#53 Cascade Pils

- Gravity 11.2 BLG
- ABV 4.5 %
- IBU 40
- SRM **3**
- Style Classic American Pilsner

Batch size

- Expected quantity of finished beer 24 liter(s)
- Trub loss 4 %
- Size with trub loss 25 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 29.6 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 17.5 liter(s)
- Total mash volume 22.5 liter(s)

Steps

- Temp 62 C, Time 15 min
 Temp 64 C, Time 15 min
 Temp 72 C, Time 40 min
- Temp **76 C**, Time **1 min**

Mash step by step

- Heat up 17.5 liter(s) of strike water to 68C
- Add grains
- Keep mash 15 min at 62C
- Keep mash 15 min at 64C
- Keep mash 40 min at 72C
- Keep mash 1 min at 76C
- Sparge using 17.1 liter(s) of 76C water or to achieve 29.6 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Malteurop Lager	4.5 kg <i>(90%)</i>	82 %	3
Grain	Malteurop Wheat	0.5 kg <i>(10%)</i>	86.8 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	25 g	60 min	13.5 %
Boil	Cascade	10 g	30 min	6.3 %
Boil	Cascade	10 g	10 min	6.3 %
Boil	Cascade	30 g	0 min	6.3 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM30 Bohemska rapsodia	Lager	Slant	300 ml	Fermentum Mobile