## **Rice New Zeland Pale Ale**

- Gravity 11.7 BLG
- ABV 4.7 %
- IBU **53**
- SRM **3.4**
- Style American Pale Ale

### **Batch size**

- Expected quantity of finished beer 12 liter(s)
- Trub loss 5 %
- Size with trub loss 13.2 liter(s)
- · Boil time 60 min
- Evaporation rate 13 %/h
- Boil size 16.3 liter(s)

### **Mash information**

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 9.8 liter(s)
- Total mash volume 13 liter(s)

### **Steps**

- Temp 52 C, Time 5 min
  Temp 62 C, Time 30 min
  Temp 64 C, Time 20 min
- Temp **70 C**, Time **10 min**

## Mash step by step

- Heat up 9.8 liter(s) of strike water to 57.3C
- Add grains
- Keep mash 5 min at 52C
- Keep mash 30 min at 62C
- Keep mash 20 min at 64C
- Keep mash 10 min at 70C
- Sparge using 9.8 liter(s) of 76C water or to achieve 16.3 liter(s) of wort

## **Fermentables**

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	1.8 kg <i>(55.4%)</i>	82 %	4
Grain	Rice, Flaked	1.25 kg <i>(38.5%)</i>	70 %	2
Grain	Weyermann - Carapils	0.2 kg <i>(6.2%)</i>	78 %	4

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Pacific Gem	12 g	60 min	13.9 %
Whirlpool	Pacific Gem	20 g	15 min	15.3 %
Whirlpool	Rakau (NZ)	20 g	15 min	9.5 %
Dry Hop	WAI-ITI	25 g	3 day(s)	4.1 %
Dry Hop	Pacific Gem	25 g	3 day(s)	15.3 %
Dry Hop	Rakau (NZ)	25 g	3 day(s)	9.5 %

#### **Yeasts**

Name	Type	Form	Amount	Laboratory
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FM50 Kłosy Kansas	Wheat	Slant	200 ml	Fermentum Mobile
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# **Extras**

Туре	Name	Amount	Use for	Time
Spice	trawa cytrynowa mrożona	80 g	Boil	10 min
Spice	zest z limonki	150 g	Secondary	3 day(s)