

## West Coast high noon 2 PK

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- Gravity **13.8 BLG**
- ABV **5.7 %**
- IBU **29**
- SRM **5.6**
- Style **American IPA**

### Batch size

- Expected quantity of finished beer **15 liter(s)**
- Trub loss **5 %**
- Size with trub loss **15.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **19 liter(s)**

### Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **14 liter(s)**
- Total mash volume **18 liter(s)**

### Steps

- Temp **55 C**, Time **1 min**
- Temp **66 C**, Time **60 min**
- Temp **76 C**, Time **0 min**

### Mash step by step

- Heat up **14 liter(s)** of strike water to **60C**
- Add grains
- Keep mash **1 min** at **55C**
- Keep mash **60 min** at **66C**
- Keep mash **0 min** at **76C**
- Sparge using **9 liter(s)** of **76C** water or to achieve **19 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3 kg (75%)	85 %	7
Grain	Pilsner Malz Best	0.5 kg (12.5%)	81 %	3
Grain	Münchner Malz Best	0.5 kg (12.5%)	78 %	20

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	5 g	60 min	15.5 %
Aroma (end of boil)	Simcoe	5 g	5 min	14.5 %
Aroma (end of boil)	Citra	5 g	5 min	11.6 %
Aroma (end of boil)	Cascade	5 g	5 min	5.8 %
Whirlpool	Simcoe	10 g	20 min	14.5 %
Whirlpool	Citra	10 g	20 min	11.6 %
Whirlpool	Cascade	10 g	20 min	5.8 %
Dry Hop	Simcoe	20 g	2 day(s)	14.5 %
Dry Hop	Citra	20 g	2 day(s)	11.6 %
Dry Hop	Cascade	20 g	2 day(s)	5.8 %

## Yeasts

Name	Type	Form	Amount	Laboratory
BRY-97 American West Coast	Ale	Slant	500 ml	Danstar

## Extras

Type	Name	Amount	Use for	Time
Water Agent	Gips piwowarski	3 g	Mash	---
Water Agent	Kwas mlekowy	2 g	Mash	---