Cold APA

- Gravity **11.7 BLG**
- ABV 4.7 %
- IBU **41**
- SRM **3.3**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer **60 liter(s)**
- Trub loss 1 %
- Size with trub loss 63.6 liter(s)
- Boil time 60 min
- Evaporation rate 7 %/h
- Boil size 70 liter(s)

Mash information

- Mash efficiency 77 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 39 liter(s)
- Total mash volume 52 liter(s)

Steps

- Temp 66 C, Time 60 min
 Temp 78 C, Time 5 min

Mash step by step

- Heat up 39 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 66C
- Keep mash 5 min at 78C
- Sparge using 44 liter(s) of 76C water or to achieve 70 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	10 kg <i>(76.9%)</i>	82 %	4
Grain	rice flakes	2 kg <i>(15.4%)</i>	78.3 %	2.5
Grain	Chit Malt	1 kg (7.7%)	50 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	10 g	60 min	12.4 %
Whirlpool	Mosaic 80C	100 g	30 min	12.8 %
Whirlpool	idaho 7 75C	100 g	20 min	13.8 %