

CIRCULATORS



TIME TO TEMPERATURE

These times are intended to give approximate reactor Cooling/Heating times from room temperature. Please contact Chemglass to select the best circulator for your application.

2 L I T E R	Minutes to:	0°C	-20°C	-40°C	-60°C	Minutes to:	100°C	150°C
	Model					Model		
	Ministat 125	35				Ministat 125	30	35
	Ministat 230	20	60			Ministat 230	20	36
	Tango	10	31			Tango	18	28
	Unistat 705	10	21	31	83	Unistat 705	18	28

5 L I T E R	Minutes to:	0°C	-20°C	-40°C	-60°C	Minutes to:	100°C	150°C
	Model					Model		
	Ministat 230	34	96			Ministat 230	32	52
	Ministat 240	25	72			Ministat 240	25	43
	Tango	16	55			Tango	30	50
	Unistat 405	11	36			Unistat 405	30	50
	Unistat 705	18	36	55	145	Unistat 705	29	50
	Unistat 815	9	17	26	50	Unistat 815	22	37
	Unistat 825	5	10	17	38	Unistat 825	15	24

1 0 L I T E R	Minutes to:	0°C	-20°C	-40°C	-60°C	Minutes to:	100°C	150°C
	Model					Model		
	Unistat 405	20	100			Unistat 405	54	87
	Unistat 425	8	22			Unistat 425	40	65
	Unistat 510w	4	14			Unistat 510w	13	22
	Unistat 815	15	31	46	89	Unistat 815	40	65
	Unistat 825	9	17	30	67	Unistat 825	27	43
	Unistat 910w	4	9	15	28	Unistat 910w	10	14

Note:

1) "Time to Cool" estimates based on Silicone Oil Bath Medium, 1.45 kJ/(kg*°C).

2) Estimate will increase with ambient conditions >+20°C and lack of insulation.

* Times may double (x2), due to Reactor constraints, such as low heat transfer rate, limited dT/dt, no insulation.

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	Model					Model		
	Unistat 425	14	40			Unistat 425	72	116
	Unistat 510w	2	27			Unistat 510w	29	47
	Unistat 610w	5	12	34		Unistat 610w	24	39
	Unistat 615w	4	11	22		Unistat 615w	12	19
	Unistat 620w	3	6	16		Unistat 620w	12	19
	Unistat 625w	2	6	13		Unistat 625w	12	19
	Unistat 825w	16	31	54	119	Unistat 825w	48	78
	Unistat 830w	10	20	36	72	Unistat 830w	48	78
	Unistat 910w	7	14	26	46	Unistat 910w	24	39
	Unistat 925w	2	5	7	15	Unistat 925w	12	19

3 0 L I T E R	Minutes to:	0°C	-20°C	-40°C	-60°C	Minutes to:	100°C	150°C
	Model					Model		
	Unistat 425	21	58			Unistat 425	105	171
	Unistat 510w	11	38			Unistat 510w	42	69
	Unistat 610w	8	18	49		Unistat 610w	35	57
	Unistat 615w	6	15	32		Unistat 615w	18	29
	Unistat 620w	4	9	23		Unistat 620w	18	29
	Unistat 625w	3	8	19		Unistat 625w	18	29
	Unistat 825w	23	46	79	175	Unistat 825w	70	114
	Unistat 830w	15	30	53	105	Unistat 830w	70	114
	Unistat 910w	10	21	38	68	Unistat 910w	35	57
	Unistat 925w	3	7	11	16	Unistat 925w	18	29

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5 O L I T E R	Minutes to:	0°C	-20°C	-40°C	-60°C	Minutes to:	100°C	150°C
	Model					Model		
	Unistat 510w	12	42			Unistat 510w	68	111
	Unistat 610w	8	20	54		Unistat 610w	57	92
	Unistat 615w	7	17	36		Unistat 615w	28	46
	Unistat 620w	5	10	25		Unistat 620w	28	46
	Unistat 625w	4	9	21		Unistat 625w	28	46
	Unistat 630w	3	7	12		Unistat 630w	14	23
	Unistat 910w	11	23	41	74	Unistat 910w	57	92
	Unistat 925w	4	7	12	18	Unistat 925w	28	46
Unistat 930w	3	6	10	16	Unistat 930w	14	23	

5 O L I T E R S H O R T	Minutes to:	0°C	-20°C	-40°C	-60°C	Minutes to:	100°C	150°C
	Model					Model		
	Unistat 510w	17	60			Unistat 510w	56	92
	Unistat 520w	14	40			Unistat 520w	42	46
	Unistat 610w	12	28	77		Unistat 610w	39	92
	Unistat 615w	11	24	53		Unistat 615w	39	46
	Unistat 620w	7	14	36		Unistat 620w	23	46
	Unistat 625w	5	13	30		Unistat 625w	23	46
	Unistat 910w	16	33	60	108	Unistat 910w	38	92
	Unistat 925w	5	11	17	25	Unistat 925w	23	46
Unistat 930w	4	9	15	22	Unistat 930w	16	23	

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