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 **DEMATECH**
beverage industry experts

**200Ltr 3-Vessel
Pub Brew System**

**Capability:
Up to 3 brews in 24hrs**



Overview of Brewhouse

200L 3-Vessel (Mash+ Lauter Tank/
Hot Water Tank/ Kettle/Whirlpool
Tank)

Electric Heating

Consumer Power: 26kw

Power requirement: +- 380V, 50Hz,
3 phase

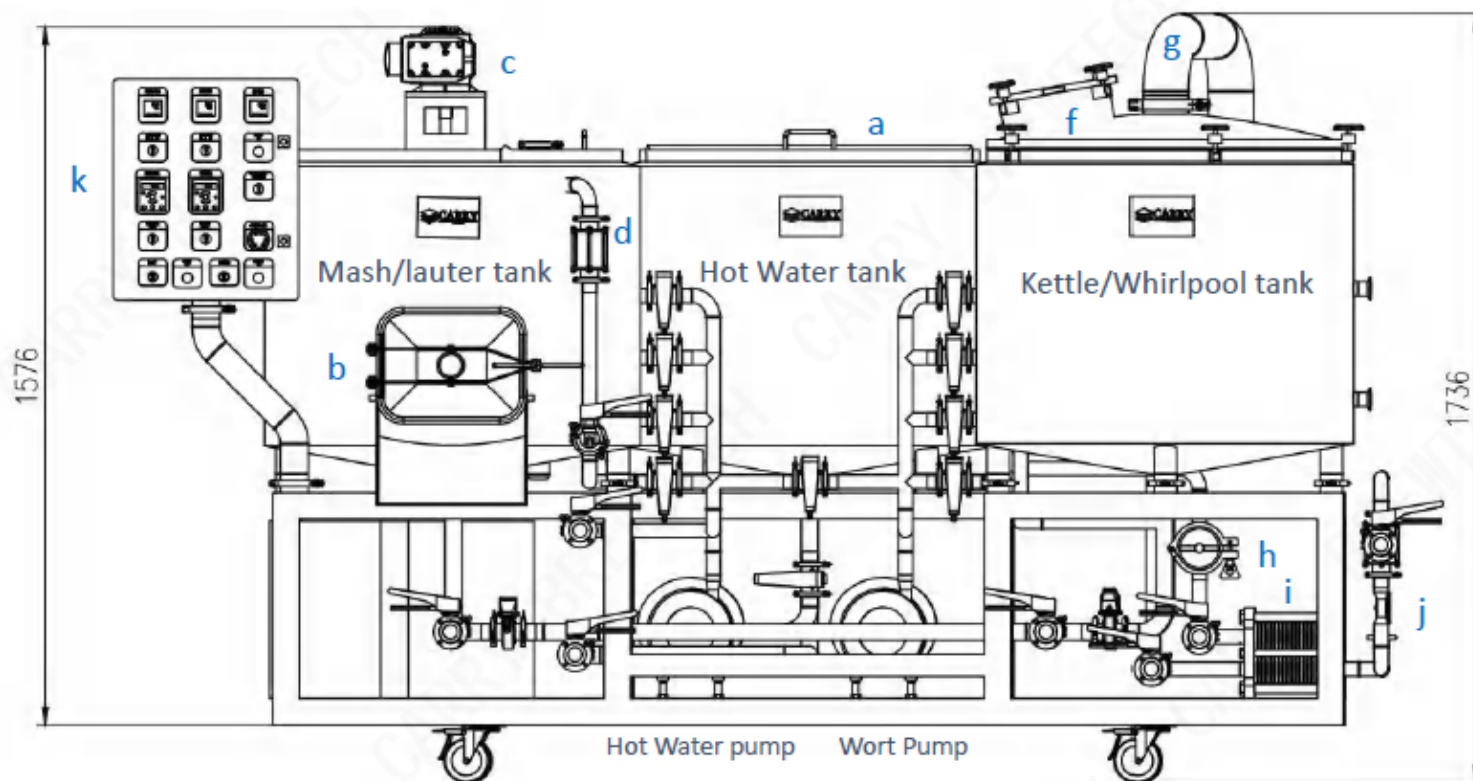
Control System: PID temp. control
system up to 12 tanks

Production Technology

- Inner tank 304 SS, thickness 3.0mm
- External cladding 304 SS, thickness 2.0mm
- Atmospheric manhole cover
- 100% High precision TIG welded joints



Mark	Name	Spec.	Connection
a	top lid	Manual	TIG Weld, quick open
b	Vinsse door	330*230mm	weld
c	Grain rake motor & reducer	VFD control	screw fastened
d	Sight glass & sample valve & back flow pipeline	1.5"	tri-clamp
e	Whirlpool inlet	1.5"	tri-clamp
f	Manhole for wort kettle	ø750	Flange clamp type
g	Indoor condensing pipe	ø102	tri-clamp
h	Hop filter	1.5"	tri-clamp
i	Plate heat exchanger	2m2, 1-stage	tri-clamp
j	Oxygenation fittings	1.5"	tri-clamp
k	PID control panel	Customized	pre-installed



Crushing Ability: 300kg/hr

Power: 1.1w

Double Rollers

Roller Material: Alloy

Frame Material: Stainless Steel

Roller Size: OD 155x200mm

Ratio of magnetic metal material:

≤0.003G/KG

Dimensions: 750x400x1150mm

300kg/hr Double Roller Malt Crusher





Fermentation Tanks

Tank Specifications:

Inner pressure tank 304 SS, thickness 3mm

External cladding 304 SS, thickness 2mm

Top flange manway

Oval head & 60° conical bottom,
thickness 3mm

Design pressure 3bar

Working pressure 1.5bar

360° spray ball equipped with CIP arm

Sampling Valve

Bottom Drain Port

Glycol cooling jacket with Tri-clamplet &
outlet

3 x 200L Fermentation Tank

Effective volume=200L

Total volume=260L

PU Insulation 50mm thickness

Dimensions: OD 750 x 1711mm(H)

2 x 500L Fermentation Tank

Effective volume=500L

Total volume=625L

PU Insulation: 80mm thickness

Dimensions: OD 1060 x 2094mm(H)



600L Glycol Water Tank

Effective volume =600L

Top mounted manhole

Temperature Probe&PT-100

Inner tank (SUS304), TH=3.0mm, pickling & passivating treated

External cladding (SUS 304), TH=2.0mm

PU Insulation layer=80mm

Level tube

Glycol water inlet &outlet connection ports

Bottom drain port



Cooling System 600L Glycol Water Tank, Pump & 3HP Chiller

&

PID Control System



Glycol Water Pump

Flow=3m³/h, Lift =24m, 0.55kw



Industrial Chiller

Cooling Capacity: 3HP

Heavy duty compressor suitable for Africa

Medium: Environmental protection
refrigerants R407c



PID Control System

Schneider electric components

Omron Brand Control Module

Temp. indicator of fermenter & Glycol WT
(Total max of 12 + 1 sets)



2 Tank 50L Mobile CIP Station

50L Hot Caustic Tank

Effective volume: 50L

Dimensions: OD 460x500mm

Double layers with 50mm PU insulation
304 SS cone top & bottom thickness 2mm

Valves and fittings included

Heating: 3KW electric heating tubes

50L Disinfection Tank

Effective volume: 50L

Dimensions: OD 460x500mm

304 SS cone top & bottom thickness 2mm

Valves and fittings included

Cleaning Pump

Flow 3m³/h, lift is 24m

Hose: Reinforced food grade

Stainless steel; power is 0.75KW

Dimension: 480*200*345mm

Complete circulation sanitary piping and fittings



PID Control Panel

304 SS Control Cabinet

Temperature showing of hot caustic tank
Switch control: cleaning pump, electric heating tubes

Sanitary transferring hoses

Overall dimensions: 1367x560x1081mm

Overview:

- 1x 300kg/hr Double Roller Malt Crusher
- 1x 200ltr 3-Vessel Brewhouse
- 3x 200ltr Fermentation Tank
- 2x 500ltr Fermentation Tank
- PID Control for 12 tanks
- 1x Cooling System 600L Glycol Water Tank with
- pump 1x Industrial Chiller
- Wiring for entire system

Turn-Key Pub Brew System
Capacity: 2000L/month
Expandable to 10 000L/month

Brew House Capability:
Up to 3 brews in 24hrs

Total Amount Ex-Works Dematech, Cape Town

Optional Additions:

- 500ltr Fermentation Tank
- 1000ltr Fermentation Tank
- Food Grade Hoses
- Lab Equipment Basic ie. Digital Thermometer, Hydrometer, PH Meter, Refractometer

Exclusions:

Installation & Commissioning
Training
Piping
Electrical connection