



Simple Brew

1 East st N Dundas, Ontario, Canada L9H1N5

Tel. 289 260 9775 (10:00 am - 6:00 pm)

www.schulzbrewingequipment.com


schulzcanada@gmail.com








Brewery Equipment Proposal SB-500




«Simple Brew»

500L Brewhouse


No	Component	Qty	Standard Specification	
1. Brewhouse				
1.1	Mash tun/Lauter tank	1	<ul style="list-style-type: none"> ✓ Net capacity: 500L, gross capacity: 710L ✓ Dimensions: ϕ1200*2450mm ✓ Inner-layer(AISI304), TH=3.0mm, mirror polish ✓ External-layer(AISI 304), TH=1.5mm ✓ Double dish heads on top (AISI 304), ✓ TH=3.0mm (the head outside is mirror polish). ✓ Insulation layer: PU-thickness: 80mm. ✓ Lauter tank equipped with plow knife (raker knife), ABB motor ✓ Side mounted grain outdoor with grain chute, size is 430*330mm ✓ Easy clean and detachable sparging spray ring ✓ Laser cutting T-wires false bottom (filter), plate gap: 0.8-1.0mm; Material is AISI 304. ✓ Top manhole- glass manhole, with side steam jacket for steam heating ✓ Filter method: Suction filtration by speed controlled filter pump. ✓ 360° coverage CIP spraying ball ✓ Temperature measurement way: PT100 ✓ 100% TIG welded joints; ✓ 4pcs completely AISI304 heavy duty legs with levelling pad 	



1.2	Kettle/ Whirlpool tank	1	<ul style="list-style-type: none"> ✓ Net capacity: 500L, Gross capacity: 710L ✓ Dimensions: $\phi 1200 \times 2450$mm ✓ Inner-layer(AISI304), TH=:3.0mm, mirror polish ✓ External-layer(AISI 304), TH=1.5mm; ✓ Double dish heads on top (AISI304), ✓ TH=3.0mm. (the head outside is mirror polish) ✓ Insulation layer: PU-thickness: 80mm. ✓ Top manhole - glass manhole, print the customers logo ✓ With side and bottom steam jackets for steam heating ✓ Tangential whirlpool inlet ✓ 360° coverage CIP spraying ball ✓ Temperature measurement way: PT100 ✓ 100% TIG welded joints; ✓ 4pcs completely 	
1.3	Steam generator	1	<ul style="list-style-type: none"> ✓ P= 100 kg-steam/hour, P=70 kW, 380 V 	

1.4.	Hot water tank	1	<ul style="list-style-type: none"> ✓ Vtotal=1000l, ✓ Heating elements P= 4,5 kW*2 = 9 kW ✓ Pump for hot water 	
1.5	<u>Wort pump</u>	1	<ul style="list-style-type: none"> ✓ Flow 3m³/h, lift 24m, Sanitary AISI304 ✓ Rev: 2880r/min Capacity:3000L/h ✓ Centralized hard-piped manifold for liquid flow easily controlling ✓ Power: 0.75KW ✓ Speed controller, open impeller ✓ Inlet \varnothing 38, outlet \varnothing 32, tri-clamp quick-installed ✓ Complete valves, fittings and all parts 	
1.6.	Work platform	1	<ul style="list-style-type: none"> ✓ Material: steel AISI 304 ✓ Platform, stairs, handrails 	


1.7.	Plate Heat exchanger	1	<ul style="list-style-type: none"> ✓ BR0.1/ 4 m² ✓ Heat exchanger plate: Alfa Laval style ✓ Design Structure: St. steel pension type, screw material is AISI 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 φ38 ✓ Cold water inlet and outlet diameter is φ38 ✓ Tri-clamp quick-installed, two stage 	
1.8.	PLC controller	1	<ul style="list-style-type: none"> ✓ The touch screen placed on the work platform ✓ And the control box placed to another place, close to the brewhouse. ✓ The touch screen size is 15inch, the language is English ✓ The control box material is AISI304 ✓ The touch screen and PLC brand are Siemens ✓ The controller only used for control this 500L brewhouse ✓ Step heating in mash tun is operated by automatically ✓ Show the temperature of brewhouse 	
1.9.	Malt mill	1	<ul style="list-style-type: none"> ✓ P = 350 kg /hour, P=2*0,75kW, 380V ✓ Two adjustable rollers 	

2. Compartment for fermentation and maturation

2.1.	Fermentation tank	6	<ul style="list-style-type: none"> ✓ Net capacity: 1000L, Gross capacity: 1200L ✓ Dimensions: ϕ1260*2650mm ✓ 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: 280*380mm. ✓ 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"> ✓ Semiautomated, speed control of lauter tun's ripper, frequency converter. 380V 	
2.3	Cooling station	1	<ul style="list-style-type: none"> ✓ Productivity P= 7,4 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: 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; ✓ Odourless, tasteless ✓ Stainless steel; power is 0.75kW ; ✓ Complete circulation piping and fittings ✓ Semi-open impeller 	
3.2	Set of installation materials	1	<ul style="list-style-type: none"> ✓ Set of hoses, pipes and valves ✓ Supervision installation 	
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%, Areometer 10-20% 	
Total price – 118 470,00 Euro				

Delivery terms: EXW Prague, Czech Republic

Time of delivery: 40 days