X-mas Ale

- Gravity 19.6 BLG
- ABV ---
- IBU 35
- SRM **39.9**
- Style Christmas/Winter Specialty Spiced Beer

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- Boil time 70 min
- Evaporation rate 10.7 %/h
- Boil size 27 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 20.4 liter(s)
- Total mash volume 27.2 liter(s)

Steps

- Temp 68 C, Time 45 min
 Temp 76 C, Time 5 min

Mash step by step

- Heat up 20.4 liter(s) of strike water to 76C
- Add grains
- Keep mash 45 min at 68C
- Keep mash 5 min at 76C
- Sparge using 13.4 liter(s) of 76C water or to achieve 27 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	4 kg <i>(57.6%)</i>	85 %	7
Grain	Monachijski	2 kg (28.8%)	80 %	16
Grain	Caraaroma	0.6 kg <i>(8.6%)</i>	78 %	400
Grain	Weyermann - Carafa I	0.2 kg <i>(2.9%)</i>	70 %	690
Sugar	cukier	0.15 kg <i>(2.2%)</i>	100 %	400

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	English Golding	60 g	60 min	4.8 %
Boil	English Golding	30 g	20 min	4.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safbrew T-58	Ale	Dry	11.5 g	Fermentis

Extras

Type	Name	Amount	Use for	Time
Type		/ o	050.0.	

Spice	Imbir	30 g	Boil	60 min
Spice	Cynamon	5 g	Boil	10 min
Spice	Kardamon	5 g	Boil	10 min
Spice	Goździki	5 g	Boil	10 min
Spice	Gałka muszkatołowa	5 g	Boil	10 min
Fining	Mech irlandzki	2.5 g	Boil	15 min