

# Klon Jet Black Heart

- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **25**
- SRM **29.4**
- Style **Sweet Stout**

## Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **5 %**
- Size with trub loss **19.9 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **24.1 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **13.7 liter(s)**
- Total mash volume **18.3 liter(s)**

## Steps

- Temp **65 C**, Time **75 min**

## Mash step by step

- Heat up **13.7 liter(s)** of strike water to **72.5C**
- Add grains
- Keep mash **75 min** at **65C**
- Sparge using **15 liter(s)** of **76C** water or to achieve **24.1 liter(s)** of wort

## Fermentables

| Type  | Name                           | Amount          | Yield  | EBC  |
|-------|--------------------------------|-----------------|--------|------|
| Grain | Viking Pale Ale malt           | 2.75 kg (55.4%) | 80 %   | 5    |
| Grain | Strzegom Pszeniczny            | 0.25 kg (5%)    | 81 %   | 6    |
| Grain | Strzegom Karmel 300            | 0.19 kg (3.8%)  | 70 %   | 299  |
| Grain | Brown Malt (British Chocolate) | 0.38 kg (7.7%)  | 70 %   | 128  |
| Grain | Strzegom Barwiący              | 0.19 kg (3.8%)  | 68 %   | 1300 |
| Grain | Carafa                         | 0.19 kg (3.8%)  | 70 %   | 664  |
| Grain | Płatki owsiane                 | 0.38 kg (7.7%)  | 85 %   | 3    |
| Grain | Strzegom Karmel 150            | 0.25 kg (5%)    | 75 %   | 150  |
| Sugar | Milk Sugar (Lactose)           | 0.38 kg (7.7%)  | 76.1 % | 0    |

## Hops

| Use for | Name        | Amount | Time   | Alpha acid |
|---------|-------------|--------|--------|------------|
| Boil    | Magnum      | 12.5 g | 60 min | 13.5 %     |
| Boil    | Sorachi Ace | 6.3 g  | 30 min | 10 %       |

## Yeasts

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

|                       |     |        |        |             |
|-----------------------|-----|--------|--------|-------------|
| Wyeast - American Ale | Ale | Liquid | 125 ml | Wyeast Labs |
|-----------------------|-----|--------|--------|-------------|

## Notes

- klon brewdoga zerznięty z DIYDOG  
*Sep 13, 2017, 2:40 PM*