

Apa

- Gravity **11.2 BLG**
- ABV ---
- IBU **45**
- SRM **4.7**
- Style **American Pale Ale**

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 **10 %/h**
- Boil size **26.4 liter(s)**

Mash information

- Mash efficiency **80 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18 liter(s)**

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|----------------|-------|-----|
| Grain | Pale Ale | 2 kg (50%) | 80 % | 6 |
| Grain | Pilzneński | 1 kg (25%) | 81 % | 4 |
| Grain | Pszeniczny jasny niemiecki | 0.5 kg (12.5%) | 82 % | 5 |
| Grain | Karmelowy Pale Cara | 0.5 kg (12.5%) | 75 % | 9 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------------------|---------|--------|----------|------------|
| Boil | Equinox | 25 g | 45 min | 13.1 % |
| Aroma (end of boil) | Pekko | 20 g | 6 min | 13.6 % |
| Aroma (end of boil) | Ahtanum | 20 g | 4 min | 3.4 % |
| Mash | Kohatu | 20 g | 2 min | 6.6 % |
| Dry Hop | Kohatu | 30 g | 7 day(s) | 6.6 % |
| Dry Hop | Ahtanum | 30 g | 7 day(s) | 3.4 % |
| Dry Hop | Equinox | 25 g | 5 day(s) | 13.1 % |
| Dry Hop | Pekko | 30 g | 7 day(s) | 13.6 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|---------|------|------|--------|------------|
| US - 05 | Ale | Dry | 5 g | --- |

Extras

| Type | Name | Amount | Use for | Time |
|------|----------|--------|---------|-------|
| Herb | Hibiskus | 50 g | Boil | 5 min |