

# Happy Saison

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- Gravity **11.9 BLG**
- ABV **4.8 %**
- IBU **27**
- SRM **4.1**
- Style **Saison**

## Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **25.2 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **30.4 liter(s)**

## Mash information

- Mash efficiency **70 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

## Steps

- Temp **64 C**, Time **40 min**
- Temp **72 C**, Time **20 min**

## Mash step by step

- Heat up **18 liter(s)** of strike water to **71.3C**
- Add grains
- Keep mash **40 min** at **64C**
- Keep mash **20 min** at **72C**
- Sparge using **18.4 liter(s)** of **76C** water or to achieve **30.4 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg (83.3%)	81 %	4
Grain	Strzegom Wiedeński	1 kg (16.7%)	79 %	10

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Citra	20 g	60 min	12 %
Boil	Tettnang	30 g	10 min	4 %
Boil	Tettnang	20 g	0 min	4 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Farmhouse	Ale	Dry	11 g	LalBrew

## Extras

Type	Name	Amount	Use for	Time
Spice	kolendra	20 g	Boil	10 min