











# CPU Cooler *High performance thermal solutions*

Choosing the wrong CPU cooler for a system can lead to serious overheating, resulting in system shutdowns and potential damage to CPUs. For industrial applications, the following CPU coolers fit the needs of various operating environments, where different levels of cooling are required.

Desktop Core™ CPU Cooler					
					
	LGA1355/1356/2011				LGA1155/LGA1156
Model Name	CF-1356A-RS	CF-1356B-RS	CF-2011A-RS	CF-2011B-RS	CF-1156A-RS-R11
Description	High performance LGA1355/1356/2011 cooler kit				High performance LGA1155/LGA1156 cooler kit, 1U chassis compatible
CPU Solution	Intel® Xeon® E5-2400		Intel® Xeon® processor E5-2600		Intel® Core™ i5/i3
Socket Solution	LGA1355/1356	LGA1355/1356	LGA2011	LGA2011	LGA1155/LGA1156
Dimensions (mm)	89 x 80 x 27	89 x 90 x 24	89 x 88 x 27.2	89 x 88 x 45.1	89 x 92.6 x 27.4
Material	Copper				Cu
Bearing Type	Two-ball	Ball and Sleeve	Two-ball	Ball and Sleeve	Two-ball
Capability (Watt)	<b>60W</b>	<b>95W</b>	<b>130W</b>	<b>130W</b>	<b>73W</b>
Fan Speed (RPM)	4500	5500	5500	4500	5500
Noise Level (dBA)	51	42	55	42	51
Life Expectancy (hrs)	50000	40000	50000	40000	50000
Weight	55g	50g	55g	50g	422g

Desktop Core™ CPU Cooler			Desktop CPU Cooler		
					
	LGA1155/LGA1156			LGA775 Cooler	
Model Name	CF-1156E-R11	CF-1156C-RS	CF-1156D-RS	CF-775A-RS	CF-775B-RS-R11
Description	High performance LGA1155/LGA1156 CPU cooler, RoHS	Low power LGA1155/LGA1156 cooler kit, RoHS		High performance Two copper pipes LGA 775 CPU cooler, RoHS	High performance 1U LGA 775 CPU cooler, w/ 7010 fan, RoHS
CPU Solution	Intel® Xeon®/Core™ i7/i5/i3	Intel® Core™ i5/i3	Intel® Core™ i7/i5/i3	Intel® Core™2 Quad	Intel® Core™2 Duo
Socket Solution	LGA1155/LGA1156	LGA1155/LGA1156	LGA1155/LGA1156	LGA 775	LGA 775
Dimensions (mm)	90 x 90 x 64	90 x 90 x 33	90 x 90 x 33	92 x 92 x 73	80.5 x 81 x 28.2
Material	Al	Al	Cu+Al	Cu-Al	Cu
Bearing Type	Two-ball	Two-ball	Two-ball	Rifle	Two-ball
Capability (Watt)	<b>95W</b>	<b>45W</b>	<b>65W</b>	<b>130W</b>	<b>90W</b>
Fan Speed (RPM)	5500	3000	3000	3600	4250
Noise Level (dBA)	40.5	33.4	33.4	36.6-39.6	40
Life Expectancy (hrs)	50000	50000	50000	40000	50000
Weight	301g	192g	227g	492g	600g

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	LGA775 Cooler	Pentium® 4 Cooler			Pentium® 3 Cooler
Model Name	CF-520-RS-R11	CF-478A-RS	CF-478B-RS-R11	CF-514-RS	CF-370A-RS
Description	High performance LGA 775 CPU cooler, RoHS	High Performance Copper Socket 478 CPU Cooler, RoHS	High Performance Heat Pipes Socket 478 1U CPU Cooler, RoHS	High Performance Skiving Intel® Pentium® 4 CPU Cooler, RoHS	High Performance Slim Type Socket 370 CPU Cooler, RoHS
CPU Solution	Intel® Core™2 Duo	Intel® Pentium® 4	Intel® Pentium® 4	Intel® Pentium® 4	Intel® Pentium® 3
Socket Solution	LGA 775	Socket 478	Socket 478	Socket 478	Socket 370
Dimensions (mm)	115 x 115 x 67	92 x 92 x 67	89 x 76 x 26	83 x 70 x 55	50 x 52 x 20
Material	Aluminum Alloy	Cu	Cu-Al	Aluminum Alloy	Cu-Al
Bearing Type	Two-ball	Rifle	Two-ball	Two-ball	Two-ball
Capability (Watt)	115W	115W	86W	86W	40W
Fan Speed (RPM)	4500	3600	4800	4800	5500
Noise Level (dBA)	47.5~51.5	39.6	40	42.4	32.1
Life Expectancy (hrs)	70000	40000	50000	50000	40000
Weight	635g	390g	25g	284g	62g

CPU cooler	Mobile Core™ i7 CPU Cooler	Mobile CPU Cooler			
					
BLOWER	PGA989		Pentium® M Cooler		
Model Name	BF-02-RS	CF-989A-RS-R12	CF-989B-RS-R11	CF-479B-RS	CF-518-RS
Description	Bracket Cooling Fan, RoHS	High performance Socket-G (PGA989) smart fan CPU cooler, RoHS	High performance Socket-G (PGA989) CPU cooler, Aluminum, RoHS	High Performance Socket 479, M and P Intel® Pentium® M CPU Cooler, RoHS	High Performance Intel® Pentium® M CPU Cooler, RoHS
CPU Solution	Bracket cooling fan	Intel® Core™ i7/i5/i3	Intel® Core™ i7/i5/i3	Intel® Pentium® M, Core™2 Duo (Mobile)	Intel® Pentium® M
Socket solution		PGA989	PGA989	Socket 479	Socket 479
Dimensions (mm)	112 x 90 x 21	60 x 60 x 27.5	60 x 60 x 27.5	50 x 50 x 16	60 x 60 x 26
Material	Plastic	Cu	Al	Al	Aluminum Alloy
Bearing Type	One-ball	Two-ball	Two-ball	Two-ball	Two-ball
Capability (Watt)		55W	50W	50W	20W
Fan Speed (RPM)	2800	4800	4800	5500	5000
Noise Level (dBA)	28	40	40	30.1	36.1
Life Expectancy (hrs)	45000	50000	50000	50000	50000
Weight	107.5g	255g	26g	19g	116g

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