

## Session ipa

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- Gravity **12.4 BLG**
- ABV **5 %**
- IBU **48**
- SRM **3.5**
- Style **White IPA**

### Batch size

- Expected quantity of finished beer **27 liter(s)**
- Trub loss **5 %**
- Size with trub loss **29.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **12 %/h**
- Boil size **36.3 liter(s)**

### Mash information

- Mash efficiency **78 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **22.8 liter(s)**
- Total mash volume **29.3 liter(s)**

### Steps

- Temp **65 C**, Time **50 min**
- Temp **72 C**, Time **10 min**
- Temp **76 C**, Time **60 min**

### Mash step by step

- Heat up **22.8 liter(s)** of strike water to **71.4C**
- Add grains
- Keep mash **50 min** at **65C**
- Keep mash **10 min** at **72C**
- Keep mash **60 min** at **76C**
- Sparge using **20 liter(s)** of **76C** water or to achieve **36.3 liter(s)** of wort

### Fermentables

| Type  | Name                | Amount         | Yield | EBC |
|-------|---------------------|----------------|-------|-----|
| Grain | Strzegom Pilzneński | 4.5 kg (69.2%) | 80 %  | 4   |
| Grain | Pszeniczny          | 2 kg (30.8%)   | 85 %  | 4   |

### Hops

| Use for             | Name              | Amount | Time   | Alpha acid |
|---------------------|-------------------|--------|--------|------------|
| Boil                | Chinook           | 30 g   | 60 min | 13 %       |
| Aroma (end of boil) | Amarillo          | 50 g   | 3 min  | 9.5 %      |
| Boil                | Mandarina Bavaria | 50 g   | 3 min  | 10 %       |
| Aroma (end of boil) | Citra             | 50 g   | 3 min  | 12 %       |
| Aroma (end of boil) | Cascade           | 30 g   | 3 min  | 6 %        |

### Yeasts

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

### Extras

| Type | Name | Amount | Use for | Time |
|------|------|--------|---------|------|
|------|------|--------|---------|------|

|        |                |     |      |       |
|--------|----------------|-----|------|-------|
| Fining | Mech irlandzki | 3 g | Boil | 1 min |
|--------|----------------|-----|------|-------|