

# PHEXP

- Gravity **13.1 BLG**
- ABV **5.3 %**
- IBU **27**
- SRM **4.2**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **24 liter(s)**
- Trub loss **5 %**
- Size with trub loss **26.4 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **31.7 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **24.5 liter(s)**
- Total mash volume **31.5 liter(s)**

## Steps

- Temp **64 C**, Time **40 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **24.5 liter(s)** of strike water to **70.3C**
- Add grains
- Keep mash **40 min** at **64C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **14.2 liter(s)** of **76C** water or to achieve **31.7 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Castle Malting - Pilsneński 6-rzędowy	5 kg (71.4%)	80 %	5
Grain	Płatki owsiane	2 kg (28.6%)	60 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Whirlpool	PHEXP2	100 g	30 min	8.1 %
Dry Hop	PHEXP2	100 g	3 day(s)	8.1 %

## Yeasts

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

## Notes

- Zacieranie:  
25 l woda Primavera  
+5 ml kwas fosforowy 75%  
+10 ml chlorek wapnia 33%  
+1 g siarczan magnezu
- Wystadzenie:  
10 L wody + 2 ml kwasu fosforowego

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