Cold APA

- Gravity 12.9 BLG
- ABV 5.2 %
- IBU **27**
- SRM **3.3**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 75 liter(s)
- Trub loss 1 %
- Size with trub loss 79.5 liter(s)
- Boil time 60 min
- Evaporation rate 7 %/h
- Boil size 87.5 liter(s)

Mash information

- Mash efficiency 77 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 54 liter(s)
- Total mash volume 72 liter(s)

Steps

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

Mash step by step

- Heat up 54 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 66C
- Keep mash 5 min at 78C
 Sparge using 51.5 liter(s) of 76C water or to achieve 87.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	13 kg <i>(72.2%)</i>	82 %	4
Grain	Rye, Flaked	4 kg (22.2%)	78.3 %	0.7
Grain	Chit Malt	1 kg (5.6%)	50 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	30 g	60 min	12.4 %
Whirlpool	Cascade	100 g	30 min	6 %
Whirlpool	Cascade	150 g	20 min	6 %