

# MPPD2020

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- Gravity **16.4 BLG**
- ABV **6.9 %**
- IBU **44**
- SRM **4.3**
- Style **American IPA**

## Batch size

- Expected quantity of finished beer **21 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **26.5 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **20.4 liter(s)**
- Total mash volume **27.2 liter(s)**

## Steps

- Temp **68 C**, Time **45 min**
- Temp **72 C**, Time **20 min**
- Temp **78 C**, Time **10 min**

## Mash step by step

- Heat up **20.4 liter(s)** of strike water to **76C**
- Add grains
- Keep mash **45 min** at **68C**
- Keep mash **20 min** at **72C**
- Keep mash **10 min** at **78C**
- Sparge using **12.9 liter(s)** of **76C** water or to achieve **26.5 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg (73.5%)	81 %	4
Grain	Płatki pszeniczne	1 kg (14.7%)	85 %	3
Grain	Płatki owsiane	0.8 kg (11.8%)	85 %	3

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Nelson Sauvín	50 g	15 min	11 %
Whirlpool	Nelson Sauvín	50 g	30 min	11 %

## Yeasts

Name	Type	Form	Amount	Laboratory
Wlp4627- Funktown Pale Ale	Ale	Liquid	1000 ml	wlp