Smoke Apple

- Gravity 7.3 BLG
- ABV 2.8 %
- IBU **21**
- SRM **3.2**
- Style Grodziskie/Graetzer

Batch size

- Expected quantity of finished beer 12 liter(s)
- Trub loss 5 %
- Size with trub loss 12.6 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 15.2 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 4.9 liter(s)
- Total mash volume 6.6 liter(s)

Steps

- Temp **38 C**, Time **45 min** Temp **63 C**, Time **21 min** Temp **72 C**, Time **22 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up 4.9 liter(s) of strike water to 41C
- Add grains
- Keep mash 45 min at 38C
- Keep mash 21 min at 63C
- Keep mash 22 min at 72C
- Keep mash 10 min at 78C
- Sparge using 12 liter(s) of 76C water or to achieve 15.2 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Malt Wędzony jabłoń	0.7 kg <i>(42.4%)</i>	82 %	10
Grain	Strzegom Pilzneński	0.45 kg <i>(27.3%)</i>	80 %	4
Grain	Pszeniczny	0.5 kg <i>(30.3%)</i>	85 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lomik	15 g	50 min	4 %
Boil	lomik	10 g	20 min	4 %
Boil	Lomik	10 g	10 min	3.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safbrew S-33	Ale	Dry	13 g	Safbrew

Extras

Туре	Name	Amount	Use for	Time
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l Fining	l Whirlflock T	I 1.2 a	l Boil	1 15 MIN
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