KAUDAIR®

Item Codes KD45 and KD46

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



Shown above is the basic fan you get with the kit- Top and bottom view- plus the Filter shown below

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.



Filter sits on top of Data Cabinet

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This KAUDAIR Fan Kit includes Metal Finger Guard, a Rubber Gasket , 4mm fixing screws and Filter . All Fans 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 top of the Cabinet. This version is used to keep the dust out of the cabinet when the fan is switched off and lowers the noise floor by a small degree…the Fans are low noise but every little helps.

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

		Weight Kg	Dimensions mm
Item Code KD45	1.5 metre Cable with UK style plug, Switched	0.855	240x160x50
Barcode	5028088		
Item Code KD46	2 metre Cable with UK style plug, Switched	0.882	240x160x50
Barcode	5028088		

Kit comes with Filter to be attached to top of Cabinet (see below) ↓

Fan is hidden from view covered as covered by Filter



Filter Case attached to top of Data Cabinet
Mesh Filter is inside the case and can be
Removed via access slots

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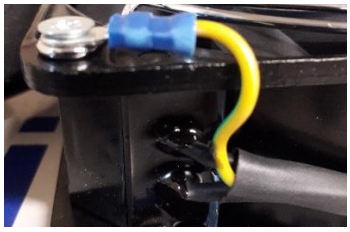
Main Advantages and Technical Specificatons

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

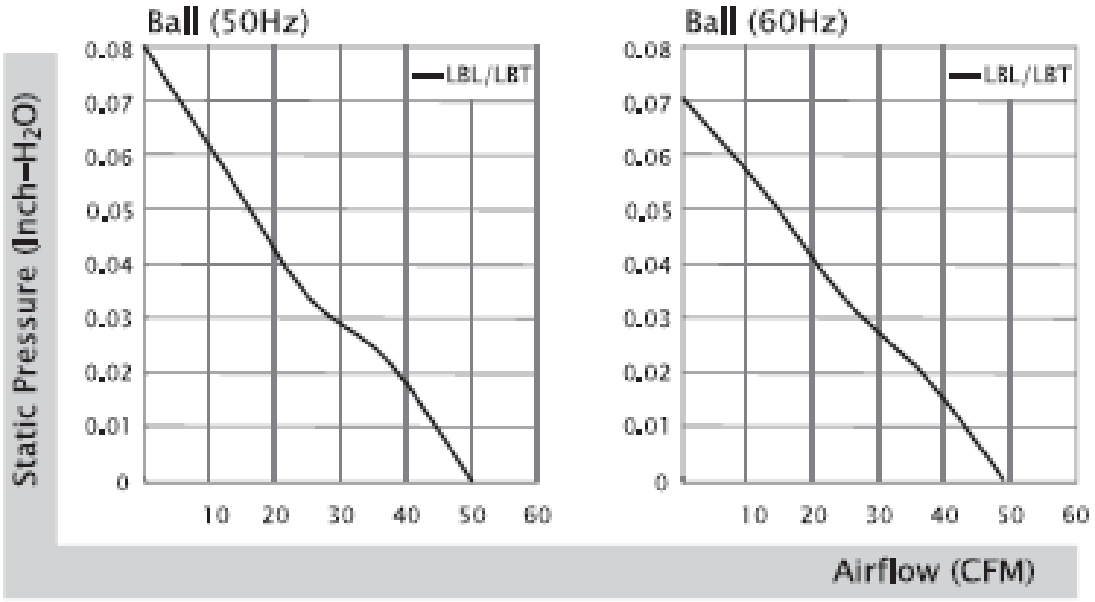
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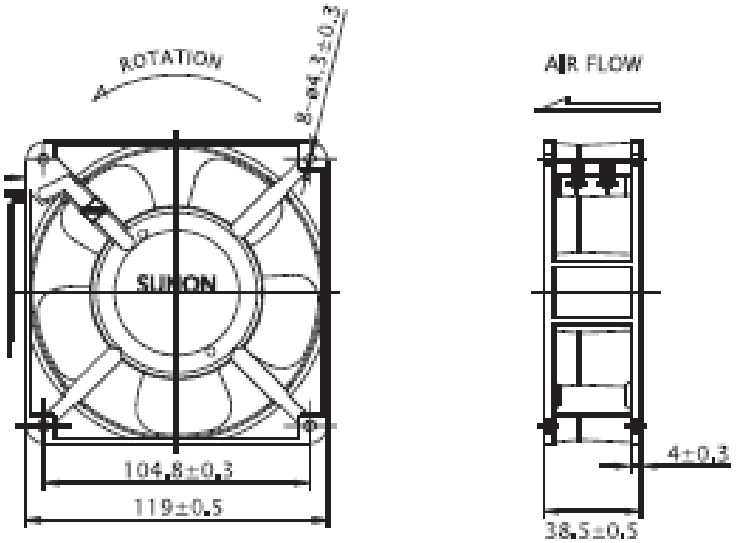
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Bearing	Rating Voltage	Freq.	Power Current	Power Consumption	Speed	Air Flow	Static Pressure	Noise
● VAPO ○ BALL ⊙ Sleeve	(VAC)	(Hz)	(AMP)	(WATTS)	(RPM)	(CFM)	(Inch–H_2O)	(dB(A))
○	220–240	50/60	0.04/0.04	8/8	1650/1600	50/49	0.08/0.07	26/25
○	220–240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

Air Flow–Static Pressure Characteristics



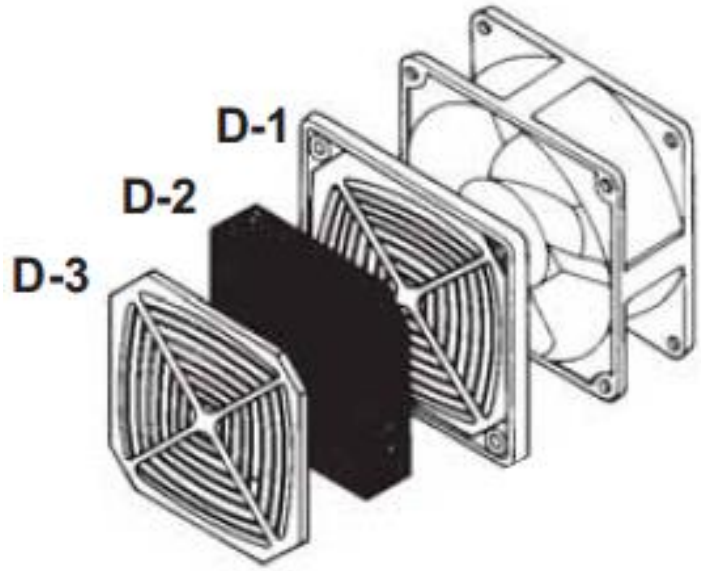


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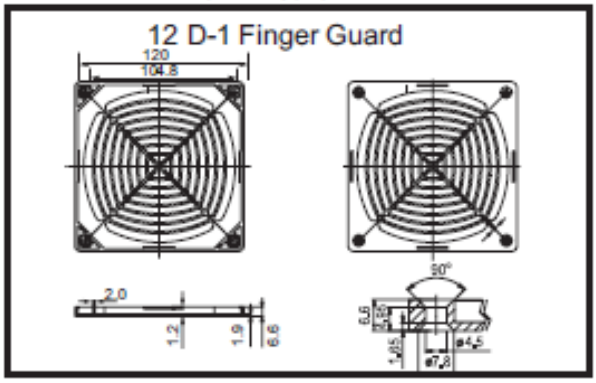
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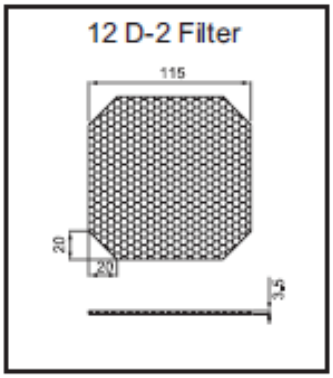
Filter is made as a black plastic case with Mesh Filter inside

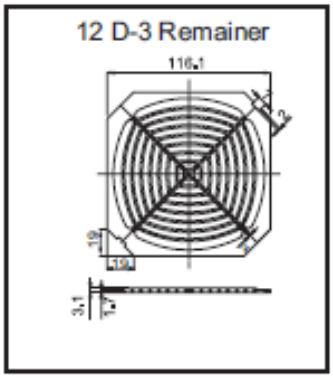


D1 Finger Guard - D2 Filter - D3 Filter Cover

For 120mm Fan(12 D Type)







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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.**