

# MoonHell

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- Gravity **11.2 BLG**
- ABV **4.5 %**
- IBU **15**
- SRM **3.4**
- Style **Munich Helles**

## Batch size

- Expected quantity of finished beer **20 liter(s)**
- Trub loss **5 %**
- Size with trub loss **21 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **25.3 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **15.4 liter(s)**
- Total mash volume **19.8 liter(s)**

## Steps

- Temp **55 C**, Time **0 min**
- Temp **62 C**, Time **20 min**
- Temp **72 C**, Time **30 min**
- Temp **76 C**, Time **10 min**

## Mash step by step

- Heat up **15.4 liter(s)** of strike water to **60C**
- Add grains
- Keep mash **0 min** at **55C**
- Keep mash **20 min** at **62C**
- Keep mash **30 min** at **72C**
- Keep mash **10 min** at **76C**
- Sparge using **14.3 liter(s)** of **76C** water or to achieve **25.3 liter(s)** of wort

## Fermentables

| Type  | Name                        | Amount         | Yield | EBC |
|-------|-----------------------------|----------------|-------|-----|
| Grain | Pilzneński                  | 4 kg (90.9%)   | 81 %  | 4   |
| Grain | Weyermann - Carapils        | 0.35 kg (8%)   | 78 %  | 4   |
| Grain | Weyermann - Acidulated Malt | 0.05 kg (1.1%) | 80 %  | 6   |

## Hops

| Use for | Name      | Amount | Time   | Alpha acid |
|---------|-----------|--------|--------|------------|
| Boil    | Marynka   | 10 g   | 60 min | 10 %       |
| Boil    | Hallertau | 15 g   | 15 min | 4.5 %      |

## Yeasts

| Name                   | Type  | Form   | Amount | Laboratory |
|------------------------|-------|--------|--------|------------|
| Biowar Pilsner Urquell | Lager | Liquid | 200 ml | ---        |

## Notes

- - Po przerwie 62C dekokt 7L gotowanie 15min

- Fermentacja 10C  
*Aug 29, 2018, 11:04 AM*