

HEATING BLANKET

DATASHEET



HEATING MANTLE FOR GLASS BIOREACTORS

Efficient temperature control is essential for optimizing microbial or cellular growth, metabolic activity, and product yield. One of the innovative solutions to achieve this is the use of heating mantle specifically designed for glass bioreactors.

MATERIAL COMPOSITION

Heating mantle are made from flexible, durable materials that can withstand chemical exposure and high temperatures. Are designed with a silicone and polymer outer layer that protects the heating elements while ensuring even heat distribution.

TEMPERATURE CONTROL

Heating mantle come with adjustable temperature settings, allowing users to set and maintain the desired temperature for their specific bioprocessing needs. Include overtemperature safety thermostat.

SIZE

Heating mantle are available in various sizes to fit different scales of glass bioreactors, from small lab-scale models to large units. Custom configurations can be created to suit unique setups, including multi-vessel arrangements.

SAFETY

Modern heating mantle are designed to be powered by 48 V energy-efficient, minimizing power consumption while providing adequate safety for the operator.

	HM-100W-SQ-500	HM-150W-SQ-1L	HM-250W-SQ-2L	HM-300W-SQ-3L	HM-350W-SQ-5L	HM-350W-SQ-7L	HM-400W-SQ-10L
VESSEL	500ml	1L	2L	3L	5L	7L	10L
VESSEL DIAMETER	90	90	115	140	155	165	190
HEIGHT	70mm	120mm	170mm	185mm	220mm	265mm	320mm
LENGTH	270mm	275mm	310mm	395mm	470mm	505mm	550mm
WIDTH	60	60	70	70	70	80	90
Connection	1.5 m cable and connector IP67						
Temperature control	Up to 80 °C						
Stability	0.5 °C						
Process Max T	60 °C						

	HM-100W-SQ-500	HM-150W-SQ-1L	HM-250W-SQ-2L	HM-300W-SQ-3L	HM-350W-SQ-5L	HM-350W-SQ-7L	HM-400W-SQ-10L
ELECTRICAL CHARACTERISTICS							
Voltage	48V	48V	48V	48V	48V	48V	48V
Power (±10%)	100W	150W (±10%)	250W	300W	350W	350W	400W
Electrical resistance	23,04 ohm (20,95÷25,60)	15,36 ohm (13,96÷17,07)	9,22 ohm (8,78÷10,24)	7,68 ohm (7,31÷8,53)	6,58 ohm (6,27÷7,31)	6,58 ohm (6,27÷7,31)	5,76 ohm (5,49÷6,40)
Dielectric strength	500Vxls	500Vxls	500Vxls	500Vxls	500Vxls	500Vxls	500Vxls
Insulation class	1	1	1	1	1	1	1
BLANKET PHYSICAL CHARACTERISTICS							
Thickness	1,9mm (isolante base)						
Maximum temperature	180°C						
Minimum temperature	-60°C						
REGULATORY CHARACTERISTICS							
Certifications / Approvals	CE (2014/35/UE)						
RoHS	Conforme						
Dimensional tolerances	UNI EN ISO 22768 - C						
Reference standards	EN 60335-1 - EN50106						

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