



# ALLOY HARDFACING

*Evolving to meet YOUR Needs....*



## Expansion Domes



- Increase Capacity
- Increase Efficiency
- Reduce Carryover



### Added Capacity



**A**lloy Expansion Domes permit you to increase the fill level of your cooker all the way to the filler neck. The net result is increased throughput due to an increased boil off rate while also increasing boil off efficiency saving you energy.



**T**he Expansion Dome is easily retrofitted to your existing Cooker, taking the place of your current extension filler neck.



**E**xpansion Dome customers report the ability to fill their vessels with *upto fifty percent more material* while *only increasing cook times by approximately fifteen percent.* *“It’s like adding cooking capacity without adding steam or condensate piping a motor or other components, which require maintenance.”*



### Added Efficiency

**E**xpansion Domes deliver a “one-two punch”

**B**y providing a flash area Expansion Domes provide an area for vaporized moisture to escape before coming in contact with other materials and recondensing.

**B**y allowing increased fill capacity, more materials remain in contact with the heat transfer area of the cooker as the product volume reduces during the cook cycle.

**T**his is the one-two punch necessary to keep your process efficient and competitive!!

### Constructed to Last

**T**o avoid corrosion from cooking vapors, the Dome is constructed using a *Stainless Steel* head and heavy carbon steel plate for the side bodies and cone that will last for many years.

**F**or processes with high acid levels Alloy offers the option for Domes to be constructed entirely of *Stainless Steel*.

### Customized:

**A**lloy customizes our Domes to meet your building and product needs. The Dome can be changed in terms of diameter, height and angle of cone as well as a fill and vapor removal options to make them fit your operation and cooking style.

**I**f your process requires pressurization (hydrolyzing) Alloy offers the Expansion Dome as a certified pressure vessel to meet A.S.M.E. and other regional or national code requirements.

## Alloy Hardfacing & Engineering Co., Inc.

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**Increased Capacity**

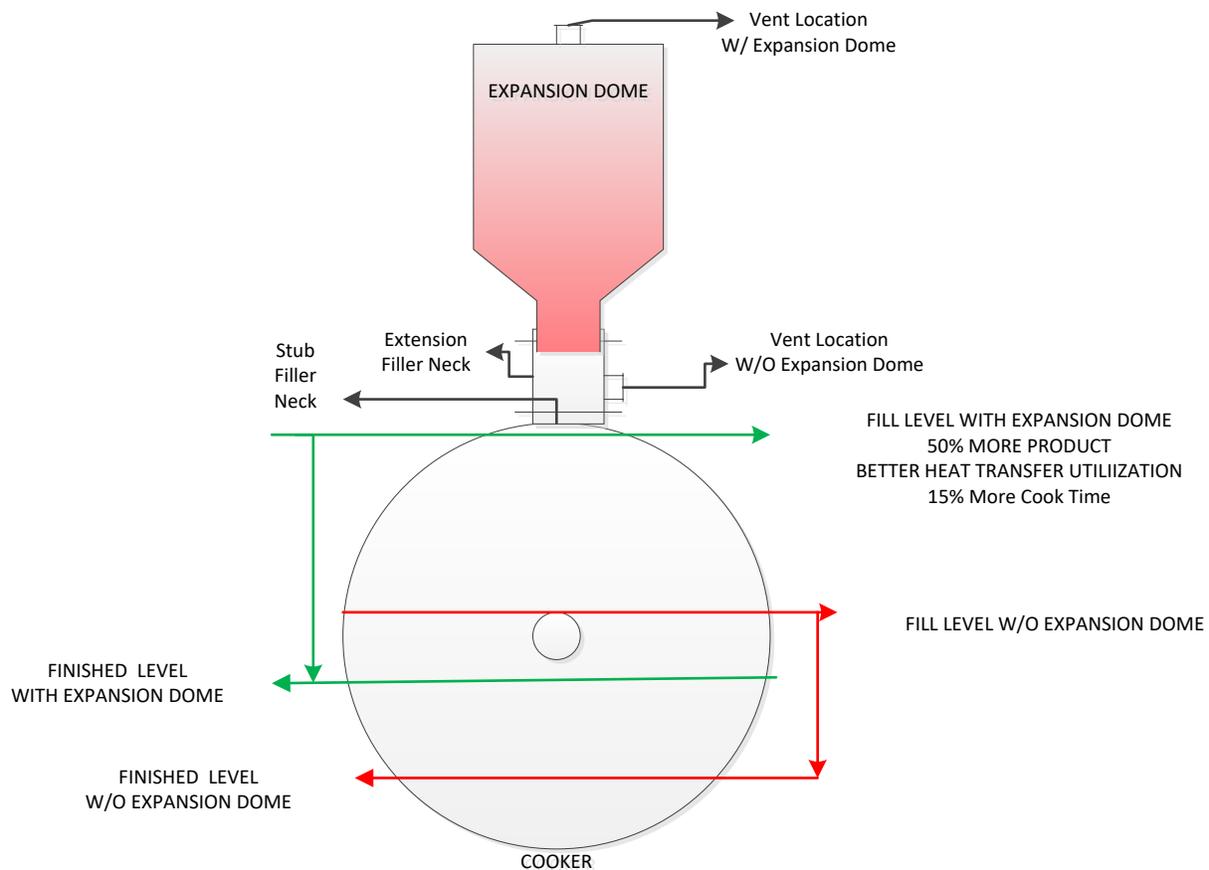
*Fill your cooker to the filler neck instead of only 2/3 full. Reduce the number of fills required to process the same volume of material.*

**Improve Efficiency**

*Increase your boil off efficiency by permitting the vaporized moisture to flash into the dome rather than recondense.*

**Improve Utilization:**

*Gain on utilization of heat transfer area as material volume decreases.*



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