

Technical Specifications

Description	Mastercycler® X50s	Mastercycler® X50a	Mastercycler® X50h
			
Thermoblock	Silver	Aluminum	Aluminum
High pressure lid			■
96-well plate	■	■	
384-well plate			■
0.1/0.2 mL tubes	■	■	
Temperature control range of the block		4–99 °C	
Temperature control mode	Fast, Intermediate, Standard, Safe		
Heating technology of the block	Six peltier elements		
2D-Gradient block	over 12 columns / over 8 rows		over 24 columns / over 16 rows
Gradient range	1–30 °C		
Gradient temperature range	30–99 °C		
Lid temperature range	37–110 °C		
Lid descent	flexlid		
Block homogeneity: 20 °C–72 °C 95 °C	≤ ±0.2 °C ≤ ±0.3 °C		
Block temperature accuracy	± 0.15 °C		
Heating rate	max. 10 °C/s	max. 5 °C/s	
Cooling rate	max. 5 °C/s	max. 2.3 °C/s	
Interfaces	Ethernet, USB		
Dimensions (W × D × H)	27.5 × 43 × 33 cm		
Weight	11.5 kg		
Power supply	110–230 V, 50–60 Hz		
Max. power consumption	850 W		

Mastercycler® X50i	Mastercycler® X50l	Mastercycler® X50t
		
Silver	Aluminum	Aluminum
■	■	■
■	■	■
■	■	
	4–99°C	
Fast, Intermediate, Standard, Safe		
Six peltier elements		
over 12 columns / over 8 rows		over 24 columns / over 16 rows
1–30 °C		
30–99 °C		
37–110 °C		
flexlid		
≤ ±0.2 °C		
≤ ±0.3 °C		
± 0.15 °C		
max. 10 °C/s	max. 5 °C/s	
max. 5 °C/s	max. 2.3 °C/s	
Ethernet, USB		
27.5 × 43 × 33 cm		
10.7 kg		
110–230 V, 50–60 Hz		
850 W		

Ordering information	International Order no.	North America Order no.
Mastercycler® X50s, silver block, 96-well plate or 0.1/0.2 mL tubes	6311 000 010	6311000010
Mastercycler® X50a, aluminum block, 96-well plate or 0.1/0.2 mL tubes	6313 000 018	6313000018
Mastercycler® X50h, aluminum block, 384-well plate, high pressure lid	6316 000 019	6316000019
Mastercycler® X50i*, silver block, 96-well plate or 0.1/0.2 mL tubes	6301 000 012	6301000012
Mastercycler® X50l*, aluminum block, 96-well plate or 0.1/0.2 mL tubes	6303 000 010	6303000010
Mastercycler® X50t*, aluminum block, 384-well plate, high pressure lid	6306 000 010	6306000010
Accessories		
Ethernet cable, 5 m	6313 070 040	6313070040

* to operate this unit, it needs to be connected to a Mastercycler X50 s,a,p, or h. Up to 9 units can be connected to a Mastercycler X50 s,a,p, or h.