JET BLACK HEART

- · Gravity 14 BLG
- ABV ----
- IBU **30**
- SRM **28.1**
- Style Oatmeal Stout

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 16 liter(s)
- Total mash volume 20.6 liter(s)

Steps

• Temp 65 C, Time 75 min

Mash step by step

- Heat up 16 liter(s) of strike water to 71.4C
- · Add grains
- Keep mash 75 min at 65C
- Sparge using 13.9 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	2.75 kg <i>(55.4%)</i>	85 %	7
Grain	Briess - Wheat Malt, White	0.25 kg <i>(5%)</i>	85 %	5
Grain	Fawcett - Dark Crystal	0.19 kg <i>(3.8%)</i>	71 %	300
Grain	Brown Malt (British Chocolate)	0.38 kg <i>(7.7%)</i>	70 %	128
Grain	Briess - Black Malt	0.19 kg <i>(3.8%)</i>	55 %	985
Grain	Carafa	0.19 kg <i>(3.8%)</i>	70 %	664
Grain	Oats, Flaked	0.38 kg <i>(7.7%)</i>	80 %	2
Grain	Caramel/Crystal Malt - 120L	0.25 kg <i>(5%)</i>	72 %	150
Sugar	Milk Sugar (Lactose)	0.38 kg <i>(7.7%)</i>	76.1 %	0

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	20 g	60 min	11.5 %
Boil	Sorachi Ace	10 g	10 min	10 %

Yeasts

Name Type	Form	Amount	Laboratory
-----------	------	--------	------------

US-05	Ale	Dry	11.5 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Water Agent	kreda	2 g	Mash	60 min
Fining	Mech Irlandzki	5 g	Boil	10 min