

NOFAN

www.nofancomputer.com
NO FAN NO NOISE

The pioneer of a revolutionary new type of computer cooling system.
The world's first fanless computer system.



NO NOISE, NO DUST

World first no noise computer !

0 dBA CPU Cooler
0 dBA Power Supply
0 dBA Case

0 dB



3 We think about **GREEN** **FREE SYSTEM**

01
Noise Free System



- Enjoy a noiseless computer system from boot-up to shut down.
- Enjoy a computer without vibration.

02
Dust Free System



- Save effort and cost of cleaning.

03
Maintenance Free System



- Do not have to pay your effort to maintenance.



01 Three Free System

Noise Free System

Enjoy a noiseless computer system from boot-up to shut down.

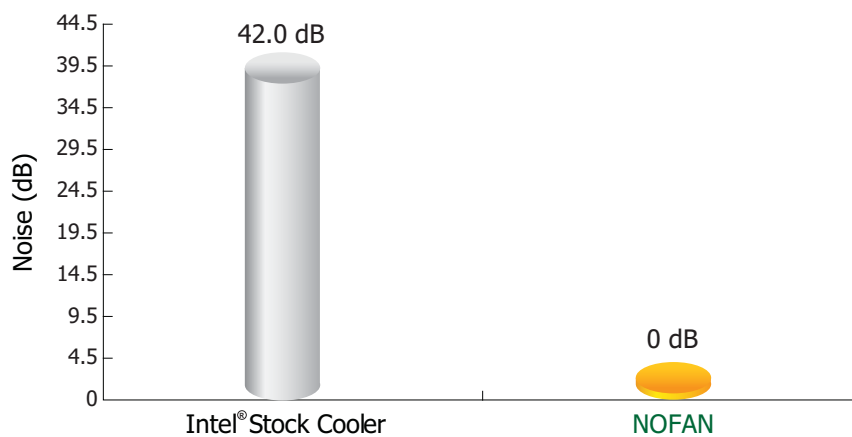
1. A noisy fan can cause discomfort and irritation while using the computer.
2. NOFAN shows what a pleasure using the computer without vibration is.

Enjoy a computer without Vibration.

1. Big fan generates noise with vibration.
2. NOFAN enables you to be free from any vibration.



Noise Comparison
(NOFAN vs Intel® Stock Cooler)

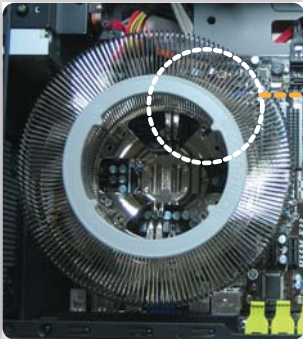


02 Three Free System Dust Free System

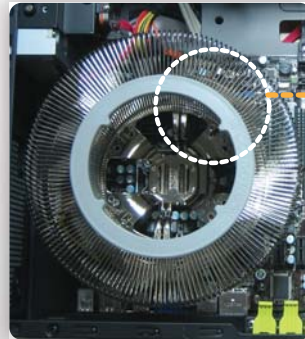
You can experience the benefits of an extremely clean computer system.

1. Free yourself from the hassle of having to clean your computer.
2. Microbes in dust can cause or aggravate asthma and other respiratory diseases.
3. NOFAN prevents your computer from malfunction due to high CPU temperature caused by layers of accumulating dust.

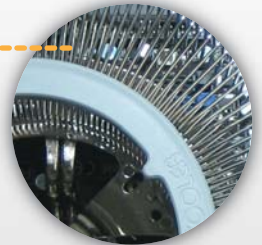
► NOFAN system never collects dust.



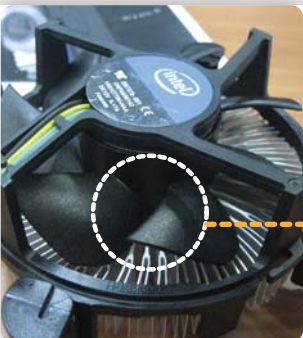
Brand new



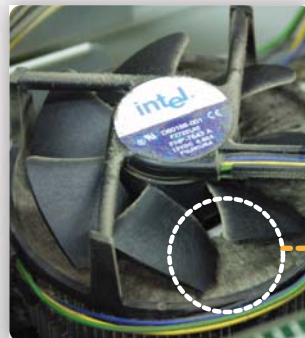
After a year of use



► A lot of dust is collected in a normal computer.



Brand new



After a year of use



- Dust in the system causing poor ventilation is often the reason CPUs overheat and breakdown.

03 Three Free System Maintenance Free System

Save the effort and cost of maintaining your computer.

1. NOFAN keeps your PC clean during the lifetime.
2. Eliminates the hassle of cleaning and replacing the cooling fan.



NOFAN Set A430

Noise and dust free computer that doesn't need additional power for cooling.
Compatible with CPUs up to 100 Watts.

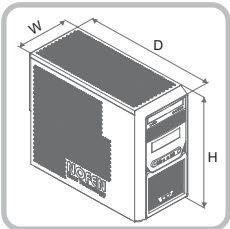
Application fields

Copywriter, Senior Student, Writer, Doctor, Researcher, Blogger, Nurse, Reporter, Lawyer, Specialist, Corporation, School, Government office, Hospital, User who doesn't want to hear any noise, Designer, Homemaker, Banker, Counsellor.

NOFAN CASE : CS-60

Feature

- Micro ATX form factor
- Hexagonal Vent : Optimized for natural convection
- Additional HDD/SDD bay



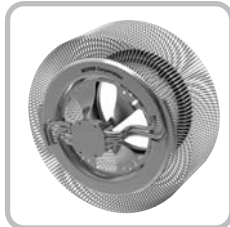
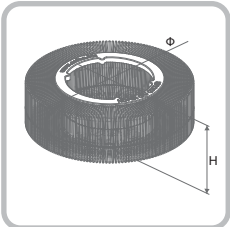
Model	CS-60
Size	180mm (W) x 425mm (D) x 410mm (H)
Weight	4.2 kg
VGA Compatibility	Second PCI-E
Expansion Slot	5
USB 3.0 (Front)	1 EA
HDD bay	3 EA
Motherboard Compatibility	Micro ATX

※ Most basic chassis with the bare minimum specifications for a NO FAN Computer.
See recommended chassis list for more functionality.

NOFAN COOLER : CR-100A

Feature

- No Fan, No Noise cooler for CPUs up to 100 Watts
- Semi-permanent Life Cycle : Maintenance free
- No Dust, No Vibration : Keeps computer clean and vibration free
- Combination of Super-Thermal Conductors : Heat Pipe & ICEPIPE

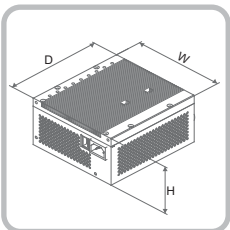


Model	CR-100A
Size	222mm (Φ) x 132mm (H)
Weight	783 g
Thermal Resist. (@25℃ amb.)	0.48 ℃/W
Case Compatibility	CS-30, CS-60

NOFAN POWER : P-400A

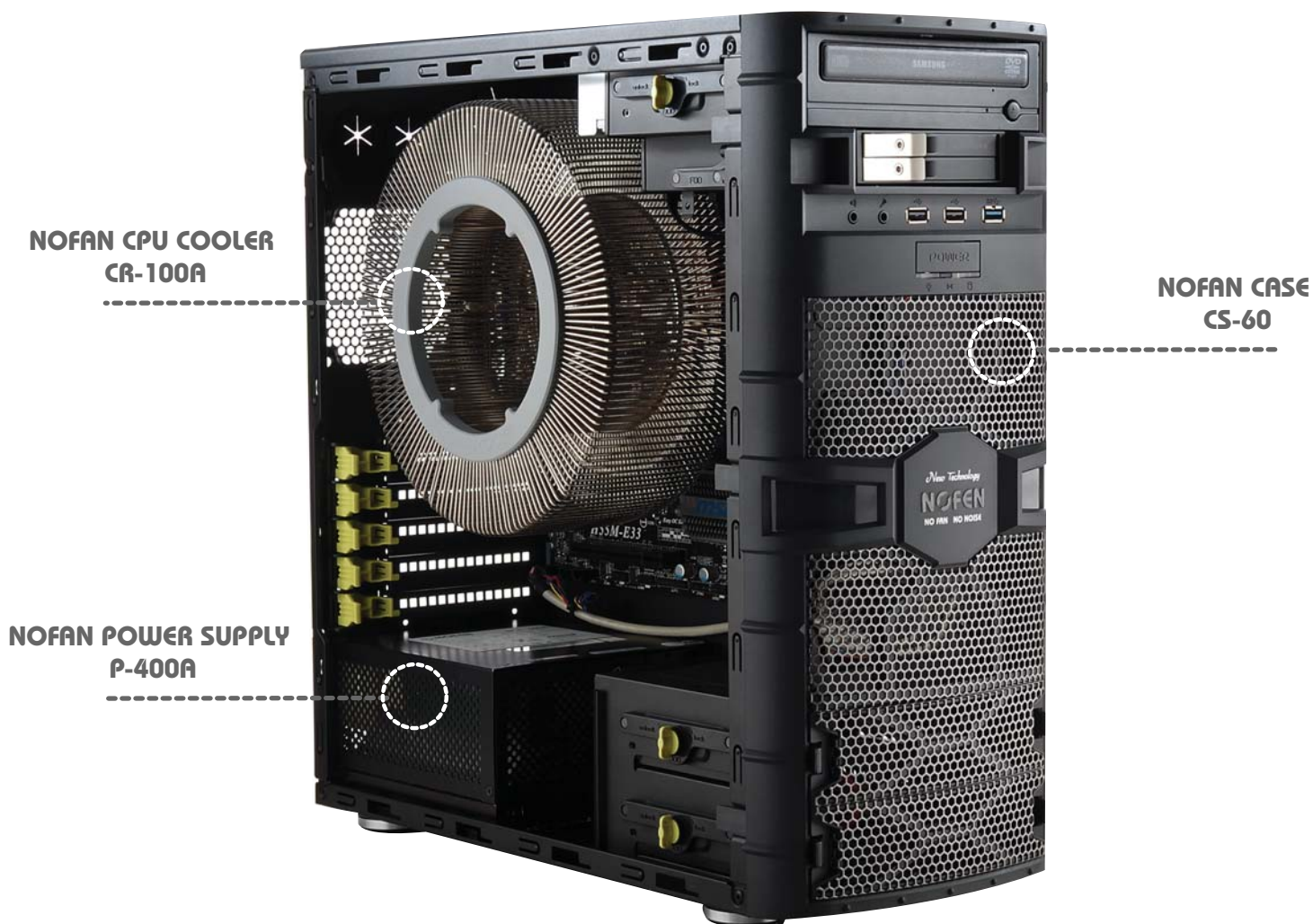
Feature

- Supportable peak power is 560 Watts with 80+ certi.
- Huge heat sink for cooling components by natural convection
- No Noise / No Vibration
- Premium noise free power supply



Model	P-400A
Size	160mm (W) x 150mm (D) x 86mm (H)
Weight	3 kg
Active PFC	Supportable
80 plus Certification	Certified (Bronze), 86%
Total Power	400W (Peak power 560W)
Input Voltage	110~220V (50~60HZ)
IDE Power Cable (3 Connectors)	1 EA
SATA Power Cable (3 Connectors)	2 EA
PCI-E (6 Pin)	1 EA

NOFAN Set A430



**NOFAN CPU COOLER
CR-100A**

**NOFAN CASE
CS-60**

**NOFAN POWER SUPPLY
P-400A**

>> Fanless INTEL CPU system with NOFAN products

Component	Manufacturer	Recommended Product
1.CPU	Intel Corporation	Intel Core I7-2600
2.CPU Cooler	NOFAN Corporation	CR-100A
3.Chassis	NOFAN Corporation	CS-60
4.Motherboard	Gigabyte Technology Co.,LTD	GA-Z68MX-UD2H
5.VGA Card	Gigabyte Technology Co.,LTD	Radeon HD 6770 UDV D5 Silent-Cell (1G)
6.Power Supply	NOFAN Corporation	P-400A
7.Solid State Disk	OCZ Technology Group, Inc.	OCZ Vertex2 128GB

>> Fanless AMD CPU system with NOFAN products

Component	Manufacturer	Recommended Product
1.APU	AMD	A8 3850
2.CPU Cooler	NOFAN Corporation	CR-100A
3.Chassis	NOFAN Corporation	CS-60
4.Motherboard	Gigabyte Technology Co.,LTD	GA-A75M-UD2H
5.VGA Card	Gigabyte Technology Co.,LTD	Radeon HD 6770 UDV D5 Silent-Cell (1G)
6.Power Supply	NOFAN Corporation	P-400A
7.Solid State Disk	OCZ Technology Group, Inc.	OCZ Vertex2 128GB

NOFAN Set A700 NOFAN's 0 dBA m- ATX Set !

Noise and dust Free computer ! No need of additional power for CPU & VGA, Power Supply Cooling.
Enjoy 2nd Generation Core i7 Processor ! Compatible with CPUs up to 100Watts TDP.

Application fields

Copywriter, Senior Student, Writer, Doctor, Researcher, Blogger, Nurse, Reporter, Lawyer, Specialist, Corporation, School, Government office, Hospital, User who doesn't want to hear any noise, Designer, Homemaker, Banker, Counsellor.

NOFAN CASE : CS-70

Feature

- Micro ATX form factor
- Vibration Prevention Mechanism for HDD, ODD
- Additional SSD bay
- Premium Aluminum side panel with vent holes for natural convection

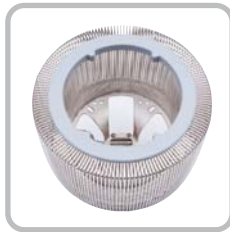
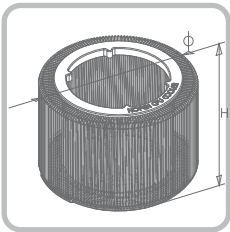


Model	CS-70
Size	235mm (W) x 284mm (D) x 487mm (H)
Weight	4.2 kg
VGA Compatibility	Second PCI-E
Expansion Slot	7
USB 3.0 (Front)	2 EA
HDD bay (Optional)	6 EA
Motherboard Compatibility	ATX, Micro ATX

NOFAN COOLER : CR-100C

Feature

- No Fan, No Noise cooler for 100W CPU
- Semi-permanent life cycle
- Wider compatibility for case and PCI slots
- Compatible to 16x VGA slot in INTEL 1155 ATX M/B

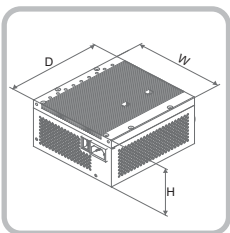


Model	CR-100C
Size	180mm (Φ) x 160mm (H)
Weight	750 g
Thermal Resist. (@25°C amb.)	0.48 °C/W
Case Compatibility	CS-60, CS-80, CS-90

NOFAN POWER : P-400A

Feature

- Supportable peak power is 560 Watts with 80+ certi.
- Huge heat sink for cooling components by natural convection
- No Noise / No Vibration from Fan
- Premium noise free power supply



Model	P-400A
Size	160mm (W) x 150mm (D) x 86mm (H)
Weight	3 kg
Active PFC	Supportable
80 plus Certification	Certified (Bronze).86%
Total Power	400W (Peak power 560W)
Input Voltage	110~220V (50~60HZ)
IDE Power Cable (3 Connectors)	1 EA
SATA Power Cable (3 Connectors)	2 EA
PCI-E (6 Pin)	1 EA

NOFAN Set A700



**NOFAN CPU COOLER
CR-100C**

**NOFAN CASE
CS-70**

**NOFAN POWER SUPPLY
P-400A**

>> Fanless INTEL CPU system with NOFAN products

Component	Manufacturer	Recommended Product
1.CPU	Intel Corporation	Intel Core i5-2500
2.CPU Cooler	NOFAN Corporation	CR-100C
3.Chassis	NOFAN Corporation	CS-70
4.Motherboard	Gigabyte Technology Co.,LTD	GA-Z68MX-UD2H
5.VGA Card	Gigabyte Technology Co.,LTD	Radeon HD 6770 UDV D5 Silent-Cell (1G)
6.Power Supply	NOFAN Corporation	P-400A
7.Solid State Disk	OCZ Technology Group, Inc.	OCZ Vertex2 128GB

>> Fanless AMD CPU system with NOFAN products

Component	Manufacturer	Recommended Product
1.APU	AMD	A6 3650
2.CPU Cooler	NOFAN Corporation	CR-100C
3.Chassis	NOFAN Corporation	CS-70
4.Motherboard	Gigabyte Technology Co.,LTD	GA-A75M-UD2H
5.VGA Card	Gigabyte Technology Co.,LTD	Radeon HD 6770 UDV D5 Silent-Cell (1G)
6.Power Supply	NOFAN Corporation	P-400A
7.Solid State Disk	OCZ Technology Group, Inc.	OCZ Vertex2 128GB

NOFAN Set A800 NOFAN's 0 dBA Full ATX Set !

Noise and dust Free computer ! No need of additional power for CPU & VGA, Power Supply Cooling. Enjoy 2nd Generation Core i7 Processor ! Compatible with CPUs up to 100Watts TDP.

Application fields

Copywriter, Senior Student, Writer, Doctor, Researcher, Blogger, Nurse, Reporter, Lawyer, Specialist, Corporation, School, Government office, Hospital, User who doesn't want to hear any noise, Designer, Homemaker, Banker, Counsellor.

NOFAN CASE : CS-80

Feature

- Full ATX form factor
- Tool Free Mechanism for PCI slots, HDD, ODD
- Additional HDD/SDD bay
- Full mesh-side panel for natural convection

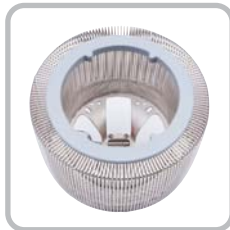
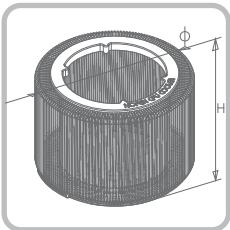


Model	CS-80
Size	200mm (W) x 490mm (D) x 470mm (H)
Weight	7.0 kg
VGA Compatibility	First & Second PCI-E
Expansion Slot	7
USB 3.0 (Front)	2 EA
HDD bay (Optional)	9 EA
Motherboard Compatibility	ATX, Micro ATX

NOFAN COOLER : CR-100C

Feature

- No Fan, No Noise cooler for 100W CPU
- Semi-permanent life cycle
- Wider compatibility for case and PCI slots
- Compatible to 16x VGA slot in INTEL 1155 ATX M/B

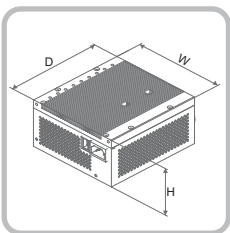


Model	CR-100C
Size	180mm (Φ) x 160mm (H)
Weight	750 g
Thermal Resist. (@25°C amb.)	0.48 °C/W
Case Compatibility	CS-60, CS-80, CS-90

NOFAN POWER : P-400A

Feature

- Supportable peak power is 560 Watts with 80+ certi.
- Huge heat sink for cooling components by natural convection
- No Noise / No Vibration from Fan
- Premium noise free power supply



Model	P-400A
Size	160mm (W) x 150mm (D) x 86mm (H)
Weight	3 kg
Active PFC	Supportable
80 plus Certification	Certified (Bronze).86%
Total Power	400W (Peak power 560W)
Input Voltage	110~220V (50~60HZ)
IDE Power Cable (3 Connectors)	1 EA
SATA Power Cable (3 Connectors)	2 EA
PCI-E (6 Pin)	1 EA

NOFAN Set A800



**NOFAN CPU COOLER
CR-100C**

**NOFAN CASE
CS-80**

**NOFAN POWER SUPPLY
P-400A**

>> Fanless INTEL CPU system with NOFAN products

Component	Manufacturer	Recommended Product
1.CPU	Intel Corporation	Intel Core I7-2600
2.CPU Cooler	NOFAN Corporation	CR-100C
3.Chassis	NOFAN Corporation	CS-80
4.Motherboard	Gigabyte Technology Co.,LTD	GA-Z68X-UD4H
5.VGA Card	Gigabyte Technology Co.,LTD	Radeon HD 6770 UDV D5 Silent-Cell (1G)
6.Power Supply	NOFAN Corporation	P-400A
7.Solid State Disk	OCZ Technology Group, Inc.	OCZ Vertex2 128GB

>> Fanless AMD CPU system with NOFAN products

Component	Manufacturer	Recommended Product
1.APU	AMD	A8 3850
2.CPU Cooler	NOFAN Corporation	CR-100C
3.Chassis	NOFAN Corporation	CS-80
4.Motherboard	Gigabyte Technology Co.,LTD	GA-A75-UD4H
5.VGA Card	Gigabyte Technology Co.,LTD	Radeon HD 6770 UDV D5 Silent-Cell (1G)
6.Power Supply	NOFAN Corporation	P-400A
7.Solid State Disk	OCZ Technology Group, Inc.	OCZ Vertex2 128GB

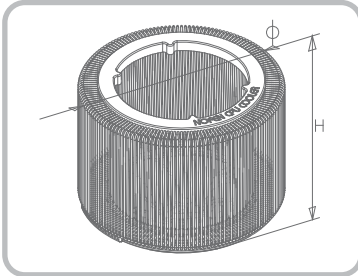
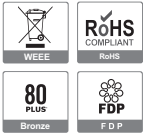
FANLESS CPU Cooler CR-95C / CR-100C

0 dB

Specification

Feature

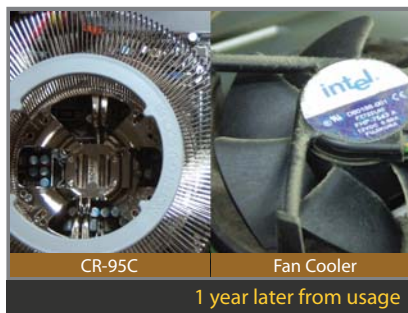
- The world's first fanless CPU Cooler
- Three free (Noise, Dust, Maintenance) ICEPIPE cooler's heat transfer rate is 400 times faster than Aluminum fin.
- Wide Compatibility – AMD and INTEL all sockets
- Easy Installation



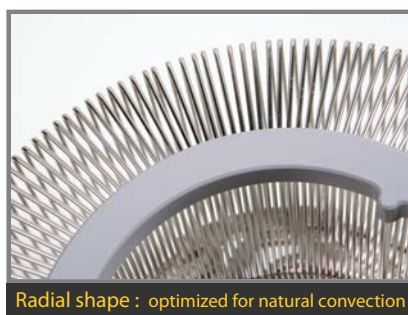
Model	CR-95C	CR-100C
Size	180mm (Φ) x 148mm (H)	180mm (Φ) x 160mm (H)
Weight	730 g	750 g
Thermal Resist. (@25°C amb.)	0.51 °C/W	0.48 °C/W
Material	Pure Copper, Aluminum	Pure Copper, Aluminum
Dissipation Area	217,036 mm ²	236,328 mm ²
ICEPIPE	1EA(43,200mm)	1EA(47,040mm)
Heatpipe	4EA	4EA
NOFAN Case Compatibility	CS-30, CS-60, CS-70, CS-80	CS-70, CS-80

FANLESS Cooler

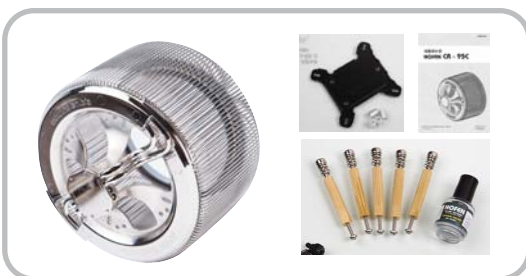
Noise, dust and vibration free cooler is adequate to quiet interior Space.
Maintenance is easy because of less dust accumulation.



For maximizing heat transfer, 180 ice pipes and four Heat Pipe are combined directly together.



Components



Thermal Grease



Appearance	Gray
Capacity	3g
Density	2.27g/cm ³
Thermal Conductivity	7.8 W/mK
Thermal Resistance	0.0050°C in ² /W
Maximum Continuous Operating Temperature	150°C

FANLESS CPU Cooler CR-95C / CR-100C



CR-95C



CR-100C

>> Compatible CPU and Socket list (CR-95C)

Manufacture	Socket	CPUs
Intel	1155	Core i5 2nd G (i5)
	1156	Core i3 2nd G (i3)
	775	Core 2 Quad Core 2 Duo
AMD	FM1	A6
	AM3+	Phenom II
	AM3	Athlon II
	AM2+	Phenom
	AM2	Athlon ×2

>> Compatible CPU and Socket list (CR-100C)

Manufacture	Socket	CPUs
Intel	1155	Core i5 2nd G (i5)
	1156	Core i3 2nd G (i3)
	775	Core 2 Quad Core 2 Duo
AMD	FM1	A8
	AM3+	A6
	AM3	Phenom II
	AM2+	Athlon II
	AM2	Phenom
		Athlon ×2

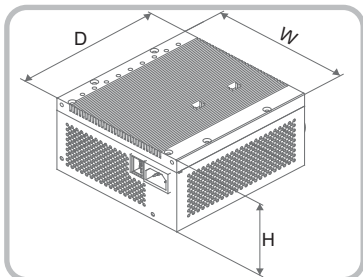
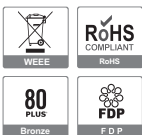
FANLESS POWER SUPPLY P-400A

0 dB

Specification

Feature

- Supportable peak power is 560 Watts with 80+ certi.
- Huge heat sink for cooling components by natural convection
- No Noise / No Vibration from Fan
- Premium noise free power supply



Model	P-400A
Size	160mm (W) x 150mm (D) x 86mm (H)
Weight	3 kg
Active PFC	Supportable
80 plus Certification	Certified (Bronze).86%
Total Power	400W (Peak power 560W)
Input Voltage	110~220V (50~60HZ)
IDE Power Cable (3 Connectors)	1 EA
SATA Power Cable (3 Connectors)	2 EA
PCI-E (6 Pin)	1 EA

Features



Ground circuit
When the current flow comes from outside of products, the internal safety ground circuit protect the product.



Safety fuse circuit
If product is exposed to voltage instability, safety fuse protect the product effectively in an unstable environment.



Output
The neat finish of each outout line can keep a signal interference a minimum, so unnecessary power leak is minimized and work more reliably.



High Capacity Condensor
A high capacity condenser where 560W peak power is applied allows up to 560W output. The use of high-performance components has increased even more stability even for long-term use.



EMI Filter
During operation, EMI Filter prevent the frequency which cause the noise emission. EMI filter passes only the signal of the circuit operation and blocks noise.



Active PFC
With Active PFC circuitry, the power factor is increased.

High efficiency Design

80 PLUS
Bronze

Highly Efficient Design and 80 PLUS® Bronze Certified

This power supply is capable of reaching a maximum of 86% efficiency (230VAC, Full & Typical Load) NOFAN P-400A has been 80 PLUS® Bronze certified and guarantees higher efficiency compared to uncertified products.

High efficiency Design

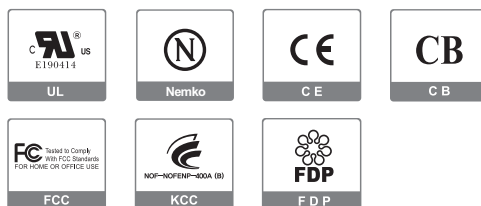


This product complies with the WEEE & RoHS environmental directives of the European Union.

Components



Certification



FANLESS POWER SUPPLY P-400A



>> P-400A Specifications

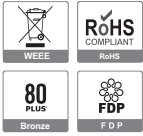
AC Input Range	Voltage	110 – 240 VAC			Output Voltage Stability	Output Voltage	Safety Range			
	Frequency	50 – 60 Hz				+ 3.3 V	3.76 – 4.8 V			
PFC Type	ACTIVE PFC					+ 5 V	5.6 – 7.0 V			
Efficiency(%)	TYPICAL LOAD(50%)	86 %				+ 12 V1	13.0 – 16.5 V			
	FULL LOAD (100%)	85 %				+ 12 V2	13.0 – 16.5 V			
DC Output	Output Voltage	Output Load Range				Total Output	Safety Features			
		Imin	Inor	Imax			Over Current Protection (OVP)			
	+3.3 V	0.0 A	10 A	20.0 A		130 W	Over Current Protection (OVP)			
	+5 V	0.0 A	7.0 A	14.0 A		324 W	Short Circuit Protection (SCP)			
	+12 V1	0.2 A	7.0 A	14.0 A			External temperature		External moisture	
	+12 V2	0.2 A	6.5 A	13.0 A	Operation		Storage	Operation	Storage	
	-12 V	0.0 A	0.25 A	0.5 A	18.5 W	0 – 45°C	-20 – 60°C	5 – 95%RH	5 – 95%RH	
	+5 Vsb	0.0 A	1.25 A	2.5 A	Dimensions	160 x 150 x 86 mm				

FANLESS CASE

CS-60

0 dB

Specification



Category	Middle Tower
Motherboard	Micro ATX
Dimension	180mm (W) x 425mm (D) x 410mm (H)
Material	SECC / 0.6~0.7t
Color	Black
5.25" Bay	2 EA (External)
3.25" Bay	4 EA (External 4EA)
Front Terminal	USB 2.0 x 2/USB3.0 x 1/HD Audio
Expansion Slot	5EA
NOFAN CPU Cooler Compatibility	CR-100A, CR-95C

Hexagon Mesh Panels

Help much of air flow naturally to the outside of case.



Hexagon-mesh panels is optimized to natural air convection. Side panel is made of full mesh- panel to get much of air from outside. Lots of vent holes of top and front panel let easy hot air go outside.



For a high usage-related USB equipment or speakers, a microphone, you can use the convenience of an external USB 2.0x2, USB3.0x1, HD AUDIO port, MC ports by placing them on the front panel.

Screwless(Tool-Free)

Available to mount the drive bay, cards without screws.



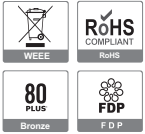
Easy Cable Configuration



Users can configure cables easily through back space of back panel.

FANLESS CASE CS-70 0 dB

Specification



Category	Middle Tower
Motherboard	Micro ATX
Dimension	235mm (W) x 487mm (D) x 284mm (H)
Material	Aluminum, SECC
Color	Black
5.25" Bay	1 EA (External)
3.5" Bay	3 EA (Internal 3EA)
2.5" Bay	1 EA (Internal 1EA)
Top Terminal	USB 3.0 x 2/HD Audio
Expansin Slot	4EA
NOFAN CPU Cooler Compatibility	CR-100C, CR-95C

Aluminum Panels and Circular Holes

Simple and modern design does not feel like the computer case. Sand blast anodized aluminum exterior provides a new paradigm of an attractive and fully functional case.

Luxury aluminum body has lots of circular holes for maximizing air flow to outside of case.



USB 3.0 - External Port



Good Expansibility

Users can have 4 more drives cards in the noiseless environment.



Born to the Natural Convection

Vertical air flow structure can make heat go out of case efficiently



High Performance VGA Card

Available VGA Card length is 300mm
Enjoy the game without fan noise.



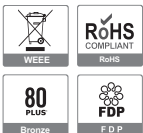
Hot swap bay is applied on Internal 3.5-inch bays, so users can easily assemble and separate the HDD from computer. Rubber damper in the drive bay which reduces the vibration and noise from hard disk.

FANLESS CASE

CS-80

0 dB

Specification



Category	Middle Tower
Motherboard	FULL ATX
Dimension	200mm (W) x 490mm (D) x 470mm (H)
Material	SECC / 0.6~0.7t
Color	Black
5.25" Bay	3 EA (External)
3.25" Bay	6 EA (External 1EA / Internal 5EA)
Front Terminal	USB 2.0 x 2/ e-SATA/HD Audio
Expansin Slot	7EA
NOFAN CPU Cooler Compatibility	CR-100C, CR-95C

Hexagon Mesh Panels

Help much of air flow naturally to the outside of case.



For a high usage-related USB equipment or speakers, a microphone, you can use the convenience of an external USB 2.0x2, e-SATA, HD AUDIO port, MC ports by placing them on the front panel.



EZ-SWAP helps HDD mounted on the outside of computer case by open the door lock on the side panel.

Compatibility is much wider

Users can have more drivers and cards in the noiseless environment.



Total
9 Drive Bays

External
5.25" x 3 pcs
3.5" x 1 pcs

Internal
3.5" x 5 pcs
(2.5" compatible)

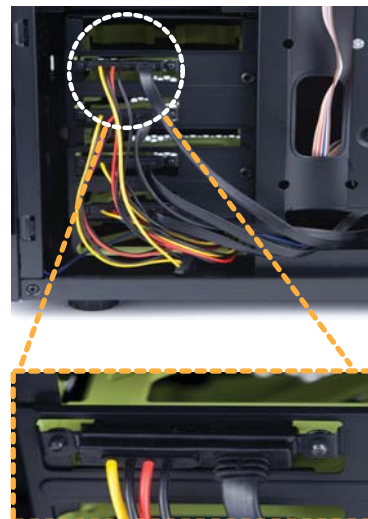
Screwless

Available to mount the drive bay, cards without screws.



EZ-SWAP

Easy HDD mounting mechanism

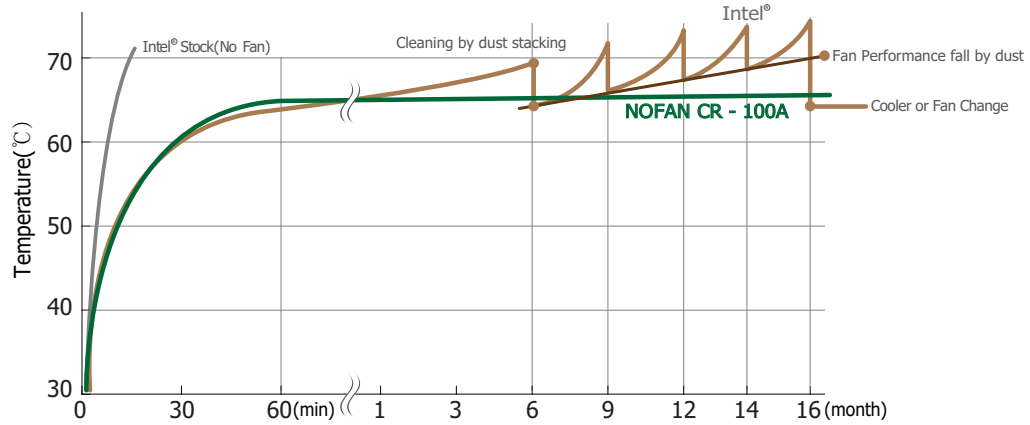


High Performance VGA Card



- Test Condition**
1. Test Bed : NOFAN System
 2. CPU : Intel® Core™ i5 660
 3. VGA : Intel® GMA HD
 4. TDP(Thermal Design Power) : 87 W
 5. CPU Load : Prime95 V.2.59
 6. Temperature Acquisition : Real Temp V.3.50
 7. H/W Check : CPUID Hardware Monitor V.1.0.9

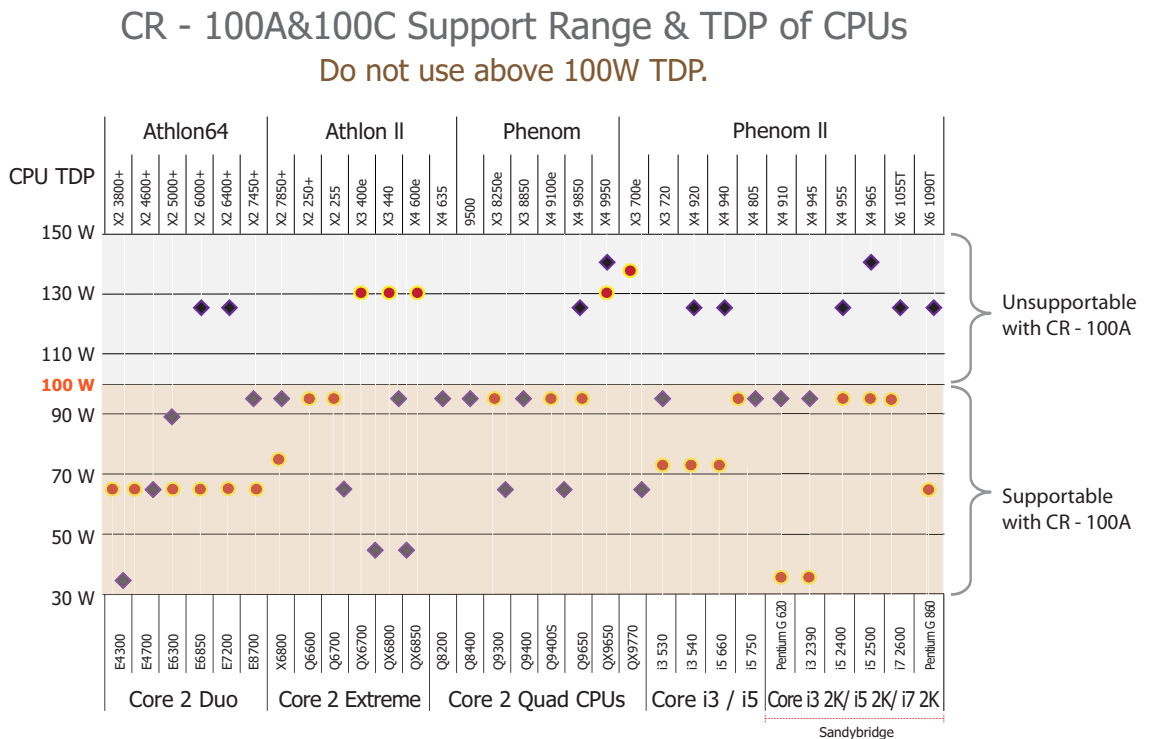
Temperature Curve of NOFAN Set A40 Stock Cooler



* For reference, Intel® stock cooler without fan is burnt out in 2 minutes due to overheating during system boot-up

CR - 100A&100C Support Range & TDP of CPUs

Do not use above 100W TDP.





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NO FAN NO NOISE