

# SONIC® Efficiency Curves



## SC650

Return Water Temperature

20° ΔT

	60°	80°	100°	120°	140°	160°	MBtu
100%		97.2	94.4	90.3	87.8	87.4	650
75%		97.9	95.2	90.9	88.0	87.6	487.5
50%		98.9	95.5	91.5	88.3	87.8	325
25%							130

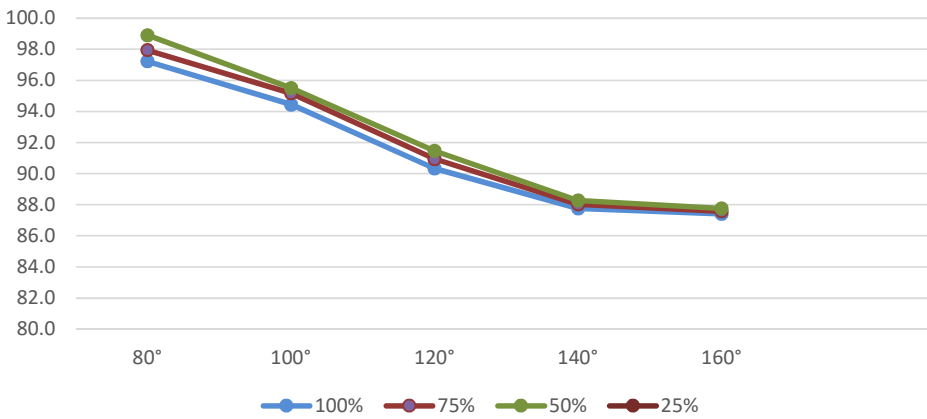
40° ΔT

	60°	80°	100°	120°	140°	MBtu
100%	95.1	94.1	93.6	89.4	87.8	650
75%	98.9	95.8	94.3	90.7	88.0	487.5
50%		99.0	95.3	92.4	88.3	325
25%						130

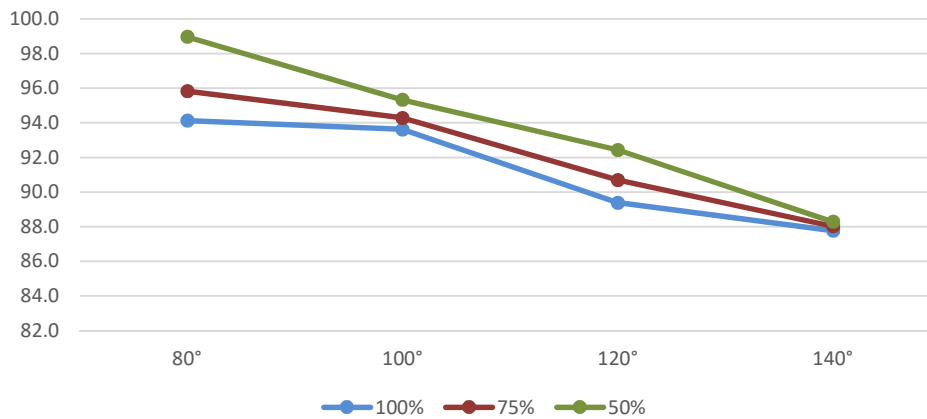
60° ΔT

	60°	80°	100°	120°	140°	MBtu
100%		96.2	92.6	89.4	88.7	650
75%		97.0	93.5	90.2	89.2	487.5
50%		97.6	94.5	90.9	89.8	325
25%						130

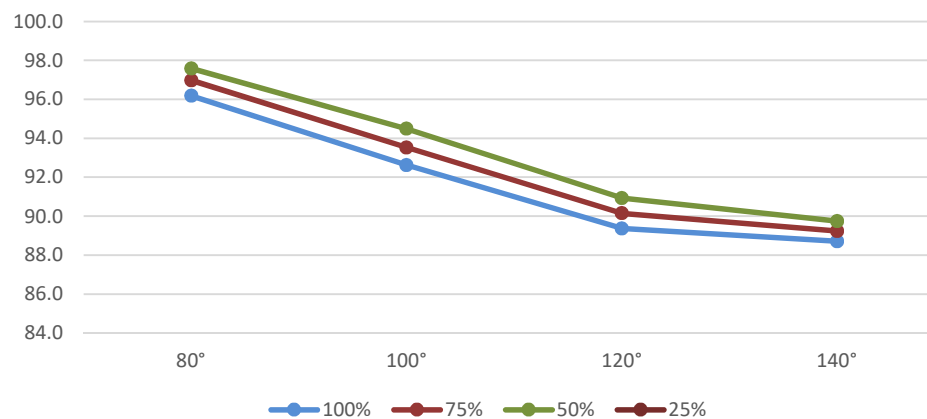
SONIC SC-650 Thermal Efficiencies @ 20°F ΔT



SONIC SC-650 Thermal Efficiencies @ 40°F ΔT



SONIC SC-650 Thermal Efficiencies @ 60°F ΔT



# SONIC® Efficiency Curves



## SC750

Return Water Temperature

**20° ΔT**

	60°	80°	100°	120°	140°	160°	180°	MBtu
100%		96.9	93.8	89.9	87.6	87.3	87.00	750
75%		97.5	95	90.7	87.9	87.5	87.10	562
50%		98.6	95.4	91.3	88.2	87.7	87.20	375
25%		99.15	95.60	91.60	88.35	87.80	87.25	187.5

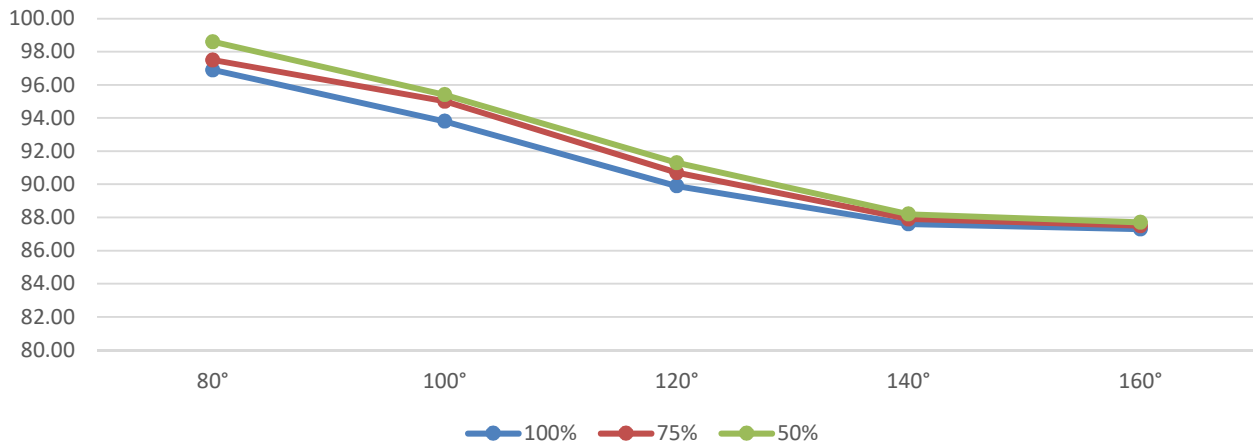
**40° ΔT**

	60°	80°	100°	120°	140°	160°	MBtu
100%	94.60	93.8	93.4	88.8	87.6	86.4	750
75%	95.60	94.4	93.8	89.9	87.9	85.9	562
50%		98	95	91.9	88.2	84.5	375
25%		99.80	95.60	92.90	88.35	83.80	187.5

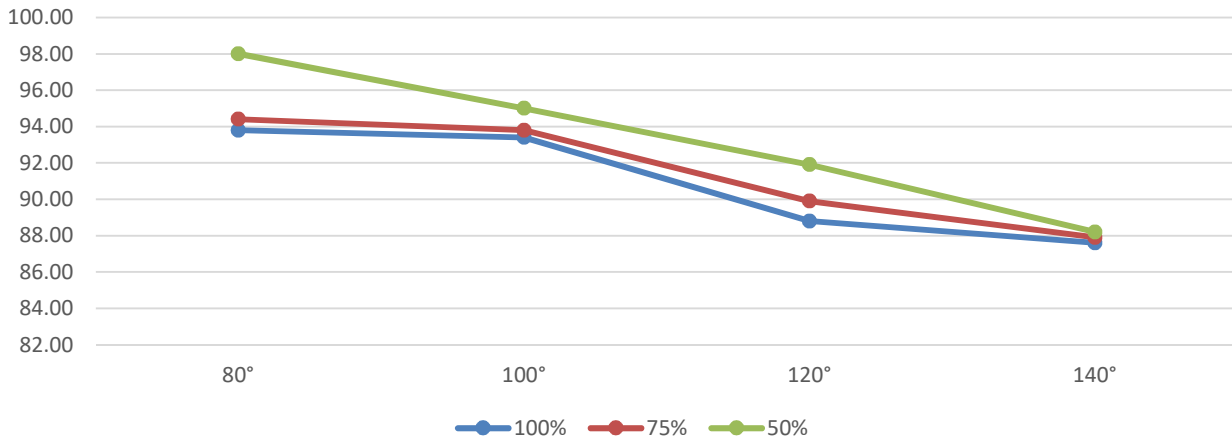
**60° ΔT**

	60°	80°	100°	120°	140°	MBtu
100%		95.6	92.1	88.9	88.4	750
75%		96.7	93.1	89.8	89	562
50%		97.4	94.2	90.7	89.3	375
25%		97.75	94.75	91.15	89.45	

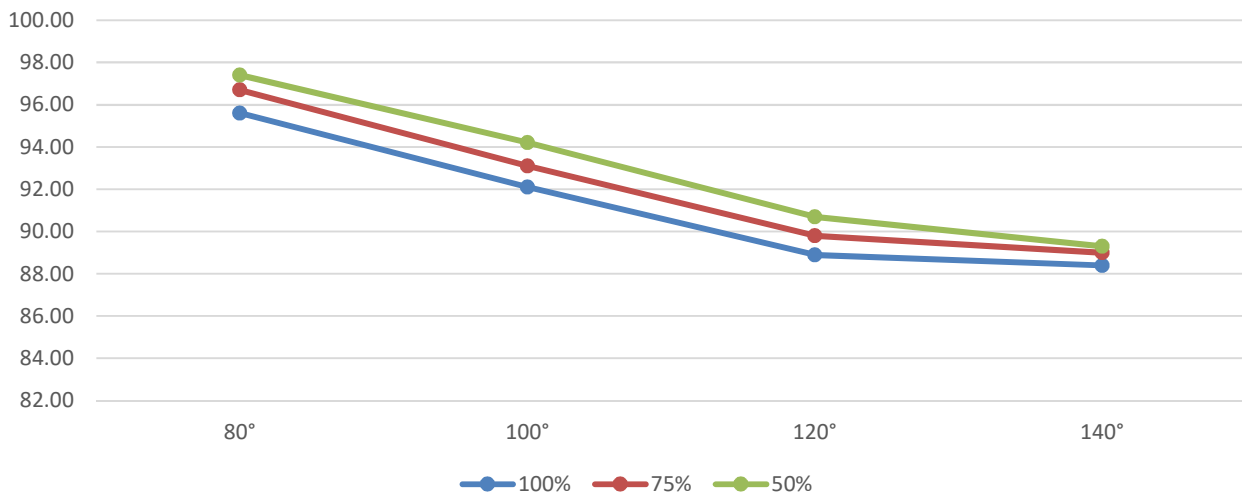
### SONIC SC-750 Thermal Efficiencies @ 20°F ΔT



### SONIC SC-750 Thermal Efficiencies @ 40°F ΔT



### SONIC SC-750 Thermal Efficiencies @ 60°F ΔT



# SONIC® Efficiency Curves



## SC850

Return Water Temperature

20° ΔT

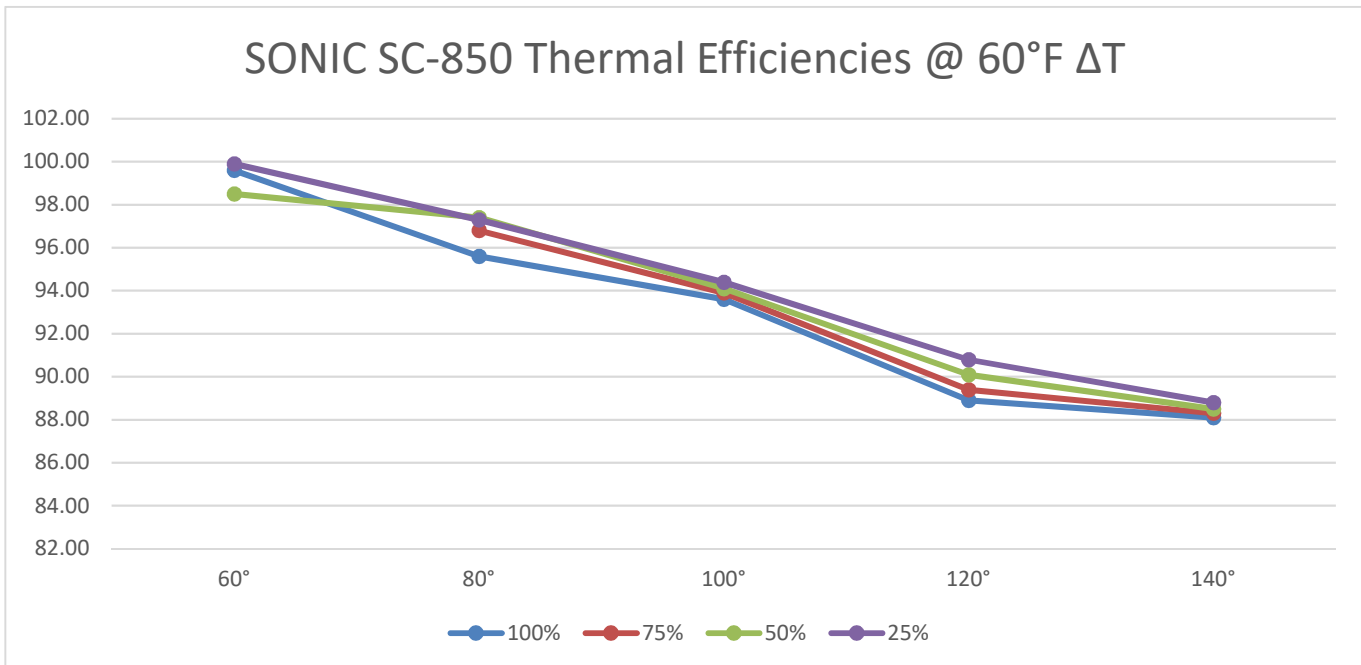
	60	80	100	120	140	160	180	MBtu
100%		97.4	95.4	90.9	88.3	87.9	87.6	850
75%		97.6	95.5	91	88.5	88.1	87.8	637
50%	99.5	98	95.7	91.3	88.7	88.3	87.9	425
25%	99.9	98.5	96	91.6	89	88.5	88.1	212

40° ΔT

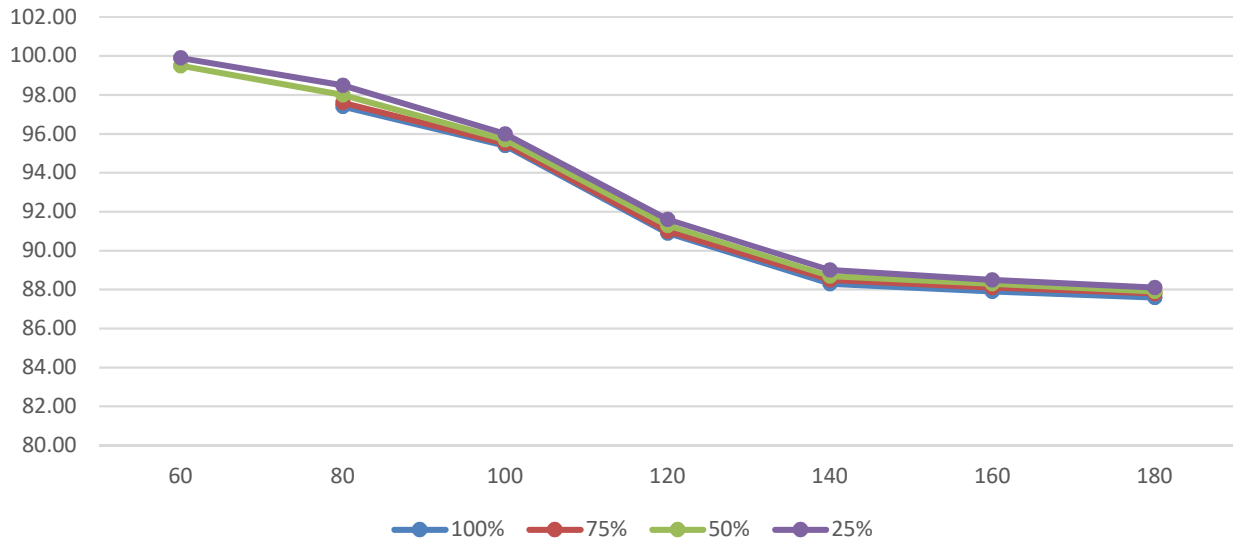
	60	80	100	120	140	160	MBtu
100%		96.5	94.5	89.9	88.2	87.9	850
75%		97.2	94.7	90.2	88.4	88.1	637
50%	99	97.7	94.9	90.7	88.6	88.3	425
25%	99.9	97.9	95.2	91.2	88.9	88.6	212

60° ΔT

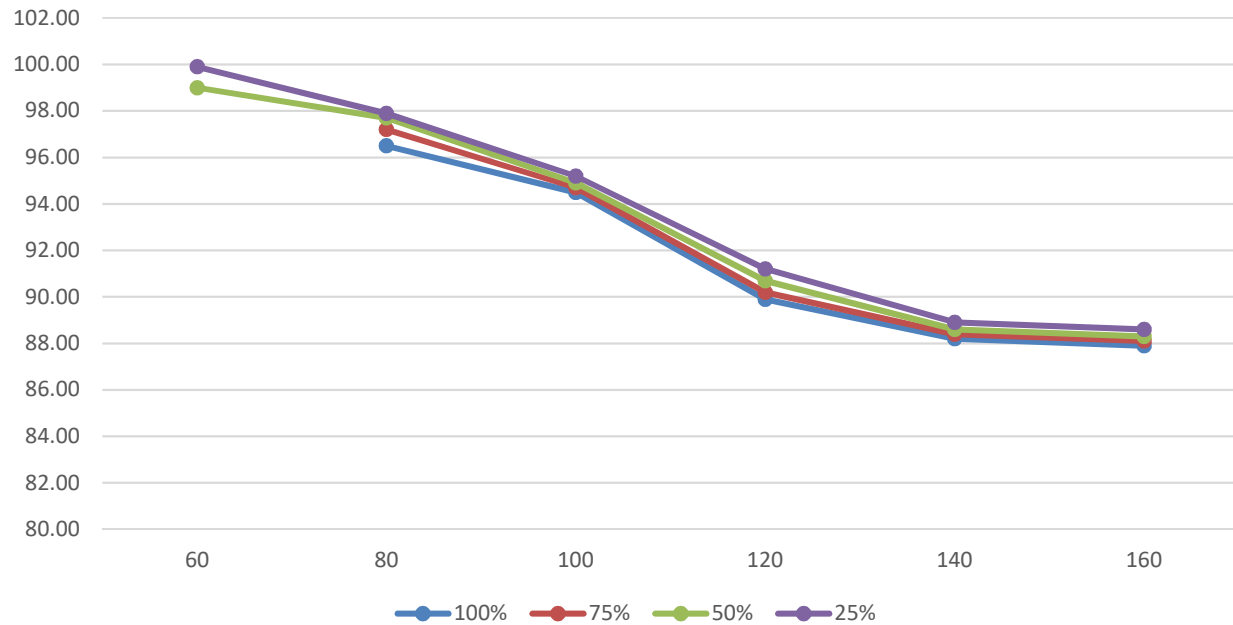
	60°	80°	100°	120°	140°	MBtu
100%	99.60	95.6	93.6	88.9	88.1	850
75%		96.8	93.9	89.4	88.3	637
50%	98.5	97.4	94.1	90.1	88.5	425
25%	99.9	97.3	94.4	90.8	88.8	212



### SONIC SC-850 Thermal Efficiencies @ 20°F ΔT



### SONIC SC-850 Thermal Efficiencies @ 40°F ΔT



# SONIC® Efficiency Curves



## SC1000

Return Water Temperature

20° ΔT

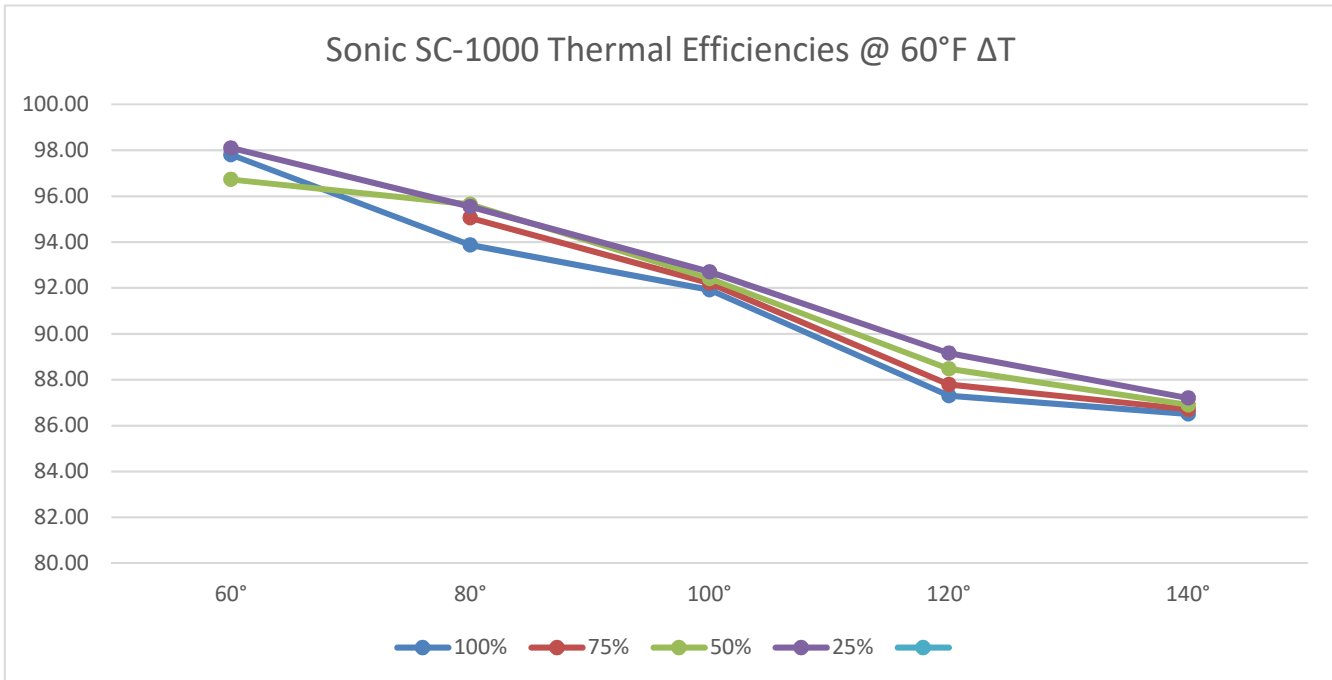
	60	80	100	120	140	160	180	MBtu
100%	99.57	95.65	93.68	89.26	86.71	86.32	86.02	1000
75%	99.97	95.84	93.78	89.36	86.91	86.51	86.22	750
50%	97.71	96.24	93.98	89.66	87.10	86.71	86.32	500
25%	98.10	96.73	94.27	89.95	87.40	86.91	86.51	250

40° ΔT

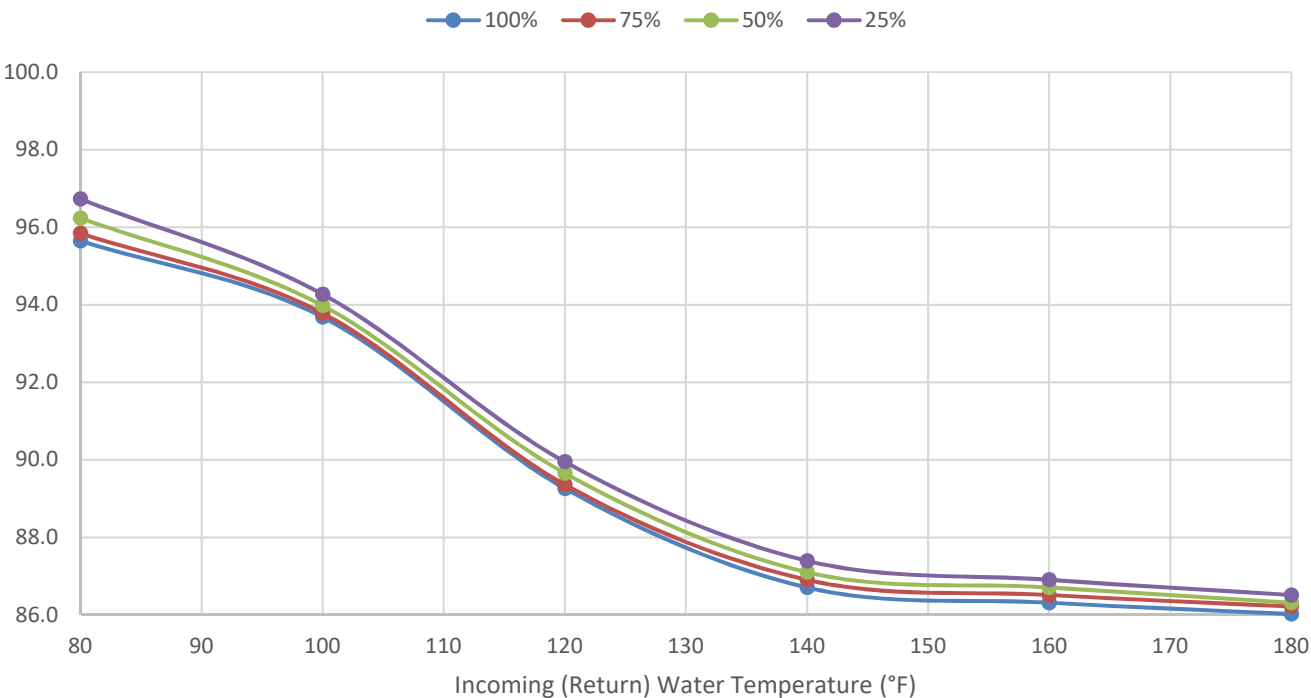
	60	80	100	120	140	160	MBtu
100%	98.69	94.763	92.799	88.2818	86.6124	86.3178	1000
75%	100.00	95.4504	92.9954	88.5764	86.8088	86.5142	750
50%	97.218	95.9414	93.1918	89.0674	87.0052	86.7106	500
25%	98.1018	96.1378	93.4864	89.5584	87.2998	87.0052	250

60° ΔT

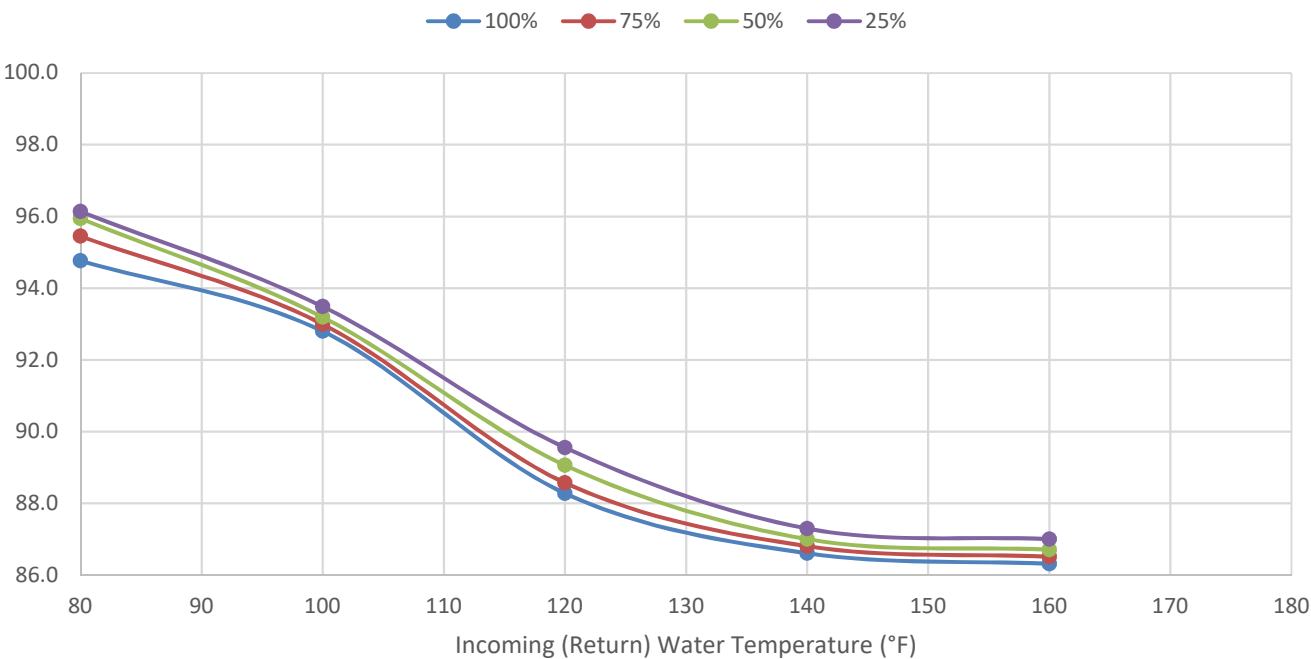
	60°	80°	100°	120°	140°	MBtu
100%	97.81	93.8792	91.9152	87.2998	86.5142	1000
75%		95.0576	92.2098	87.7908	86.7106	750
50%	96.727	95.6468	92.4062	88.4782	86.907	500
25%	98.1018	95.5486	92.7008	89.1656	87.2016	250



### SONIC SC-1000 Thermal Efficiencies @ 20°F ΔT



### SONIC SC-1000 Thermal Efficiencies @ 40°F ΔT





# SONIC® Efficiency Curves



## SC1500

Return Water Temperature

20° ΔT

	60	80	100	120	140	160	180	MBtu
100%	99.6	98.6	95.7	92.5	89.1	88.6	88.1	1500
75%	99.9	98.8	96.0	92.4	89.3	88.8	88.2	1125
50%		99.0	96.4	93.0	89.4	89.0	88.3	750
25%		99.4	96.6	93.3	89.6	89.1	88.4	375

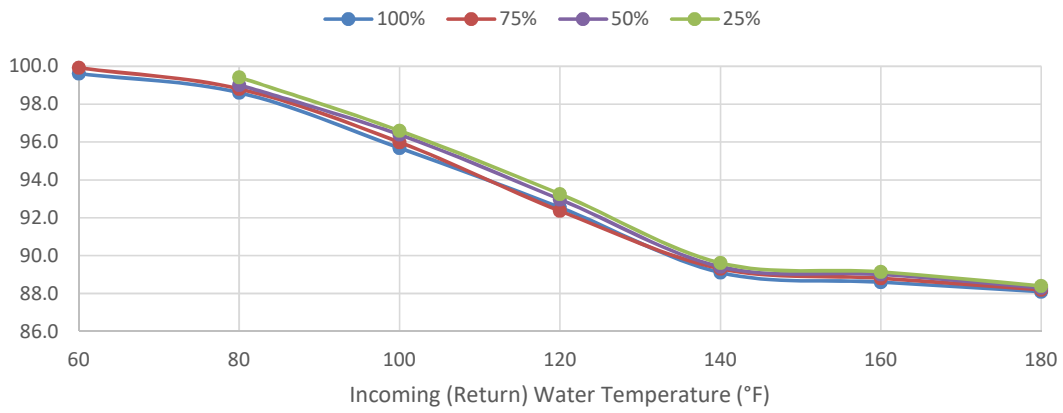
40° ΔT

	60	80	100	120	140	160	MBtu
100%	99.2	96.7	95.3	92.1	89.2	88.8	1500
75%	99.8	97.3	95.9	92.8	89.2	88.8	1125
50%		98.4	96.3	93.2	89.5	89.0	750
25%		99.1	96.9	93.8	89.9	89.2	375

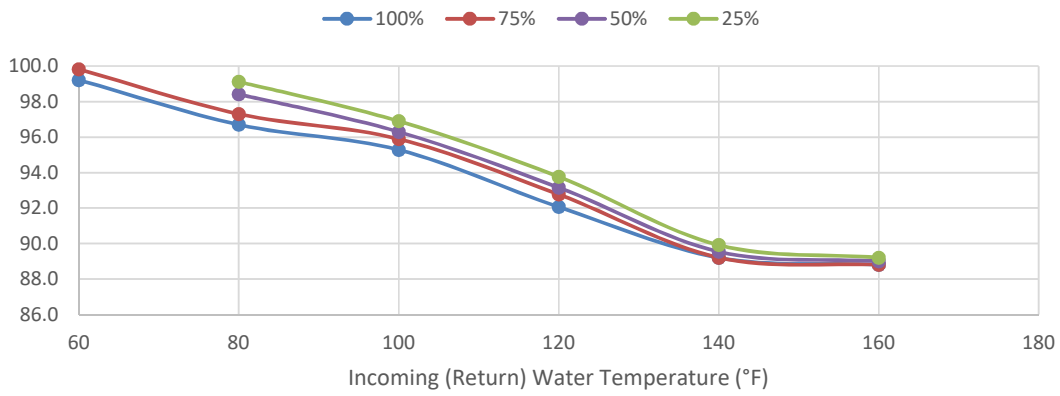
60° ΔT

	60	80	100	120	140	MBtu
100%	98.9	97.8	95.4	91.8	89.1	1500
75%	99.4	98.1	95.9	92.5	89.4	1125
50%	99.9	98.8	96.5	93.1	89.6	750
25%		99.2	96.9	93.9	90.0	375

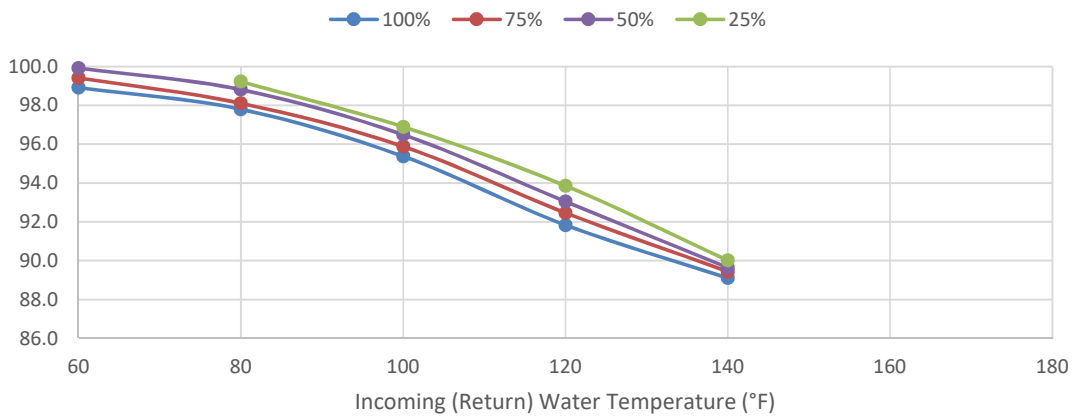
SONIC SC-1500 Thermal Efficiencies @ 20°F ΔT



SONIC SC-1500 Thermal Efficiencies @ 40°F ΔT



SONIC SC-1500 Thermal Efficiencies @ 60°F ΔT



# SONIC® Efficiency Curves



## SC2000

Return Water Temperature

**20° ΔT**

	60	80	100	120	140	160	180	MBtu
100%	98.9	97.9	95.0	91.9	88.5	88.0	87.5	2
75%	99.2	98.1	95.3	91.7	88.7	88.2	87.6	1.5
50%	99.5	98.3	95.7	92.3	88.8	88.4	87.7	1
25%	99.9	98.7	95.9	92.6	89.0	88.5	87.8	0.5

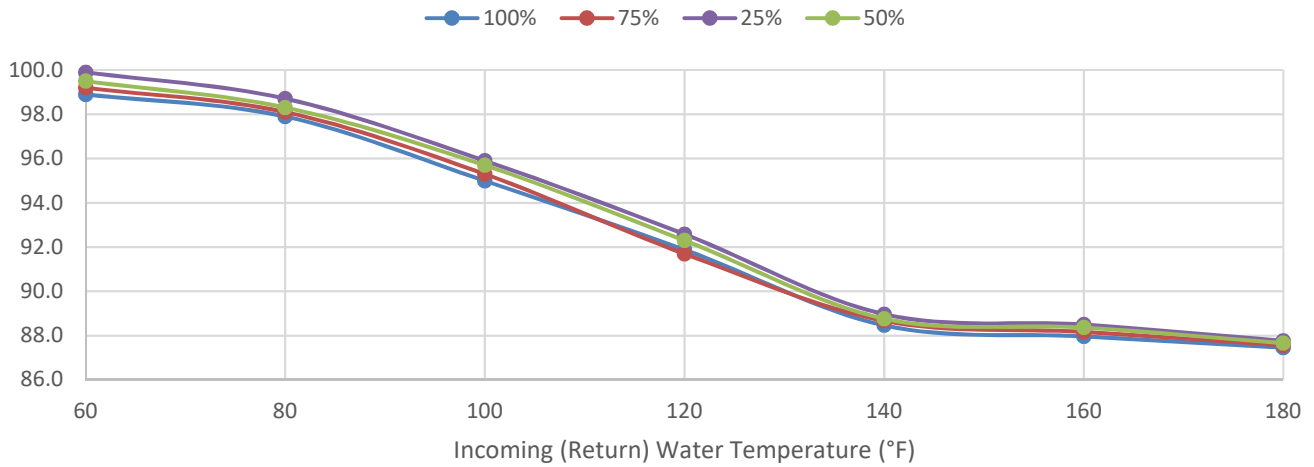
**40° ΔT**

	60	80	100	120	140	160	MBtu
100%	98.5	96.0	94.6	91.4	88.6	88.2	2
75%	99.1	96.6	95.2	92.1	88.6	88.2	1.5
50%	99.4	97.7	95.6	92.5	88.9	88.4	1
25%	99.8	98.4	96.2	93.1	89.3	88.6	0.5

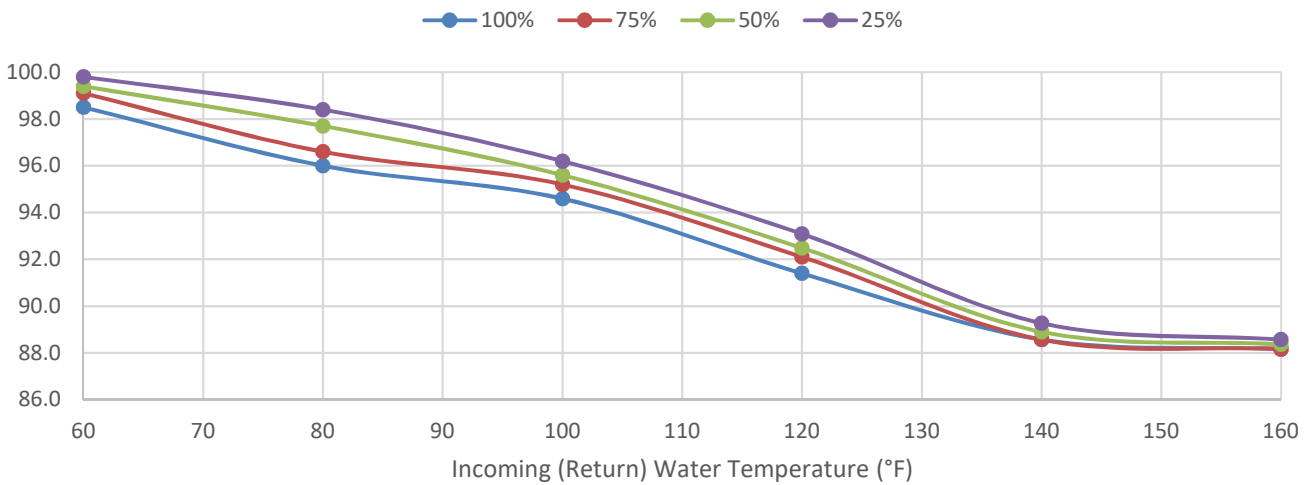
**60° ΔT**

	60	80	100	120	140	MBtu
100%	98.2	97.1	94.7	91.2	88.5	2
75%	98.7	97.4	95.2	91.8	88.8	1.5
50%	99.2	98.1	95.8	92.4	89.0	1
25%	99.7	98.5	96.2	93.2	89.4	0.5

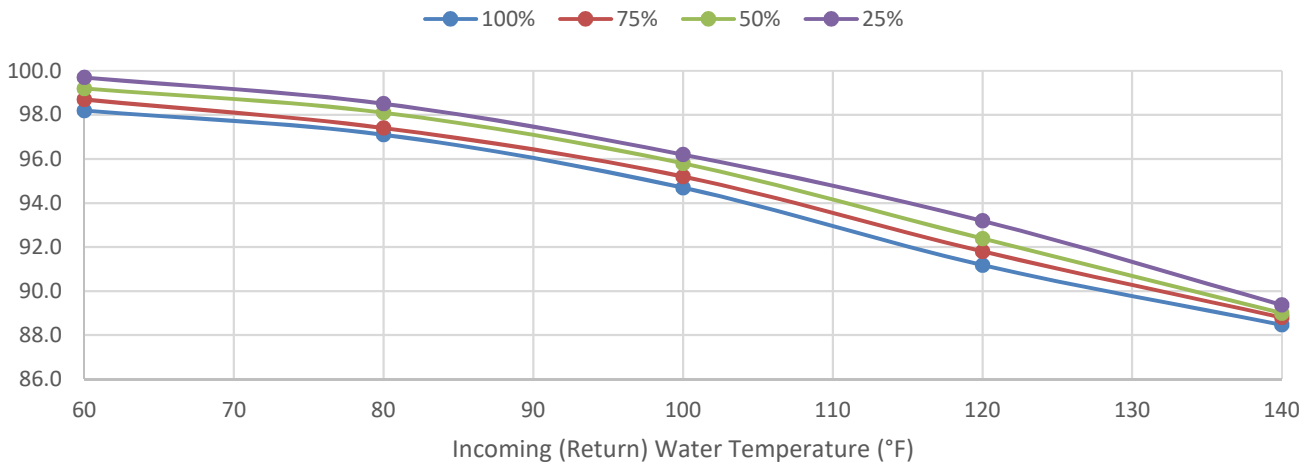
SONIC SC-2000 Thermal Efficiencies @ 20°F ΔT



SONIC SC-2000 Thermal Efficiencies @ 40°F ΔT



SONIC SC-2000 Thermal Efficiencies @ 60°F ΔT



# SONIC® Efficiency Curves



## SC3000

Return Water Temperature

**20° ΔT**

	60	80	100	120	140	160	180	MBtu
100%	99.7	97.2	94.7	91.9	88.3	87.8	87.2	3
75%		97.8	95.2	92	88.4	87.9	87.3	2.25
50%		98.1	95.4	92.2	88.5	88.1	87.4	1.5
25%	99.9	98.6	95.6	92.3	88.7	88.3	87.5	0.75

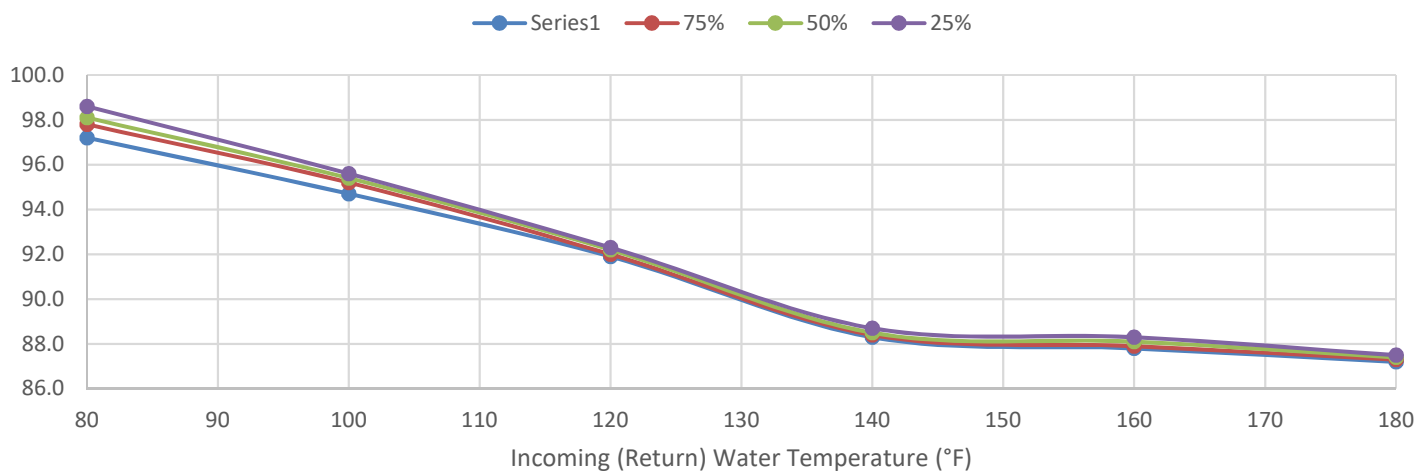
**40° ΔT**

	60	80	100	120	140	160	MBtu
100%	96.6	96	95.4	92	88.2	87.8	3
75%	97.7	96.7	95.7	92.1	88.3	87.9	2.25
50%	99	97.5	96	92.5	88.7	88.1	1.5
25%	99.9	98.5	96.2	93	89	88.3	0.75

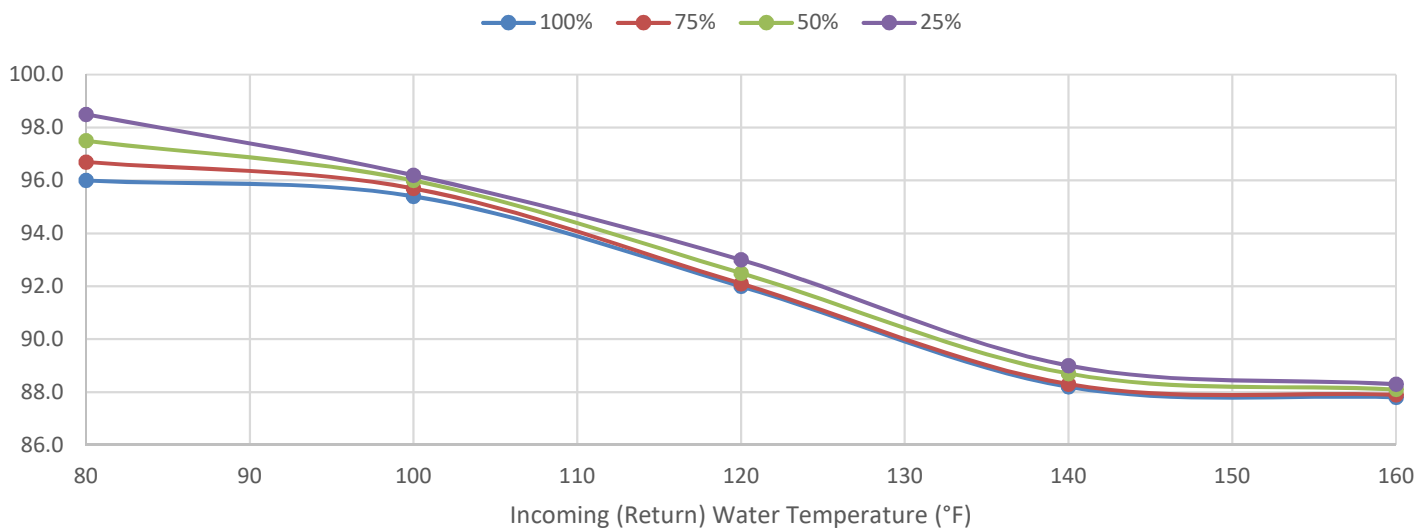
**60° ΔT**

	60	80	100	120	140	MBtu
100%	98.9	97	95.1	91.5	88.2	3
75%	99.9	97.6	95.3	91.9	88.4	2.25
50%		98	95.6	92.4	88.6	1.5
25%	99.9	98.2	95.9	92.8	89	0.75

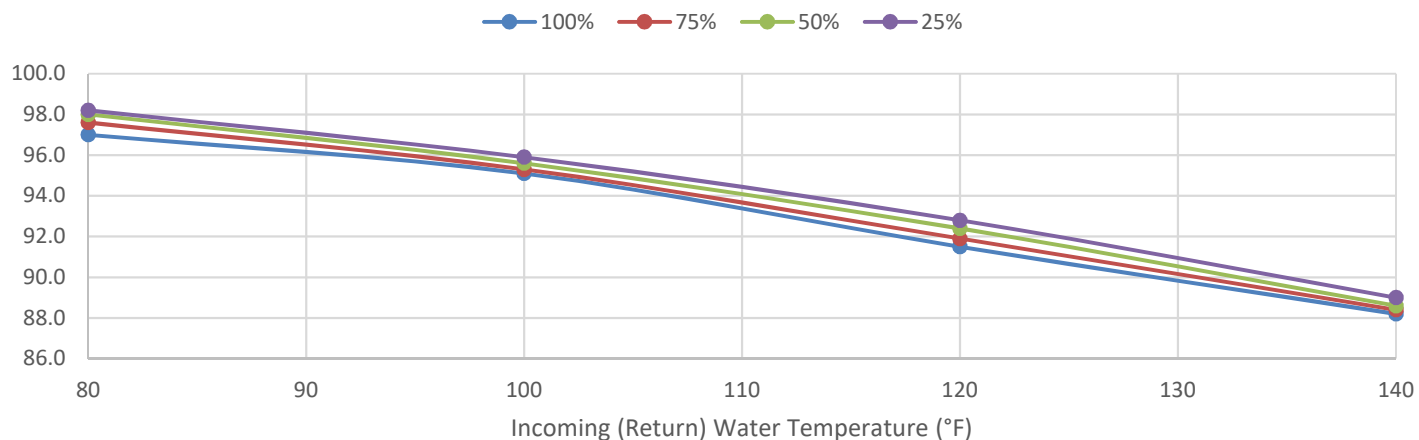
SONIC SC-3000 Thermal Efficiencies @ 20°F ΔT



SONIC SC-3000 Thermal Efficiencies @ 40°F ΔT



SONIC SC-3000 Thermal Efficiencies @ 60°F ΔT



# SONIC® Efficiency Curves



## SC4000

Return Water Temperature

**20° ΔT**

	60	80	100	120	140	160	180	MBtu
100%	97	95.9	94.6	91.5	88.1	87.6	87.1	4
75%	98.2	96.9	94.8	91.9	88.3	87.8	87.2	3
50%	98.9	97.9	95.3	92.1	88.4	88	87.3	2
25%	99.9	98.3	95.5	92.2	88.6	88.2	87.4	1

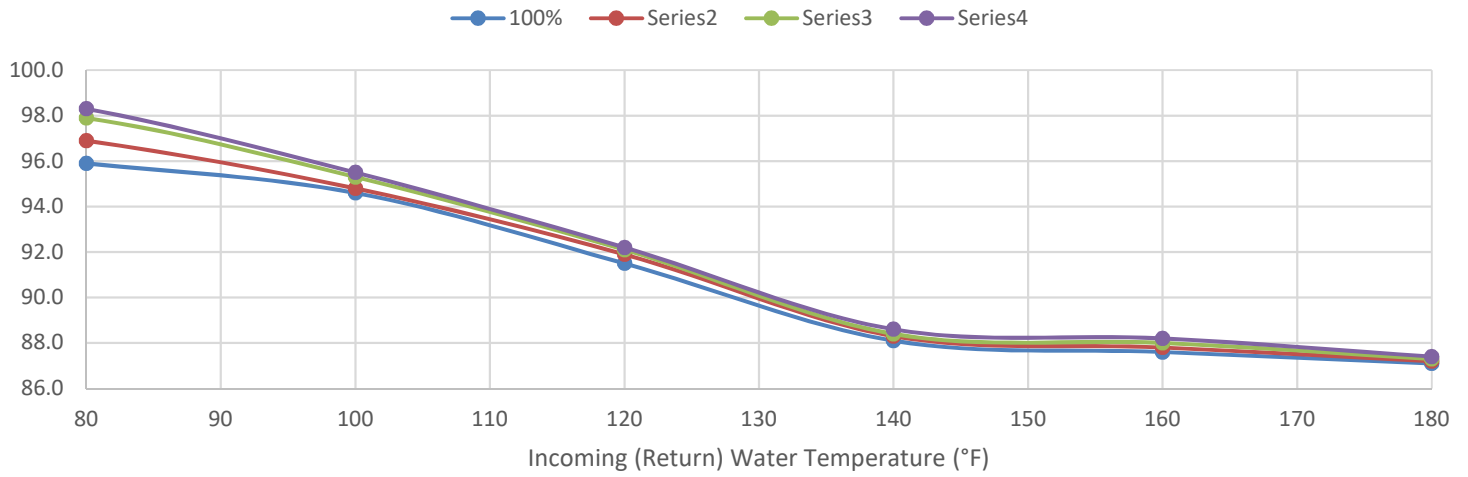
**40° ΔT**

	60	80	100	120	140	160	MBtu
100%		95.2	94.2	90.3	88.2	87.8	4
75%		95.7	95.1	91.5	88.2	87.8	3
50%		97	95.6	92.1	88.4	88	2
25%	99.9	98.2	95.8	92.7	88.9	88.2	1

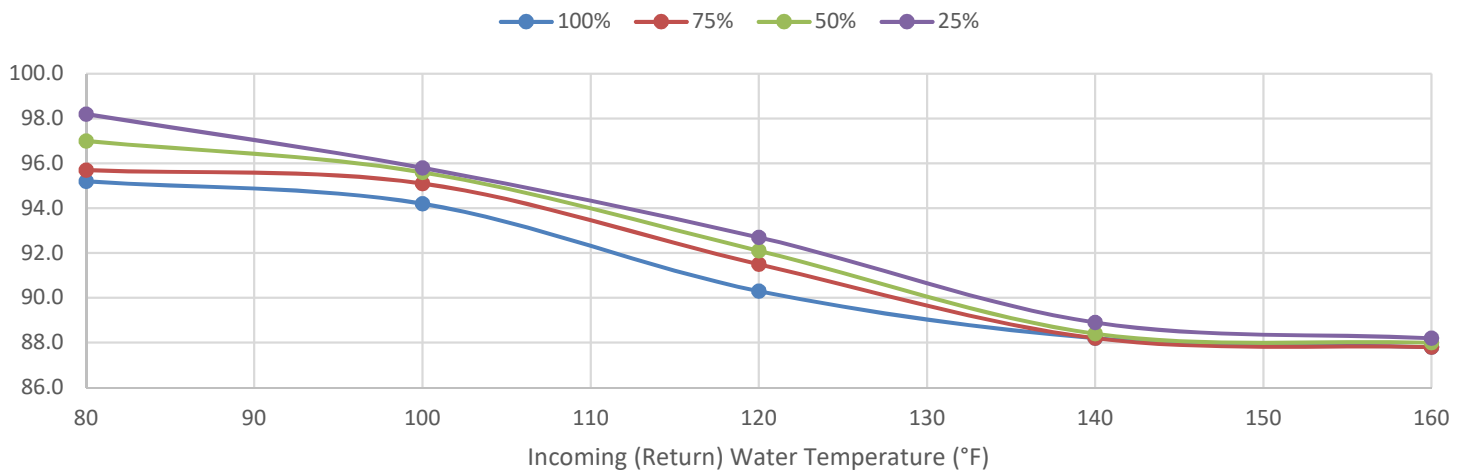
**60° ΔT**

	60	80	100	120	140	MBtu
100%		96.7	94.3	90.8	88.1	4
75%		97	94.9	91.5	88.2	3
50%		97.7	95.4	92	88.4	2
25%	99.7	98.1	95.8	92.8	89	1

SONIC SC-4000 Thermal Efficiencies @ 20°F ΔT



SONIC SC-4000 Thermal Efficiencies @ 40°F ΔT



SONIC SC-4000 Thermal Efficiencies @ 60°F ΔT

