

## Munich by Night

	Guide utilizing the Brewolution brew kettle	
	ins the ingredients to brew 23-25 litres of beer in a Brewolution Brewster brew kettle. It is suitable for any brewing system	em
able to achieve	ve a mash efficiency of around 80%.	
Content:		
Pouch 2: Yeast		
	ner malt, Munich, Cara Ruby, Chocolate malt, approx. 6400 g	
	ering hops, Tettnanger ouring hops, Tettnanger and clearing agent	
Touch 5. Have	Mashing	
	Add 19 litres of water to the Brewster kettle (10 cm from the top) and set the temperature to 64°C	
0 minutes	Submerge the kettle sieve into the kettle and add the malt (pouch 3). Start the mash pump and recirculate for 90 minutes. Top of with water during the process for water table. Stop the pump if the bottom of the kettle runs dry.	
60 minutes	Heat 10-14 litres of sparge water to 78°C (for mash-out and sparging)	
90 minutes	After 90 minutes, at the sound of the alarm, set the temperature to 77°C. The mash 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	
	Set the temperature on the Brewster kettle to 100°C, and set the time to 60 minutes.	
0 minutes	When the temperature get to 100°C, and the alarm sounds, add the bittering hops (pouch 4).	
55 minutes	Add flavouring hops and clearing agent (pouch 5). Sanitize your chiller.	
60 minutes	After another 5 minutes, the Brewster kettle turns itself off.	
	Chill the wort to approximately 20°C, and rack to a clean and sanitised fermenter.	
	Fermentation	
0 days	Pitch the yeast and ferment at 12°C – 16°C	
7 days	After 7 days, rack the beer to a secondary clean and sanitised fermenter.	
	After a further 7 days, bottle the beer.	
14 days	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 temperatu for a couple of weeks.	re
28 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 a month before consumption.	
	Notes	
It is advantage	geous to take notes during a brew:	
Typical stats:		
Bitterness: 37 l		
bitterness: 37 l	Y IBU Colour: 34 EBC Alcohol (ABV): 5.6 %	
OG: 1057	Your OG:	
FG: 1015	Your FG: Your alcohol % (OG-FG) / 7.5 =%	
For general gu	uidance using the Brewster kettle, please refer to www.brewolution.com/brewsterscan, or scan this QR-code.	