Munich DRY STOUT

- Gravity 17.7 BLG
- ABV ----
- IBU 49
- SRM 41.6
- Style Munich Dunkel

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.7 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 21.3 liter(s)
- Total mash volume 28.4 liter(s)

Steps

- Temp 58 C, Time 20 min
 Temp 66 C, Time 50 min
 Temp 73 C, Time 10 min

- Temp 80 C, Time 5 min

Mash step by step

- Heat up 21.3 liter(s) of strike water to 64.3C
- Add grains
- Keep mash 20 min at 58C
- Keep mash 50 min at 66C
- Keep mash 10 min at 73C
- Keep mash 5 min at 80C
- Sparge using 17.5 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Monachijski Ciemny Steinbach	5 kg (70.4%)	100 %	30
Grain	Biscuit Malt	1 kg <i>(14.1%)</i>	79 %	50
Grain	Special B Malt	0.5 kg <i>(7%)</i>	65.2 %	350
Grain	Kawowy Castle	0.6 kg (8.5%)	79 %	480

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Minstrel	50 g	59 min	4.9 %
Boil	Bohemie	50 g	25 min	7.89 %
Aroma (end of boil)	Angus	50 g	5 min	10.73 %
Dry Hop	Mosaic	50 g	7 day(s)	12 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale

Extras

Туре	Name	Amount	Use for	Time
Fining	mech	5 g	Boil	10 min