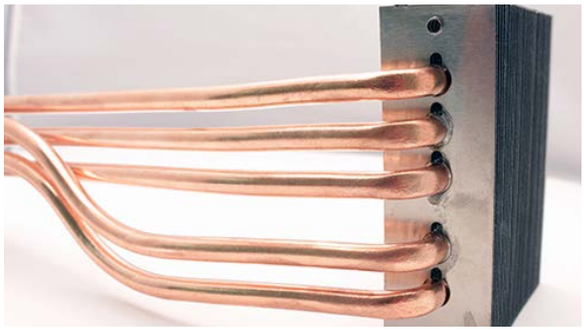
Heat Pipes

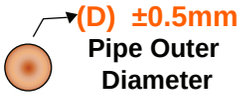
ATS' high performance **Round and Flat Heat Pipes** are used to transfer heat with minimal temperature difference or spread the heat across a surface. ATS' heat pipes are low profile and easily attach to a heat sink.



FEATURES & BENEFITS

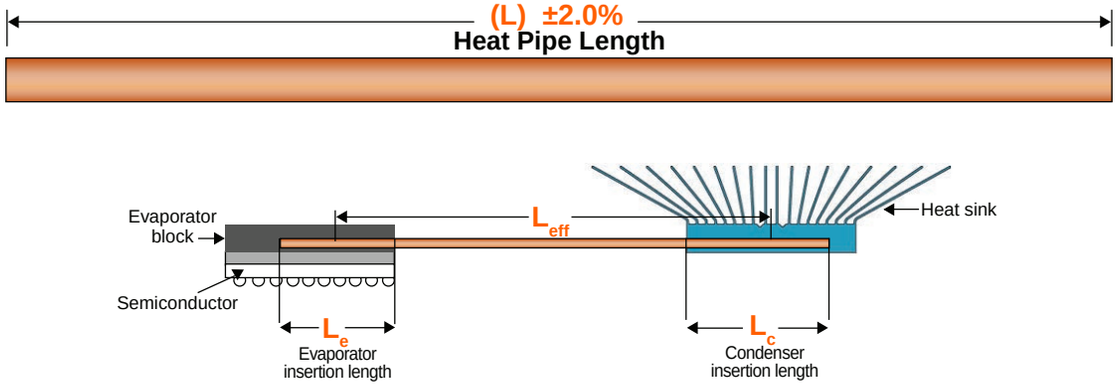
» Tube material: copper
» Wick structures: grooved or sintered copper powder
» High thermal conductivity
» Light weight
» Fast thermal response

ROUND HEAT PIPES



$$Q_{max} = \frac{Q_t}{L_{eff}} \times 1000$$

$$L_{eff} = L-(L_e+L_c)/2$$

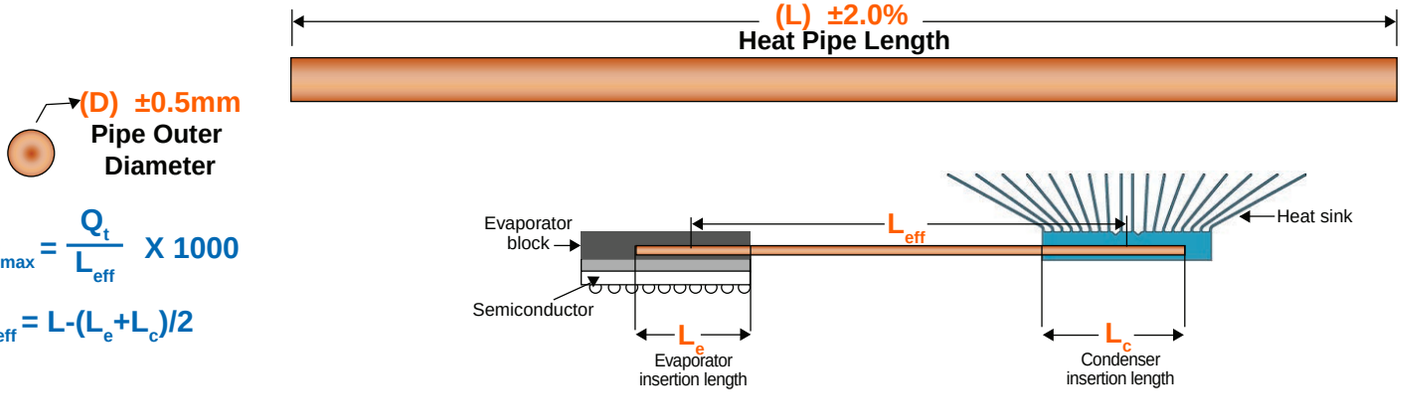


PRODUCT SPECIFICATIONS

L=Length (mm); D=Diameter (mm); WT=Wick Type (S=Sintered, G=Grooved); WF=Working Fluid; TR=Temperature Range (°C)

Part Number	L	D	WT	WF	TR	QT (W•m)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)
ATS-HP-D4L200G30W-001	200	4.0	G	Distilled H_20	30-120	4.1	100	41	125	32	150	27.0
ATS-HP-D4L300G20W-002	300	4.0	G	Distilled H_20	30-120	4.1	150	27	200	20	250	16.0
ATS-HP-D5L200G40W-003	200	5.0	G	Distilled H_20	30-120	4.7	100	47	125	38	150	32.0
ATS-HP-D5L300G25W-004	300	5.0	G	Distilled H_20	30-120	4.5	150	30	200	23	250	18.0
ATS-HP-D6L200G45W-005	200	6.0	G	Distilled H_20	30-120	6.4	100	64	125	51	150	42.0
ATS-HP-D6L300G30W-006	300	6.0	G	Distilled H_20	30-120	7.9	150	53	200	39	250	32.0
ATS-HP-D5L200S40W-007	200	5.0	S	Distilled H_20	30-120	4.1	100	41	125	32	150	27.0
ATS-HP-D5L300S25W-008	300	5.0	S	Distilled H_20	30-120	5.6	150	38	200	28	250	23.0
ATS-HP-D6L200S45W-009	200	6.0	S	Distilled H_20	30-120	2.0	100	20	125	16	150	14.0
ATS-HP-D6L300S30W-010	300	6.0	S	Distilled H_20	30-120	3.2	150	21	200	16	250	13.0
ATS-HP-D8L300S55W-011	300	8.0	S	Distilled H_20	30-120	7.2	150	48	200	36	250	29.0

Round Heat Pipes



$$Q_{max} = \frac{Q_t}{L_{eff}} \times 1000$$

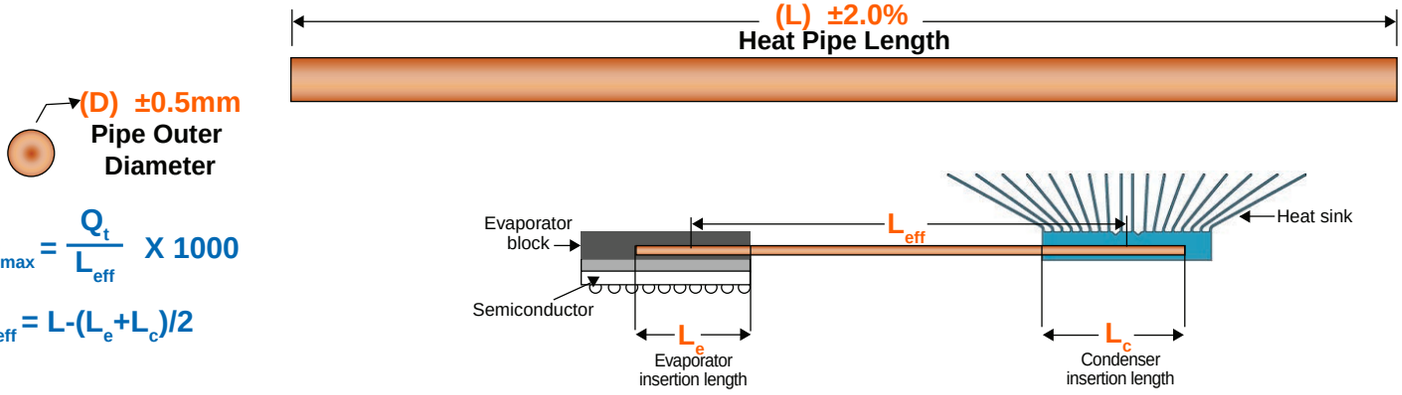
$$L_{eff} = L-(L_e+L_c)/2$$

PRODUCT SPECIFICATIONS

L=Length (mm); D=Diameter (mm); WT=Wick Type (S=Sintered, G=Grooved); WF=Working Fluid; TR=Temperature Range (°C)

Part Number	L	D	WT	WF	TR	QT (W•m)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)
ATS-HP-D3L70S26W-111	70	3	S	Distilled H_20	30-120	0.93	35	27	28	33	42	22
ATS-HP-D3L100S18W-112	100	3	S	Distilled H_20	30-120	0.94	50	19	40	23	60	16
ATS-HP-D3L150S12W-113	150	3	S	Distilled H_20	30-120	0.93	75	12	60	16	90	10
ATS-HP-D3L200S9W-114	200	3	S	Distilled H_20	30-120	0.94	100	9	80	12	120	8
ATS-HP-D4L70S71W-115	70	4	S	Distilled H_20	30-120	2.50	35	71	28	89	42	60
ATS-HP-D4L100S50W-116	100	4	S	Distilled H_20	30-120	2.50	50	50	40	63	60	42
ATS-HP-D4L150S33W-117	150	4	S	Distilled H_20	30-120	2.50	75	33	60	42	90	28
ATS-HP-D4L200S25W-118	200	4	S	Distilled H_20	30-120	2.50	100	25	80	31	120	21
ATS-HP-D4L250S20W-119	250	4	S	Distilled H_20	30-120	2.50	125	20	100	25	150	17
ATS-HP-D5L70S115W-120	70	5	S	Distilled H_20	30-120	4.05	35	116	28	145	42	96
ATS-HP-D5L100S80W-121	100	5	S	Distilled H_20	30-120	4.05	50	81	40	101	60	67
ATS-HP-D5L200S40W-123	200	5	S	Distilled H_20	30-120	4.05	100	40	80	51	120	34
ATS-HP-D5L250S32W-124	250	5	S	Distilled H_20	30-120	4.05	125	32	100	40	150	27
ATS-HP-D5L300S26W-125	300	5	S	Distilled H_20	30-120	4.05	150	27	120	34	180	22
ATS-HP-D5L350S23W-126	350	5	S	Distilled H_20	30-120	4.05	175	23	140	29	210	19
ATS-HP-D6L70S153W-127	70	6	S	Distilled H_20	30-120	5.38	35	154	28	192	42	128
ATS-HP-D6L100S107W-128	100	6	S	Distilled H_20	30-120	5.38	50	108	40	134	60	90
ATS-HP-D6L150S71W-129	150	6	S	Distilled H_20	30-120	5.38	75	72	60	90	90	60
ATS-HP-D6L200S53W-130	200	6	S	Distilled H_20	30-120	5.38	100	54	80	67	120	45
ATS-HP-D6L250S43W-131	250	6	S	Distilled H_20	30-120	5.38	125	43	100	54	150	36
ATS-HP-D6L300S35W-132	300	6	S	Distilled H_20	30-120	5.38	150	36	120	45	180	30
ATS-HP-D6L350S30W-133	350	6	S	Distilled H_20	30-120	5.38	175	31	140	38	210	26

Round Heat Pipes



$$Q_{max} = \frac{Q_t}{L_{eff}} \times 1000$$

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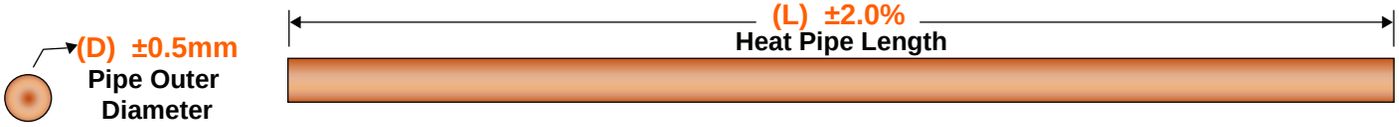
PRODUCT SPECIFICATIONS

L=Length (mm); D=Diameter (mm); WT=Wick Type (S=Sintered, G=Grooved); WF=Working Fluid; TR=Temperature Range (°C)

Part Number	L	D	WT	WF	TR	QT (W•m)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)
ATS-HP-D6L400S26W-134	400	6	S	Distilled H_2O	30-120	5.38	200	27	160	34	240	22
ATS-HP-D7L70S185W-135	70	7	S	Distilled H_2O	30-120	6.49	35	185	28	232	42	154
ATS-HP-D7L100S129W-136	100	7	S	Distilled H_2O	30-120	6.49	50	130	40	162	60	108
ATS-HP-D7L150S86W-137	150	7	S	Distilled H_2O	30-120	6.49	75	87	60	108	90	72
ATS-HP-D7L200S64W-138	200	7	S	Distilled H_2O	30-120	6.49	100	65	80	81	120	54
ATS-HP-D7L250S51W-139	250	7	S	Distilled H_2O	30-120	6.49	125	52	100	65	150	43
ATS-HP-D7L300S43W-140	300	7	S	Distilled H_2O	30-120	6.49	150	43	120	54	180	36
ATS-HP-D7L350S37W-141	350	7	S	Distilled H_2O	30-120	6.49	175	37	140	46	210	31
ATS-HP-D7L400S32W-142	400	7	S	Distilled H_2O	30-120	6.49	200	32	160	41	240	27
ATS-HP-D7L450S28W-143	450	7	S	Distilled H_2O	30-120	6.49	225	29	180	36	270	24
ATS-HP-D7L500S25W-144	500	7	S	Distilled H_2O	30-120	6.49	250	26	200	32	300	22
ATS-HP-D8L70S222W-145	70	8	S	Distilled H_2O	30-120	7.79	35	223	28	278	42	185
ATS-HP-D8L100S155W-146	100	8	S	Distilled H_2O	30-120	7.79	50	156	40	195	60	130
ATS-HP-D8L150S103W-147	150	8	S	Distilled H_2O	30-120	7.79	75	104	60	130	90	87
ATS-HP-D8L200S77W-148	200	8	S	Distilled H_2O	30-120	7.79	100	78	80	97	120	65
ATS-HP-D8L250S62W-149	250	8	S	Distilled H_2O	30-120	7.79	125	62	100	78	150	52
ATS-HP-D8L300S51W-150	300	8	S	Distilled H_2O	30-120	7.79	150	52	120	65	180	43
ATS-HP-D8L350S44W-151	350	8	S	Distilled H_2O	30-120	7.79	175	45	140	56	210	37
ATS-HP-D8L400S38W-152	400	8	S	Distilled H_2O	30-120	7.79	200	39	160	49	240	32
ATS-HP-D8L450S34W-153	450	8	S	Distilled H_2O	30-120	7.79	225	35	180	43	270	29
ATS-HP-D8L500S31W-154	500	8	S	Distilled H_2O	30-120	7.79	250	31	200	39	300	26

Round Heat Pipes



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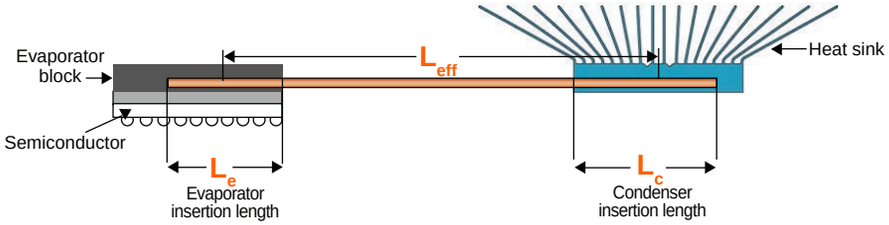

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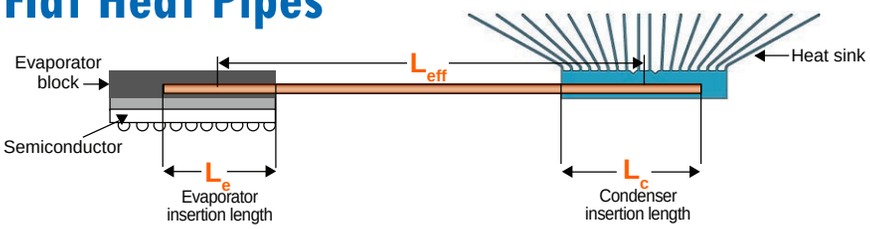
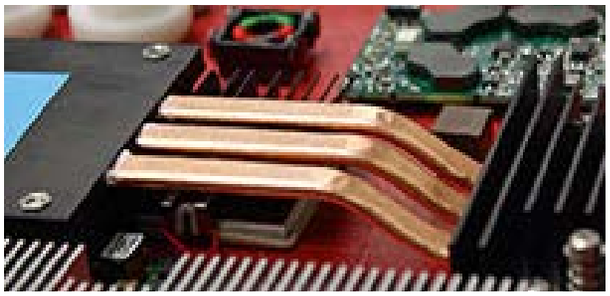
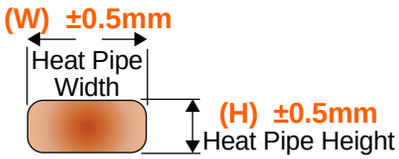
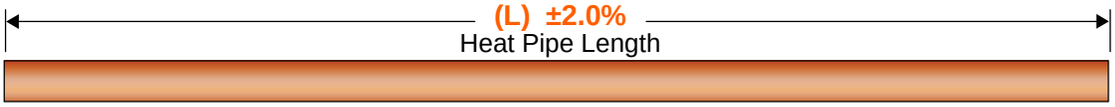
Part Number	L	D	WT	WF	TR	QT (W•m)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)
ATS-HP-D9.5L100S174W-155	100	9.5	S	Distilled H_20	30-120	8.72	50	174	40	218	60	145
ATS-HP-D9.5L150S116W-156	150	9.5	S	Distilled H_20	30-120	8.72	75	116	60	145	90	97
ATS-HP-D9.5L200S87W-157	200	9.5	S	Distilled H_20	30-120	8.72	100	87	80	109	120	73
ATS-HP-D9.5L250S69W-158	250	9.5	S	Distilled H_20	30-120	8.72	125	70	100	87	150	58
ATS-HP-D9.5L300S58W-159	300	9.5	S	Distilled H_20	30-120	8.72	150	58	120	73	180	48
ATS-HP-D9.5L350S49W-160	350	9.5	S	Distilled H_20	30-120	8.72	175	50	140	62	210	42
ATS-HP-D9.5L400S43W-161	400	9.5	S	Distilled H_20	30-120	8.72	200	44	160	54	240	36
ATS-HP-D9.5L450S38W-162	450	9.5	S	Distilled H_20	30-120	8.72	225	39	180	48	270	32
ATS-HP-D9.5L500S34W-163	500	9.5	S	Distilled H_20	30-120	8.72	250	35	200	44	300	29
ATS-HP-D9.5L550S31W-164	550	9.5	S	Distilled H_20	30-120	8.72	275	32	220	40	330	26
ATS-HP-D9.5L600S29W-165	600	9.5	S	Distilled H_20	30-120	8.72	300	29	240	36	360	24
ATS-HP-D10L100S199W-166	100	10	S	Distilled H_20	30-120	9.98	50	200	40	249	60	166
ATS-HP-D10L150S133W-167	150	10	S	Distilled H_20	30-120	9.98	75	133	60	166	90	111
ATS-HP-D10L200S99W-168	200	10	S	Distilled H_20	30-120	9.98	100	100	80	125	120	83
ATS-HP-D10L250S79W-169	250	10	S	Distilled H_20	30-120	9.98	125	80	100	100	150	67
ATS-HP-D10L300S66W-170	300	10	S	Distilled H_20	30-120	9.98	150	67	120	83	180	55
ATS-HP-D10L350S57W-171	350	10	S	Distilled H_20	30-120	9.98	175	57	140	71	210	48
ATS-HP-D10L400S49W-172	400	10	S	Distilled H_20	30-120	9.98	200	50	160	62	240	42
ATS-HP-D10L450S44W-173	450	10	S	Distilled H_20	30-120	9.98	225	44	180	55	270	37
ATS-HP-D10L500S39W-174	500	10	S	Distilled H_20	30-120	9.98	250	40	200	50	300	33
ATS-HP-D10L550S36W-175	550	10	S	Distilled H_20	30-120	9.98	275	36	220	45	330	30
ATS-HP-D10L600S33W-176	600	10	S	Distilled H_20	30-120	9.98	300	33	240	42	360	28

Flat Heat Pipes









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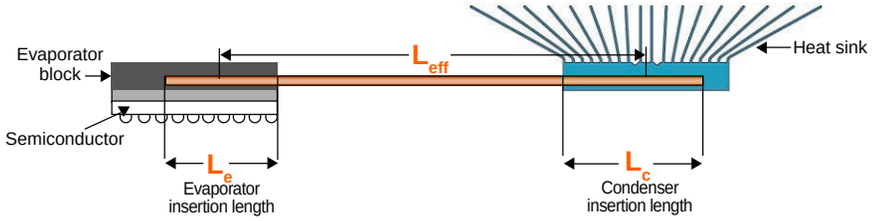
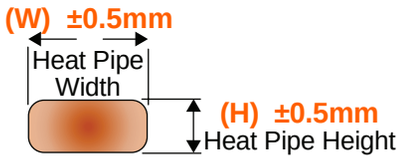
PRODUCT SPECIFICATIONS

L=Length (mm); W=Width (mm); H=Height (mm); WT=Wick Type (S=Sintered, G=Grooved); WF=Working Fluid; TR= Temperature Range (°C)

Part Number	L	W	H	WT	WF	TR	QT (W•m)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)
ATS-HP-F9L100S80W-012	100	10.50	4.50	S	Distilled H_2O	30-120	3.08	50	62	62.50	49	75	41
ATS-HP-F9L150S70W-013	150	10.50	4.50	S	Distilled H_2O	30-120	5.51	75	74	106.25	52	125	44
ATS-HP-F9L200S70W-014	200	10.50	4.50	S	Distilled H_2O	30-120	9.10	100	91	125	73	150	61
ATS-HP-F9L250S70W-015	250	10.50	4.50	S	Distilled H_2O	30-120	10.01	125	80	150	67	200	50
ATS-HP-F7L100S70W-016	100	11.20	3.50	S	Distilled H_2O	30-120	3.05	50	61	62.50	49	75	41
ATS-HP-F7L150S65W-017	150	11.20	3.50	S	Distilled H_2O	30-120	6.37	75	85	106.25	60	125	51
ATS-HP-F7L200S65W-018	200	11.20	3.50	S	Distilled H_2O	30-120	9.14	100	91	125	73	150	61
ATS-HP-F7L250S65W-019	250	11.20	3.50	S	Distilled H_2O	30-120	12.46	125	100	150	83	200	62
ATS-HP-F6L100S70W-020	100	8	3	S	Distilled H_2O	30-120	3.50	50	70	62.50	56	75	47
ATS-HP-F6L150S60W-021	150	8	3	S	Distilled H_2O	30-120	3.68	75	49	106.25	35	125	29
ATS-HP-F6L200S50W-022	200	8	3	S	Distilled H_2O	30-120	3.80	100	38	125	30	150	25
ATS-HP-F6L250S50W-023	250	8	3	S	Distilled H_2O	30-120	9.35	125	75	150	62	200	47
ATS-HP-F5L100S45W-024	100	8.20	2.50	S	Distilled H_2O	30-120	2.18	50	44	62.50	35	75	29
ATS-HP-F5L150S40W-025	150	8.20	2.50	S	Distilled H_2O	30-120	7.35	75	98	106.25	69	125	59
ATS-HP-F5L200S35W-026	200	8.20	2.50	S	Distilled H_2O	30-120	1.66	100	17	125	13	150	11
ATS-HP-F5L250S35W-027	250	8.20	2.50	S	Distilled H_2O	30-120	2.67	125	21	150	18	200	13
ATS-HP-F6L100S40W-028	100	8	3	S	Distilled H_2O	30-120	2.39	50	48	62.50	38	75	32
ATS-HP-F6L150S30W-029	150	8	3	S	Distilled H_2O	30-120	2.21	75	29	106.25	21	125	18
ATS-HP-F6L200S30W-030	200	8	3	S	Distilled H_2O	30-120	2.93	100	29	125	23	150	20
ATS-HP-F5L100S30W-031	100	8.20	2.50	S	Distilled H_2O	30-120	3.48	50	70	62.50	56	75	46
ATS-HP-F5L150S25W-032	150	8.20	2.50	S	Distilled H_2O	30-120	2.57	75	34	106.25	24	125	21
ATS-HP-F5L200S25W-033	200	8.20	2.50	S	Distilled H_2O	30-120	3.92	100	39	125	31	150	26

Flat Heat Pipes





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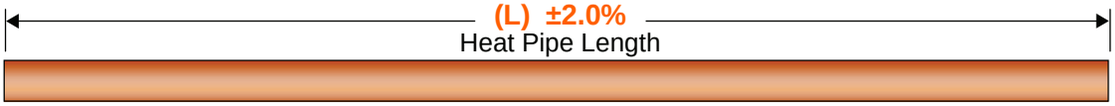

PRODUCT SPECIFICATIONS

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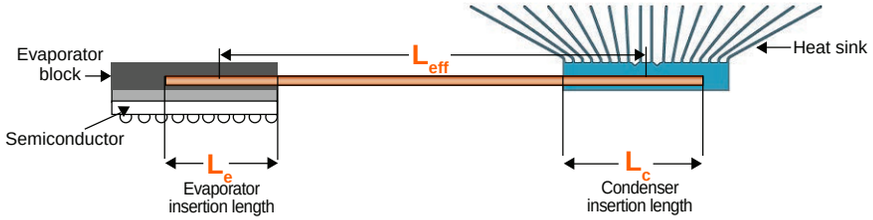
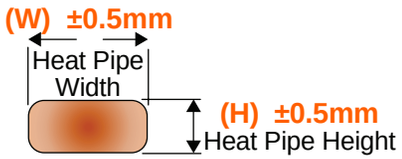
Part Number	L	W	H	WT	WF	TR	QT (W•m)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)
ATS-HP-F4L70S35W-178	70	5.39	2	S	Distilled H_20	30-120	1.86	53	35	42	44	63	29
ATS-HP-F4L100S25W-179	100	5.39	2	S	Distilled H_20	30-120	1.86	75	25	60	31	90	21
ATS-HP-F4L150S16W-180	150	5.39	2	S	Distilled H_20	30-120	1.86	113	16	90	21	135	14
ATS-HP-F4L200S12W-181	200	5.39	2	S	Distilled H_20	30-120	1.86	150	12	120	15	180	10
ATS-HP-F4L250S10W-182	250	5.39	2	S	Distilled H_20	30-120	1.86	188	10	150	12	225	8
ATS-HP-F4L300S8W-183	300	5.39	2	S	Distilled H_20	30-120	1.86	225	8	180	10	270	7
ATS-HP-F4L350S7W-184	350	5.39	2	S	Distilled H_20	30-120	1.86	263	7	210	9	315	6
ATS-HP-F4L70S39W-185	70	5.1	2.5	S	Distilled H_20	30-120	2.05	53	39	42	49	63	33
ATS-HP-F4L100S27W-186	100	5.1	2.5	S	Distilled H_20	30-120	2.05	75	27	60	34	90	23
ATS-HP-F4L150S18W-187	150	5.1	2.5	S	Distilled H_20	30-120	2.05	113	18	90	23	135	15
ATS-HP-F4L200S14W-188	200	5.1	2.5	S	Distilled H_20	30-120	2.05	150	14	120	17	180	11
ATS-HP-F4L250S11W-189	250	5.1	2.5	S	Distilled H_20	30-120	2.05	188	11	150	14	225	9
ATS-HP-F4L300S9W-190	300	5.1	2.5	S	Distilled H_20	30-120	2.05	225	9	180	11	270	8
ATS-HP-F4L350S8W-191	350	5.1	2.5	S	Distilled H_20	30-120	2.05	263	8	210	10	315	7
ATS-HP-F4L70S41W-192	70	4.83	3	S	Distilled H_20	30-120	2.17	53	41	42	52	63	34
ATS-HP-F4L100S29W-193	100	4.83	3	S	Distilled H_20	30-120	2.17	75	29	60	36	90	24
ATS-HP-F4L150S19W-194	150	4.83	3	S	Distilled H_20	30-120	2.17	113	19	90	24	135	16
ATS-HP-F4L200S14W-195	200	4.83	3	S	Distilled H_20	30-120	2.17	150	14	120	18	180	12
ATS-HP-F4L250S12W-196	250	4.83	3	S	Distilled H_20	30-120	2.17	188	12	150	14	225	10
ATS-HP-F4L300S10W-197	300	4.83	3	S	Distilled H_20	30-120	2.17	225	10	180	12	270	8
ATS-HP-F4L350S8W-198	350	4.83	3	S	Distilled H_20	30-120	2.17	263	8	210	10	315	7
ATS-HP-F5L70S45W-199	70	6.95	2	S	Distilled H_20	30-120	2.38	53	45	42	57	63	38
ATS-HP-F5L100S32W-200	100	6.95	2	S	Distilled H_20	30-120	2.38	75	32	60	40	90	26
ATS-HP-F5L150S21W-201	150	6.95	2	S	Distilled H_20	30-120	2.38	113	21	90	26	135	18
ATS-HP-F5L200S16W-202	200	6.95	2	S	Distilled H_20	30-120	2.38	150	16	120	20	180	13

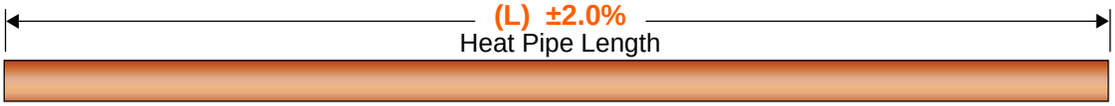
Flat Heat Pipes





$$Q_{max} = \frac{Q_t}{L_{eff}} \text{ X } 1000$$

$$L_{eff} = L-(L_e+L_c)/2$$

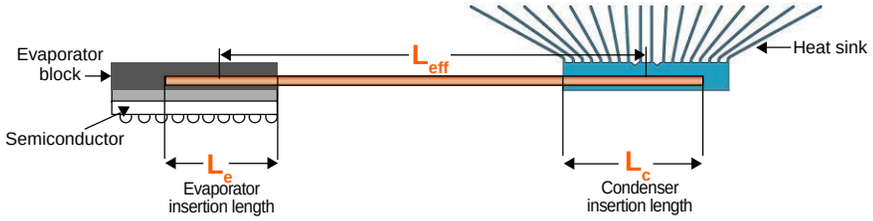


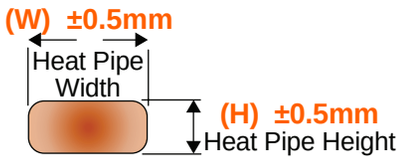
PRODUCT SPECIFICATIONS

L=Length (mm); W=Width (mm); H=Height (mm); WT=Wick Type (S=Sintered, G=Grooved); WF=Working Fluid; TR= Temperature Range (°C)

Part Number	L	W	H	WT	WF	TR	QT (W•m)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)
ATS-HP-F5L250S13W-203	250	6.95	2	S	Distilled H_20	30-120	2.38	188	13	150	16	225	11
ATS-HP-F5L300S11W-204	300	6.95	2	S	Distilled H_20	30-120	2.38	225	11	180	13	270	9
ATS-HP-F5L350S9W-205	350	6.95	2	S	Distilled H_20	30-120	2.38	263	9	210	11	315	8
ATS-HP-F5L400S8W-206	400	6.95	2	S	Distilled H_20	30-120	2.38	300	8	240	10	360	7
ATS-HP-F5L70S50W-207	70	6.69	2.5	S	Distilled H_20	30-120	2.61	53	50	42	62	63	41
ATS-HP-F5L100S35W-208	100	6.69	2.5	S	Distilled H_20	30-120	2.61	75	35	60	44	90	29
ATS-HP-F5L150S23W-209	150	6.69	2.5	S	Distilled H_20	30-120	2.61	113	23	90	29	135	19
ATS-HP-F5L200S17W-210	200	6.69	2.5	S	Distilled H_20	30-120	2.61	150	17	120	22	180	15
ATS-HP-F5L250S14W-211	250	6.69	2.5	S	Distilled H_20	30-120	2.61	188	14	150	17	225	12
ATS-HP-F5L300S12W-212	300	6.69	2.5	S	Distilled H_20	30-120	2.61	225	12	180	15	270	10
ATS-HP-F5L350S10W-213	350	6.69	2.5	S	Distilled H_20	30-120	2.61	263	10	210	12	315	8
ATS-HP-F5L400S9W-214	400	6.69	2.5	S	Distilled H_20	30-120	2.61	300	9	240	11	360	7
ATS-HP-F5L70S52W-215	70	6.44	3	S	Distilled H_20	30-120	2.74	53	52	42	65	63	44
ATS-HP-F5L100S37W-216	100	6.44	3	S	Distilled H_20	30-120	2.74	75	37	60	46	90	30
ATS-HP-F5L150S24W-217	150	6.44	3	S	Distilled H_20	30-120	2.74	113	24	90	30	135	20
ATS-HP-F5L200S18W-218	200	6.44	3	S	Distilled H_20	30-120	2.74	150	18	120	23	180	15
ATS-HP-F5L250S15W-219	250	6.44	3	S	Distilled H_20	30-120	2.74	188	15	150	18	225	12
ATS-HP-F5L300S12W-220	300	6.44	3	S	Distilled H_20	30-120	2.74	225	12	180	15	270	10
ATS-HP-F5L350S10W-221	350	6.44	3	S	Distilled H_20	30-120	2.74	263	10	210	13	315	9
ATS-HP-F5L400S9W-222	400	6.44	3	S	Distilled H_20	30-120	2.74	300	9	240	11	360	8
ATS-HP-F5L70S54W-223	70	6.18	3.5	S	Distilled H_20	30-120	2.85	53	54	42	68	63	45
ATS-HP-F5L100S38W-224	100	6.18	3.5	S	Distilled H_20	30-120	2.85	75	38	60	47	90	32
ATS-HP-F5L150S25W-225	150	6.18	3.5	S	Distilled H_20	30-120	2.85	113	25	90	32	135	21
ATS-HP-F5L200S19W-226	200	6.18	3.5	S	Distilled H_20	30-120	2.85	150	19	120	24	180	16
ATS-HP-F5L250S15W-227	250	6.18	3.5	S	Distilled H_20	30-120	2.85	188	15	150	19	225	13

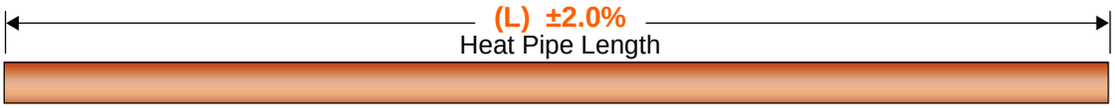
Flat Heat Pipes





$$Q_{max} = \frac{Q_t}{L_{eff}} \text{ X } 1000$$

$$L_{eff} = L-(L_e+L_c)/2$$

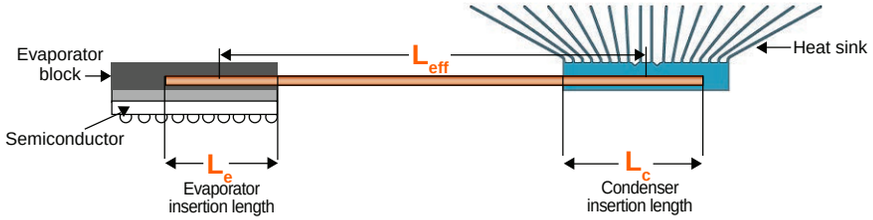


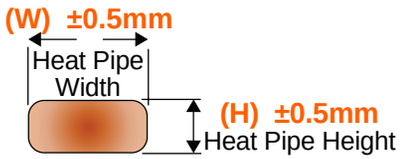
PRODUCT SPECIFICATIONS

L=Length (mm); W=Width (mm); H=Height (mm); WT=Wick Type (S=Sintered, G=Grooved); WF=Working Fluid; TR= Temperature Range (°C)

Part Number	L	W	W	WT	WF	TR	QT (W•m)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)
ATS-HP-F5L300S13W-228	300	6.18	3.5	S	Distilled H_20	30-120	2.85	225	13	180	16	270	11
ATS-HP-F5L350S11W-229	350	6.18	3.5	S	Distilled H_20	30-120	2.85	263	11	210	14	315	9
ATS-HP-F5L400S9W-230	400	6.18	3.5	S	Distilled H_20	30-120	2.85	300	9	240	12	360	8
ATS-HP-F5L70S56W-231	70	5.9	4	S	Distilled H_20	30-120	2.93	53	56	42	70	63	47
ATS-HP-F5L100S39W-232	100	5.9	4	S	Distilled H_20	30-120	2.93	75	39	60	49	90	33
ATS-HP-F5L150S26W-233	150	5.9	4	S	Distilled H_20	30-120	2.93	113	26	90	33	135	22
ATS-HP-F5L200S20W-234	200	5.9	4	S	Distilled H_20	30-120	2.93	150	20	120	24	180	16
ATS-HP-F5L250S16W-235	250	5.9	4	S	Distilled H_20	30-120	2.93	188	16	150	20	225	13
ATS-HP-F5L300S13W-236	300	5.9	4	S	Distilled H_20	30-120	2.93	225	13	180	16	270	11
ATS-HP-F5L350S11W-237	350	5.9	4	S	Distilled H_20	30-120	2.93	263	11	210	14	315	9
ATS-HP-F5L400S10W-238	400	5.9	4	S	Distilled H_20	30-120	2.93	300	10	240	12	360	8
ATS-HP-F6L70S56W-239	70	8.6	2	S	Distilled H_20	30-120	2.93	53	56	42	70	63	46
ATS-HP-F6L100S39W-240	100	8.6	2	S	Distilled H_20	30-120	2.93	75	39	60	49	90	33
ATS-HP-F6L150S26W-241	150	8.6	2	S	Distilled H_20	30-120	2.93	113	26	90	33	135	22
ATS-HP-F6L200S20W-242	200	8.6	2	S	Distilled H_20	30-120	2.93	150	20	120	24	180	16
ATS-HP-F6L250S16W-243	250	8.6	2	S	Distilled H_20	30-120	2.93	188	16	150	20	225	13
ATS-HP-F6L300S13W-244	300	8.6	2	S	Distilled H_20	30-120	2.93	225	13	180	16	270	11
ATS-HP-F6L70S59W-245	70	8.37	2.3	S	Distilled H_20	30-120	3.09	53	59	42	74	63	49
ATS-HP-F6L100S41W-246	100	8.37	2.3	S	Distilled H_20	30-120	3.09	75	41	60	51	90	34
ATS-HP-F6L150S27W-247	150	8.37	2.3	S	Distilled H_20	30-120	3.09	113	27	90	34	135	23
ATS-HP-F6L200S21W-248	200	8.37	2.3	S	Distilled H_20	30-120	3.09	150	21	120	26	180	17
ATS-HP-F6L250S16W-249	250	8.37	2.3	S	Distilled H_20	30-120	3.09	188	16	150	21	225	14
ATS-HP-F6L300S14W-250	300	8.37	2.3	S	Distilled H_20	30-120	3.09	225	14	180	17	270	11
ATS-HP-F6L70S60W-251	70	8.28	2.5	S	Distilled H_20	30-120	3.17	53	60	42	75	63	50

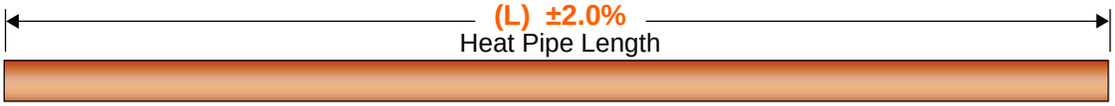
Flat Heat Pipes





$$Q_{max} = \frac{Q_t}{L_{eff}} \text{ X } 1000$$

$$L_{eff} = L-(L_e+L_c)/2$$

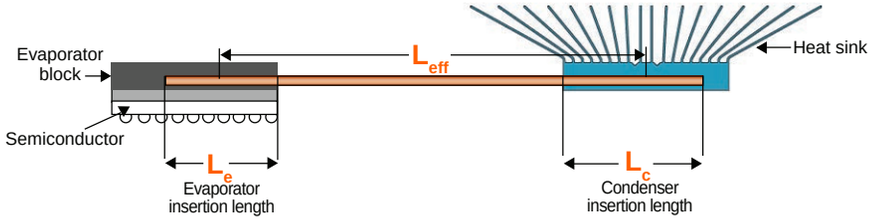


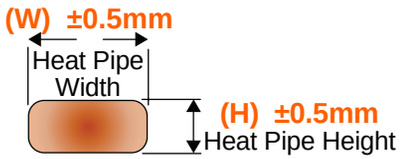
PRODUCT SPECIFICATIONS

L=Length (mm); W=Width (mm); H=Height (mm); WT=Wick Type (S=Sintered, G=Grooved); WF=Working Fluid; TR= Temperature Range (°C)

Part Number	L	W	H	WT	WF	TR	QT (W•m)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)
ATS-HP-F6L100S42W-252	100	8.28	2.5	S	Distilled H_20	30-120	3.17	75	42	60	53	90	35
ATS-HP-F6L150S28W-253	150	8.28	2.5	S	Distilled H_20	30-120	3.17	113	28	90	35	135	23
ATS-HP-F6L200S21W-254	200	8.28	2.5	S	Distilled H_20	30-120	3.17	150	21	120	26	180	18
ATS-HP-F6L250S17W-255	250	8.28	2.5	S	Distilled H_20	30-120	3.17	188	17	150	21	225	14
ATS-HP-F6L300S14W-256	300	8.28	2.5	S	Distilled H_20	30-120	3.17	225	14	180	18	270	12
ATS-HP-F6L350S12W-257	350	8.28	2.5	S	Distilled H_2O	30-120	3.17	263	12	210	15	315	10
ATS-HP-F6L400S11W-258	400	8.28	2.5	S	Distilled H_2O	30-120	3.17	300	11	240	13	360	9
ATS-HP-F6L70S62W-259	70	8.19	2.7	S	Distilled H_2O	30-120	3.23	53	62	42	77	63	51
ATS-HP-F6L100S43W-260	100	8.19	2.7	S	Distilled H_2O	30-120	3.23	75	43	60	54	90	36
ATS-HP-F6L150S29W-261	150	8.19	2.7	S	Distilled H_2O	30-120	3.23	113	29	90	36	135	24
ATS-HP-F6L200S22W-262	200	8.19	2.7	S	Distilled H_2O	30-120	3.23	150	22	120	27	180	18
ATS-HP-F6L250S17W-263	250	8.19	2.7	S	Distilled H_2O	30-120	3.23	188	17	150	22	225	14
ATS-HP-F6L300S14W-264	300	8.19	2.7	S	Distilled H_20	30-120	3.23	225	14	180	18	270	12
ATS-HP-F6L350S12W-265	350	8.19	2.7	S	Distilled H_20	30-120	3.23	263	12	210	15	315	10
ATS-HP-F6L400S11W-266	400	8.19	2.7	S	Distilled H_20	30-120	3.23	300	11	240	13	360	9
ATS-HP-F6L70S62W-267	70	8.13	2.8	S	Distilled H_20	30-120	3.26	53	62	42	78	63	52
ATS-HP-F6L100S43W-268	100	8.13	2.8	S	Distilled H_20	30-120	3.26	75	43	60	54	90	36
ATS-HP-F6L150S29W-269	150	8.13	2.8	S	Distilled H_20	30-120	3.26	113	29	90	36	135	24
ATS-HP-F6L200S22W-270	200	8.13	2.8	S	Distilled H_20	30-120	3.26	150	22	120	27	180	18
ATS-HP-F6L250S17W-271	250	8.13	2.8	S	Distilled H_20	30-120	3.26	188	17	150	22	225	14
ATS-HP-F6L300S14W-272	300	8.13	2.8	S	Distilled H_20	30-120	3.26	225	14	180	18	270	12
ATS-HP-F6L350S12W-273	350	8.13	2.8	S	Distilled H_20	30-120	3.26	263	12	210	16	315	10
ATS-HP-F6L400S11W-274	400	8.13	2.8	S	Distilled H_20	30-120	3.26	300	11	240	14	360	9
ATS-HP-F6L70S63W-275	70	8.05	3	S	Distilled H_20	30-120	3.31	53	63	42	79	63	53
ATS-HP-F6L100S44W-276	100	8.05	3	S	Distilled H_20	30-120	3.31	75	44	60	55	90	37

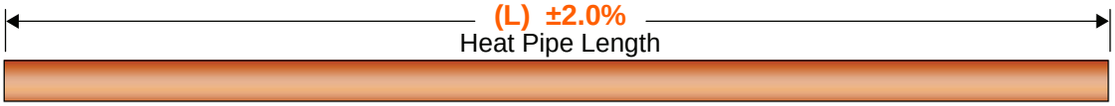
Flat Heat Pipes





$$Q_{max} = \frac{Q_t}{L_{eff}} \text{ X } 1000$$

$$L_{eff} = L-(L_e+L_c)/2$$

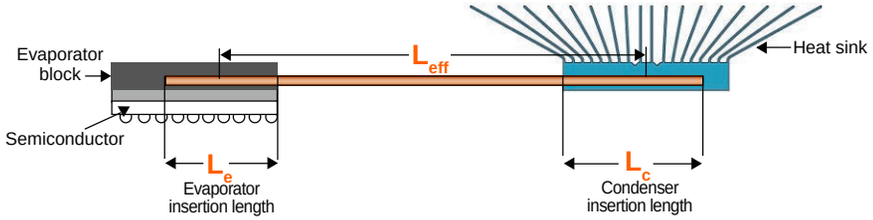


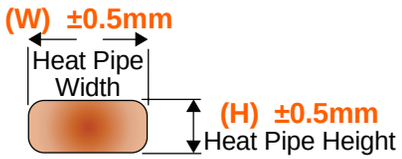
PRODUCT SPECIFICATIONS

L=Length (mm); W=Width (mm); H=Height (mm); WT=Wick Type (S=Sintered, G=Grooved); WF=Working Fluid; TR= Temperature Range (°C)

Part Number	L	W	H	WT	WF	TR	QT (W•m)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)
ATS-HP-F6L150S29W-277	150	8.05	3	S	Distilled H_20	30-120	3.31	113	29	90	37	135	25
ATS-HP-F6L200S22W-278	200	8.05	3	S	Distilled H_20	30-120	3.31	150	22	120	28	180	18
ATS-HP-F6L250S18W-279	250	8.05	3	S	Distilled H_20	30-120	3.31	188	18	150	22	225	15
ATS-HP-F6L300S15W-280	300	8.05	3	S	Distilled H_20	30-120	3.31	225	15	180	18	270	12
ATS-HP-F6L350S13W-281	350	8.05	3	S	Distilled H_20	30-120	3.31	263	13	210	16	315	11
ATS-HP-F6L400S11W-282	400	8.05	3	S	Distilled H_2O	30-120	3.31	300	11	240	14	360	9
ATS-HP-F6L70S64W-283	70	7.9	3.2	S	Distilled H_2O	30-120	3.34	53	64	42	80	63	53
ATS-HP-F6L100S45W-284	100	7.9	3.2	S	Distilled H_2O	30-120	3.34	75	45	60	56	90	37
ATS-HP-F6L150S30W-285	150	7.9	3.2	S	Distilled H_2O	30-120	3.34	113	30	90	37	135	25
ATS-HP-F6L200S22W-286	200	7.9	3.2	S	Distilled H_2O	30-120	3.34	150	22	120	28	180	19
ATS-HP-F6L250S18W-287	250	7.9	3.2	S	Distilled H_2O	30-120	3.34	188	18	150	22	225	15
ATS-HP-F6L300S15W-288	300	7.9	3.2	S	Distilled H_2O	30-120	3.34	225	15	180	19	270	12
ATS-HP-F6L350S13W-289	350	7.9	3.2	S	Distilled H_20	30-120	3.34	263	13	210	16	315	11
ATS-HP-F6L400S11W-290	400	7.9	3.2	S	Distilled H_20	30-120	3.34	300	11	240	14	360	9
ATS-HP-F6L70S65W-291	70	7.75	3.5	S	Distilled H_20	30-120	3.41	53	65	42	81	63	54
ATS-HP-F6L100S45W-292	100	7.75	3.5	S	Distilled H_20	30-120	3.41	75	45	60	57	90	38
ATS-HP-F6L150S30W-293	150	7.75	3.5	S	Distilled H_20	30-120	3.41	113	30	90	38	135	25
ATS-HP-F6L200S23W-294	200	7.75	3.5	S	Distilled H_20	30-120	3.41	150	23	120	28	180	19
ATS-HP-F6L250S18W-295	250	7.75	3.5	S	Distilled H_20	30-120	3.41	188	18	150	23	225	15
ATS-HP-F6L300S15W-296	300	7.75	3.5	S	Distilled H_20	30-120	3.41	225	15	180	19	270	13
ATS-HP-F6L350S13W-297	350	7.75	3.5	S	Distilled H_20	30-120	3.41	263	13	210	16	315	11
ATS-HP-F6L400S11W-298	400	7.75	3.5	S	Distilled H_20	30-120	3.41	300	11	240	14	360	9
ATS-HP-F6L70S66W-299	70	7.61	3.8	S	Distilled H_20	30-120	3.47	53	66	42	83	63	55
ATS-HP-F6L100S46W-300	100	7.61	3.8	S	Distilled H_20	30-120	3.47	75	46	60	58	90	39
ATS-HP-F6L150S31W-301	150	7.61	3.8	S	Distilled H_20	30-120	3.47	113	31	90	39	135	26

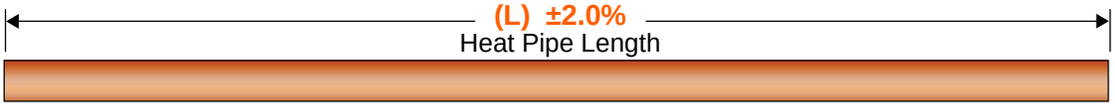
Flat Heat Pipes





$$Q_{max} = \frac{Q_t}{L_{eff}} \text{ X } 1000$$

$$L_{eff} = L-(L_e+L_c)/2$$

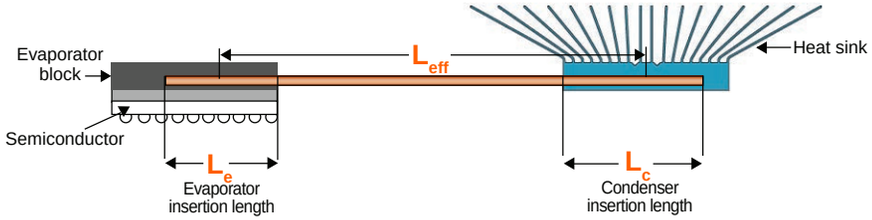


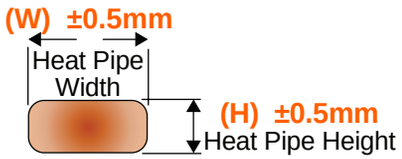
PRODUCT SPECIFICATIONS

L=Length (mm); W=Width (mm); H=Height (mm); WT=Wick Type (S=Sintered, G=Grooved); WF=Working Fluid; TR= Temperature Range (°C)

Part Number	L	W	H	WT	WF	TR	QT (W•m)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)
ATS-HP-F6L200S23W-302	200	7.61	3.8	S	Distilled H_20	30-120	3.47	150	23	120	29	180	19
ATS-HP-F6L250S18W-303	250	7.61	3.8	S	Distilled H_20	30-120	3.47	188	18	150	23	225	15
ATS-HP-F6L300S15W-304	300	7.61	3.8	S	Distilled H_20	30-120	3.47	225	15	180	19	270	13
ATS-HP-F6L350S13W-305	350	7.61	3.8	S	Distilled H_20	30-120	3.47	263	13	210	17	315	11
ATS-HP-F6L400S12W-306	400	7.61	3.8	S	Distilled H_20	30-120	3.47	300	12	240	14	360	10
ATS-HP-F6L70S67W-307	70	7.49	4	S	Distilled H_2O	30-120	3.50	53	67	42	83	63	56
ATS-HP-F6L100S47W-308	100	7.49	4	S	Distilled H_2O	30-120	3.50	75	47	60	58	90	39
ATS-HP-F6L150S31W-309	150	7.49	4	S	Distilled H_2O	30-120	3.50	113	31	90	39	135	26
ATS-HP-F6L200S23W-310	200	7.49	4	S	Distilled H_2O	30-120	3.50	150	23	120	29	180	19
ATS-HP-F6L250S19W-311	250	7.49	4	S	Distilled H_2O	30-120	3.50	188	19	150	23	225	16
ATS-HP-F6L300S16W-312	300	7.49	4	S	Distilled H_2O	30-120	3.50	225	16	180	19	270	13
ATS-HP-F6L350S13W-313	350	7.49	4	S	Distilled H_2O	30-120	3.50	263	13	210	17	315	11
ATS-HP-F6L400S12W-314	400	7.49	4	S	Distilled H_20	30-120	3.50	300	12	240	15	360	10
ATS-HP-F6L70S68W-315	70	7.35	4.3	S	Distilled H_20	30-120	3.56	53	68	42	85	63	57
ATS-HP-F6L100S47W-316	100	7.35	4.3	S	Distilled H_20	30-120	3.56	75	47	60	59	90	40
ATS-HP-F6L150S32W-317	150	7.35	4.3	S	Distilled H_20	30-120	3.56	113	32	90	40	135	26
ATS-HP-F6L200S24W-318	200	7.35	4.3	S	Distilled H_20	30-120	3.56	150	24	120	30	180	20
ATS-HP-F6L250S19W-319	250	7.35	4.3	S	Distilled H_20	30-120	3.56	188	19	150	24	225	16
ATS-HP-F6L300S16W-320	300	7.35	4.3	S	Distilled H_20	30-120	3.56	225	16	180	20	270	13
ATS-HP-F6L350S14W-321	350	7.35	4.3	S	Distilled H_20	30-120	3.56	263	14	210	17	315	11
ATS-HP-F6L400S12W-322	400	7.35	4.3	S	Distilled H_20	30-120	3.56	300	12	240	15	360	10
ATS-HP-F6L70S68W-323	70	7.23	4.5	S	Distilled H_20	30-120	3.59	53	68	42	85	63	57
ATS-HP-F6L100S48W-324	100	7.23	4.5	S	Distilled H_20	30-120	3.59	75	48	60	60	90	40
ATS-HP-F6L150S32W-325	150	7.23	4.5	S	Distilled H_20	30-120	3.59	113	32	90	40	135	27

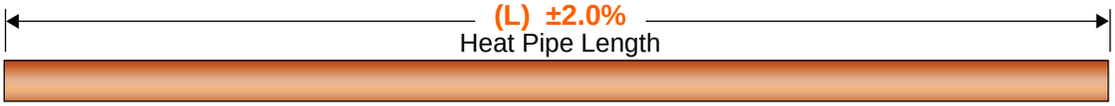
Flat Heat Pipes





$$Q_{max} = \frac{Q_t}{L_{eff}} \text{ X } 1000$$

$$L_{eff} = L-(L_e+L_c)/2$$



PRODUCT SPECIFICATIONS

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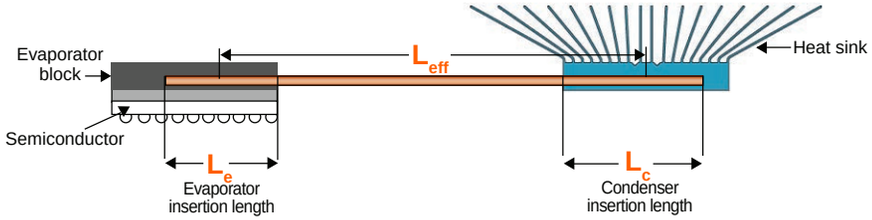
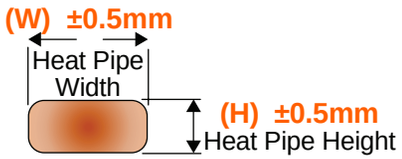
Part Number	L	W	H	WT	WF	TR	QT (W•m)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)
ATS-HP-F6L200S24W-326	200	7.23	4.5	S	Distilled H_20	30-120	3.59	150	24	120	30	180	20
ATS-HP-F6L250S19W-327	250	7.23	4.5	S	Distilled H_20	30-120	3.59	188	19	150	24	225	16
ATS-HP-F6L300S16W-328	300	7.23	4.5	S	Distilled H_20	30-120	3.59	225	16	180	20	270	13
ATS-HP-F6L350S14W-329	350	7.23	4.5	S	Distilled H_20	30-120	3.59	263	14	210	17	315	11
ATS-HP-F6L400S12W-330	400	7.23	4.5	S	Distilled H_20	30-120	3.59	300	12	240	15	360	10
ATS-HP-F6L70S69W-331	70	7.07	4.8	S	Distilled H_20	30-120	3.64	53	69	42	87	63	58
ATS-HP-F6L100S49W-332	100	7.07	4.8	S	Distilled H_2O	30-120	3.64	75	49	60	61	90	40
ATS-HP-F6L150S32W-333	150	7.07	4.8	S	Distilled H_2O	30-120	3.64	113	32	90	40	135	27
ATS-HP-F6L200S24W-334	200	7.07	4.8	S	Distilled H_2O	30-120	3.64	150	24	120	30	180	20
ATS-HP-F6L250S19W-335	250	7.07	4.8	S	Distilled H_2O	30-120	3.64	188	19	150	24	225	16
ATS-HP-F6L300S16W-336	300	7.07	4.8	S	Distilled H_2O	30-120	3.64	225	16	180	20	270	13
ATS-HP-F6L350S14W-337	350	7.07	4.8	S	Distilled H_2O	30-120	3.64	263	14	210	17	315	12
ATS-HP-F6L400S12W-338	400	7.07	4.8	S	Distilled H_2O	30-120	3.64	300	12	240	15	360	10
ATS-HP-F6L70S70W-339	70	6.97	5	S	Distilled H_20	30-120	3.68	53	70	42	88	63	58
ATS-HP-F6L100S49W-340	100	6.97	5	S	Distilled H_20	30-120	3.68	75	49	60	61	90	41
ATS-HP-F6L150S33W-341	150	6.97	5	S	Distilled H_20	30-120	3.68	113	33	90	41	135	27
ATS-HP-F6L200S25W-342	200	6.97	5	S	Distilled H_20	30-120	3.68	150	25	120	31	180	20
ATS-HP-F6L250S20W-343	250	6.97	5	S	Distilled H_20	30-120	3.68	188	20	150	25	225	16
ATS-HP-F6L300S16W-344	300	6.97	5	S	Distilled H_20	30-120	3.68	225	16	180	20	270	14
ATS-HP-F6L350S14W-345	350	6.97	5	S	Distilled H_20	30-120	3.68	263	14	210	18	315	12
ATS-HP-F6L400S12W-346	400	6.97	5	S	Distilled H_20	30-120	3.68	300	12	240	15	360	10
ATS-HP-F6L70S71W-347	70	6.77	5.3	S	Distilled H_20	30-120	3.72	53	71	42	88	63	59
ATS-HP-F6L100S50W-348	100	6.77	5.3	S	Distilled H_20	30-120	3.72	75	50	60	62	90	41
ATS-HP-F6L150S33W-349	150	6.77	5.3	S	Distilled H_20	30-120	3.72	113	33	90	41	135	28
ATS-HP-F6L200S25W-350	200	6.77	5.3	S	Distilled H_20	30-120	3.72	150	25	120	31	180	21

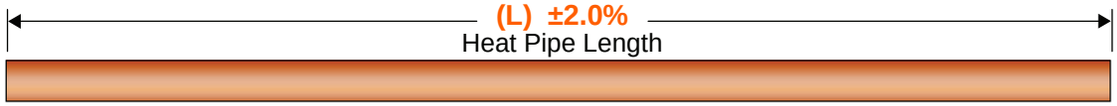
Flat Heat Pipes





$$Q_{max} = \frac{Q_t}{L_{eff}} \text{ X } 1000$$

$$L_{eff} = L-(L_e+L_c)/2$$

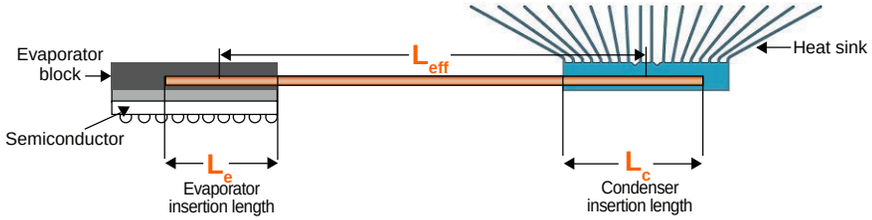


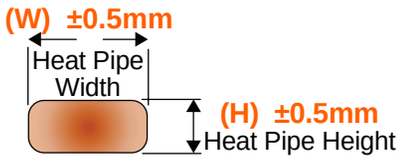
PRODUCT SPECIFICATIONS

L=Length (mm); W=Width (mm); H=Height (mm); WT=Wick Type (S=Sintered, G=Grooved); WF=Working Fluid; TR= Temperature Range (°C)

Part Number	L	W	H	WT	WF	TR	QT (W•m)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)
ATS-HP-F6L250S20W-351	250	6.77	5.3	S	Distilled H_20	30-120	3.72	188	20	150	25	225	17
ATS-HP-F6L300S17W-352	300	6.77	5.3	S	Distilled H_20	30-120	3.72	225	17	180	21	270	14
ATS-HP-F6L350S14W-353	350	6.77	5.3	S	Distilled H_20	30-120	3.72	263	14	210	18	315	12
ATS-HP-F6L400S12W-354	400	6.77	5.3	S	Distilled H_2O	30-120	3.72	300	12	240	15	360	10
ATS-HP-F8L75S76W-355	75	11.41	2.5	S	Distilled H_20	30-120	4.26	56	76	45	95	68	63
ATS-HP-F8L150S38W-356	150	11.41	2.5	S	Distilled H_20	30-120	4.26	113	38	90	47	135	32
ATS-HP-F8L200S28W-357	200	11.41	2.5	S	Distilled H_20	30-120	4.26	150	28	120	36	180	24
ATS-HP-F8L250S23W-358	250	11.41	2.5	S	Distilled H_20	30-120	4.26	188	23	150	28	225	19
ATS-HP-F8L300S19W-359	300	11.41	2.5	S	Distilled H_20	30-120	4.26	225	19	180	24	270	16
ATS-HP-F8L350S16W-360	350	11.41	2.5	S	Distilled H_20	30-120	4.26	263	16	210	20	315	14
ATS-HP-F8L400S14W-361	400	11.41	2.5	S	Distilled H_20	30-120	4.26	300	14	240	18	360	12
ATS-HP-F8L450S13W-362	450	11.41	2.5	S	Distilled H_20	30-120	4.26	338	13	270	16	405	11
ATS-HP-F8L500S11W-363	500	11.41	2.5	S	Distilled H_20	30-120	4.26	375	11	300	14	450	9
ATS-HP-F8L75S79W-364	75	11.25	3	S	Distilled H_20	30-120	4.45	56	79	45	99	68	66
ATS-HP-F8L150S40W-365	150	11.25	3	S	Distilled H_20	30-120	4.45	113	40	90	49	135	33
ATS-HP-F8L200S30W-366	200	11.25	3	S	Distilled H_20	30-120	4.45	150	30	120	37	180	25
ATS-HP-F8L250S24W-367	250	11.25	3	S	Distilled H_20	30-120	4.45	188	24	150	30	225	20
ATS-HP-F8L300S20W-368	300	11.25	3	S	Distilled H_2O	30-120	4.45	225	20	180	25	270	16
ATS-HP-F8L350S17W-369	350	11.25	3	S	Distilled H_2O	30-120	4.45	263	17	210	21	315	14
ATS-HP-F8L400S15W-370	400	11.25	3	S	Distilled H_2O	30-120	4.45	300	15	240	19	360	12
ATS-HP-F8L450S13W-371	450	11.25	3	S	Distilled H_2O	30-120	4.45	338	13	270	16	405	11
ATS-HP-F8L500S12W-372	500	11.25	3	S	Distilled H_2O	30-120	4.45	375	12	300	15	450	10
ATS-HP-F8L75S79W-373	75	11.05	3.2	S	Distilled H_2O	30-120	4.46	56	79	45	99	68	66
ATS-HP-F8L150S40W-374	150	11.05	3.2	S	Distilled H_2O	30-120	4.46	113	40	90	50	135	33
ATS-HP-F8L200S30W-375	200	11.05	3.2	S	Distilled H_2O	30-120	4.46	150	30	120	37	180	25

Flat Heat Pipes





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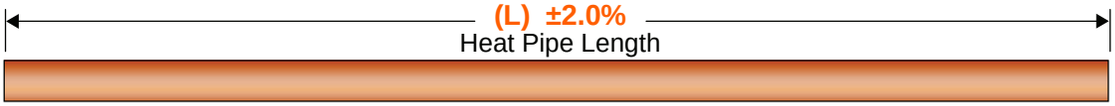

PRODUCT SPECIFICATIONS

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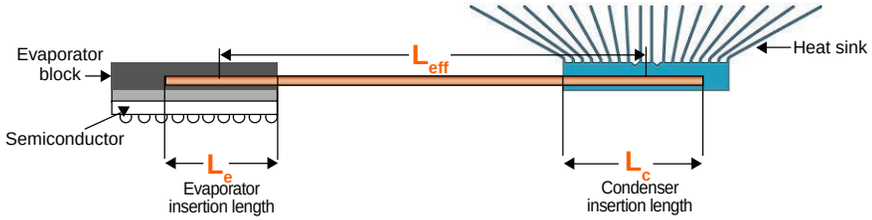
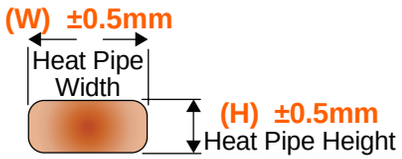
Part Number	L	W	H	WT	WF	TR	QT (W•m)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)
ATS-HP-F8L250S24W-376	250	11.05	3.2	S	Distilled H_2O	30-120	4.46	188	24	150	30	225	20
ATS-HP-F8L300S20W-377	300	11.05	3.2	S	Distilled H_2O	30-120	4.46	225	20	180	25	270	17
ATS-HP-F8L350S17W-378	350	11.05	3.2	S	Distilled H_2O	30-120	4.46	263	17	210	21	315	14
ATS-HP-F8L400S15W-379	400	11.05	3.2	S	Distilled H_2O	30-120	4.46	300	15	240	19	360	12
ATS-HP-F8L450S13W-380	450	11.05	3.2	S	Distilled H_20	30-120	4.46	338	13	270	17	405	11
ATS-HP-F8L500S12W-381	500	11.05	3.2	S	Distilled H_20	30-120	4.46	375	12	300	15	450	10
ATS-HP-F8L75S80W-382	75	10.86	3.5	S	Distilled H_20	30-120	4.51	56	80	45	100	68	67
ATS-HP-F8L150S40W-383	150	10.86	3.5	S	Distilled H_20	30-120	4.51	113	40	90	50	135	33
ATS-HP-F8L200S30W-384	200	10.86	3.5	S	Distilled H_20	30-120	4.51	150	30	120	38	180	25
ATS-HP-F8L250S24W-385	250	10.86	3.5	S	Distilled H_20	30-120	4.51	188	24	150	30	225	20
ATS-HP-F8L300S20W-386	300	10.86	3.5	S	Distilled H_20	30-120	4.51	225	20	180	25	270	17
ATS-HP-F8L350S17W-387	350	10.86	3.5	S	Distilled H_20	30-120	4.51	263	17	210	21	315	14
ATS-HP-F8L400S15W-388	400	10.86	3.5	S	Distilled H_20	30-120	4.51	300	15	240	19	360	13
ATS-HP-F8L450S13W-389	450	10.86	3.5	S	Distilled H_20	30-120	4.51	338	13	270	17	405	11
ATS-HP-F8L500S12W-390	500	10.86	3.5	S	Distilled H_20	30-120	4.51	375	12	300	15	450	10
ATS-HP-F8L75S82W-391	75	10.86	3.8	S	Distilled H_20	30-120	4.62	56	82	45	103	68	69
ATS-HP-F8L150S41W-392	150	10.86	3.8	S	Distilled H_20	30-120	4.62	113	41	90	51	135	34
ATS-HP-F8L200S31W-393	200	10.86	3.8	S	Distilled H_2O	30-120	4.62	150	31	120	39	180	26
ATS-HP-F8L250S25W-394	250	10.86	3.8	S	Distilled H_2O	30-120	4.62	188	25	150	31	225	21
ATS-HP-F8L300S21W-395	300	10.86	3.8	S	Distilled H_2O	30-120	4.62	225	21	180	26	270	17
ATS-HP-F8L350S18W-396	350	10.86	3.8	S	Distilled H_2O	30-120	4.62	263	18	210	22	315	15
ATS-HP-F8L400S15W-397	400	10.86	3.8	S	Distilled H_2O	30-120	4.62	300	15	240	19	360	13
ATS-HP-F8L450S14W-398	450	10.86	3.8	S	Distilled H_2O	30-120	4.62	338	14	270	17	405	11

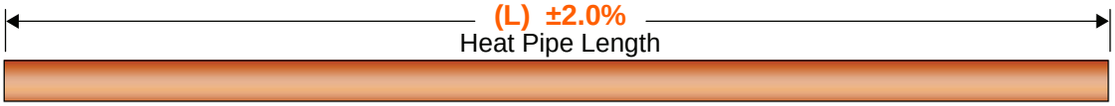
Flat Heat Pipes





$$Q_{max} = \frac{Q_t}{L_{eff}} \text{ X } 1000$$

$$L_{eff} = L-(L_e+L_c)/2$$

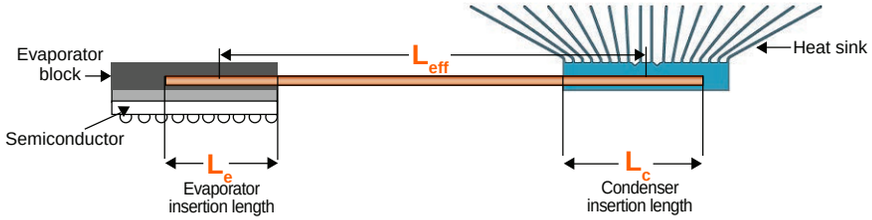


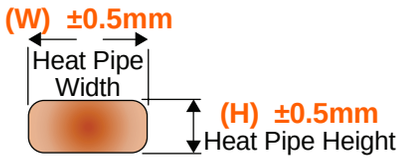
PRODUCT SPECIFICATIONS

L=Length (mm); W=Width (mm); H=Height (mm); WT=Wick Type (S=Sintered, G=Grooved); WF=Working Fluid; TR= Temperature Range (°C)

Part Number	L	W	H	WT	WF	TR	QT (W•m)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)
ATS-HP-F8L500S12W-399	500	10.86	3.8	S	Distilled H_2O	30-120	4.62	375	12	300	15	450	10
ATS-HP-F8L75S82W-400	75	10.65	4	S	Distilled H_2O	30-120	4.62	56	82	45	103	68	69
ATS-HP-F8L150S41W-401	150	10.65	4	S	Distilled H_2O	30-120	4.62	113	41	90	51	135	34
ATS-HP-F8L200S31W-402	200	10.65	4	S	Distilled H_2O	30-120	4.62	150	31	120	39	180	26
ATS-HP-F8L250S25W-403	250	10.65	4	S	Distilled H_2O	30-120	4.62	188	25	150	31	225	21
ATS-HP-F8L300S21W-404	300	10.65	4	S	Distilled H_2O	30-120	4.62	225	21	180	26	270	17
ATS-HP-F8L350S18W-405	350	10.65	4	S	Distilled H_20	30-120	4.62	263	18	210	22	315	15
ATS-HP-F8L400S15W-406	400	10.65	4	S	Distilled H_20	30-120	4.62	300	15	240	19	360	13
ATS-HP-F8L450S14W-407	450	10.65	4	S	Distilled H_20	30-120	4.62	338	14	270	17	405	11
ATS-HP-F8L500S12W-408	500	10.65	4	S	Distilled H_20	30-120	4.62	375	12	300	15	450	10
ATS-HP-F8L75S83W-409	75	10.6	4.2	S	Distilled H_20	30-120	4.68	56	83	45	104	68	69
ATS-HP-F8L150S42W-410	150	10.6	4.2	S	Distilled H_20	30-120	4.68	113	42	90	52	135	35
ATS-HP-F8L200S31W-411	200	10.6	4.2	S	Distilled H_20	30-120	4.68	150	31	120	39	180	26
ATS-HP-F8L250S25W-412	250	10.6	4.2	S	Distilled H_20	30-120	4.68	188	25	150	31	225	21
ATS-HP-F8L300S21W-413	300	10.6	4.2	S	Distilled H_20	30-120	4.68	225	21	180	26	270	17
ATS-HP-F8L350S18W-414	350	10.6	4.2	S	Distilled H_20	30-120	4.68	263	18	210	22	315	15
ATS-HP-F8L400S16W-415	400	10.6	4.2	S	Distilled H_20	30-120	4.68	300	16	240	20	360	13
ATS-HP-F8L450S14W-416	450	10.6	4.2	S	Distilled H_20	30-120	4.68	338	14	270	17	405	12
ATS-HP-F8L500S12W-417	500	10.6	4.2	S	Distilled H_20	30-120	4.68	375	12	300	16	450	10
ATS-HP-F8L75S84W-418	75	10.35	4.5	S	Distilled H_2O	30-120	4.70	56	84	45	104	68	70
ATS-HP-F8L150S42W-419	150	10.35	4.5	S	Distilled H_2O	30-120	4.70	113	42	90	52	135	35
ATS-HP-F8L200S31W-420	200	10.35	4.5	S	Distilled H_2O	30-120	4.70	150	31	120	39	180	26
ATS-HP-F8L250S25W-421	250	10.35	4.5	S	Distilled H_2O	30-120	4.70	188	25	150	31	225	21
ATS-HP-F8L300S21W-422	300	10.35	4.5	S	Distilled H_2O	30-120	4.70	225	21	180	26	270	17
ATS-HP-F8L350S18W-423	350	10.35	4.5	S	Distilled H_2O	30-120	4.70	263	18	210	22	315	15

Flat Heat Pipes





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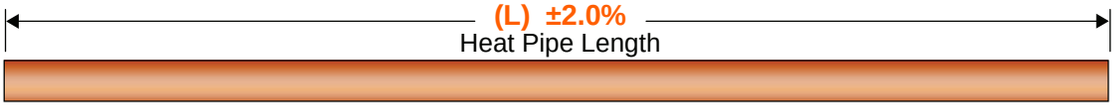
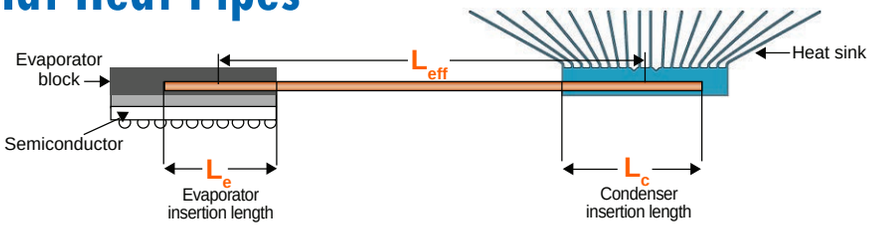


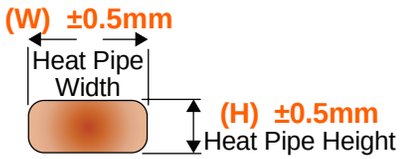
PRODUCT SPECIFICATIONS

L=Length (mm); W=Width (mm); H=Height (mm); WT=Wick Type (S=Sintered, G=Grooved); WF=Working Fluid; TR= Temperature Range (°C)

Part Number	L	W	H	WT	WF	TR	QT (W•m)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)
ATS-HP-F8L400S16W-424	400	10.35	4.5	S	Distilled H_2O	30-120	4.70	300	16	240	20	360	13
ATS-HP-F8L450S14W-425	450	10.35	4.5	S	Distilled H_2O	30-120	4.70	338	14	270	17	405	12
ATS-HP-F8L500S13W-426	500	10.35	4.5	S	Distilled H_2O	30-120	4.70	375	13	300	16	450	10
ATS-HP-F8L75S85W-427	75	10.31	4.7	S	Distilled H_2O	30-120	4.76	56	85	45	106	68	71
ATS-HP-F8L150S42W-428	150	10.31	4.7	S	Distilled H_2O	30-120	4.76	113	42	90	53	135	35
ATS-HP-F8L200S32W-429	200	10.31	4.7	S	Distilled H_2O	30-120	4.76	150	32	120	40	180	26
ATS-HP-F8L250S25W-430	250	10.31	4.7	S	Distilled H_20	30-120	4.76	188	25	150	32	225	21
ATS-HP-F8L300S21W-431	300	10.31	4.7	S	Distilled H_20	30-120	4.76	225	21	180	26	270	18
ATS-HP-F8L350S18W-432	350	10.31	4.7	S	Distilled H_20	30-120	4.76	263	18	210	23	315	15
ATS-HP-F8L400S16W-433	400	10.31	4.7	S	Distilled H_20	30-120	4.76	300	16	240	20	360	13
ATS-HP-F8L450S14W-434	450	10.31	4.7	S	Distilled H_20	30-120	4.76	338	14	270	18	405	12
ATS-HP-F8L500S13W-435	500	10.31	4.7	S	Distilled H_20	30-120	4.76	375	13	300	16	450	11
ATS-HP-F8L75S85W-436	75	10.11	5	S	Distilled H_20	30-120	4.80	56	85	45	107	68	71
ATS-HP-F8L150S43W-437	150	10.11	5	S	Distilled H_20	30-120	4.80	113	43	90	53	135	36
ATS-HP-F8L200S32W-438	200	10.11	5	S	Distilled H_20	30-120	4.80	150	32	120	40	180	27
ATS-HP-F8L250S26W-439	250	10.11	5	S	Distilled H_20	30-120	4.80	188	26	150	32	225	21
ATS-HP-F8L300S21W-440	300	10.11	5	S	Distilled H_20	30-120	4.80	225	21	180	27	270	18
ATS-HP-F8L350S18W-441	350	10.11	5	S	Distilled H_20	30-120	4.80	263	18	210	23	315	15
ATS-HP-F8L400S16W-442	400	10.11	5	S	Distilled H_20	30-120	4.80	300	16	240	20	360	13
ATS-HP-F8L450S14W-443	450	10.11	5	S	Distilled H_2O	30-120	4.80	338	14	270	18	405	12
ATS-HP-F8L500S13W-444	500	10.11	5	S	Distilled H_2O	30-120	4.80	375	13	300	16	450	11
ATS-HP-F8L75S88W-445	75	9.6	6	S	Distilled H_2O	30-120	4.98	56	88	45	111	68	74
ATS-HP-F8L150S44W-446	150	9.6	6	S	Distilled H_2O	30-120	4.98	113	44	90	55	135	37
ATS-HP-F8L200S33W-447	200	9.6	6	S	Distilled H_2O	30-120	4.98	150	33	120	41	180	28
ATS-HP-F8L250S27W-448	250	9.6	6	S	Distilled H_2O	30-120	4.98	188	27	150	33	225	22

Flat Heat Pipes





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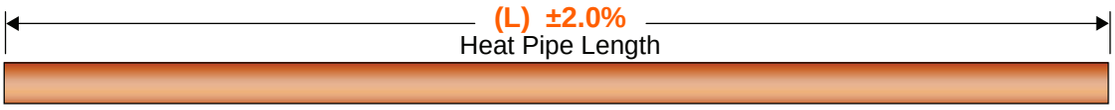

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Part Number	L	W	H	WT	WF	TR	QT (W•m)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)	L_{eff} (mm)	Q_{max} (W)
ATS-HP-F8L300S22W-449	300	9.6	6	S	Distilled H_2O	30-120	4.98	225	22	180	28	270	18
ATS-HP-F8L350S19W-450	350	9.6	6	S	Distilled H_2O	30-120	4.98	263	19	210	24	315	16
ATS-HP-F8L400S17W-451	400	9.6	6	S	Distilled H_2O	30-120	4.98	300	17	240	21	360	14
ATS-HP-F8L450S15W-452	450	9.6	6	S	Distilled H_2O	30-120	4.98	338	15	270	18	405	12
ATS-HP-F8L500S13W-453	500	9.6	6	S	Distilled H_2O	30-120	4.98	375	13	300	17	450	11
ATS-HP-F8L75S91W-454	75	9.45	6.5	S	Distilled H_2O	30-120	5.10	56	91	45	113	68	76
ATS-HP-F8L150S45W-455	150	9.45	6.5	S	Distilled H_20	30-120	5.10	113	45	90	57	135	38
ATS-HP-F8L200S34W-456	200	9.45	6.5	S	Distilled H_20	30-120	5.10	150	34	120	43	180	28
ATS-HP-F8L250S27W-457	250	9.45	6.5	S	Distilled H_2O	30-120	5.10	188	27	150	34	225	23
ATS-HP-F8L300S23W-458	300	9.45	6.5	S	Distilled H_2O	30-120	5.10	225	23	180	28	270	19
ATS-HP-F8L350S19W-459	350	9.45	6.5	S	Distilled H_2O	30-120	5.10	263	19	210	24	315	16
ATS-HP-F8L400S17W-460	400	9.45	6.5	S	Distilled H_2O	30-120	5.10	300	17	240	21	360	14
ATS-HP-F8L450S15W-461	450	9.45	6.5	S	Distilled H_2O	30-120	5.10	338	15	270	19	405	13
ATS-HP-F8L500S14W-462	500	9.45	6.5	S	Distilled H_2O	30-120	5.10	375	14	300	17	450	11

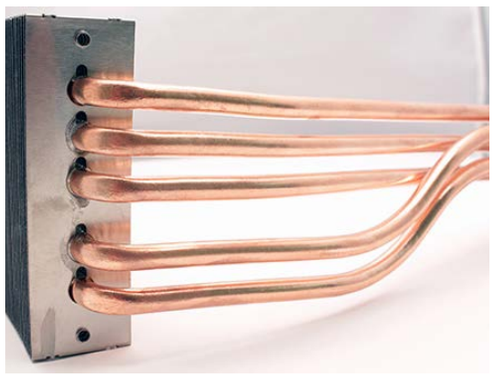
SUGGESTED MINIMUM BEND RADIUS ON ATS HEAT PIPES

Heat Pipe Diameter in mm	Minimum Bend Radius in mm
4	12
5	15
6	18
7	21
8	24

HEAT PIPE JOINING TECHNIQUES

1) For small batches/prototypes, heat pipes can be joined to heat sinks or other pieces with thermal epoxy.

2) For optimal results, heat pipes should be soldered using low temperature solder at temperatures above 139°C but no greater than 250°C.



For further technical information, please contact Advanced Thermal Solutions, Inc. by phone: 1-781-769-2800, email **ats-hq@qats.com** or visit www.qats.com.

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