One Perfect Sunrise

- Gravity 20.3 BLG
- ABV ----
- IBU **70**
- SRM 16.4
- Style Red IPA

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss --- %
- Size with trub loss --- liter(s)
- Boil time 60 min
- Evaporation rate --- %/h
- Boil size --- liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio --- liter(s) / kg
- Mash size 20 liter(s)
- Total mash volume 28.25 liter(s)

Steps

- Temp **63 C**, Time **40 min** Temp **72 C**, Time **40 min**
- Temp 77 C, Time 10 min

Mash step by step

- Heat up 20 liter(s) of strike water to 71.9C
- Add grains
- Keep mash 40 min at 63C
- Keep mash 40 min at 72C
- Keep mash 10 min at 77C
- Sparge using -11.8 liter(s) of 76C water

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	4.1 kg	81 %	2.8
Grain	Red X	4.15 kg	77 %	30

Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	Chinook	25 g	120 min	11 %
Boil	Chinook	60 g	20 min	11 %
Boil	Pacific Gem	20 g	15 min	14.6 %
Boil	Pacifica	20 g	5 min	5.5 %
Aroma (end of boil)	Pacific Gem	30 g	0 min	14.6 %
Aroma (end of boil)	Pacifica	80 g	0 min	5.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
WLP041 - Pacific Ale Yeast	Ale	Slant	300 ml	White Labs

Extras

Туре	Name	Amount	Use for	Time
Other	Pożywka	2 g	Boil	1 min