

#8 Black Hydra

- Gravity **18.3 BLG**
- ABV ---
- IBU **119**
- SRM **40**
- Style **Black IPA**

Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **10 %**
- Size with trub loss **22 liter(s)**
- Boil time **60 min**
- Evaporation rate **15 %/h**
- Boil size **25.3 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **2.5 liter(s) / kg**
- Mash size **16.5 liter(s)**
- Total mash volume **23.1 liter(s)**

Steps

- Temp **66 C**, Time **50 min**
- Temp **72 C**, Time **10 min**

Mash step by step

- Heat up **16.5 liter(s)** of strike water to **75.2C**
- Add grains
- Keep mash **50 min** at **66C**
- Keep mash **10 min** at **72C**
- Sparge using **15.4 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|--------------------------------|---------------|-------|------|
| Grain | Weyermann - Pale Ale Malt | 3.5 kg (53%) | 85 % | 7 |
| Grain | Weyermann - Monachijski Typ II | 0.5 kg (7.6%) | 78 % | 20 |
| Grain | Weyermann - Carapils | 0.5 kg (7.6%) | 75 % | 3 |
| Grain | Weyermann - Caramunich Typ II | 0.5 kg (7.6%) | 73 % | 110 |
| Grain | Weyermann - Carafa II | 0.3 kg (4.5%) | 65 % | 1300 |
| Grain | Weyermann - Chocolate Rye Malt | 0.3 kg (4.5%) | 65 % | 500 |
| Grain | Weyermann - Rye Malt | 1 kg (15.2%) | 85 % | 3 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | Equinox | 40 g | 60 min | 13.9 % |
| Boil | Equinox | 35 g | 40 min | 13.9 % |
| Boil | Enigma | 13 g | 20 min | 17.2 % |
| Boil | Enigma | 33 g | 5 min | 17.2 % |

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|---------|-------------|------|----------|--------|
| Boil | Enigma | 20 g | 5 min | 17.2 % |
| Dry Hop | Equinox | 25 g | 7 day(s) | 13.9 % |
| Dry Hop | Sorachi Ace | 50 g | 7 day(s) | 12 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|-----------------------------------|------|------|--------|-----------------|
| Mangrove Jack's M44 US West Coast | Ale | Dry | 10 g | Mangrove Jack's |