Brewdog Clone Black Heart

- Gravity 10.7 BLG
- ABV 4.3 %
- IBU **30**
- SRM **46.2**
- Style Dry Stout

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- Boil time 90 min
- Evaporation rate 10 %/h
- Boil size 33.1 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 17.5 liter(s)
- Total mash volume 22.5 liter(s)

Steps

- Temp **55 C**, Time **1 min** Temp **66 C**, Time **60 min**
- Temp 76 C, Time 5 min

Mash step by step

- Heat up 17.5 liter(s) of strike water to 60C
- Add grains
- Keep mash 1 min at 55C
- Keep mash 60 min at 66C
- Keep mash 5 min at 76C
- Sparge using 20.6 liter(s) of 76C water or to achieve 33.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale Best	3 kg <i>(59.1%)</i>	80 %	6
Grain	Oats, Flaked	0.5 kg (9.8%)	80 %	2
Grain	Barley, Flaked	0.5 kg <i>(9.8%)</i>	70 %	4
Grain	Cara aroma (red)	0.3 kg <i>(5.9%)</i>	78 %	50
Grain	Carafa II Best	0.3 kg <i>(5.9%)</i>	65 %	1100
Grain	Chocolate Best	0.4 kg (7.9%)	75 %	900
Liquid Extract	sinamar	0.08 kg <i>(1.6%)</i>	%	8000

Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	East Kent Goldings	20 g	60 min	5.7 %
Boil	East Kent Goldings	50 g	15 min	5.7 %
Aroma (end of boil)	East Kent Goldings	50 g	5 min	5.7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Wyeast - 1728 Scottish Ale	Ale	Slant	200 ml	Wyeast Labs

Extras

Туре	Name	Amount	Use for	Time
Fining	WHIRLFLOC	1.2 g	Boil	10 min