

Rat Plethysmography Chamber



Features:

- Quiet and secure latching mechanism reduces animal disturbances.
- Neck sealing material available in pre-cut diameters for use with varying sized rats.
- Quickset pusher mechanism provides feedback to user to ensure proper loading of test subject.
- Quickset pusher allow for faster test subject load times.
- Single screen pneumotachograph eliminates the need to overlap multiple screens while providing optimal resistance.
- Plethysmograph chamber sold in three main parts allowing customers to order only sections of the chamber needing to be replaced.

Technical Data Sheet

Model 600-2100-001

Rat Plethysmograph Chamber

Combined with DSI Telemetry and Ponemah Sync:

- Researchers are equipped to obtain pleural pressure measurements and thus assess resistance and compliance of lung function.
- Alternatively, with the combination of telemetry and hardwired signals, the system can be used to acquire cardiovascular and respiratory endpoints in a single study.

Reference: Murphy DJ, Renninger JP, Gossett KA. A Novel Method for Chronic Measurement of Pleural Pressure in Conscious Rats. Journal of Pharmacological and Toxicological Methods 39, 137-141 (1998)



SPECIFICATIONS

- Chamber tube is constructed of a durable clear acrylic measuring 4" OD and 3.53" ID.
- Accommodates standard laboratory rats weighing up to approximately 400 grams.
- Neck Seals with pre-cut holes:
 - Polyurethane 0.95 and 0.80 inch diameters
 - Silicone 1.25, 1.12, 1.0, 0.87, and 0.75 inch diameters
- 2 Pressure Transducer ports and 3 ancillary chamber ports.

ORDERING INFORMATION

Part Number	Description
600-2100-001	Rat Plethysmograph chamber
Accessories	
600-1000-001	Replacement pneumotachograph screens
600-1100-001	Validyne Pressure Transducer DP-45, +/- 2.25CMH ₂ O use with 13-7715-35
600-1102-001	Validyne Pressure Transducer DP-250, +/- 2.25CMH ₂ O use with 13-7715-35
600-2110-001	Chamber, Front Assembly only
600-2111-001	Chamber, Rear Assembly only
600-2112-001	Internal Pusher Assembly
600-2113-001	Accessory kit (included with 600-2100-001). Includes an assortment of stoppers, tubing, seals, caps, etc.
600-2114-001	Neck Seal (Polyurethane) 0.80 Dia., Qty25
600-2114-002	Neck Seal (Polyurethane) 0.95 Dia., Qty25
600-2115-001	Neck Seal (Silicone) 0.75 Dia., Qty25
600-2115-002	Neck Seal (Silicone) 0.87 Dia., Qty25
600-2115-003	Neck Seal (Silicone) 1.00 Dia., Qty25
600-2115-004	Neck Seal (Silicone) 1.12 Dia., Qty25
600-2115-005	Neck Seal (Silicone) 1.25 Dia., Qty25
600-2116-001	O-Ring Gaskets (Small)
600-2116-002	O-Ring Gaskets (Large)

Specifications are current at publication. Due to DSI's continuing product improvement program, specifications may change without notice.

DSI products are not intended for the purposes of diagnosis of disease or other conditions, or in the cure, mitigation, treatment, or prevention of disease, or used as a life support device. Use of DSI products are solely for the purposes of conducting life science research.