

All-in-One Liquid CPU Cooler

ELC240 Series



Features

Maintenance-free Cooling System

All-in-One liquid CPU cooler with pre-filled coolant offers best usability and maximum cooling performance for powerful PC systems.

Double-length Radiator

Higher heat exchange capacity thanks to double-length 240mm radiator. First choice for systems with over-clocked CPU.

Quad-Shunt Channel

Patented cold plate design for maximum cooling performance. Four shunts minimize the "Boundary Layer" effect, eliminate heat spots and ensure a perfect heat dissipation.

Twister Bearing

Two smooth-running and persistent silent fans thanks to patented Twister Bearing Technology (min. 100,000 hours MTBF).

Effective Fan Decoupling

Delivered with rubber pads to reduce the fan vibrations and noise generation.

Tri-Cooling Mode

High-performance PWM fans with innovative speed range switch for an individual RPM setting according to the system requirements: Silent Mode (800-1,500 RPM), Performance Mode (800-1,800 RPM) & Overclock Mode (800-2,200 RPM).

Long-Life Pump

Pump with durable ceramic bearing for reliable and noise-less performance.

Flexible & Robust Tubes

High-quality tubes made of FEP (Fluorinated Ethylene Propylene) guarantee non-permeable and long-lasting operation.

Easy & Universal Mounting System

User-friendly and quick mounting system giving perfect contact force with the CPU. Full support of all latest AMD® and Intel® sockets.



Powerful and silent pump



Ceramic Bearing for durable operation



Non-permeable FEP tubes

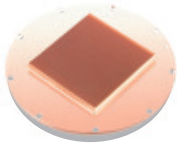


User-friendly brackets for AMD® & Intel® sockets



Perfect contact force

Quad-Shunt Channels

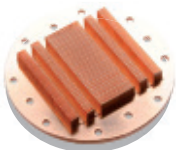
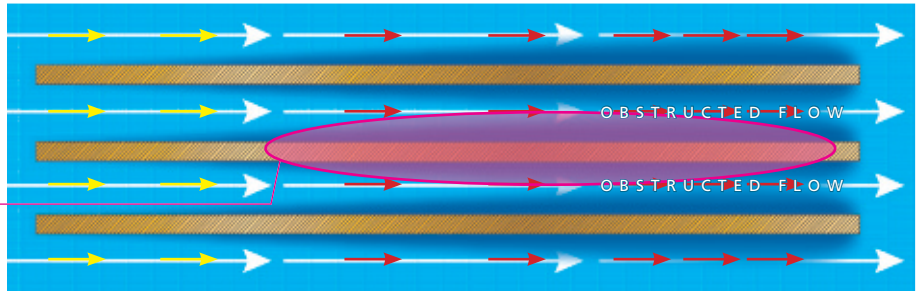
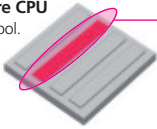


MICRO-FIN STRUCTURE

When the coolant enters the micro-fin channels, a part of the liquid will form a continuously growing laminar flow layer on the metal fins. It will obstruct the passage through the fins and allow the heat dissipation.

Quad Core CPU

Core 1/3/4 in idle mode remain cool.
Core 2 in turbo mode generates hot spot.

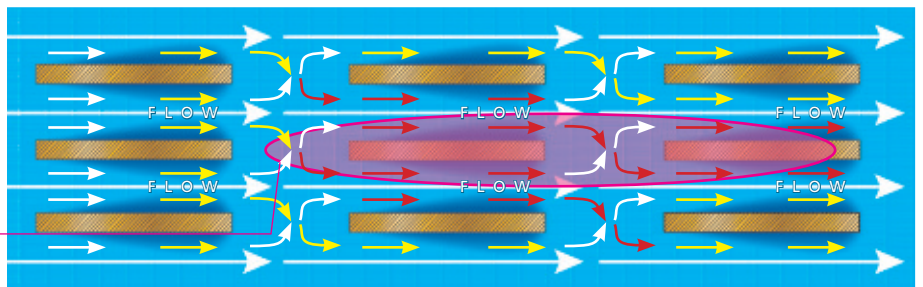
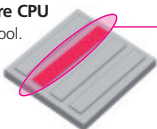


MICRO-FIN STRUCTURE WITH SHUNT CHANNELS

The clue: The cold plate design has been improved by adding four shunt channels. At the right position, these shunts minimize the boundary layer effect. The coolant can absorb more heat and the cooler achieves a much better cooling performance.

Quad Core CPU

Core 1/3/4 in idle mode remain cool.
Core 2 in turbo mode generates hot spot.

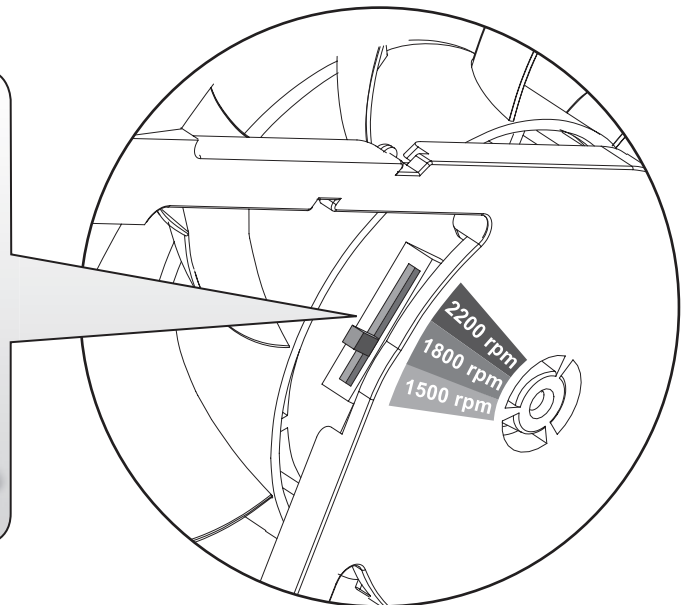


COPPER MICRO FIN
 FLOW DIRECTION
 COOLANT
 BOUNDARY LAYER

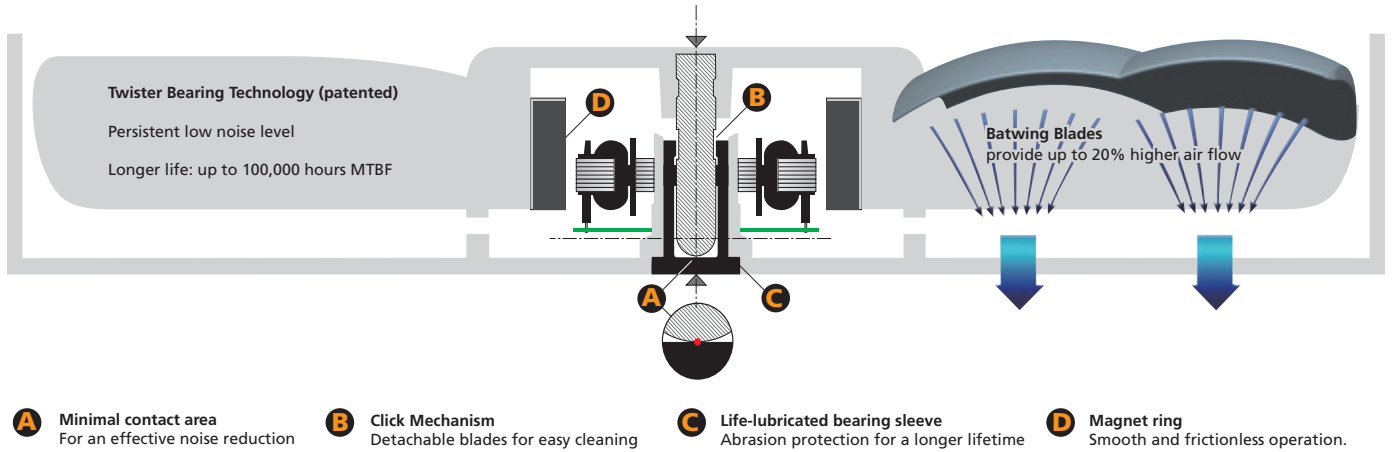
Tri-Cooling Mode

COOLING MODES
TWISTER BEARING PWM FAN

SILENT	800-1500 RPM
PERFORMANCE	800-1800 RPM
OVERCLOCK	800-2200 RPM



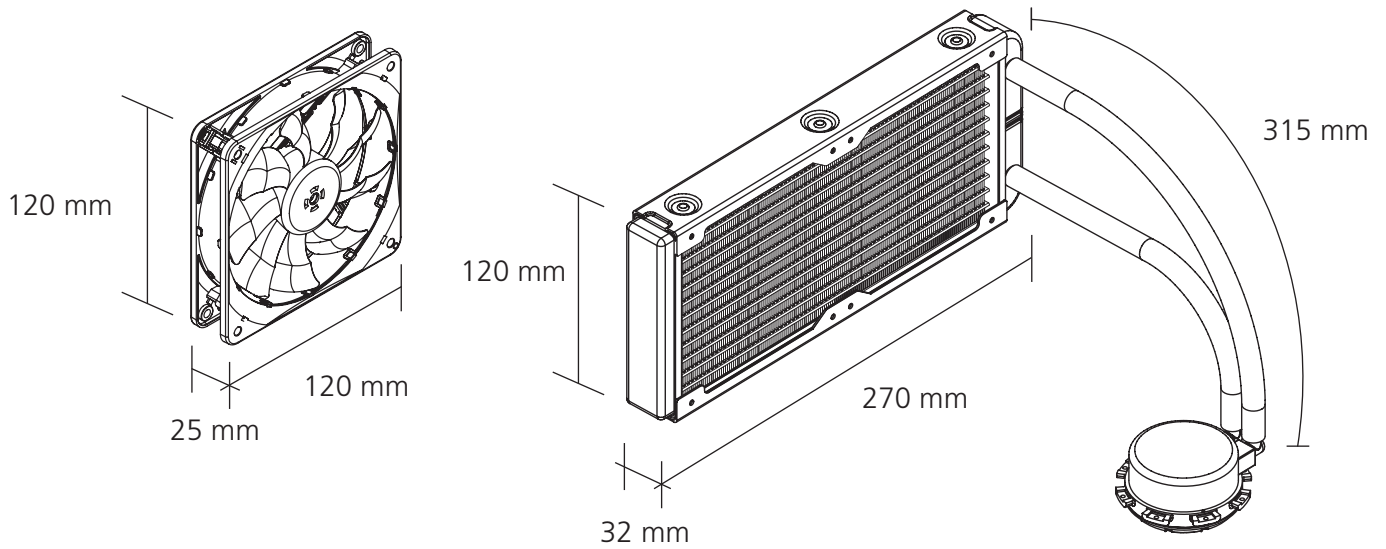
Twister Bearing Technology



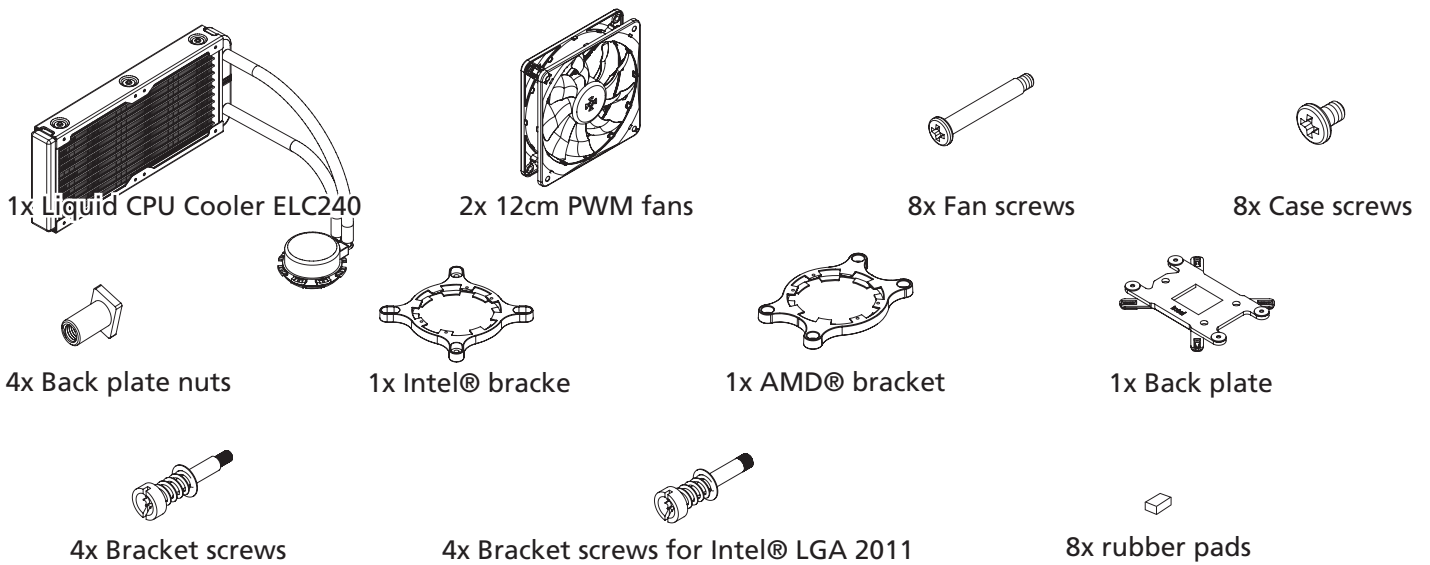
Specifications

		ELC240		
Cold Plate	Material	Copper		
Pump	Bearing	Ceramic Bearing		
	MTBF	50,000 hours		
	Motor Speed	2200 rpm		
	Rated Voltage	12 V		
	Rated Current	0.45 A (Average 0.34 A)		
Radiator	Dimension	270 x 120 x 32 mm		
	Material	Aluminium		
Tube	Material	FEP		
	Length	315 mm		
Weight (w/o fan)		635 g		
Bracket	Compatibility	Intel® LGA 775/1155/1156/1366/2011, AMD® AM2/AM2+/AM3/AM3+/FM1/FM2		
Fan	Dimension	120 x 120 x 25 mm		
	Bearing	Twister Bearing		
	MTBF	100,000 hours		
		Silent Mode	Performance Mode	Overclock Mode
	Speed (RPM)	800 ~ 1500	800 ~ 1800	800 ~ 2200
	Air Flow (CFM)	37.6 ~ 71.3	37.6 ~ 86.7	37.6 ~ 105.9
	Air Flow (m³/h)	63.9 ~ 121.1	63.9 ~ 147.3	63.9 ~ 180.0
	Static Pressure (mm-H2O)	0.7 ~ 1.7	0.7 ~ 2.4	0.7 ~ 3.6
	Noise Level (dBA)	17.3 ~ 24.3	17.3 ~ 28.3	17.3 ~ 31.2
	Rated Voltage	12 V		
	Rated Current	0.45 A (Average 0.25 A)		
Connector	4 pin PWM			
Warranty	5 years			
WWW.ENERMAX.CO.UK/ELC240				

Dimensions (in mm)



Package Content



Certifications & Standards

