

FAH 3

- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **39**
- SRM **3.5**
- Style **American Pale Ale**

Batch size

- Expected quantity of finished beer **26 liter(s)**
- Trub loss **5 %**
- Size with trub loss **28.6 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **32.9 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

Steps

- Temp **40 C**, Time **0 min**
- Temp **62 C**, Time **10 min**
- Temp **70 C**, Time **50 min**
- Temp **75 C**, Time **10 min**

Mash step by step

- Heat up **18 liter(s)** of strike water to **43.3C**
- Add grains
- Keep mash **0 min** at **40C**
- Keep mash **10 min** at **62C**
- Keep mash **50 min** at **70C**
- Keep mash **10 min** at **75C**
- Sparge using **20.9 liter(s)** of **76C** water or to achieve **32.9 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|-------------|-------|-----|
| Grain | Pilzneński Malteurop | 6 kg (100%) | 85 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|----------|--------|----------|------------|
| Aroma (end of boil) | Simcoe | 10 g | 15 min | 13.2 % |
| Aroma (end of boil) | Amarillo | 10 g | 15 min | 9.5 % |
| Aroma (end of boil) | Mosaic | 10 g | 15 min | 11.7 % |
| Whirlpool | Simcoe | 15 g | 10 min | 13.2 % |
| Whirlpool | Amarillo | 15 g | 10 min | 9.5 % |
| Whirlpool | Mosaic | 15 g | 10 min | 11.7 % |
| Dry Hop | Simcoe | 30 g | 5 day(s) | 13.2 % |
| Dry Hop | Amarillo | 30 g | 5 day(s) | 9.5 % |
| Dry Hop | Mosaic | 30 g | 5 day(s) | 11.7 % |
| Boil | Magnum | 30 g | 45 min | 11.5 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|-------------|-------------|---------------|-------------------|
| Safale US-05 | Ale | Dry | 11.5 g | Fermentis |

Extras

| Type | Name | Amount | Use for | Time |
|-------------|-------------|---------------|----------------|-------------|
| Fining | WHRLIFLOC T | 0.5 g | Boil | 5 min |