

Smoked Hazy IPA

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **33**
- SRM **4.7**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **12 liter(s)**
- Trub loss **4 %**
- Size with trub loss **13 liter(s)**
- Boil time **70 min**
- Evaporation rate **15 %/h**
- Boil size **15.6 liter(s)**

Mash information

- Mash efficiency **78 %**
- Liquor-to-grist ratio **3.45 liter(s) / kg**
- Mash size **10.7 liter(s)**
- Total mash volume **13.8 liter(s)**

Steps

- Temp **64 C**, Time **40 min**
- Temp **72 C**, Time **40 min**
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up **10.7 liter(s)** of strike water to **70.4C**
- Add grains
- Keep mash **40 min** at **64C**
- Keep mash **40 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **8 liter(s)** of **76C** water or to achieve **15.6 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|------------------------------------|----------------|--------|-----|
| Grain | Strzegom Pilzneński | 1.1 kg (35.5%) | 80 % | 4 |
| Grain | Grodziski pszeniczny wędzony dębem | 1 kg (32.3%) | 80 % | 3 |
| Grain | Viking Pale Ale malt | 0.7 kg (22.6%) | 80 % | 5 |
| Grain | Carahell | 0.25 kg (8.1%) | 77 % | 26 |
| Grain | Acid Malt | 0.05 kg (1.6%) | 58.7 % | 6 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|-----------------------|--------|----------|------------|
| Boil | Chinook | 10 g | 60 min | 13 % |
| Boil | Saaz (Czech Republic) | 25 g | 15 min | 4.3 % |
| Aroma (end of boil) | Saaz (Czech Republic) | 25 g | 0 min | 4.3 % |
| Dry Hop | Oktawia | 100 g | 5 day(s) | 7.1 % |

Yeasts

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

| | | | | |
|---------------------------------|-----|-------|--------|-----------|
| Lallemand - LalBrew Verdant IPA | Ale | Slant | 100 ml | Lallemand |
|---------------------------------|-----|-------|--------|-----------|

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-----------------|--------|----------|--------|
| Water Agent | gips piwowarski | 2 g | Boil | 60 min |
| Other | Witamina C | 2 g | Bottling | --- |