# **APA Chinnok Cascade PL**

- Gravity 11 BLG
- ABV 4.4 %
- IBU 40
- SRM **3.9**
- Style American Pale Ale

### **Batch size**

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 27.5 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.7 liter(s)

## **Mash information**

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 15 liter(s)
- Total mash volume 20 liter(s)

### **Steps**

- Temp 64 C, Time 30 min
  Temp 72 C, Time 30 min

## Mash step by step

- Heat up 15 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 30 min at 64C
- Keep mash 30 min at 72C
- Sparge using 21.7 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

#### **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale Optima	5 kg (100%)	82 %	6

#### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Chinook	30 g	60 min	10 %
Boil	Cascade	20 g	15 min	5.5 %
Aroma (end of boil)	Chinook	20 g	5 min	10 %
Aroma (end of boil)	Cascade	30 g	5 min	5.5 %
Whirlpool	Cascade	50 g	30 min	5.5 %

#### **Yeasts**

Name	Туре	Form	Amount	Laboratory
FM54	Ale	Liquid	100 ml	Fermentum Mobile