

# DepyroPro

## Class 5 & 7 Depyrogenation / Dry Heat Sterilization



### Vivarium Sterilization

#### Supporting a safe and controlled vivarium environment

Maintaining a contamination-free vivarium environment is essential for protecting both animals and staff, and for ensuring the accuracy of research outcomes. DepyroPro dry heat sterilizers support a controlled vivarium environment by effectively eliminating harmful pathogens through efficient bulk sterilization of animal cages, bedding, and equipment.

### Industrial-Grade PLC Control System

#### Reliable and user-friendly controls for repeatable process performance

Sterilization is critical for maintaining a safe and controlled environment. The DepyroPro is equipped with non-proprietary Allen-Bradley or Siemens PLC controls, minimizing machine downtime, improving serviceability, and ensuring repeatable performance for reliable operation.

Large, user-friendly touch screen controls clearly display all cycle status and parameters. Pass-through models are equipped with a secondary touch display installed on the unload (clean) side that provides basic control and cycle status.

Additional features include, configurable cycles, visual and acoustic alarms, live trending of cycle data, delayed start-stop functions, service diagnostics, and batch documentation.

### Protecting the quality of your work & the safety of your staff

Pharmaceutical, biotech, and laboratory research facilities worldwide depend on the DepyroPro for ISO class 5 and 7 depyrogenation and dry heat sterilization up to 290°C, ensuring the complete destruction of microorganisms while safeguarding product quality, research integrity, and staff.

#### COMMON APPLICATIONS

- Depyrogenation and sterilization of empty glass ampoules, vials, and injection bottles.
- Depyrogenation and sterilization of metal trays, containers, and device parts.
- Bulk sterilization of animal cages, bedding, and laboratory equipment.
- Sterilization of closed bottles containing low aqueous liquids or powder substances.



#### KEY FEATURES

- Standard chamber volumes of 700L up to 4500L. *Custom chamber sizes available to meet your specific requirements.*
- All stainless steel construction, including the chamber, doors, device frame, and jacket.
- Fully welded chamber and doors.
- Double silicone door gaskets for tight seal.
- Double automatic door locks for maximum process safety.
- Single-door and pass-through clean room models available.
- User-friendly, industrial-grade PLC controls.
- Powerful heating elements, forced air cooling via internal overpressure blower and 6" thick insulation enable rapid heating and cooling, reducing cycle duration and operating costs.
- HEPA filters installed on the air inlet and exhaust, including internal HEPA filters for compliance with ISO class 5 & 7.
- PT100 temperature sensors for accurate temperature measurements.
- IQ/OQ and GAMP documentation.
- Custom loading carts and trolleys available.
- Wide range of accessories and options.

### ISO Class 5 & 7 Depyrogenation

#### ISO 14644-1 class 5 up to 290°C and class 7 up to 300°C over the full cycle duration

Depyrogenation eliminates bacterial endotoxins (pyrogens) through the use of dry heat at sustained temperatures of 250°C - 300°C over a controlled period of time. ISO 5 and 7 classifications define the number of airborne particles that may be present inside the chamber or clean room. ISO class 5 must have less than 3,520 particles (0.5 micrometers or larger) per cubic meter, while ISO class 7 is limited to 352,000 particles (0.5 micrometers or larger) per cubic meter.

#### DEPYROPRO ISO CLASS 5 (100)

- Complies with regulation on clean rooms according to ISO 14644-1.
- Guarantee of compliance with ISO Class 5 in all sterilization chamber zones.
- Working temperature up to 290°C.
- Fully welded chamber and doors.
- Door(s) sealed with double silicones gaskets.
- Two-stage class E11 & H13 HEPA filters installed on the air inlet. Class H13 HEPA filters installed on the exhaust.
- Heat-resistant internal HEPA filters (class H13) and smooth airflow regulation reduce particles during all cycle phases.

#### DEPYROPRO ISO CLASS 7 (10,000)

- Complies with regulation on clean rooms according to ISO 14644-1.
- Guarantee of compliance with ISO Class 7 in all sterilization chamber zones.
- Working temperature up to 300°C.
- Fully welded chamber and doors.
- Door(s) sealed with double silicones gaskets.
- Two-stage class E11 & H13 HEPA filters installed on the air inlet. Class H13 HEPA filters installed on the exhaust.

Model	Volume (approx.)(L)	Dimensions (H x W x D)(mm / inches)		Weight (kgs / lbs.)	Number of shelf guides on loading cart	Loading cart shelf spacing when evenly distributed (mm / inches)	Maximum tray load (kg / lbs.)	Maximum shelf load (kg / lbs.)	Maximum overall load (kg / lbs.)	Maximum device power input (kW)	Working temperature (°C / °F)	Minimum heating time to 250°C / min-empty chamber (seconds)	Max. temp. variation in time (acc. to DIN 12 880)(°C)	Max. temp. deviation in space (acc. to DIN 12 880)(°C)	Heat radiated to environment @ 250 °C cca (W)	Corresponds to ISO 14644-1
		Exterior	Interior													
4500-1	4500	3052 x 2540 x 3320 120" x 100" x 131"	1500 x 1030 x 2920 59" x 41" x 115"	3650 / 8047	12	105 / 4.1"	19 / 42	38 / 84	1300 / 2866	80	300 / 572	95	±1	±5	7700	Class 5
4500-2	4500	3052 x 2540 x 3320 120" x 100" x 131"	1500 x 1030 x 2920 59" x 41" x 115"	3750 / 8267	12	105 / 4.1"	19 / 42	38 / 84	1300 / 2866	80	300 / 572	95	±1	±5	7700	Class 5
3900-1	3900	3052 x 2410 x 3320 120" x 95" x 131"	1500 x 900 x 2920 59" x 35" x 115"	3550 / 7826	12	105 / 4.1"	19 / 42	38 / 84	1300 / 2866	80	300 / 572	85	±1	±5	7500	Class 5
3900-2	3900	3052 x 2410 x 3320 120" x 95" x 131"	1500 x 900 x 2920 59" x 35" x 115"	3650 / 8047	12	105 / 4.1"	19 / 42	38 / 84	1300 / 2866	80	300 / 572	85	±1	±5	7500	Class 5
2000-1	2000	2727 x 2410 x 1900 107" x 95" x 75"	1500 x 900 x 1500 59" x 35" x 59"	2030 / 4475	15	68 / 2.7"	19 / 42	38 / 84	480 / 1058	50.5	300 / 572	60	±0.5	±2	4300	Class 5
2000-2	2000	2727 x 2410 x 1900 107" x 95" x 75"	1500 x 900 x 1500 59" x 35" x 59"	2130 / 4696	15	68 / 2.7"	19 / 42	38 / 84	480 / 1058	50.5	300 / 572	60	±0.5	±2	4300	Class 5
1500-1	1500	2727 x 2410 x 1540 107" x 95" x 61"	1500 x 900 x 1140 59" x 35" x 45"	1730 / 3814	15	68 / 2.7"	19 / 42	38 / 84	480 / 1058	38.5	300 / 572	60	±0.5	±1.5	3800	Class 5
1500-2	1500	2727 x 2410 x 1540 107" x 95" x 61"	1500 x 900 x 1140 59" x 35" x 45"	1830 / 4035	15	68 / 2.7"	19 / 42	38 / 84	480 / 1058	38.5	300 / 572	60	±0.5	±1.5	3800	Class 5
700-1	700	2077 x 2191 x 1540 82" x 86" x 61"	900 x 732 x 1140 35" x 29" x 45"	1240 / 2734	8	68 / 2.7"	20 / 44	40 / 88	400 / 882	25	300 / 572	55	±0.5	±1.5	2800	Class 5
700-2	700	2077 x 2191 x 1540 82" x 86" x 61"	900 x 732 x 1140 35" x 29" x 45"	1300 / 2866	8	68 / 2.7"	20 / 44	40 / 88	400 / 882	25	300 / 572	55	±0.5	±1.5	2800	Class 5
4500-1	4500	3052 x 2540 x 3320 120" x 100" x 131"	1500 x 1030 x 2920 59" x 41" x 115"	3050 / 6724	12	105 / 4.1"	19 / 42	38 / 84	1300 / 2866	80	300 / 572	80	±1	±5	6700	Class 7
4500-2	4500	3052 x 2540 x 3320 120" x 100" x 131"	1500 x 1030 x 2920 59" x 41" x 115"	3150 / 6945	12	105 / 4.1"	19 / 42	38 / 84	1300 / 2866	80	300 / 572	80	±1	±5	6700	Class 7
3900-1	3900	3052 x 2410 x 3320 120" x 95" x 131"	1500 x 900 x 2920 59" x 35" x 115"	2950 / 6504	12	105 / 4.1"	19 / 42	38 / 84	1300 / 2866	80	300 / 572	70	±1	±5	6500	Class 7
3900-2	3900	3052 x 2410 x 3320 120" x 95" x 131"	1500 x 900 x 2920 59" x 35" x 115"	3050 / 6724	12	105 / 4.1"	19 / 42	38 / 84	1300 / 2866	80	300 / 572	70	±1	±5	6500	Class 7
2000-1	2000	2727 x 2037 x 1900 107" x 80" x 75"	1500 x 900 x 1500 59" x 35" x 59"	1790 / 3946	15	68 / 2.7"	19 / 42	38 / 84	480 / 1058	50.5	300 / 572	45	±0.5	±2	3600	Class 7
2000-2	2000	2727 x 2037 x 1900 107" x 80" x 75"	1500 x 900 x 1500 59" x 35" x 59"	1890 / 4167	15	68 / 2.7"	19 / 42	38 / 84	480 / 1058	50.5	300 / 572	45	±0.5	±2	3600	Class 7
1500-1	1500	2727 x 2037 x 1540 107" x 80" x 61"	1500 x 900 x 1140 59" x 35" x 45"	1490 / 3285	15	68 / 2.7"	19 / 42	38 / 84	480 / 1058	38.5	300 / 572	45	±0.5	±1.5	3100	Class 7
1500-2	1500	2727 x 2037 x 1540 107" x 80" x 61"	1500 x 900 x 1140 59" x 35" x 45"	1590 / 3505	15	68 / 2.7"	19 / 42	38 / 84	480 / 1058	38.5	300 / 572	45	±0.5	±1.5	3100	Class 7
700-1	700	2077 x 1828 x 1540 82" x 72" x 61"	900 x 732 x 1140 35" x 29" x 45"	1140 / 2513	8	68 / 2.7"	20 / 44	40 / 88	400 / 882	25	300 / 572	45	±0.5	±1.5	2300	Class 7
700-2	700	2077 x 1828 x 1540 82" x 72" x 61"	900 x 732 x 1140 35" x 29" x 45"	1160 / 2557	8	68 / 2.7"	20 / 44	40 / 88	400 / 882	25	300 / 572	45	±0.5	±1.5	2300	Class 7

\*Custom chamber sizes available upon request to meet your specific room layout and load configuration.