

DEMACRAFT

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2 VESSEL 350L BREWERY

- 2 Vessel 350L Demacraft brewery
- Mash tun, lauter tun
- Mash tun is also the kettle/whirlpool
- Up to 2 brews/day in 14h work day
- Electrical load: 30kW (44A/Phase, 3P +N)
- Client to connect to 50A wall mount isolator
- Requires 500mm clearance around machine for maintenance and operation



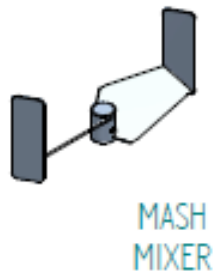
3 VESSEL 350L BREWERY

- 3 Vessel 350L Demacraft brewery
- Mash tun, lauter tun, kettle/whirlpool
- Up to 3 brews/day in 14h work day
- Electrical load: 38kW (57A/Phase, 3P +N)
- Client to connect to 75A wall mount isolator
- Requires 500mm clearance around machine for maintenance and operation



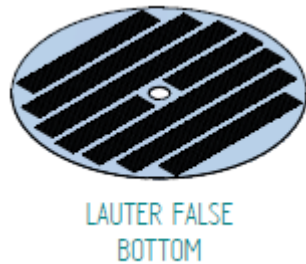
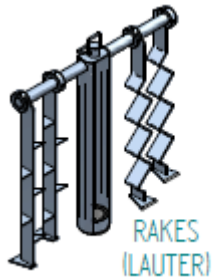
MASHTUN - DEMACRAFT

- Mask kettle ID: $\varnothing 850\text{mm}$
- Design pressure: 90kPa (118,8°C)
- Max operating pressure: 80kPa (117,1°C)
- Testing pressure: 225kPa
- Jacket Volume: 55,4l
- Hazard category: 1 (Figure 1 Dangerous gas)
- Electrical loading: 18kW (27A/Phase, 3P +N)



LAUTER TUN - DEMACRAFT

- Lauter tun ID: ø850mm
- Hazard category: 1 (Figure 1 Dangerous gas)
- Electrical loading: 0,75kW (2A/Phase, 3P +N)



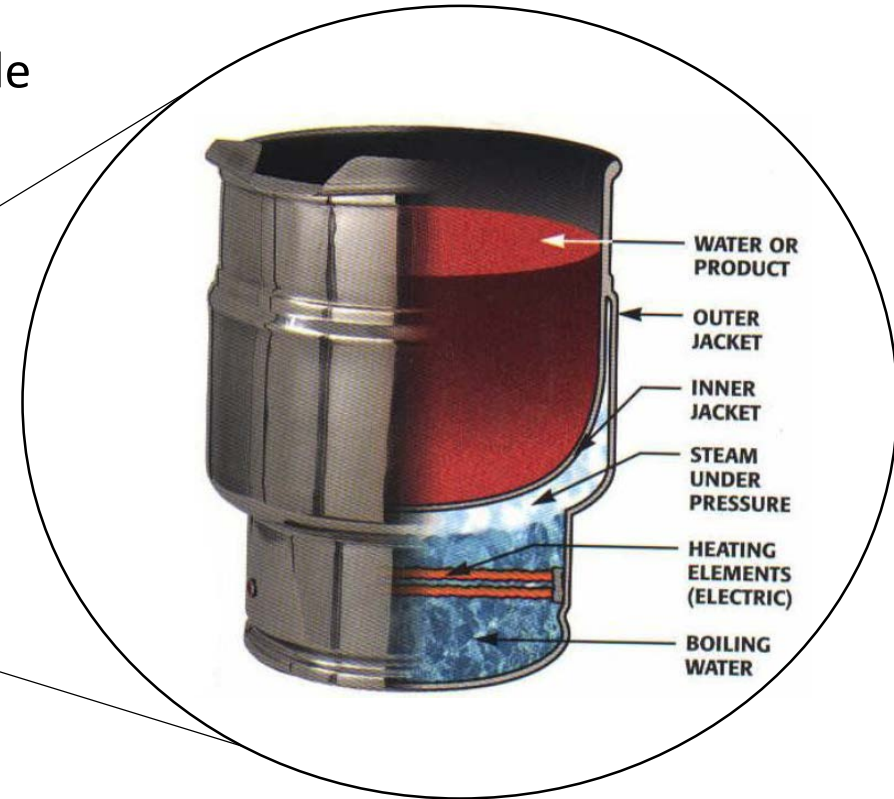
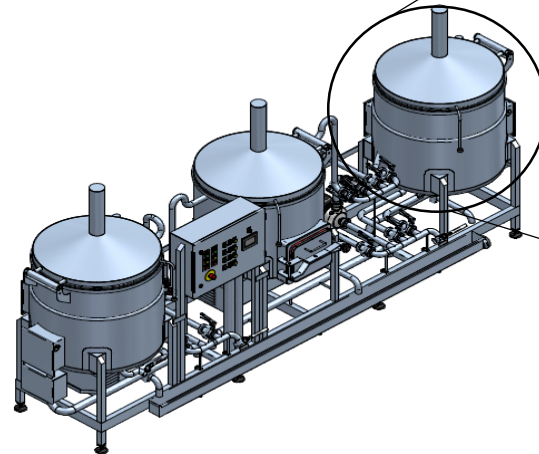
KETTLE/WHIRLPOOL - DEMACRAFT

- Kettle ID: $\varnothing 850\text{mm}$
- Design pressure: 90kPa (118,8°C)
- Max operating pressure: 80kPa (117,1°C)
- Testing pressure: 225kPa
- Jacket Volume: 55,4l
- Hazard category: 1 (Figure 1 Dangerous gas)
- Electrical loading: 18kW (27A/Phase, 3P +N)



ELECTRICAL HEATING OF BREWERY

- Partially water filled jacket with electrical heater inside
- Water boils at 100°C in atmospheric pressure
- Under 80kPa pressure, water boils at $\pm 117^{\circ}\text{C}$ resulting in much better heating



PLC & CONTROLS - SIEMENS

- Siemens PLC and Delta HMI
- Control all steps of brewery process
- Controls step mashing temperatures and times
- Store up to 10 beer recipes for quick access
- Maintains temperatures during brewing accurately to within 0,5°C of set point
- Easily upload and edit beer recipes



GRAIN MILL -MONSTER MILL

- MM-3 crushes grains twice with single pass
- First crusher flattens grains, second crusher breaks grains and loosens starch
- Compares with larger industrial millers
- Initial gap is 1,5mm second gap is adjustable
- Driven by standard drill(*not included)
- Spec
 - 3 x 15mm x ø38mm long roller mills
 - Fully adjustable mill
 - Dual eccentric adjusters
 - 3,6kg
 - Drill drive (CW or CCW)
 - Alloy frame
 - SAE 841 oi impregnated bronze bushings



FERMENTATION TANKS

- All fermenters are 15° conical top, 60° conical bottom, have a cooling jacket on the shell and bottom cone supported on 3 pipe legs
- Optional: 50mm insulation and fully welded SS cladding
- Internal and external finish: 2B cold rolled, welds ground flush and strip polished with 240 grit
- Optional external cladding finish: Machine polished to 240 grit
- Tank Fittings:
 - 1 x Oval manway shell
 - 1 x Outlet on the bottom dish (NW 32 butterfly valve optional)
 - 1 x 750mm wide dimple jacket on the shell
 - 1 x 300mm wide dimple jacket on the cone
 - 1 x Cooling line (NW 25 ball valve optional)
 - 1 x Temperature pocket and temperature gauge
 - 1 x 25mm removable spray ball and bunging line (NW 25 ball valve optional)
 - 1 x sample cock
 - All safety and bunging valves



Size(litre)	Diameter(mm)	Shell(mm)
350	750	1000
700	850	1250
1050	950	1500

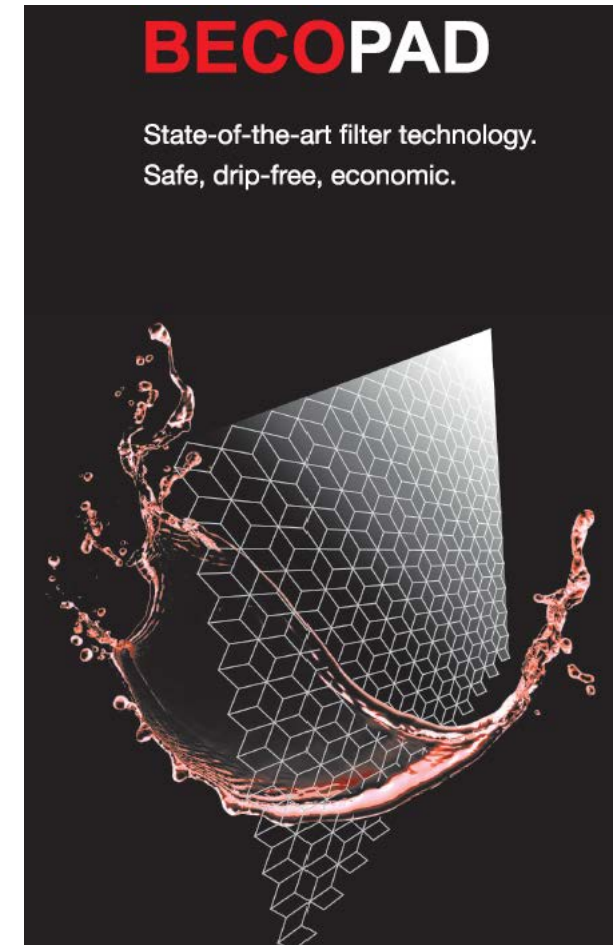
FILTER - EATON

- BECO COMPACT PLATE 200 SF-E
- Able to withstand pressure up to 5 bar
- Max temp: 90°C
- Pump outlet: 0,5 - 45l/min @ 0,37kW
- Inlet and outlet connections: 20mm tube connection
- Entirely AISI 304 glazed SS execution
 - Coated SS chassis, with fixed and movable head plates, transversal rod with fastening screw having Three spoke wheel, and longitudinal frame member bearing plates
 - STD fittings include:
 - Inlet, outlet butterfly valves
 - Air purging cylinder with inlet and outlet pressure gauges (scale 0-6 bar)
 - No3 draining and purging taps
 - End plates 20 x 20 No1 in Noryl
 - Filtering plates 20 x 20 No19 in Noryl



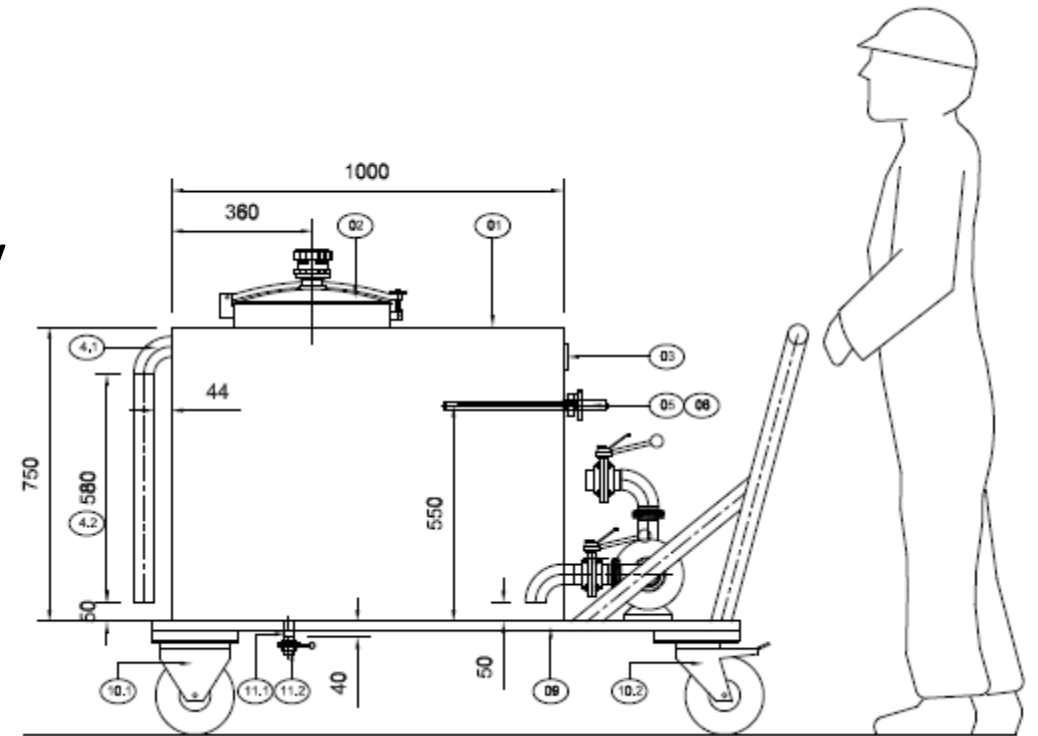
FILTERSHEETS - BECOPAD

- High efficiency and safe filtration
- Drip free resulting in no product loss and high standard of hygiene
- Environmentally friendly, saves 50% of water during neutral rinsing and backwashing
- Free from minerals
- Produced from pure cellulose, 100% biodegradable



PORTABLE CIP

- 200L CIP Skid mounted
- Consists of:
 - 1 x rectangular tank mounted on trolley coupled to a centrifugal pump with strainer and an ON/OFF switch for the pump
- Exclusions:
 - Site flexible piping



COLD WATER TANK 2500L

- 2500l JoJo tank used for cold water storage
- Optional: Insulation for improved temperature keeping
- All valves and fittings included for operation
- 1100 dia; 1300 high.



CHILLER - THERMOCHILL

- LH350 – Maximum cooling capacity 12,7kw @ 15°C water (40°C ambient)
- SS Cabinet
- Air-cooled condenser with ø350mm fan
- 30% over-sized condenser to cope with extreme ambient conditions
- Internal 130l SS insulated tank
- ¾" Copper pipe submerged evaporator
- 3kW Integrated electric heating element installed tank
- Water/glycol temp from -10°C to 40°C
- Panasonic scroll compressor
- Water circulating pump mounted internally – 2,6m³/h @ 300kPa
- Low-level water pump protection
- Electronic temp control and display
- HP/LP pressure switch
- Liquid refrigerant receiver tank
- Three phase protection



INSTANT WATER HEATER – STEIBEL ELTRON

- SHD 100 Instant storage water heater
- Rated power: 21kW (30,3 A – 400V)
- Tank capacity: 100l
- Heating up time of 100l tank:
 - 10°C - 65°C = 18min
 - 10°C - 85°C = 25min
- Instantaneous hot water production:
 - 6°C - 55°C = 6,1l/min
 - 10°C - 55°C = 6,7l/min
 - 14°C - 55°C = 7,3l/min



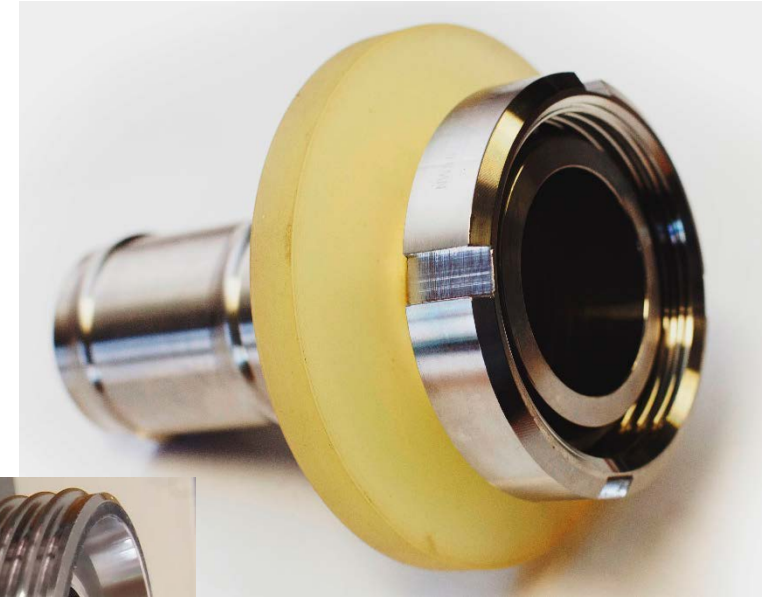
BOILER - TOPSTEAM

- TopSteam T300-2 electrical steam generator
- Maximum input power: 36kW
- Amps per phase (max): 54A
- Electrical supply: 400V (3P + N + E)
- Nominal Output 50kg/h @ 6bar
- Maximum working pressure: 700kPa –adjustable downwards
- Design pressure: 1000kPa
- Shell material: Boiler grade carbon steel
- Design code: PD5500:2015 Cat 2
- SANS347:2012: Hazardous Cat 3
- Dimensions:
 - T300-2: 1200H x 750W x 1000D
 - Feed tank: 1700H x 560W x 560D
 - Softener and brine tank: 1200H x 600W x 800D



HOSES – KLEIN S.A

- 5m Klemilk Hardwall NRB rubber hoses X2
- Tasteless and odourless
- Temperature range: -30°C to 90°C



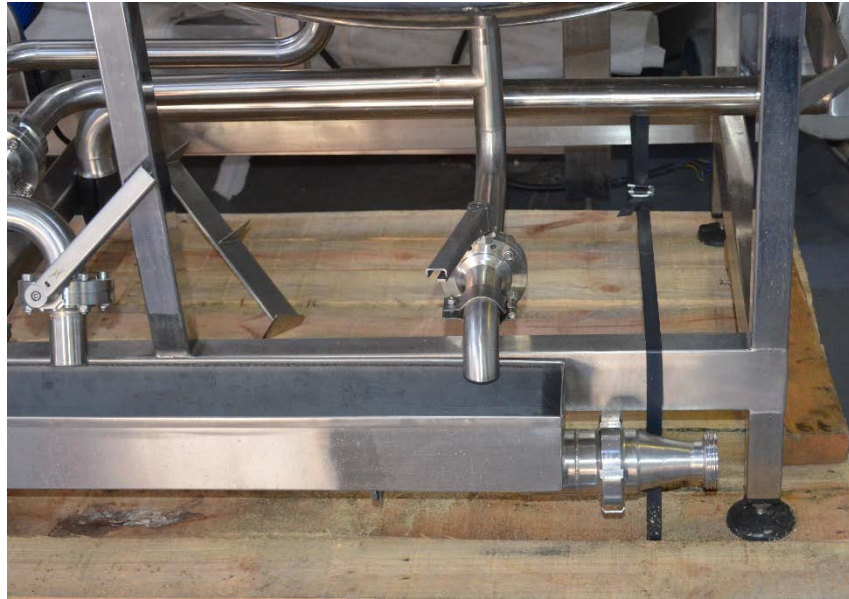
PHE - KREYER

- SuperCharger 500l/h: 90°C - 25°C - 10°C
- 2 stage PHE – Mains Water and Glycol water
- 1st run: 90°C - 25°C against mains water (15°C)
- 2nd run: 25°C – 10 °C against glycol water (-10°C)



DRAIN – OPTIONAL FOR BREWERY

- Optional drain to channel all waste from brewery to a specific point
- Beneficial in restaurant environment where clean/tidy brewing is required



RINSER, FILLER, CAPPER - DEMAFILL

- 200-600bph semi-automatic counter pressure filler
- Double pre-evacuation, pressurising, filling, snifting filling process
- 2, 4 and 6 head filler options
- Max diameter of bottle: 120mm
- Max height of bottle: 350mm
- 6 head utility consumption:
 - 0,37kw (220v 50/60hz)
 - 120l/m air consumption



LABELLER - ENOS

- 500-2500bph
- Front wrap around label
- Optional: Front, back and neck label capabilities
- Includes infeed conveyor and final table



KEG CLEANER – M&F MONOMAT

- MONOMAT keg cleaner
- Elevating platform with all electric and pneumatic parts required for operation
- Manual keg infeed and discharge
- Automatic cleaning through software and hardware
- Liquid detectors control the media flux and re-flux
- Frame, pipes, valves and all important mechanical elements constructed of SS



KEG CLEANER & FILLER – M&F MICROMAT

- MICROMAT M2/2 –b keg cleaner and filler
- Elevating platform with all electric and pneumatic parts required for operation
- Manual keg infeed and discharge
- Automatic cleaning and filling using System S7 software and hardware
- Initiators monitor the positions of several pneumatic sensors
- Liquid detectors control the media flux and re-flux
- Frame, pipes, valves and all important mechanical elements constructed of SS

