



Simple Brew

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Brewery Equipment Proposal

SB-300



«Simple Brew»

300L Brewhouse 3 vessels type

№	Component	Qty	Standard Specification	
1.1.	Mash tun/Lauter tank	1	<ul style="list-style-type: none"> ✓ Net capacity: 300L, Gross capacity: 375L ✓ Dimensions:φ960*2200mm ✓ Inner-layer(ST. STEEL 304), TH=2.5mm ✓ External-Layer(SUS 304), TH=2.0mm ✓ Top dish head (ST. STEEL 304), TH=2.5mm ✓ Insulation layer: PU-thickness: 80mm. ✓ Equipped with rake; ABB Motor, power 0.75KW; ✓ Danfoss VFD controlled on control panel ✓ Grain outdoor with grain chute mounted on side of lauter tank, size 430*330mm ✓ Easy clean and detachable sparging ring ✓ Laser cutting T-wires false bottom (filter), plate gap 0.8-1.0mm; ST. STEEL 304. ✓ Top full glass manway, φ 350mm ✓ Heating method: steam heating ✓ Filter method: Suction filtration by VFD controlled pump. ✓ 360°coverage CIP spraying ball ✓ Temperature measurement way: PT100 ✓ With lifting lug on top of tank ✓ 100% TIG welded joints; 	



✓ 3pcs completely ST. STEEL 304 legs with levelling pad

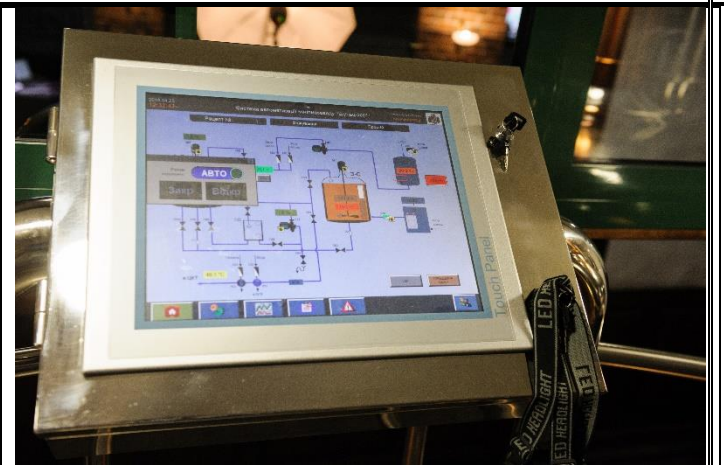

1.2. **Kettle tank**

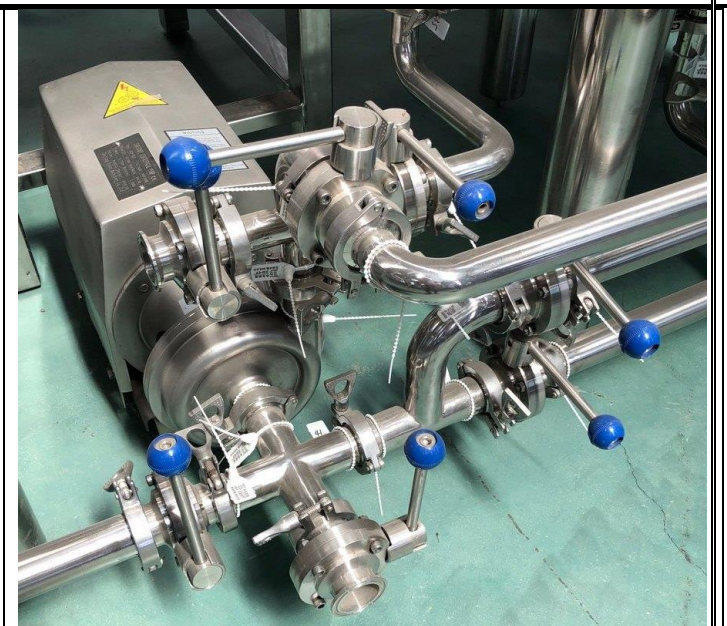
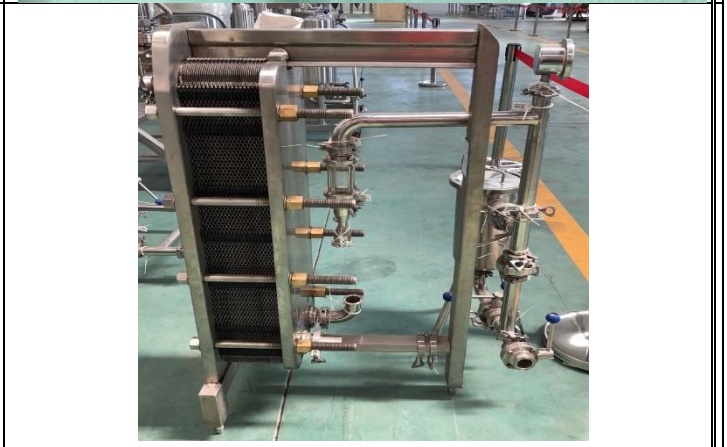
1




- ✓ Net capacity: 300L, Gross capacity: 425L
- ✓ Dimensions: $\phi 960 \times 2200$ mm
- ✓ Inner-Layer (ST. STEEL 304), TH=2.5mm
- ✓ External- Layer (ST. STEEL 304), TH=2.0mm
- ✓ Top dish head (ST. STEEL 304), TH=2.5mm.
- ✓ Insulation layer: PU-thickness: 80mm.
- ✓ Agitator, motor power is 0.55KW
- ✓ Top full glass manway, $\phi 350$ mm
- ✓ Heating method: steam heating
- ✓ Boiling intensity is about 8%
- ✓ Glass liquid level
- ✓ 360° coverage CIP spraying ball
- ✓ Temperature measurement way: PT100
- ✓ With indoor Steam condensing unit
- ✓ With lifting lug on top of tank
- ✓ 100% TIG welded joints;
- ✓ 3pcs completely ST. STEEL 304 legs with levelling pad



1.3.	<u>Whirlpool Tank</u>	1	<ul style="list-style-type: none"> ✓ Net capacity: 300L, Gross capacity: 375L ✓ Dimensions: $\phi 960 \times 2200$mm ✓ Inner-Layer (ST. STEEL 304), TH=:2.5mm ✓ External- Layer (ST. STEEL 304), TH=2.0mm ✓ Top dish head (ST. STEEL 304), TH=2.5mm. ✓ Insulation layer: PU-thickness: 80mm. ✓ Top full glass manway, ϕ 350mm ✓ Tangential whirlpool inlet ✓ 360° coverage CIP spraying ball ✓ Temperature measurement way: PT100 ✓ With lifting lug on top of tank ✓ 100% TIG welded joints; ✓ 3pcs completely ST. STEEL 304 legs with levelling pad 	
1.4.	Steam generator	1	<ul style="list-style-type: none"> ✓ P= 100 kg-steam/hour, P=70 kW, 380 V 	

1.5.	PLC controller	1	<p>15" touch screen control panel. Semiautomatic, To control the wort boiling process (by geared motors, pump for wort pumping), and refrigeration system (refrigeration unit and pumps of coolantcirculation).</p>	
1.6.	Hot water tank	1	<ul style="list-style-type: none"> ✓ Net capacity l=500l, ✓ Heating elements $P= 4,5 \text{ kW} * 2 = 9 \text{ kW}$ ✓ Thermal insulation – 80mm ✓ Hot water pump 	



1.7	Wort pump	1	<ul style="list-style-type: none"> ✓ Flow 3m³/h, lift 24m ✓ Sanitary ST. STEEL 304 ✓ Brand: Kedun ✓ Power:0.75KW ✓ Danfoss VFD controlled on control panel, open impeller ✓ Inlet \varnothing 38, outlet \varnothing 38, tri-clamp quick-installed ✓ Complete valves, fittings 	
1.8	Plate Heat exchanger	1	<ul style="list-style-type: none"> ✓ BR0.1/ 4 m² ✓ Heat exchanger plate: Alfa Laval style ✓ Design Structure: Suspension type, screw material is ST. STEEL 304, ✓ Nut material is brass, easy disassembled for cleaning. ✓ Stainless steel 304 material ✓ Design pressure: 1.0 Mpa; ✓ Working temperature: 170°. ✓ Wort inlet and outlet diameter is \varnothing38 ✓ Cold water inlet and outlet diameter is \varnothing38 ✓ Tri-clamp quick-installed, two stage 	

1.9	<p>Work platform</p> <p>Optional:</p> <ul style="list-style-type: none"> - Punching style - Crate style - Washing sink 	1	<ul style="list-style-type: none"> ✓ Checker plate; Non Slip design ✓ Material is ST. STEEL 304. ✓ Match the brewhouse structure ✓ Integrated stairs or ladder 	
1.10	<p>Hop back</p>	1	<ul style="list-style-type: none"> ✓ Material: ST. STEEL 304 ✓ Filter net inside 	
1.11	<p>Wort oxygen device</p>	1	<ul style="list-style-type: none"> ✓ Includes sight glass, Venturi, yeast adding tank, temperature gauge, Inflatable head and inflatable hose 	


2. Compartment for fermentation and maturation

2.1	Fermentation tank	6	<ul style="list-style-type: none"> ✓ Net capacity: 600L, Gross capacity:720L ✓ Dimensions: φ960*2270mm ✓ Inner-layer(st.steel 304), TH=3mm ✓ Covering-layer(st.steel 304), TH=1.0mm ✓ Legs (st.steel 304), TH=3.0mm ✓ Thermal insulation -80 mm ✓ Glycol jacket: dimpled plate on cone and side ✓ Cooling media: glycol water or alcohol water ✓ Stringent tank leakage test by water and pressured gas. ✓ Stringent jacket leakage test by water and pressured gas. ✓ 60° degree cone bottom ✓ CIP arm with 360°coverage CIP spraying ball ✓ Side manway ✓ Dry hops port on the top of tanks with solid end cap ✓ Full sanitary sample valve ✓ Mechanical relief valve 2bar on CIP arm ✓ Shockproof pressure gauge on CIP am ✓ Rotating racking arm and port on cone with butterfly valve ✓ Tri clamp discharge arm with butterfly valve ✓ PT100 Temperature sensor for high accuracy temperature control ✓ Design pressure 0.3MPa ✓ Working pressure 0.15Mpa ✓ 100% TIG welded joints; ✓ 4pcs completely ST.STEEL 304 heavy duty legs with levelling pad and legs support ✓ Complete valves, fittings and all parts
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2.2	Control panel	1	<ul style="list-style-type: none"> ✓ Semiautomatic, speed control of lauter tun's ripper, frequency converter. 380V 	
2.3	Cooling station	1	<ul style="list-style-type: none"> ✓ Productivity P= 5,6 kW, 380V ✓ Flow switch – 1 pcs. ✓ Plastic coolant tank ✓ Coolant pump – 2 pcs 	

3. Additional technological equipment

3.1	CIP (Disinfection tank+ Alkali tank+ Cleaning Pump)	1	<ul style="list-style-type: none"> ✓ Net capacity:100L ✓ Material is st.steel 304 ✓ Thickness is 2mm ✓ Cone top and bottom ✓ Valves and fittings included ✓ 100% TIG welded joints; ✓ Equipped with 3KW electric heating elements ✓ Pump: Flow 3m3/h, lift is 18m ✓ Inlet φ32, outlet φ25 ✓ Hose: Reinforced food grade; ✓ 150 resistance; ✓ Odourless, tasteless ✓ Stainless steel; power is 0.75kW ; ✓ Complete circulation piping and fittings ✓ Semi-open impeller 	
3.2	Set of hoses, pipes and Valves, supervision installation	1	<ul style="list-style-type: none"> ✓ Hose for pumping wort into CCT – 1pcs (25 m) ✓ Regulating valves of brewhouse – 1 set ✓ Set of installation materials ✓ Keg filling system - 1 pc 	
3.3	Brewer's set	1	<ul style="list-style-type: none"> ✓ Refractometer; alcohol thermometer; ladle, dropper (iodine), wrench, scraper ✓ Alcohol thermometer – 1 pc. ✓ Dropper (iodine) – 1 pc. ✓ Wrench, scraper – 1 pc. ✓ Sampling bucket – 1 pc. ✓ Fitting for pumping wort DN25(32) – 1 pc. ✓ Areometer 0-10% , 10-20%. 	

Total price – 88 952,50 Euro



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Terms of delivery: EXW Prague, Czech Republic

Time of delivery: 40 days