



CPU cooler

intel Socket LGA3647



ITEM NO.

S0A07ATPTC-A

S1A17ATPTC

S0A09ATPTC

APPLICATION SYSTEM	1U Passive	2U Active	2U Passive
MATERIAL	AL fin + Heatpipe	AL fin + Heatpipe	AL fin + Heatpipe
CPU TYPE	Intel® Xeon® Skylake-SP / Cascade Lake-SP/AP		
SOCKET TYPE	LGA3647	LGA3647	LGA3647
WEIGHT	~209 g	~462 g	~ 427 g
COOLER DIMENSION(mm)	108L x 78W x 25.5H	108L x 78W x 64H	108L x 78W x 64H
FAN DIMENSION	N/A	TRD6025	N/A
INSTALLATION KIT	Nut	Nut	Nut
BACK PLATE	N/A	N/A	N/A
FIN PROCESS	Stacked	Stacked	Stacked

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CPU cooler

intel LGA4677



S1E18ATPTC

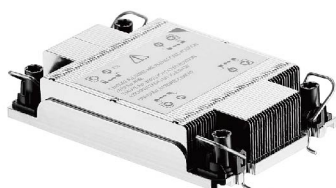


SME24ATPTC



S0E25ATPTC

ITEM NO.			
APPLICATION SYSTEM	2U Active	4U Active	2U Passive
MATERIAL	AL fin + Heatpipe	AL fin + Heatpipe	AL fin + Heatpipe
CPU TYPE	Intel® Xeon® Eagle Stream Platform / Sapphire Rapids / Emerald Rapids		
SOCKET TYPE	LGA4677	LGA4677	LGA4677
WEIGHT	~ 403 g	~ 848 g	~ 439 g
COOLER DIMENSION(mm)	118L x 78W x 64H	118W x 95L x 126.3H	118L x 78W x 64H
FAN DIMENSION	TRD6025	TRS9225	N/A
INSTALLATION KIT	Nut	Nut	Nut
BACK PLATE	N/A	N/A	N/A
FIN PROCESS	Stacked	Stacked	Stacked



S0E26ATPTC

ITEM NO.			
APPLICATION SYSTEM	1U Passive		
MATERIAL	AL fin + Heatpipe		
CPU TYPE	Intel® Xeon® Eagle Stream Platform / Sapphire Rapids / Emerald Rapids		
SOCKET TYPE	LGA4677		
WEIGHT	~ 274 g		
COOLER DIMENSION(mm)	118L x 78W x 24H		
FAN DIMENSION	N/A		
INSTALLATION KIT	Nut		
BACK PLATE	N/A		
FIN PROCESS	Stacked		

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CPU cooler

intel LGA4189



S1M06ATPTC



SMM10ATPTC



S0M04ATPTC-A

ITEM NO.			
APPLICATION SYSTEM	2U Active	4U Active	1U Passive
MATERIAL	AL fin + Heatpipe	AL fin + Heatpipe	AL fin + Heatpipe
CPU TYPE	Intel® Xeon® Cooper Lake / Ice Lake-SP		
SOCKET TYPE	LGA4189	LGA4189	LGA4189
WEIGHT	~580 g	~848 g	~234 g
COOLER DIMENSION(mm)	113W x 78L x 64H	113L x 95W x 126.4H	113L x 78W x 24H
FAN DIMENSION	TRD6025	TRS9225	N/A
INSTALLATION KIT	Nut	Nut	Nut
BACK PLATE	N/A	N/A	N/A
FIN PROCESS	Stacked	Stacked	Stacked



S0M05ATPTC

ITEM NO.			
APPLICATION SYSTEM	2U Passive		
MATERIAL	AL fin + Heatpipe		
CPU TYPE	Intel® Xeon® Cooper Lake / Ice Lake-SP		
SOCKET TYPE	LGA4189		
WEIGHT	~425 g		
COOLER DIMENSION(mm)	113W x 78L x 63.9H		
FAN DIMENSION	N/A		
INSTALLATION KIT	Nut		
BACK PLATE	N/A		
FIN PROCESS	Stacked		

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CPU cooler

intel PGA/BGA 989



SDD01A/ 04A



S0L06C



SLL03C

ITEM NO.			
APPLICATION SYSTEM	1U Active	1U Active	2U Active
MATERIAL	AL	CU	AL fin + CU Core
CPU TYPE	Intel® Core™ i7 / i5 / i3 / Or other 51 x 51 mm Hole distance		
SOCKET TYPE	PGA/BGA 989	PGA/BGA 989	PGA/BGA 989
WEIGHT	95 g	231 g	153 g
COOLER DIMENSION(mm)	60L x 60W x 26.5H	60L x 60W x 26.5H	Ø90 x 37H
FAN DIMENSION	TRS5010	TRS5010	TRS5010
INSTALLATION KIT	Screw + Spring	Screw + Spring	Screw + Spring
BACK PLATE	Optional	Optional	Optional
FIN PROCESS	Skived	Skived	Extrusion



S9L13A

ITEM NO.	S9L13A		
APPLICATION SYSTEM	1.5U Active		
MATERIAL	AL fin + CU Core		
CPU TYPE	Intel® Core™ i7 / i5 / i3 / Or other 51 x 51 mm Hole distance		
SOCKET TYPE	PGA/BGA 989		
WEIGHT	112 g		
COOLER DIMENSION(mm)	Ø60 x 24.4H		
FAN DIMENSION	TRS5010		
INSTALLATION KIT	Screw + Spring		
BACK PLATE	Optional		
FIN PROCESS	Extrusion		

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CPU cooler

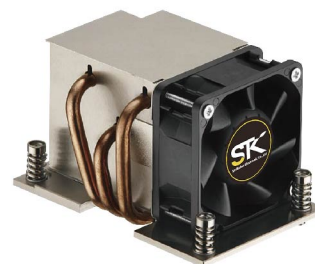
intel LGA2011



S1R04ATPG-0



SLR51C

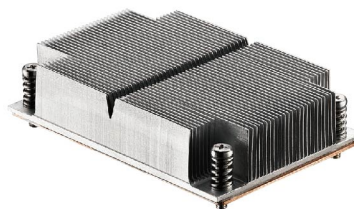


S1R38ATPTC

ITEM NO.			
APPLICATION SYSTEM	2U Active	1U Active	2U Active
MATERIAL	AL fin + Heatpipe	CU	AL fin + Heatpipe
CPU TYPE	Intel® Sandy Bridge / Ivy Bridge / Haswell		
SOCKET TYPE	LGA2011 Square	LGA2011 Square	LGA2011 Narrow
WEIGHT	~390 g	~502 g	~390 g
COOLER DIMENSION(mm)	90L x 90W x 64.3H	90L x 90W x 27H	107L x 70W x 64H
FAN DIMENSION	TRD6025	TRB8015	TRS6025
INSTALLATION KIT	Screw + Spring	Screw + Spring	Screw + Spring
BACK PLATE	Optional	Optional	Optional
FIN PROCESS	Stacked	Skived	Stacked



SVGC6R01A



S0R40ATV

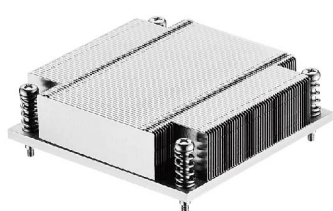
ITEM NO.		
APPLICATION SYSTEM	2U Active	1U Passive
MATERIAL	AL	AL fin + VC
CPU TYPE	Intel® Sandy Bridge / Ivy Bridge / Haswell	
SOCKET TYPE	LGA2011 Narrow	LGA2011 Narrow
WEIGHT	~430 g	~228 g
COOLER DIMENSION(mm)	90L x 90W x 68H	107L x 70W x 27H
FAN DIMENSION	TRS7015	N/A
INSTALLATION KIT	Screw + Spring	Screw + Spring
BACK PLATE	Optional	Optional
FIN PROCESS	Extrusion	Skived

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CPU cooler

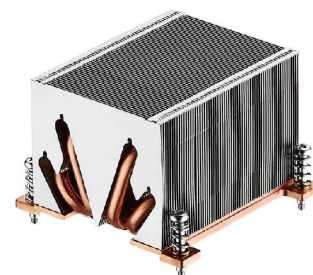
intel Socket LGA1700



S0L108C



S7L105C



S0L100ATPTC

ITEM NO.			
APPLICATION SYSTEM	1U Passive	1U Active	2U Passive
MATERIAL	CU	CU	AL fin + Heatpipe
CPU TYPE	Intel® Core™ Alder Lake / Raptor Lake / Or other 78 x 78 mm Hole distance		
SOCKET TYPE	LGA1700	LGA1700	LGA1700
WEIGHT	~521 g	~ 487 g	~ 537 g
COOLER DIMENSION(mm)	90 x 90 x 25	90 x 90 x 26.5	90 x 89.5 x 64.5
FAN DIMENSION	N/A	70 x 70 x 10	N/A
INSTALLATION KIT	Screw + Spring	Screw + Spring	Screw + Spring
BACK PLATE	Optional	Optional	Optional
FIN PROCESS	Skived	Skived	Stacked



S1L115ATP



SML118ATC



SYCML120ATC

ITEM NO.			
APPLICATION SYSTEM	2U Active	2U Active	1.5U Active
MATERIAL	AL fin + Heatpipe	AL fin + Cu Core	AL fin + Cu Core
CPU TYPE	Intel® Core™ Alder Lake / Raptor Lake / Or other 78 x 78 mm Hole distance		
SOCKET TYPE	LGA1700	LGA1700	LGA1700
WEIGHT	~ 389 g	~ 468 g	~ 323 g
COOLER DIMENSION(mm)	91.1 x 87.5 x 64.6	Ø90 x 63.4H	Ø 90 x 45.4H
FAN DIMENSION	60 x 60 x 25	90 x 90 x 25	90 x 90 x 25
INSTALLATION KIT	Screw + Spring	Screw + Spring	Screw + Spring
BACK PLATE	Optional	Optional	Optional
FIN PROCESS	Stacked	Extrusion	Extrusion

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CPU cooler

intel Socket LGA1700



ITEM NO.

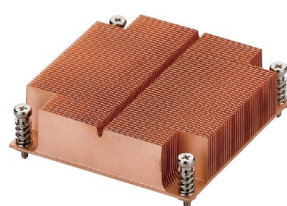
SCL128A

SML2303001ATPTC

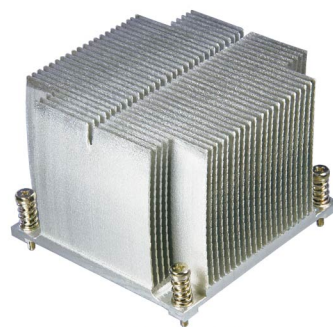
APPLICATION SYSTEM	1U Active	4U Active
MATERIAL	AL	AL fin + Heatpipe
CPU TYPE	Intel® Core™ Alder Lake / Raptor Lake / Or other 78 x 78 mm Hole distance	
SOCKET TYPE	LGA1700	LGA1700
WEIGHT	~154 g	~ 607 g
COOLER DIMENSION(mm)	Ø 90 x 27.3H	
FAN DIMENSION	80 x 80 x 11.3	
INSTALLATION KIT	Screw + Spring	Screw + Spring
BACK PLATE	Optional	Optional
FIN PROCESS	Extrusion	Stacked

CPU cooler

intel LGA115x/1200



ITEM NO.	S0L29ATPG-A	S0L06C	SLL03C
APPLICATION SYSTEM	1U Passive	1U Passive	1U Active
MATERIAL	AL fin + Pipe + CU Block	CU	CU
CPU TYPE	Intel® Xeon® / Core™ / Or other 75 x 75 mm Hole distance		
SOCKET TYPE	LGA115x / 1200	LGA115x / 1200	LGA115x / 1200
WEIGHT	242g	521g	382 g
COOLER DIMENSION(mm)	90L x 90W x 27H	85L x 85W x 26H	84L x 84W x 28H
FAN DIMENSION	N/A	N/A	TRB7515
INSTALLATION KIT	Screw + Spring	Screw + Spring	Screw + Spring
BACK PLATE	Optional	Optional	Optional
FIN PROCESS	Stacked	Skived	Skived



ITEM NO.	S9L13A	S0L16A
APPLICATION SYSTEM	2U Active	2U Passive
MATERIAL	AL	AL
CPU TYPE	Sandy Bridge Xeon® Core™ i7-2600, i5-2500 series / Lynnfield / Clarkdale Xeon® 3400 Sequence	
SOCKET TYPE	LGA115x / 1200	LGA115x / 1200
WEIGHT	417 g	380 g
COOLER DIMENSION(mm)	90L x 90W x 68H	90L x 82.2W x 64.9H
FAN DIMENSION	TRD6020	N/A
INSTALLATION KIT	Screw + Spring	Screw + Spring
BACK PLATE	Optional	Optional
FIN PROCESS	Skived	Skived

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CPU cooler

intel 775 / 115x / 1200 / 1366



ITEM NO.	S8L05AGC-A	S9L06AGC-A
APPLICATION SYSTEM	1.5U Active	2U Active
MATERIAL	AL fin + CU Core	AL fin + CU Core
CPU TYPE	Intel® Xeon® / Core™	
SOCKET TYPE	775 / 115x / 1200 / 1366	115x / 1200 / 1366
WEIGHT	338 g	536 g
COOLER DIMENSION(mm)	123.6L x 123.6W x 42.1H	123.6L x 123.6W x 61.4H
FAN DIMENSION	TRS8015	TRS9025
INSTALLATION KIT	Screw + Spring	Screw + Spring
BACK PLATE	Optional	Optional
FIN PROCESS	Extrusion	Extrusion

CPU cooler

AMD SP6 / SP3



S1P14ATPTC



S0P12ATPTC

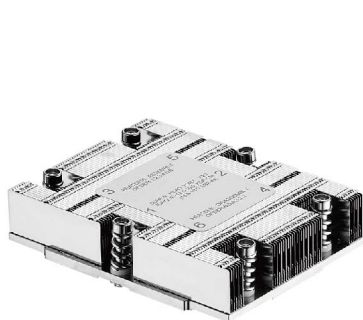


S0P13ATPTC

ITEM NO.			
APPLICATION SYSTEM	2U Active	1U Passive	2U Passive
MATERIAL	AL Fin + Heatpipe	AL fin + Heatpipe	AL fin + Heatpipe
CPU TYPE	AMD EPYC™ Series		
SOCKET TYPE	SP6/SP3	SP6/SP3	SP6/SP3
WEIGHT	~ 497 g	~ 270 g	~450 g
COOLER DIMENSION(mm)	120L x 80W x 64H	120L x 80W x 24.5H	120L x 80W x 63.5H
FAN DIMENSION	TRD6025	N/A	N/A
INSTALLATION KIT	Screw + Spring	Screw + Spring	Screw + Spring
BACK PLATE	N/A	N/A	N/A
FIN PROCESS	Stacked	Stacked	Stacked

CPU cooler

AMD SP5



ITEM NO.

S0P0012004ATPTC

SMP2301001ATPTC

S1P2212005ATPTC

APPLICATION SYSTEM	1U Passive	4U Active	2U Active
MATERIAL	CU Fin + Heatpipe	AL Fin + Heatpipe	AL fin + Heatpipe
CPU TYPE	AMD EPYC™ Series		
SOCKET TYPE	SP5	SP5	SP5
WEIGHT	~593 g	~705 g	~588 g
COOLER DIMENSION(mm)	118L x 92.4W x 24.7H	118L x 92.5W x 125.5H	118L x 92.4W x 64.5H
FAN DIMENSION	N/A	TRS9225	TRD6025
INSTALLATION KIT	Screw + Spring	Screw + Spring	Screw + Spring
BACK PLATE	N/A	N/A	N/A
FIN PROCESS	Stacked	Stacked	Stacked

CPU cooler

Universal Type



SYH-02



SYH-03-3

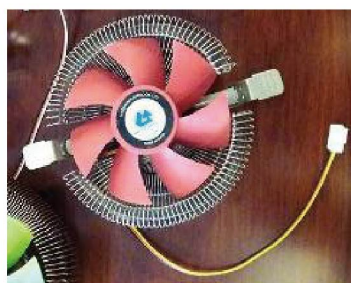


SYH-03-4

ITEM NO.			
APPLICATION SYSTEM	2U Active	1U Active	2U Active
MATERIAL	Aluminum with 2 pcs copper heatpipe	Aluminum With 6 Pcs Copper Heatpipe	Aluminum + 4 Copper Heatpipes
SOCKET TYPE	AMD/ Intel LGA 775/115X/1200/1700	AMD & Intel LGA 775/115X/1200/2011	AMD & Intel LGA 775/115X/1200/2011
WEIGHT	255 g	632 g	650 g
COOLER DIMENSION(mm)	125*80*65	125*105*100	128*156*80
FAN DIMENSION	TRS8025	TRS10025	TRS12025
INSTALLATION KIT	-	-	-
BACK PLATE	Optional	Optional	Optional
FIN PROCESS			



SYH-05-3



SYH-05



SYH-06

ITEM NO.			
APPLICATION SYSTEM	1U Active	1U Active	1U Active
MATERIAL	Aluminium With Black Coating	AL fin + VC	
CPU TYPE	AMD, all i3/i5 /i7 Series	AMD, all i3/i5 /i7 Series	AMD, all i3/i5 /i7 Series
SOCKET TYPE	AMD/ Intel LGA 775/115X/1200/1700	AMD/ Intel LGA 775/115X/1200/1700	AMD/ Intel LGA 775/115X/1200/1700
WEIGHT	400 g	190 g	200 g
COOLER DIMENSION(mm)	123*123*67	110*110*50	100*110*75
FAN DIMENSION	TRS12025	TRS8515	TRS9025
INSTALLATION KIT	-	-	
BACK PLATE	Optional	Optional	Optional
FIN PROCESS			

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CPU cooler

Universal Type



ITEM NO.

SYH-19

SYH-34

APPLICATION SYSTEM

1U Active

1U Active

MATERIAL

Aluminum + Copy Copper Center

Aluminum

SOCKET TYPE

Intel LGA 775

AMD

WEIGHT

150 g

145 g

COOLER DIMENSION(mm)

100*110*75

100*110*75

FAN DIMENSION

TRS9025

TRS9025

INSTALLATION KIT

-

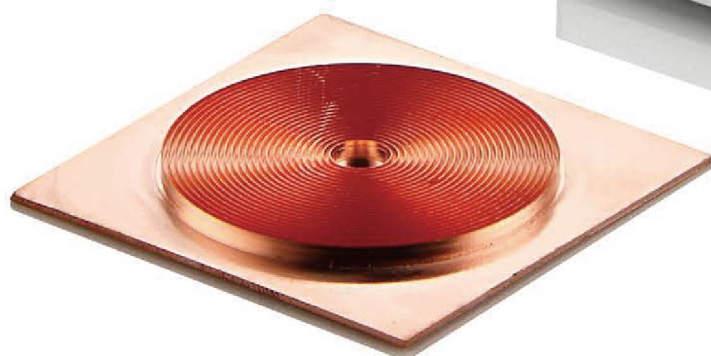
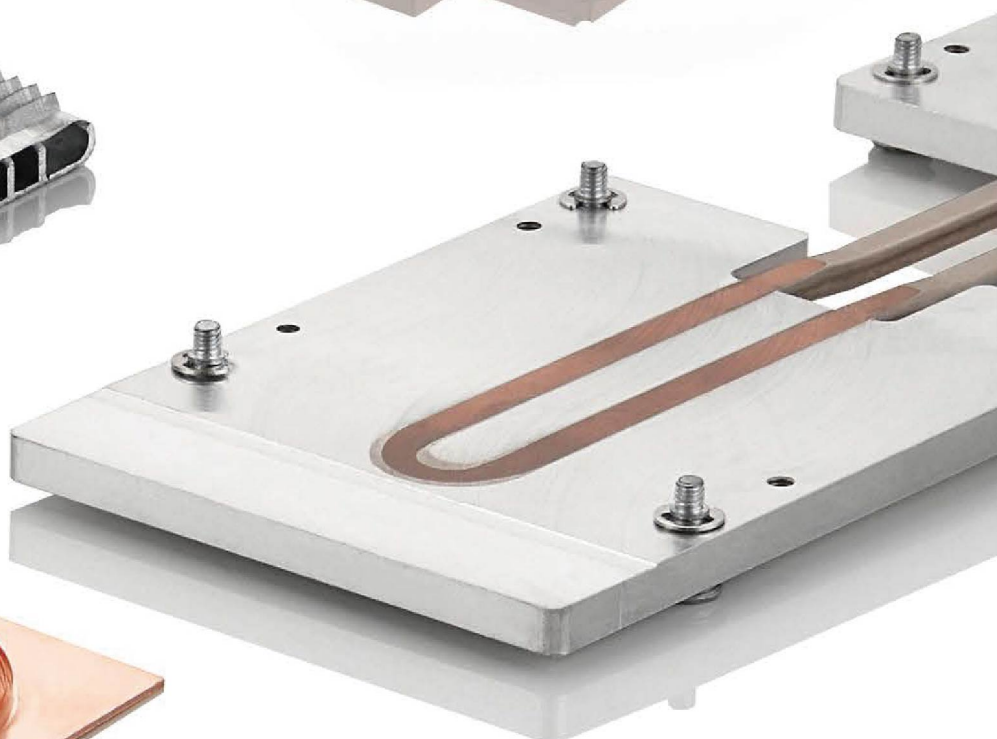
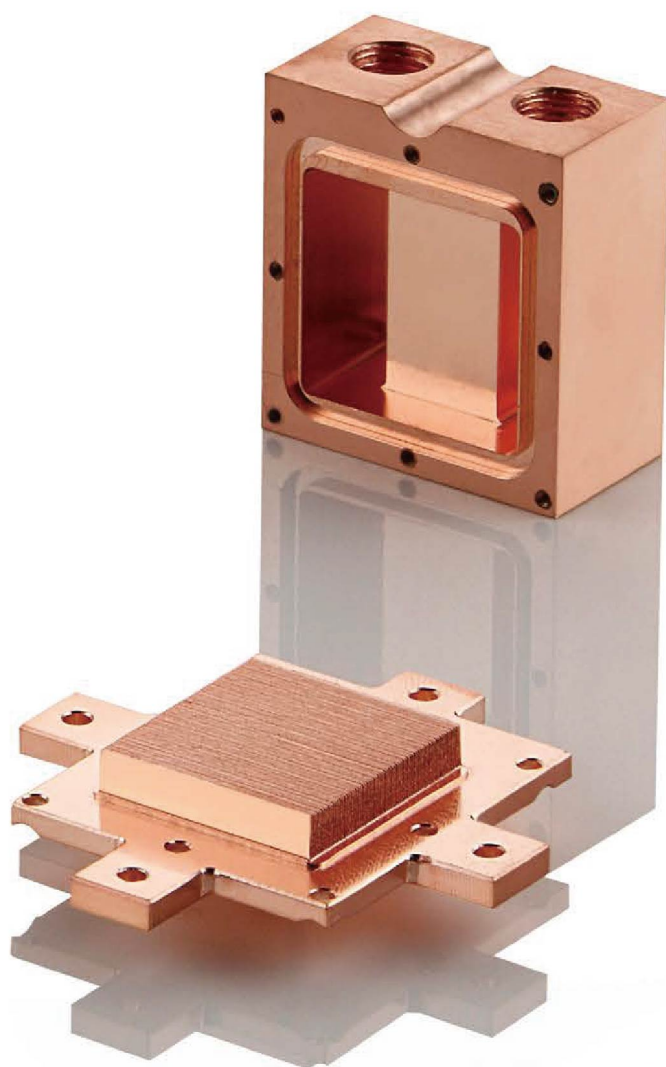
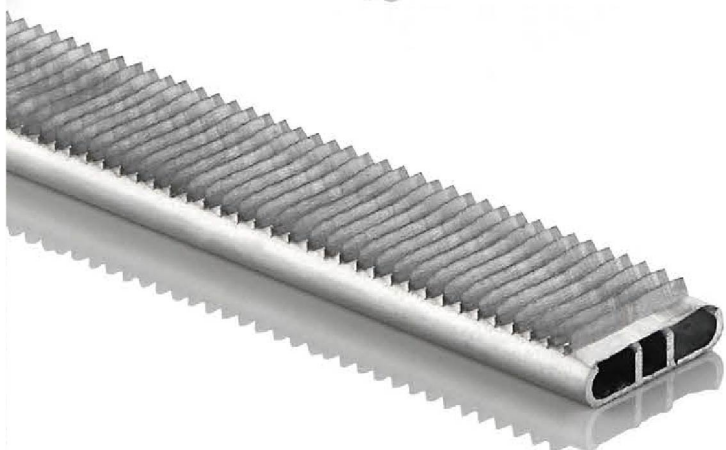
-

BACK PLATE

Optional

Optional

FIN PROCESS





ITEM NO.	S0E20CTC	S0E22CTC-A	S0P2303001CTC
APPLICATION SYSTEM	1U Passive	1U Passive	1U Passive
MATERIAL	CU	CU	CU
CPU TYPE	Intel® Xeon® Eagle Stream Platform / Sapphire Rapids / Emerald Rapids		AMD EPYC™ Series
SOCKET TYPE	LGA4677	LGA4677	SP3/SP6
WEIGHT	~356 g	~355 g	~445 g
COOLER DIMENSION(mm)	118L x 78W x 17H	118L x 78W x 22.3H	116L x 78W x 22.9H
FAN DIMENSION	N/A	N/A	N/A
INSTALLATION KIT	Nut	Nut	Screw + Spring
BACK PLATE	N/A	N/A	N/A
FIN PROCESS	Micro Fin	Micro Fin	Micro Fin

EVAPORATOR COOLING

ITEM NO. **EVAPORATOR (Large)**
MATERIAL: CU
WEIGHT: ~863 g
DIMENSION (mm): 160L x 65W x 11H
FIN PROCESS: Parallel Fin



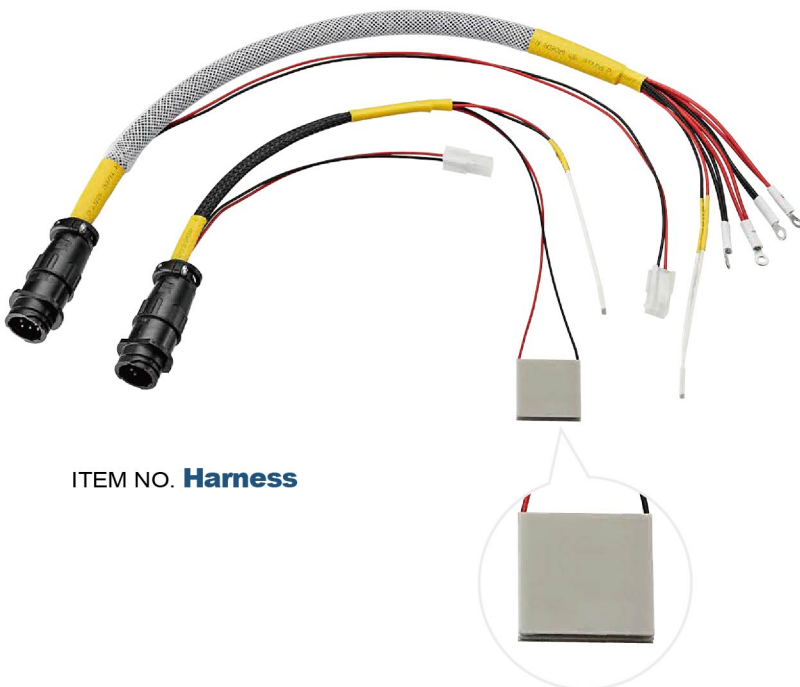
ITEM NO. **EVAPORATOR (Small)**
MATERIAL: CU
WEIGHT: ~553 g
DIMENSION (mm): 60L x 60W x 17H
FIN PROCESS: Skived Fin



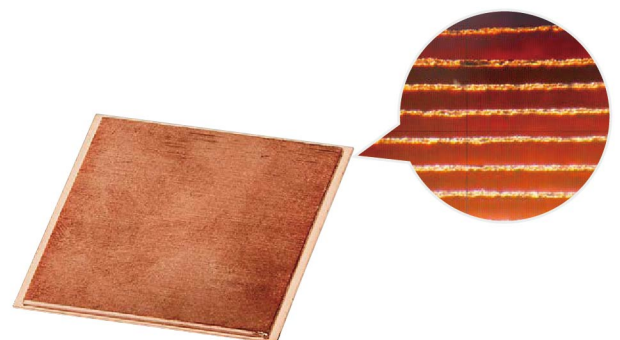
ITEM NO. **Parallel Fin Base**
MATERIAL: CU
WEIGHT: ~138 g
DIMENSION (mm): 72L x 72W x 8H
FIN PROCESS: CNC



ITEM NO. **Diamond Fin Base**
MATERIAL: CU
WEIGHT: ~144 g
DIMENSION (mm): 72L x 72W x 8H
FIN PROCESS: CNC



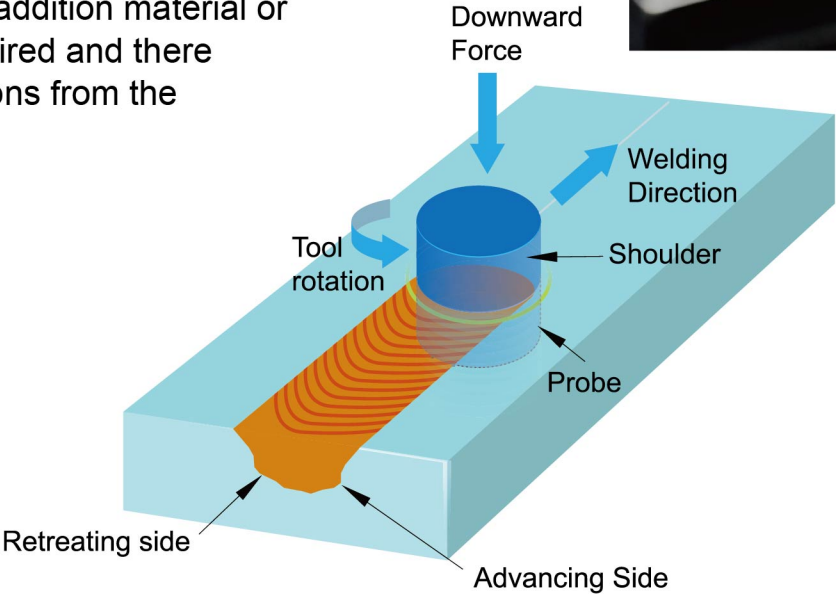
ITEM NO. **Harness**



ITEM NO. **Micro Fin Base**
MATERIAL: CU
WEIGHT : ~33 g
DIMENSION (mm): 60L x 60W x 2H
FIN PROCESS: Micro Fin

What is Friction Stir Welding?

Friction welding is a sold state joining process which can be used to join a number of different metals. Friction welding achieves 100 per cent metal-to-metal joints, giving parent metal properties. It is the only joining process to do this. No addition material or fillers are required and there are no emissions from the process.



Comparison of Fusion Welding and FSW

Property	Fusion welding	Friction stir welding
Weld temperature	Beyond melting point	Under melting point (solid phase joining)
Metallic structure	Melting/solidification structure (rough crystal grains)	Fine crystal structure (no segregation)
Deformation	Large thermal deformation	No deformation
Mechanical properties (plastic working capabilities)	Declines with elongation	Good
Power consumption	Large	Small
Engineer	Skilled worker required	Skilled worker not required



INDUSTRIAL

Custom-made design with a professional experience and a high quality control strengthened on our production line have always been our persistence to meet the demand of the flexibility of production in order to satisfy all the needs of the customers in the field of radiators.

Our high standard has made us the best choice for our customers and will continuously follow this goal to perfect ourselves.

