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Thermo Scientific Cytomat® Automated Incubators and Storage Modules

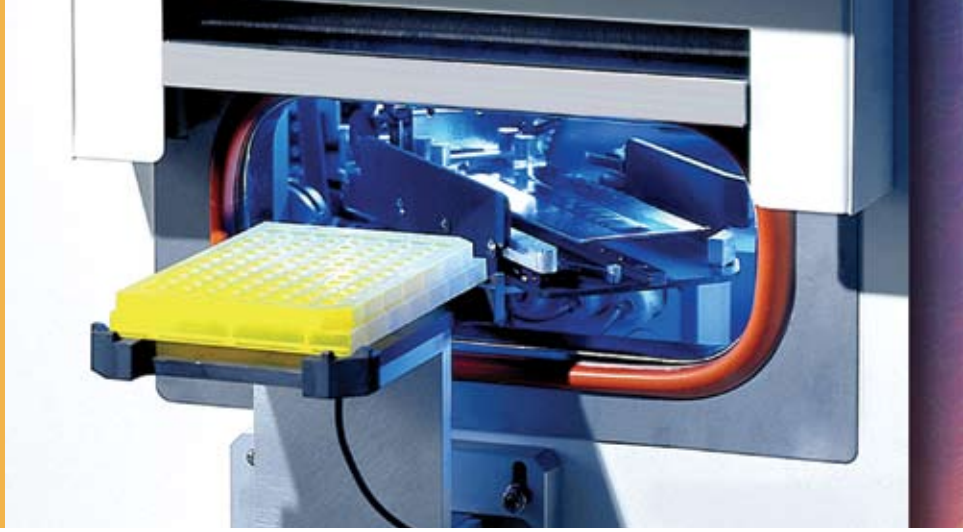


Technical Specifications and Options

Part of Thermo Fisher Scientific

Thermo SCIENTIFIC

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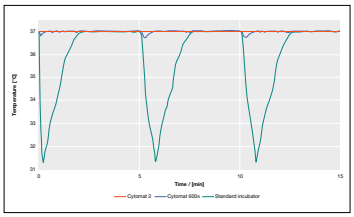


Thermo Scientific Cytomat modules combine proven reliability and environmental stability with worldwide service and support.

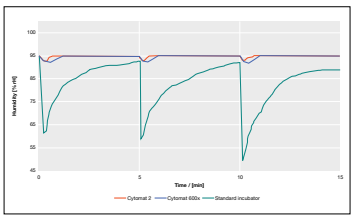
Environmental Specifications

Cytomat modules provide uniform and stable temperature, humidity, and atmospheric conditions. Recovery times are virtually eliminated, which helps minimize assay variance.

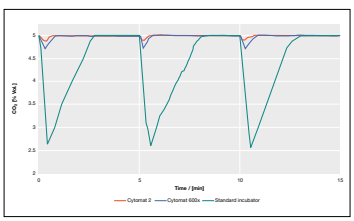
All Cytomat models are equipped with a small access door. Microplates enter and exit the unit in seconds, significantly minimizing disruption to the controlled environment. The system's speed ensures that stored plates are maintained under uniform and stable conditions at all times, while exiting plates remain in the controlled environment until the moment they are needed.



Temperature recovery with gate in operation (gate opening every 5 minutes for 10 seconds, set temperature 37°C)



Recovery times with gate in operation (gate opening every 5 minutes for 10 seconds, 95% rH)



Recovery times with gate in operation (gate opening every 5 minutes for 10 seconds, set CO_2 5% volume)

Temperature

Temperature stability is extremely important in achieving reproducible assay results and optimal cell growth. Cytomat models ensure ideal temperature conditions, even when in automated operation.

Humidity

A specially designed internal water reservoir results in high and stable humidity. Stackers with ventilation slots minimize evaporation and other edge effects to protect microplates.

CO_2 Atmosphere

Cytomat models virtually eliminate recovery times for any gaseous atmosphere. They provide the stabilized CO_2 atmosphere and related pH value in the media that are essential in any cell-based application.

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Cytomat Technical Data

Capacity		2 Stacker (42 standard 96- or 384-well plates)							
Model		**Cytomat 2 C4**	**Cytomat 2 C**	**Cytomat 2 C15**	**Cytomat 2 C70**	**Cytomat 2 C425**	**Cytomat 2 C450**	**Cytomat 2 C470**	**Cytomat 2 Hotel**
Version		Storage	Incubator	Incubator	High temperature	Storage	Wide range	Wide range	Tip box
Climate		Humid				Humid			
Microplate capacity (SBS size)									
96-well or 384-well	pcs	42	42	42	42	42	42	42	42
Deep-well	pcs	20	20	20	20	20	20	20	20
1536-well	pcs	56	56	56	56	56	56	56	56
Temperature range	°C	+4 to +10	T_A+ 8 to +50	+15 to +50	T_A+ 8 to +70	+4 to +25	+4 to +50	+4 to +70	Ambient
Temperature accuracy									
Temporal	°C	± 0.3	± 0.1	± 0.2	± 0.2	< ± 0.2	< ± 0.2	< ± 0.2	-
Spatial	°C	< ± 0.7	< ± 0.5	< ± 1.0	< ± 1.0	< ± 0.7	< ± 0.7	< ± 0.7	-
				< ± 1.5 when cooling					
Humidity, constant, maximum	%rH	75	95	75	95, up to 50°C	95	95	93	-
CO_2 control	%	-	0 to 20	0 to 20	-	-	0 to 20	0 to 20, up to 50°C	-
Access time, maximum	s	20	20	20	20	20	20	20	20
Access mode		Random	Random	Random	Random	Random	Random	Random	Random
External dimensions									
W/D/H excluding transfer station	mm	491/530/1391	491/530/1101	585/530/1101	491/530/1101	491/592/1101[1]	491/592/1101[1]	491/592/1101[1]	368/395/771
W/D/H excluding transfer station	inch	19.3/20.9/54.8	19.3/20.9/43.4	23.0/23.3/43.4	19.3/20.9/43.4	19.3/23.3/43.4	19.3/23.3/43.4	19.3/23.3/43.4	14.5/15.6/30.4
Weight, net	kg	110	80	90	80	90	90	90	40
Heat dissipation	kWh/h	0.25	0.09	0.39	0.19	0.4	0.4	0.4	0.01
Heat dissipation	Btu	853.2	307.1	1,330.7	648.3	1,364.9	1,364.9	1,364.9	0.034
Rated voltage		1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V
Rated power 230 V/120 V	kW	0.3	0.7	0.9	0.7	0.25 + 2.3/1.4	0.25 + 2.3/1.4	0.25 + 2.3/1.4	0.15
Rated current at 230 V	A	1.3	3	3.91	3	1.1 + 10	1.1 + 10	1.1 + 10	0.65
Rated current at 120 V	A	2.5	5.83	7.5	5.83	1.1 + 11.7	1.1 + 11.7	1.1 + 11.7	1.25

Cytomat Options

Model		Cytomat 2 C4	Cytomat 2 C	Cytomat 2 C15	Cytomat 2 C70	Cytomat 2 C425	Cytomat 2 C450	Cytomat 2 C470	Cytomat 2 Hotel
100 V/120 V version		+	+	+	+	+	+	+	S
O_2 control		C	C	C	C	C	C	C	n/a
Barcode scanner		+	+	+	C	+	+	C	+
Designed for deep-well plate handling		S	S	S	S	S	S	S	Tip box
Tip-box handling		C	C	C	C	C	C	C	S
Transfer stations									
Transfer station with plate sensor		+	+	+	+	+	+	+	+
90° turnable, with plate sensor		+	+	+	+	+	+	+	+
Linear transfer station with plate sensor		+	+	+	+	+	+	+	+
Swap station, with 2 plate sensors		+	+	+	+	+	+	+	+
Single point of integration									
Positioned top left		-	-	-	-	-	-	-	-
Positioned bottom right		-	-	-	-	-	-	-	-
Positioned top right		-	-	-	-	-	-	-	-
Positioned top		C	C	C	C	C	C	C	Flexible
									face side (in middle)

+ Available or optional - Not applicable n/a Not available S Standard C Custom T_A Ambient tem

[1] Dimensions exclude thermostat
[2] External thermostat

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	9 Stacker (189 standard 96- or 384-well plates)							24 Stacker (504 standard 96- o		
Cytomat 6002 D	**Cytomat 6003 D**	**Cytomat 6000**	**Cytomat 6001**	**Cytomat 6001 C4**	**Cytomat 6070**	**Cytomat 6004**	**Cytomat Hotel**	**Cytomat 24 C**	**Cytomat 24 C10**	**Cytomat 24 C4**
Storage	Storage	Incubator	Incubator	Wide range	High temperature	Inert gas	Tip box	Incubator	Incubator	Wide range
Dry	Dry									
189	189	189	189	189	189	189	189	504	504	504
90	90	90	90	90	90	90	90	240	240	240
252	252	252	252	252	252	252	252	672	672	672
+ 4 to +21	+ 4 to +21	T_A +8 to +50	+10 to +50 [2]	+4 to +50	T_A +12 to +70	Ambient	Ambient	T_A +8 to +50	+10 to +50	+4 to +50
± 1.0	± 1.0	± 0.1	± 0.1	± 0.1	± 0.1	-	-	± 0.1	± 0.1	± 0.1
± 1.0	± 1.0	± 0.5	± 0.5	± 0.5	± 0.5	-	-	± 0.5	± 1	± 1
3	3	95	95	95	95	6	-	93	93	93
-	-	0 to 20	0 to 20	0 to 20	-	-	-	0 to 20	0 to 20	0 to 20
20	20	20	20	20	20	20	20	30	30	30
Random	Random	Random	Random	Random	Random	Random	Random	Random	Random	Random
900/810/1300	900/810/1635	900/810/850	900/810/850	780/810/1085[1]	900/810/850	900/810/850	620/650/880	897/863/1860	897/863/1860[1]	897/863/1860[1]
35.4/31.9/51.2	35.4/31.9/64.4	35.4/31.9/33.5	35.4/31.9/33.5	30.7/31.9/42.8	35.4/31.9/33.5	35.4/31.9/33.5	24.4/25.6/34.65	35.3/33.98/73.2	35.3/33.98/73.2	35.3/33.98/73.2
280	290	150	160	170	150	150	50	250	250	250
0.33	0.33	0.09	0.09	0.4	0.19	0.01	0.01	0.18	0.18	0.18
1.126	1.126	307.1	307.1	1,364.9	648.3	0.034	0.034	310	310	310
1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V
1.0	1.0	1.2	1.2	0.4 + 2.3/1.4	1.2	0.3	0.15	0.94	0.94 + 3.5/1.75	0.94 + 3.5/1.75
4.35	4.35	5.2	5.2	1.7 + 10	5.2	1.3	0.65	4.1	4.1 + 15	4.1 + 15
8.33	8.33	10	10	1.7 + 11.7	10	2.5	1.25	7.9	7.9 + 14.5	7.9 + 14.5

Cytomat 6002 D	**Cytomat 6003 D**	**Cytomat 6000**	**Cytomat 6001**	**Cytomat 6001 C4**	**Cytomat 6070**	**Cytomat 6004**	**Cytomat Hotel**	**Cytomat 24 C**	**Cytomat 24 C10**	**Cytomat 24 C4**
+	+	+	+	+	+	S	S	+/+	+/+	+/+
C	C	+	+	+	C	C	n/a	+	+	+
+	+	+	+	+	C	+	+	+	+	+
S	S	S	S	S	S	S	Tip box	Tip box	Tip box	Tip box
C	C	C	C	C	C	C	S	+	+	+
+	+	+	+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+	+	+	+
C	C	C	C	C	C	C	C	C	C	C
C	C	C	C	C	C	C	C	C	C	C
C	C	C	C	C	C	C	C	C	C	C
-	-	-	-	-	-	-	-	-	-	-

nperature

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or 384-well plates)		44 Stacker (924 standard 96- or 384-well plates)			48 Stacker (1008 standard 96- or 384-well plates)			
Cytomat 24 Hotel	**Cytomat 24 Linear Hotel**	**Cytomat 44 D**	**Cytomat 44 HC**	**Cytomat 44 H**	**Cytomat 48 C**	**Cytomat 48 C10**	**Cytomat 48 C4**	**Cytomat 48 Linear Hotel**
Tip box	Tip box	Storage	Storage	Storage	Incubator	Incubator	Wide range	Tip box
		Dry	Humid controlled	Humid	Double chamber	Double chamber	Double chamber	
504	504	924	924	924	1008	1008	1008	1008
240	240	440	440	440	480	480	480	480
672	672	1232	1232	1232	1344	1344	1344	1344
Ambient	Ambient	-20 to +25	+4 to +25	+4 to +25	T_A +8 to +50	+10 to +50	+4 to +50	Ambient
-	-	± 1	± 1	± 1	± 0.2	± 0.2	± 0.2	-
-	-	± 2.5	± 2	± 2	± 1	± 1	± 1	-
-	-	10 (35 at -20°C)	20 to 50	70	93	93	93	-
-	-	-	-	-	0 to 20	0 to 20	0 to 20	-
30	30	60	60	60	30	30	30	30
Random	Random	Random	Random	Random	Random	Random	Random	Random
804/680/1471	770/1106/1720	1962/820/1982	1962/820/1982	1962/820/1982	1844/985/1675	1844/985/1675[1]	1844/985/1675[1]	770/1790/1720
31.7/26.8/58	30.3/43.5/67.7	77.3/32.2/78.1	77.3/32.2/78.1	77.3/32.2/78.1	72.5/38.8/66	72.5/38.8/66	72.5/38.8/66	30.3/70.5/67.7
175	400	700	700	700	500	500	500	630
0.01	0.01				0.36	0.36	0.36	0.01
0.034	0.034				620	620	620	0.034
1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V	1/PE AC, 230 V	2x 1/PE AC, 230 V	2x 1/PE AC, 230 V	2x 1/PE AC, 230 V	1/PE AC, 230 V
0.15	0.2	2.3	2.3	2.3	2 x 0.94	2 x (0.94 + 3.5/1.75)	2 x (0.94 + 3.5/1.75)	0.2
0.65	0.87	10	10	10	2 x 4.1	2 x (4.1 + 15)	2 x (4.1 + 15)	0.87
1.25	1.67	11.06 at 208 V	11.06 at 208 V	11.06 at 208 V	2 x 7.9	2 x (7.9 + 14.5)	2 x (7.9 + 14.5)	1.67

Cytomat 24 Hotel	**Cytomat 24 Linear Hotel**	**Cytomat 44 D**	**Cytomat 44 HC**	**Cytomat 44 H**	**Cytomat 48 C**	**Cytomat 48 C10**	**Cytomat 48 C4**	**Cytomat 48 Linear Hotel**
S	S	200-208V	200-208V	200-208V	+/+	+/+	+/+	S
n/a	n/a	C	C	C	+	+	+	n/a
+	+	+	+	+	+	+	+	+
Tip box	Tip box	Tip box	Tip box	Tip box	Tip box	Tip box	Tip box	Tip box
+	+	+	+	+	+	+	+	+
+	+	C	C	C	+	+	+	+
+	+	C	C	C	+	+	+	+
+	+	C	C	C	+	+	+	+
+	+	C	C	C	+	+	+	+
Flexible	n/a	-	-	-	C	C	C	-
C	n/a	-	-	-	C	C	C	-
C	n/a	-	-	-	C	C	C	-
-	Flexible	Flexible	Flexible	Flexible	-	-	-	Flexible
	Face side (in middle)							Face side (in middle)

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