KAUDAIR®

Item Codes KD47 and KD48

Low Noise-Low Energy 120 x 120 x 38mm Cabinet Fan, Filtered with Plug Lead

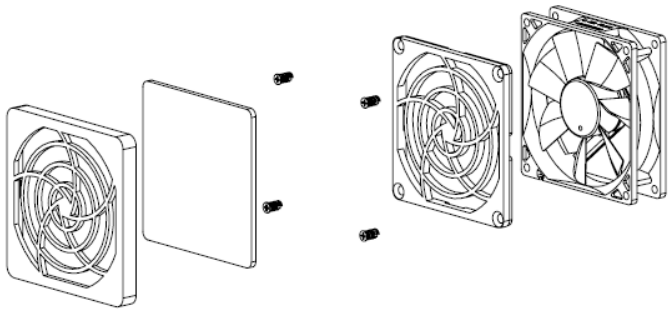
Top view

Bottom view with Filtered Guard

The KAUDAIR Range of Single Fans has been developed to cater for all Data Cabinets which have an aperture to accept an Industry Standard 120mm Fan. The SUNON Fan has been chosen as the air extraction mechanism, the mains harness being attached, tested and processed at our UK Facility. SUNON has been well recognized as a major manufacturer worldwide for its excellent technology, stable quality and participation in the NASA experimental program. The Fan and all accessories are made in China.

Item Code KD47 , KD48 ***Filter Guard comes pre-attached to bottom of Fan***

This Kit comes with a Black Plastic Filter that is pre attached to the bottom of the Fan. This version is used to prevent ingress of the dust emanating from the inside of the Cabinet entering the Fan. Just attach the silicone gasket and install the Fan to the Cabinet.
The diagram below shows Filter Guard un-assembled, although the Fan comes with it assembled and attached . The cover just snaps off to access the mesh filter.



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This KAUDAIR Fan Kit includes Metal Finger Guard, a Rubber Gasket and 4mm fixing screws. All have threaded M4 slots, so you don't need any nuts, just use the screws provided. Cable lengths available are 1.5 and 2 Metre with switched UK Plug . Included is a Filter Case with mesh filter that is attached to the bottom of the Fan.

Low Noise

The fan is at the low end of the noise spectrum for Fans and has been tested at 25/26 dB(A).

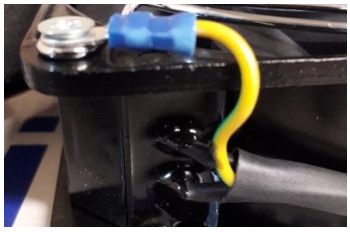
Rubber Silicone Gasket helps lower the noise floor - the Gasket sits between the Fan and the metal Cabinet Fan mounting area.

Low Energy

The rated Power consumption is around 8 Watts and gives an Air Delivery of 49/50 CFM. Economical if left on 24/7.

Safety

Fans are Impedance Protected, fused at 1 Amp (as now required) and compliant with all current Safety Standards in the UK/EU and UKCA ..CE Marked. TUV approved. If any Fan is locked by an external force while the electricity is on , an increase in coil temperature will be prevented by turning off the power to the motor. The Fan will restart when the locked rotor condition is released.



Mains wires are prepared sheathed and secured ,so the product can be handled with complete safety(image above). This part of the manufacturing process is completed and checked in our associate UK Engineering Facility. All Fans have the earth wire connected, a legal requirement

Switched Plug

The special Fan Plug has a switch so you can turn the Fan off at the Power Distribution Unit and save fumbling around inside the top of the Cabinet

↑Switch on back of UK Fan plug

Fan Depth – 38mm

All Fans are 38mm Deep and attached to Fan aperture at the top of Cabinet. You may need to leave 1Uspace at top of the rack mount, so Fan sits clear of the items installed beneath.

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Low Noise-Low Energy 120 x 38mm Data Cabinet Fan Kits with Filter

		Weight kg	Dimensions(mm)
Item Code KD47	1.5 metre Cable with UK style plug, Switched	0.816	240x160x50
Barcode	5028088005224		
Item Code KD48	2 metre Cable with UK style plug, Switched	0.840	240x160x50
Barcode	5028088005231		

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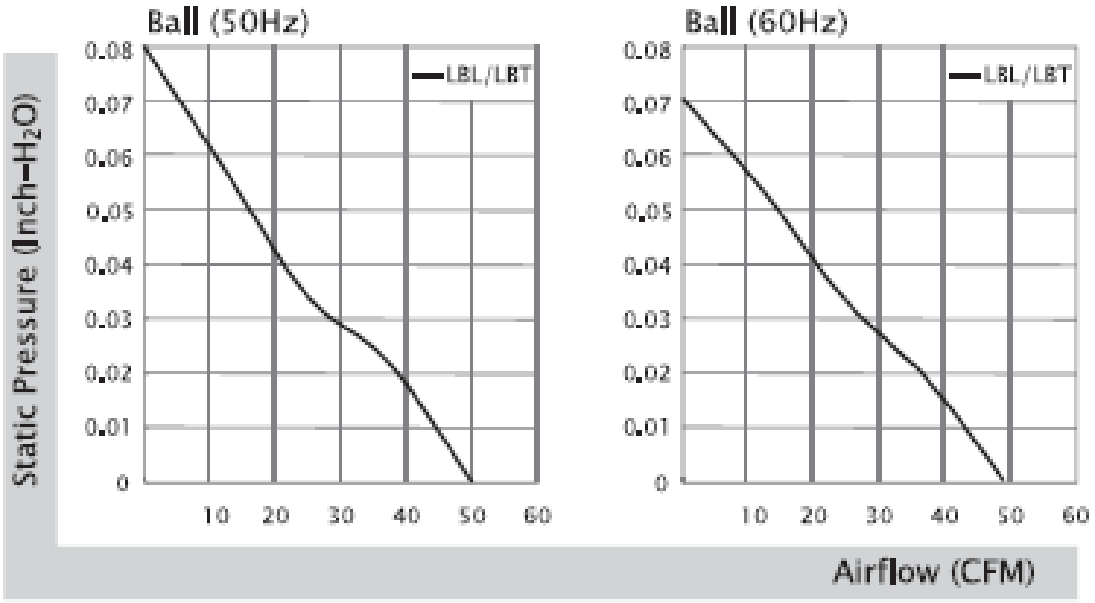
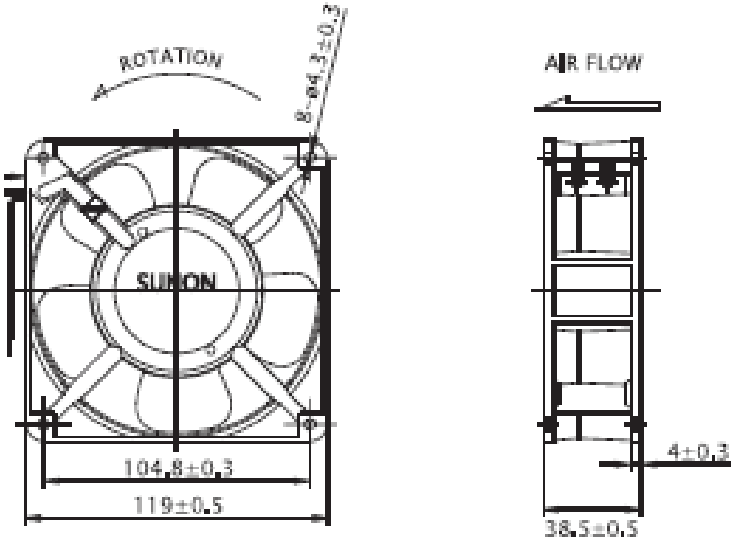
Bearing	Rating Voltage	Freq.	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise
● VAPO ○ BALL ◉ Sleeve	(VAC)	(Hz)	(AMP)	(WATTS)	(RPM)	(CFM)	(Inch–H_2O)	(dB(A))
○	220–240	50/60	0.04/0.04	8/8	1650/1600	50/49	0.08/0.07	26/25
○	220–240	50/60	0.04/0.04	8/8	1650/1600	50/49	0.08/0.07	26/25

Air Flow–Static Pressure Characteristics





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1. Motor Design	:	**Reliable Shaded-Pole Motor Construction.**
2. Insulation Resistance	:	**500 Megohms minimum at 500 VDC.**
3. Dielectric Strength	:	**1800 VAC for one second.**
4. Motor Protection	:	**Impedance protected.**
5. Noise Level	:	**Measured in a semi-anechoic chamber with background noise level below 15 dB(A). The fan is running in free air with the microphone at a distance of one meter from the fan intake.**
6. Tolerance	:	**±15% on rated power and current.**
7. Air Performance	:	**Measured by a double chamber. The values are recorded when the fan speed has stabilized at rated voltage.**