酒生产的工艺要求。

制冷设备的选择

啤酒吧属于小型啤酒生产设备,一般选择风冷或水冷工业冷水机组,可采用20~50Kw制冷量的制冷机组选配;制冷剂采用R22或R407C;冷媒采用冰水(冷却麦芽汁)和乙二醇(发酵罐与清酒罐降温及冷却保温),以满足啤酒吧生产工艺的需要。

无菌空气

啤酒生产需要一定压力的无菌空气为冷却后进入发酵前的麦汁充氧,要求以无油空气压缩机提供气源。需要配置小型无油空气压缩机,排气量在100~300L/min,装机功率在2.2~5.5Kw之间选型。

Structure of equipment

The system is composed by water treatment units (client's option), electric heating steam generator or steam boiler, cooling unit, and air compressor.

Structure of equipment

The system meets requirements on brewing water, steam or electric heating, refrigerant and compressed air required by beer brewing for 50L, 100L, 200L, 300L, 500L, 800L and 1000L every day.

Technical Specification

Beer brewing water treatment equipment

- ◆Water quality of beer brewing water is closely related to beer state. Firstly, brewing water shall meet the standard of drinking water and its main indexes such as hardness and PH value shall meet the requirements of beer production.
- ◆This equipment is optional for client and it can be equipped or not according to water quality of brewing water of the client.

Production heat source supply and equipment of beer bar

Beer bar is a kind of small production equipment of beer, its heat source is supplied by electric steam generator/electric heating steam boiler generally, and it also can heat the material directly by electric heating.

Electric heating steam generator/electric heating steam boiler

Electric heating steam generator/electric heating steam boiler is composed by electric heating system and steam generating system using the equipment with rated evaporation capacity of 30, 50, 100 and 200Kg/h and installed power of 24, 36, 72 and 144Kw.

Beer brewing refrigeration requirements and equipment

Beer is a kind of low temperature fermentation product whose fermentation temperature is 6~15°C and beer storage temperature is -1~5°C, so it needs refrigeration equipment to supply refrigerant for beer production to meet the requirements of beer production.

Selection of refrigeration equipment

Beer bar is a kind of small beer production equipment using air cooling or water cooling industrial water chilling unit, it can select the refrigerating unit with refrigerating capacity for 20~50Kw; Refrigerant is R22 or R407C; refrigerant is chilling water (for cooling of wort) and ethylene glycol (for cooling and heat preservation of fermentation tank and bright beer tank) to meet requirement of production process in beer bar.

Aseptic air

Beer production needs some sterile air with certain pressure to oxygenate for wort after cooling and before fermentation which requires the air oil-less compressor to supply air source. It needs to equip small air oil-less compressor with air displacement of 100~300L/min and installed power of 2.2~5.5Kw.

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动力设备系统 Power equipment system



蒸汽发生器
Steam generator



无油空压机
Air compressor



制冷机组
Chiller



CIP清洗车
CIP trolley



物料泵车
Products pump trolley



工艺水罐
Water tank