

White Xmas CarpeKraft 2017

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **26**
- SRM **4.2**
- Style **Christmas/Winter Specialty Spiced Beer**

Batch size

- Expected quantity of finished beer **23 liter(s)**
- Trub loss **5 %**
- Size with trub loss **24.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29.8 liter(s)**

Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **21 liter(s)**
- Total mash volume **27 liter(s)**

Steps

- Temp **40 C**, Time **0 min**
- Temp **63 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **10 min**

Mash step by step

- Heat up **21 liter(s)** of strike water to **42.9C**
- Add grains
- Keep mash **0 min** at **40C**
- Keep mash **30 min** at **63C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **14.8 liter(s)** of **76C** water or to achieve **29.8 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------|----------------|--------|-----|
| Grain | Strzegom Pale Ale | 3.5 kg (52.2%) | 79 % | 6 |
| Grain | Strzegom Pilzneński | 1 kg (14.9%) | 80 % | 4 |
| Grain | Pszeniczny | 1 kg (14.9%) | 85 % | 4 |
| Grain | Płatki owsiane | 0.5 kg (7.5%) | 85 % | 3 |
| Sugar | Milk Sugar (Lactose) | 0.7 kg (10.4%) | 76.1 % | 0 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|---------|--------|--------|------------|
| Boil | Marynka | 30 g | 60 min | 10 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|--------------|------|-------|--------|------------|
| Safale US-05 | Ale | Slant | 200 ml | --- |

Extras

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

| | | | | |
|-------|----------|------|------|--------|
| Spice | cynamon | 2 g | Boil | 15 min |
| Spice | goździki | 10 g | Boil | 15 min |
| Spice | kardamon | 10 g | Boil | 15 min |
| Spice | curacao | 20 g | Boil | 15 min |