



We invented the popcorn machine, THEN JUST KEPT GOING!

## THE CONTENTS OF VAPOR LEAVING A POPPER

### BASIC EQUATION

- 12% of the weight of raw corn is water vapor.
- 3% of the weight of the oil in the kettle is lost in vapor or smoke.
- The maximum temperature of the vapor of smoke is 100°F.
- 4 minute popping cycle would allow max of 15 cycles per hour (represents maximum # of possible poppings – this is NOT typical).

### Using the Basic Equation the Following is True in a 20 oz. Popper

- 1.25 lbs of raw corn are used per batch.
- 18.75 lbs of raw corn are used per hour.
- 12% of 18.75 lbs is equal to 2.25 lbs of water per hour lost in vapor.
- 6.5 oz. of oil are used per batch.
- 98 oz. of oil are used per hour.
- 3% of 98 oz. is equal to 2.94. oz of oil per hour lost in vapor.

### Using the Basic Equation the Following is True in a 32 oz. Popper

- 2 lbs of raw corn are used per batch.
- 30 lbs of raw corn are used per hour.
- 12% of 30 lbs is equal to 3.6 lbs of water per hour lost in vapor.
- 10.5 oz. of oil are used per batch.
- 158 oz. of oil are used per hour.
- 3% of 158 oz. is equal to 4.74 oz. of oil per hour lost in vapor.

### Using the Basic Equation the Following is True in a 48 oz. Popper

- 3 lbs of raw corn are used per batch.
- 45 lbs of raw corn are used per hour.
- 12% of 45 lbs is equal to 5.4 lbs of water per hour lost in vapor.
- 16 oz. of oil are used per batch.
- 240 oz. of oil are used per hour.
- 3% of 240 oz. is equal to 7.2 oz. of oil per hour lost in vapor.

### Using the Basic Equation the Following is True in a 60 oz. Popper

- 3.75 lbs of raw corn are used per batch.
- 56.25 lbs of raw corn are used per hour.
- 12% of 56.25 lbs is equal to 6.75 lbs of water per hour lost in vapor.
- 20 oz. of oil are used per batch.
- 300 oz. of oil are used per hour.
- 3% of 300 oz. is equal to 9 oz. of oil per hour lost in vapor.

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