



## TECHNICAL DATA ICECUBE SERIES

	11XS	14S	14M	17M	17L
<b>Model</b>	All models with tablet computer, MDD optional	Optional with tablet computer or PC with touch monitor MDD certification available		Optional with tablet computer or PC with touch monitor MDD certification available	
<b>Temperature range</b>	+40°C to -150°C 104°F to -238°F	+40°C to -180°C (104°F – 292°F)		+40°C to -180°C (104°F – 292°F)	
<b>Cooling rates</b>	0.01 to 40°C/min	0.01 to 60°C/min		0.01 to 35°C/min	0.01 to 30°C/min
<b>Heating rates</b>	0.01 to 10°C/min	0.01 to max. 15°C/min		0.01 to max. 7°C/min	0.01 to max. 5°C/min
<b>Temperature sensors in 4-wire-technique</b>	Pt-100, 1.5 mm Ø x 65 mm length	Pt-100, 1.5 mm Ø x 65 mm length, or (option) 1 and 1.5 mm x 65/100/160/200 mm or temperature sensor flat (foil sensor)		Pt-100, 1.5 mm Ø x 65 mm length, or (option) 1 and 1.5 mm x 65/100/160/200 mm or temperature sensor flat (foil sensor)	
<b>Temp. display resolution</b>	0.01°C		0.01°C		
<b>Freezing chamber size and capacity</b>					
<b>Chamber size (mm) (inch)</b>	125 Ø x 132 (h) 4.92 Ø x 5.2	217 x 217 x 348 (h) 8.54 x 8.54 x 13.7	297 x 317 x 378 (h) 11.69 x 12.48 x 14.9	330 x 340 x 390 (h) 13 x 13.39 x 15.35	660 x 340 x 390 (h) 25.9 x 13.4 x 15.35
<b>Volume (liter)</b>	1.6	16	35	44	88
<b>Straws 0.25 ml or 0.5 ml</b>	max 40 either type	1650 1080	4140 2760	5520 3720	11040 7440
<b>Vials 1.8 – 2 ml</b>	36	480 in 5 racks	1128 in 6 racks	1128 in 6 racks	2256 in 12 racks
<b>Vials 5 ml</b>	18	288 in 3 racks	564 in 3 racks	564 in 3 racks	1128 in 6 racks
<b>Boxes and SBS format</b>	–	Available in all models, information on request!		Available in all models, information on request!	
<b>Blood bags <sup>*)</sup></b>	–	6	11	11	22
<b>Blood bags in metal cassettes <sup>*)</sup></b>	–	11	16	16	32
<b>Outer dimensions W x D x H mm (lid open) inch (lid open)</b>	300 x 480 x 520 11.8 x 18.9 x 20.4	540 x 420 x 520 (820) 21.3 x 17 x 20.5 (33)	630 x 510 x 550 (860) 25 x 20.1 x 21.7 (34)	750 x 660 x 560 (1010) 29.6 x 26 x 22.1 (39.8)	1090 x 660 x 560 (1010) 43 x 26 x 22.1 (39.8)
<b>Supply container, liquid cylinder</b>	LIN supply container with automatic pressure built-up from 0.5 to max. 1.5 bar, recommended fill volume 60 - 240 l. All freezer models are equipped with a pressure relief valve.			1.5 bar 70 - ≥240 l	
<b>Pressure sensor (option)</b>	–	Supply pressure monitor recording in real time		Supply pressure monitor recording in real time	
<b>AutoSeeding preparation (option)</b>	–	Second LIN manifold with magnetic valve for automatic supply of a seeding rack for vials or straws		Second LIN manifold with magnetic valve for automatic supply of a seeding rack for vials or straws	
<b>Net weight without PC and accessories</b>	~ 16.5	~29	~ 39	~ 68	~ 85
<b>Electric supply, please specify at order</b>	230/115 VAC 1.8/3.6 A	230/115 VAC 3.6/7.2 A	230/115 VAC 4.7/9.4 A	230/115 VAC 5.5/11 A	230/115 VAC 5.5/11 A
<b>Options and accessories may differ among various freezer models.</b>	A large selection of chamber furniture is available, 3.+4. temperature sensors, temperature sensor flat foil, potential-free alarm outputs, IQ/OQ protocols, uninterruptible power supply (UPS), insulated LIN metal hoses, LIN supply vessels, LIN storage solutions for processed samples, shipping containers, protective wear/face shields, aprons, gloves. Medical Product registration: requires technical monitoring and periodic inspection.			A large selection of chamber furniture is available, 3.+4. temperature sensors, temperature sensor flat foil, potential-free alarm outputs, IQ/OQ protocols, uninterruptible power supply (UPS), insulated LIN metal hoses, LIN supply vessels, LIN storage solutions for processed samples, shipping containers, protective wear/face shields, aprons, gloves. Medical Product registration: requires technical monitoring and periodic inspection.	

<sup>\*)</sup> Depending on size and/or filling volume  
Specifications are subject to change without notice.