Hajstra (FES)

- Gravity 15.7 BLG
- ABV 6.6 %
- IBU **49**
- SRM **35.3**
- Style Foreign Extra Stout

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 15 %/h
- Boil size 15.9 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 10.5 liter(s)
- Total mash volume 14 liter(s)

Steps

- Temp **62 C**, Time **40 min** Temp **72 C**, Time **10 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 10.5 liter(s) of strike water to 69C
- Add grains
- Keep mash 40 min at 62C
- Keep mash 10 min at 72C
- Keep mash 5 min at 78C
- Sparge using 8.9 liter(s) of 76C water or to achieve 15.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Maris Otter Crisp	2.5 kg <i>(67.6%)</i>	83 %	6
Grain	Strzegom Monachijski typ II	0.4 kg <i>(10.8%)</i>	79 %	22
Grain	Jęczmień palony	0.4 kg <i>(10.8%)</i>	55 %	985
Grain	Płatki owsiane	0.2 kg <i>(5.4%)</i>	60 %	3
Sugar	Brown Sugar, Dark	0.2 kg <i>(5.4%)</i>	100 %	99

Hops

Use for	Name	Amount	Time	Alpha acid
First Wort	East Kent Goldings	40 g	60 min	5.1 %
Aroma (end of boil)	East Kent Goldings	25 g	20 min	5.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M36 Liberty Bell Ale	Ale	Dry	11 g	Mangrove Jack's
Danstar - Nottingham	Ale	Dry	11 g	Danstar

Extras

Туре	Name	Amount	Use for	Time
Other	Pożywka	2 g	Boil	10 min
Fining	Whirlfloc T	2 g	Boil	10 min