



Version 1.0



Version 2.0





Version 2.1



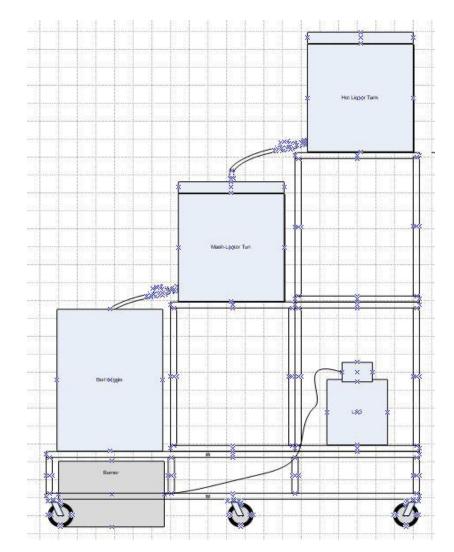


Version 3.0



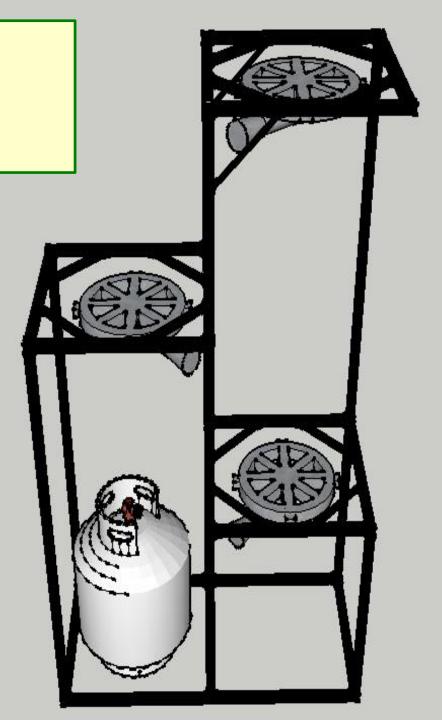
Planning Stage

- Batch size
- Storage Space
- Mobility
- Versatility
- Growth/Expansion
- Complexity
- Cost



Five Steps to Your Design

- Research
- Measure
- Sketch
- Review
- Repeat



Construction Materials

	Wood	Steel	Aluminum	Stainless Steel
WEIGHT/ STRENGTH	MEDIUM/ LOW	MEDIUM/ MEDIUM	LOW/HIGH	HIGH/HIGH
DURABILITY	LOW	MEDIUM	HIGH	HIGH
CLEANLINESS	LOW	MEDIUM	MEDIUM	HIGH
SKILLS & TOOLS REQUIRED	Basic Carpentry Skills and Tools	Basic Welding Skills (MIG), welder, grinder, cutting tools	Advanced Welding Skills (TIG), or bolted, cutting tools	Advanced Welding Skills (TIG), Argon welder, grinder, cutting tools
EASE OF BUILD	SIMPLE	MEDIUM	MEDIUM	DIFFICULT
COST	\$	\$\$	\$\$\$	\$\$\$\$
NOTES	Can catch fire, Rots over time	Adaptable, can be painted or powder coated	Adaptable, can be painted, polished or anodized	Difficult to "Modify"
MOBILITY	LOW	HIGH	HIGH	MEDIUM

Major Components

DAV 051 01 'K' Thermocouple

Hot Liquor Tank

- Boil Kettle: Kettle
- Mash Tun: Kettle or Insulated Cooler To 120 VAC

Boiling Kette

Hot Liquor Tank: Kettle or On Demand Heater

Controller

Mash Tun

Pump

Senso

- "K" Thermocouple • Sparge: Copper Coil, Sprinkler Head, Adapters
- Wort Chiller: Immersion Chiller, Plate Chiller, **Counter Flow** Natural Gas Connection 🧔
- Burners: Propane, Natural Gas, Electric

Additional Components

Adapters and Fittings

Tri-clover Barbed fittings Blichmann Camlock

Electronic

Controls

Timers PLCs Switches

Displays Powered Control Valves

Tubing(Gas)

Flexible Metal Flexible Rubber Rigid Stainless

Tubing (Liquid)

Heat resistant Correct Size

Ball Valves (liquid)

Standard Port Full Port Reduced Port **Needle Valves (gas)**

> Manual Electronic Controlled Shut off Solenoid

Boil Kettles (BK)



Whirlpool Options



Tangential Inlet



Top Return

Commercial

Keggle

Mash Lautering Tun (MLT)



Insulated Coolers or Kettles







Hot Liquor Tank (HLT)









On Demand Heater

Keggle

Commercial

Sparge Arm

Commercial or Homemade









Burners





Common Beer Pumps

Chugger

Cost: ~\$150 Max Flow: 7GPM Max Temp: 250° F Pump Head: Stainless Steel





March

Cost: ~\$150 Max Flow: 7GPM Max Temp: 250° F Pump Head: Plastic SS Head option + \$50

Other models go up to 17GPM and \$ >\$300-\$500



Wort Chillers



Immersion Chillers

Cost: \$50-150 Effectiveness: Low Water Use: High (Copper >effective Stainless)





Plate Chillers

Cost: \$100-200 Effectiveness: Med-High Water Use: Medium





Counterflow Chillers

Cost: \$100-\$250 Effectiveness: High Water Use: Low-Med



RIMS & HERMS





Electric RIMS Module



Dual Purpose HERMS & Chiller

Custom HERMS



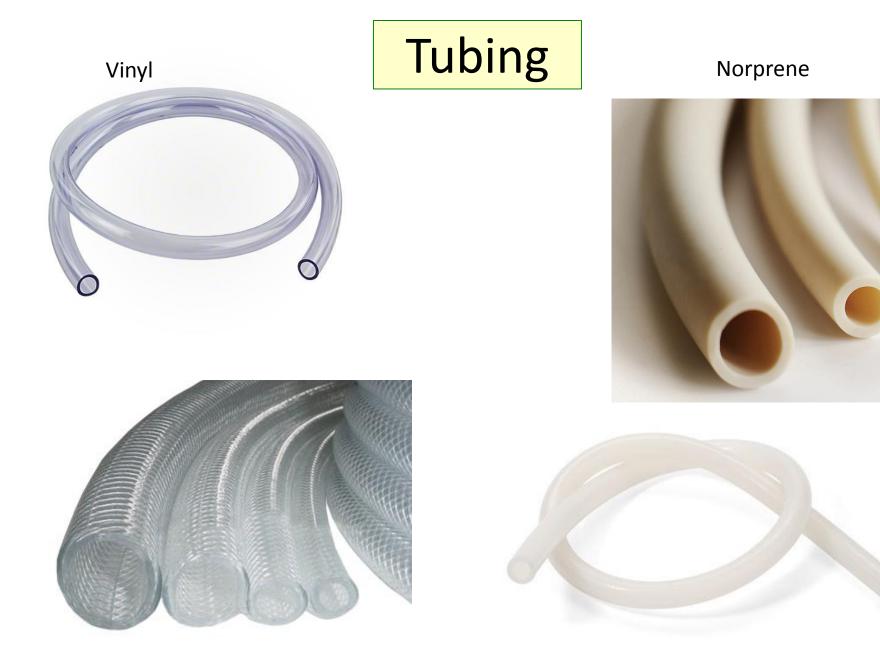




Weldless



Fittings



Reinforced Vinyl

Silicone



Tri-Clamps



Hose Connections

Camlocks



Blichmann Quick Connects

Hose Clamps

Stainless Disconnects







This may take awhile!



Brian Haslip OBC Vice President 2016 & 2017 OBC Member of the Year 2014 Merle Gilmore Award Winner (commitment to club) 2013 & 2015



