



DLST/L Series

De Lama DLST/L ovens are cGMP designed to meet the widest requirements of the Pharmaceutical Industry and to perform following treatments:

sterilization: reduction of microorganisms and their by-product up to 12 log (temperature range: 160-180°C)

depyrogenation: destruction of pyrogens and end endotoxins inside the materials (temperature range: 220-250°C)

For treatment of solid heat-proof materials (empty glassware and metal materials), materials sensitive to humidity, thermostable basic pharmaceutical products and chemical compounds, non-aqueous liquid materials (e.g. oils, glycerines, etc.).

Sterilizer high flexibility in design, layout configuration, chamber sizing along with relevant load handling systems, conform with any specific User's requirement. Components are of the highest quality and reliability, world wide available for easy replacement and assure the equipment longest lifetime.

Standard and customized models.

Operating Temperature ranges Between 250°C (standard design) and 300°C according to Customer's request.

Sizes available from 500 lts. to 5,000 lts.

In compliance with :

cGMP, U.S. Federal Standard No.209/E, EN 1822, ISO 14644/1/2, EUROVENT, FDA, GAMP, "Parenteral Drug Association" Technical Reports, EMC 89/336/EC, 93/68/EC, 73/23/EC.

Main applications:

- Empty glassware: e.g. vials/ampoules, glass bottles, etc.
- Metal trays
- Metal containers
- Metal machine accessories/parts
- Materials sensitive to humidity
- Thermostable basic pharmaceutical products and chemical compounds
- Non-aqueous liquids : e.g. oils



DRY HEAT OVENS, LAMINAR FLOW, CLASS 100 DLST/L

MODEL	CAPACITY	CHAMBER INTERNAL DIMENSIONS			INSTALLED POWER	LOADING CAPACITY	
		HEIGHT mm	WIDTH mm	DEPTH mm		Ampules 2ml No.	Vials 10ml No.
DLST/L 10-08	544	800	800	850	28	24840	11340
DLST/L 10-10	640	800	800	1000	28	31500	14500
DLST/L 20-10	800	1000	800	1000	30	44100	18850
DLST/L 20-12	1000	1000	800	1250	30	56420	24750
DLST/L 20-15	1200	1000	800	1500	44	67340	29490
DLST/L 30-10	1080	1200	900	1000	30	57800	28560
DLST/L 30-15	1620	1200	900	1500	46	84100	41620
DLST/L 40-10	1200	1200	1000	1000	30	61830	29920
DLST/L 40-15	1800	1200	1000	1500	46	94720	46520
DLST/L 50-10							
DLST/L 50-12	1350	1500	900	1000	42	75770	35200
DLST/L 50-15	1688	1500	900	1250	44	96100	44880
DLST/L 50-20	2025	1500	900	1500	65	115640	53860
DLST/L 50-22	2700	1500	900	2000	78	157000	73920
DLST/L 50-25	3038	1500	900	2250	79	178070	81840
DLST/L 50-25	3375	1500	900	2500	89	197610	92400
DLST/L 60-10	1500	1500	1000	1000	42	84480	37760
DLST/L 60-12	1875	1500	1000	1250	44	108240	50160
DLST/L 60-15	2250	1500	1000	1500	65	130240	60200
DLST/L 60-20	3000	1500	1000	2000	78	174240	80260
DLST/L 60-22	3375	1500	1000	2250	80	200640	90290
DLST/L 60-22	3750	1500	1000	2500	89	221760	101640
DLST/L 60-22	4050	1500	1000	2700	89	242880	110360



DLST/L 60-25							
DLST/L 60-27							
DLST/L 70-16							
DLST/L 70-20	2880	1500	1200	1600	65	193360	77620
DLST/L 70-25	3600	1500	1200	2000	79	214500	99800
DLST/L 70-27	4500	1500	1200	2500	101	274700	129360
DLST/L 70-27	4860	1500	1200	2700	101	297530	140450

The long experience of De Lama is expressed in the design and manufacture of highly functional devices that are able to achieve high standards of efficiency and reliability: among these are the oven sterilizers for a depyrogenation which is also able to offer interesting and advantageous opportunities for customization.