

TANK Coverage – Fryer Protection

Fire System Technical Bulletin

FTB22-1006

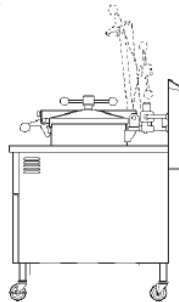
Updated December 14, 2023

Background:

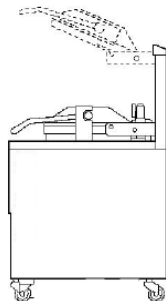
The UL300 Standard: *Fire Testing of Fire Extinguishing System for Protection of Commercial Cooking Equipment* does not include a test protocol for all possible fryer sizes and dimensions. As such, requirements do not appear in the Model TANK Fire Suppression Extinguishing System Installation, Operation, and Maintenance Manual (TANK OIM) for each type. CaptiveAire Systems, Inc, manufacturer of model TANK-FS, provides the following supplemental information serving to outline the recommended TANK coverage for these appliances.

Details:

- Round fry vats – Vats up to 14” in diameter can be protected using standard 36” overlapping coverage (4 FP per nozzle). Larger diameters up to 34” with a capacity of no more than 24.75 gallons should be protected using 30” overlapping coverage (5 FP per nozzle).
- Hinged Lid Pressure fryers – Standard fryer overlapping coverage appropriate to the size of the fry vat can be used if the lid opens automatically once it is unlatched from the normal cooking position, is fully out of the way, and does not obstruct the nozzle flow. If the open lid does not meet these requirements, the fryer should be protected like a rail type lidded fryer.



- Rail type lidded pressure fryers or other fryers whose lids do not open fully out of the way – Overlapping fryer coverage with maximum 30” spacing and nozzles positioned to each side of the lid to avoid obstruction of nozzle flow should be used. Where there is a bank of fryers, it is not necessary to position two nozzles between adjacent fryers to satisfy the requirement for nozzles positioned on each side of the lid. A single unobstructed nozzle between adjacent fryers, and an unobstructed nozzle at each end, all nozzles with maximum 30” spacing provides sufficient coverage.



The information contained in this bulletin is not intended to replace the requirements and limitations outlined in the TANK OIM. All protection must be in accordance with local codes and acceptable to the Authority Having Jurisdiction.