pils

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU 33
- SRM **3.8**
- Style Bohemian Pilsener

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 10 %
- Size with trub loss 22 liter(s)
- Boil time 90 min
- Evaporation rate 10 %/h
- Boil size 27.6 liter(s)

Mash information

- Mash efficiency 68 %
- Liquor-to-grist ratio 4 liter(s) / kg
- Mash size 21.6 liter(s)
- Total mash volume 27 liter(s)

Steps

- Temp **54 C**, Time **10 min** Temp **64 C**, Time **30 min** Temp **70 C**, Time **30 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up 21.6 liter(s) of strike water to 58.3C
- Add grains
- Keep mash 10 min at 54C
- · Keep mash 30 min at 64C
- Keep mash 30 min at 70C
- Keep mash 10 min at 76C
- Sparge using 11.4 liter(s) of 76C water or to achieve 27.6 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	5.2 kg (96.3%)	81 %	4
Grain	carapils	0.2 kg <i>(3.7%)</i>	75 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Perle	20 g	60 min	6.2 %
Boil	Perle	20 g	30 min	6.2 %
Boil	Perle	20 g	15 min	6.2 %
Aroma (end of boil)	Perle	20 g	5 min	7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM31 Bawarska Dolina	Lager	Slant	300 ml	Fermentum Mobile
Omega German Pils	Lager	Slant	300 ml	Omega Yeast

Extras

Туре	Name	Amount	Use for	Time
Fining	wirflock	1 g	Boil	5 min