

# Listermann Brewery Supply

## American Pale Ale

### Instruction Sheet

**Original Gravity: 1.058**

**44 IBUs**

**Ingredients Included:**

4 lbs. of Canadian light syrup  
4 lbs of English malt syrup  
0.25 lbs. 60 L Crystal Malt  
1 oz Nugget Hops (Bittering)  
0.5 oz Cascade Hops (Flavoring)  
1.0 oz Cascade Hops (Aroma)  
0.5 oz Cascade Hops (Dry)  
5 oz ( 3/4 cup ) priming sugar  
1 packet of Nottingham Ale yeast  
1 Hop Bag  
1 Grain bag  
55 crown caps

**Supplies Needed:**

Sanitizer powder

**Equipment Required:**

12 qt. or larger pot  
thermometer - freezing to boiling  
a large stirring spoon  
fermenter - six gallon minimum, with drilled lid  
airlock with stopper  
55 12oz. bottles

**Procedure:**

Pour the grain grist into the grain bag and knot or tie shut. Pour about 2 gallons of water into the pot, add the grain bag and start to heat on a stove. When the temperature of the water reaches 150°F, reduce heat and allow it to simmer for 30 minutes. Do not allow the temperature to rise above 160°F. Reduce with cold water if necessary. Occasionally lift the bag, allow it to drain and return to the water. After simmering, remove the bag and allow to drain over the pot. Do not squeeze.

Increase temperature until boiling is reached and remove pot from the heat. Stir the extract syrup into the pot until dissolved. Pour the 1 oz of Nugget hop pellets into a small hop bag, tie shut and add to the pot. Return the pot to heat and boil for 45 minutes. Watch for boil over- they will happen. Keep a glass of cold water close by to pour in if a boil over happens. Pour 0.5 oz Cascade hops into the pot and boil additional 15 minutes. Pour 1.0 oz Cascade hops into the pot, shut off the heat, and allow to steep in the hot liquid for 10 minutes.

Remove the hop bag and cool the pot of wort (unfermented beer) by immersing it in a sink or tub of cold water. The water will need to be changed periodically as it warms. Ice can be added to the sink toward the end of the cooling to speed the process.

Make up a solution of sanitizer by mixing a teaspoon of sanitizing powder with water in the jar. Sanitize the fermenter by pouring a couple of cups of solution and sloshing it around until all surfaces are wetted. Rinse the fermenter twice.

When the wort is cooled to about 100°F, pour it into the fermenter and fill with tap water to the five gallon level. The temperature should be between 65° and 75°F. Open the yeast package and pour it in. Violently stir (whip) the wort with a sanitized spoon to aerate.

Wipe the lid with sanitizer and rinse. Fit the lid to the fermenter and fit the sanitized air lock, half-filled with water to the lid's hole.

Place the fermenter in a place where the temperature will be between 65° and 75°F. In 12 to 24 hours the air lock should start to bubble and a thick foam will form on the surface of the wort. After 4 to 5 days, add the 0.5 oz of Cascade hops to the fermenter. Over 5 to 7 days, the bubbles will slow to about one every other minute and the foam will start to disappear. (Note: It is not unusual for the fermentation to be complete very quickly, 1-2 days, especially if the temperature is warm.) Always wait until the foam is gone before proceeding to bottling. There is no need to rush to bottling: the beer will be fine if left in the carboy for several weeks.