

Bismarck Pilsner

Guide utilizing the Brewolution brew kettle	
This kit contains the ingredients to brew 23-25 litres of beer in a Brewolution Brewster brew kettle. It is suitable for any brewing system able to achieve a mash efficiency of around 80%.	
Content: Pouch 2: Yeast Pouch 3: Pilsner malt, Cara Blond, Münich malt, approx. 5050 g Pouch 4: Bitter hops, Northern Brewer Pouch 5: Flavouring hops, Perle and finings Pouch 6: Flavouring hops, Hallertauer Mittelfrüh Pouch 7: Aroma hops, Tettnanger	
Mashing	
0 minutes	Add 19 litres of water to the Brewster kettle and set the temperature to 65°C
60 minutes	Submerge the kettle sieve into the kettle and add the malt (pouch 3). Start the mashing pump and recirculate for 75 minutes. Stop the pump if the bottom of the kettle runs dry.
75 minutes	Heat 10-14 litres of sparge water to 78°C (for mash-out and sparging) After 75 minutes, at the sound of the alarm, set the temperature to 77°C. The mashing is complete when the alarm sounds again for 77°C. Raise the kettle sieve on the sieve hangers and sparge with the 78°C sparge water prepared earlier. Bring the wort level to 29 litres. Hang the kettle sieve to drain over a plastic fermenter.
Boiling and chilling	
0 minutes	Set the temperature on the Brewster kettle to 100°C, and the time for 90 minutes.
75 minutes	When the temperature reach 100°C, and the alarm sounds, add the bittering hops (pouch 4)
80 minutes	Add flavouring hops and finings (pouch 5)
85 minutes	Add the next flavoring hops (pouch 6)
90 minutes	Add aroma hops (pouch 7) After 5 minutes the Brewster kettle turns itself off. Chill the wort to approximately 23°C, and rack to a clean and sanitised fermenter.
Fermentation	
0 days	Pitch the yeast and ferment at 18°C – 22°C
14 days	After 7 days, rack the beer to a secondary clean and sanitised fermenter.
21 days	After a further 7 days, bottle the beer. To bottle carbonate, rack the beer to a plastic fermenter containing tepid sugar water. (5-7 g caster sugar per litre beer dissolved in 200 ml water. Boil for 10 minutes and cool to 26°C) Bottle the beer and place at room temperature for a couple of weeks.
35 days	The beer is carbonated and ready to drink. Store at cellar temperature (13°C – 17°C) For the best result, let the beer mature for 1 month before consumption.
Notes	
It is advantageous to take notes during a brew:	
Typical stats::	
Bitterness: 36 IBU	Colour: 7 EBC Alcohol (ABV): 4,9 %
OG: 1050	Your OG: _____
FG: 1013	Your FG: _____ Your alcohol % (OG-FG) / 7,5 = _____%
For general guidance using the Brewster kettle, please refer to www.brewolution.com/brewsterscan , or scan this QR-code.	
	