Czeski pils

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **29**
- SRM **3.7**
- Style Classic American Pilsner

Batch size

- Expected quantity of finished beer 18 liter(s)
- Trub loss 5 %
- Size with trub loss 18.9 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 22.8 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 16.1 liter(s)
- Total mash volume 20.7 liter(s)

Steps

- Temp **64 C**, Time **15 min** Temp **72 C**, Time **55 min**
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up 16.1 liter(s) of strike water to 70.3C
- · Add grains
- Keep mash 15 min at 64C
- Keep mash 55 min at 72C
- Keep mash 5 min at 76C
- Sparge using 11.3 liter(s) of 76C water or to achieve 22.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	4.3 kg <i>(93.5%)</i>	81 %	4
Grain	Weyermann - Carapils	0.3 kg <i>(6.5%)</i>	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	lunga	15 g	60 min	11 %
Aroma (end of boil)	Lublin (Lubelski) PH	50 g	5 min	5.3 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M84 Bohemian Lager	Lager	Dry	22 g	Jacki

Extras

Туре	Name	Amount	Use for	Time
Water Agent	Nacl	7 g	Boil	60 min
Water Agent	H3PO4	5 g	Mash	90 min

Water Agent	Whirfloc	2 a	Boil	10 min
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