

Infuze Cooker heart of the SilverLine

"Simplicity is the key to good design"

THE INFUZE COOKER

What No One Knew

You can't put a camera into a steam chamber, so nobody understood how steam cooking really worked. That is until Hydro-Thermal invested heavily in both time and money to research this innovative cooking and pasteurizing technique. Through a 5-year study in conjunction with the University of Wisconsin, we discovered that everything we thought we knew - was wrong.

What We Discovered

There is a way to reliably control the condensation of steam, which if unchecked will cause steam hammer and the wild vibrations that are seen in other steam injection devices. We also found that it is possible to hold temperature within ±0.5°C (±1°F), even through flow and pressure changes. Finally, we discovered the secret to repeatably controlling the shear forces that are imparted on the product.

What We Built

You need only look into the heart of the SilverLine to see it's genius. It may look simple, but thousands of research, engineering and testing hours have been alloyed to form the most versatile steam cooker in the world. Forged into the Infuze™ Cooker is variable shear capability, tight temperature control, versatile response to changes, and the high quality inherent in all Hydro-Thermal products.



TECHNICAL DETAILS

Available Diffuser Patterns (DN-cm² in.- in²)

		XS		S		М		L		XL	
Model	Size	Area	Holes								
Z215	DN40	0.29	36	0.58	72	1.17	144	1.75	216	2.33	288
	1.5"	0.05		0.09		0.18		0.27		0.36	
Z220	DN50	0.48	60	0.97	120	1.94	240	2.92	360	3.89	480
	2″	0.08		0.15		0.30		0.45		0.60	
Z230	DN80	0.81	100	1.62	200	3.24	400	4.96	612	6.58	812
	3″	0.13		0.25		0.50		0.77		1.02	
Z240	DN100	1.22	2.43		4.86		7.29		9.73		
	4"	0.19	150	0.38	300	0.75	600	1.13	900	1.51	1200

Options

Metals	Connectors						
316L	Tri-clamp						
Other materials or connection types							

available upon request.

Model Specifications

Maximum (per cooker) **DN40** DN50 DN80 **DN100** 13.0 16.3 22.9 33.5 PARTICLE SIZE (SPHERICAL DIAMETER) 0.51 0.90 1.32 0.64 TEMPERATURE RISE (NO PARTICLES) 50ºC 88ºF TEMPERATURE RISE (UP TO 25%) 35ºC 63ºF 25ºC TEMPERATURE RISE (25% TO 50%) 45ºF

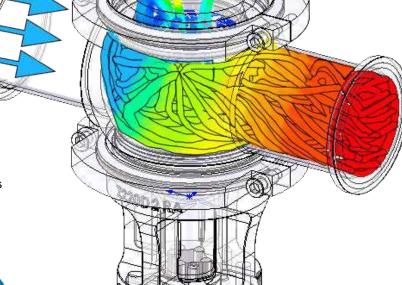
> Products with or without particles enter cooker

> > **EXONDER**

Theory of Operation

The Infuze Cooker creates such tight temperature control by modulating the area of steam penetration, which results in:

- Very fast temperature compensation after process changes
- Decoupling temperature control from pressure control
- Unprecedented regulation of flavor and texture profiles
- Via Torre, 2
- 28040 Borgo Ticino (NO) Italy
- +39 0321 908466
- customercare@exonder.it
- # https://www.exonder.it



Steam enters cooker at

6.9 barg (100 psig)