CU series □120 × 25 mm

AC Axial Fan
CU



□120×25 (□4.7"×1.0")
Max. airflow: 1.9 m³/min (50 Hz)
2.2 m³/min (60 Hz)
Max. static pressure:
53 Pa (50 Hz) 56 Pa (60 Hz)
Mass: 360 g

Fan model code

- CU115B5
- CU2B3
- CU2B5
- CU47F3
- CU47F5
- CU55B3
- CU55B5
- CUJ47F5
- CUJ55B5

Standard specification

(*1: Rated values appear on name plate)

Max. Airflow		Max. Static Pressure		Noise	Speed	Rated Vol.	Freq.	Input	Current	Lock	Model Code			
m³/min	CFM	Pa	inH₂O	dB	min⁻¹	V (±10 %)	Hz	W *1	mA*1	Current mA	Lead Wire Type	Std*2	Terminal Type	Std*2
1.9/ 2.2	67/ 78	53/ 56	0.21/ 0.23	40/ 45	2550/ 3000	100	50/ 60	16/14.5	190/140	200/170	**CU55B5**	UC	**CU55B3**	UCP
						100		12/11	190/140	200/170	**CUJ55B5**	P		
						115		11/10	160/130	180/160	**CU2B5**	UC	**CU2B3**	UCP
						115		11/9	140/110	150/120	**CU115B5**	UTV		
1.2/ 1.4	42/ 49	19/ 24	0.07/ 0.10	27/ 34	1500/ 1900	100-120	50/ 60	14/11	170/130	170/130	**CU47F5**	UCT	**CU47F3**	UCP
						100-120		14/10.5	170/130	170/130	**CUJ47F5**	P		

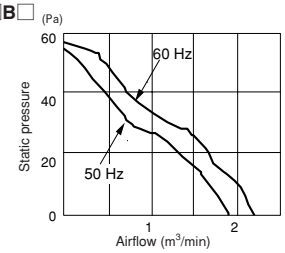
- Figures in the table are average measured values. Please request the product delivery specification when preparing a purchase specification.
- *2: The symbols in the standards column denote that they are registered in the following standards files, U: UL E48889, C: CSA LR49399, LR108118, T: TUV R60229-60302, V: VDE 3019UG
- *2: Products conforming to the specifications of the Electrical Appliance and Material Safety Law (Japan) can be used in case the products are assembled in electric appliances used in Japan. (Products marked with the (PS)E mark)

General specification

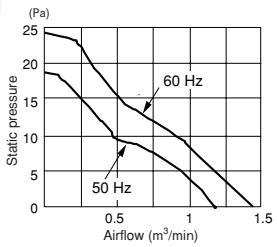
Materials Used	Venturi: Aluminum alloy die casting Propeller: Glass fiber reinforced polycarbonate resin Bearing: Double - sided shielded ball bearing
Motor	Shaded pole induction motor Protection type: Impedance protection
Common Elec. Spec.	See page G-12.
Usage Range	Rated voltage ±10 %
Operating Temp. Range	-20 ℃ ~ +60 ℃ (-20 ℃ ~ +55 ℃ in TÜV standard, -20 ℃ ~ +40 ℃ in VDE standard)
Standard Carton	30 to a carton of (450 x 380 x 160) mm, mass 12 kg

Standard airflow and static pressure characteristics (At rated voltage)

CU□□B□

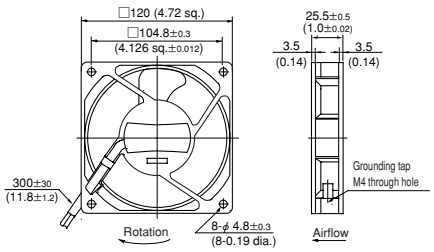


CU□□F□

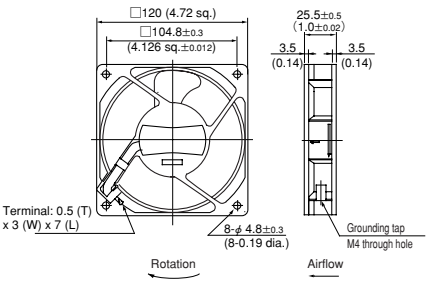


External dimensions in mm (inches)

● **Lead wire type (CU□□□5)**

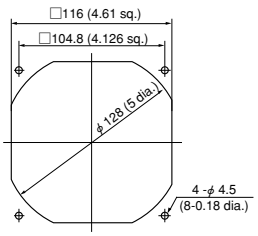


● **Terminal type**
[2 terminals: with grounding tap](CU□□□3)



Lead wire specification
CUJ series: Heat resistant PVC 0.75 mm² (30 conductors, 0.18 dia.)
CU series: AWG22 UL1015

Mounting hole dimensions in mm (inches) [Recommendation]



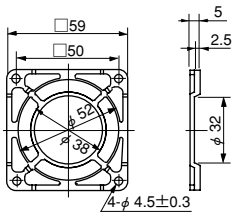
Identical for the intake and outlet sides

Options (sold separately)

- Guard: F120UL guard
- Filter: F120 filter
- Power code: T2P1 code, D2P1 code, UL2P1 code

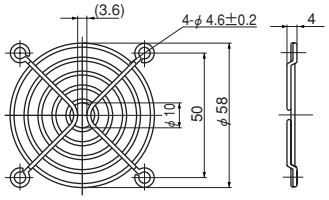
Guards (Options)

F60P Guard (Mass 4 g)



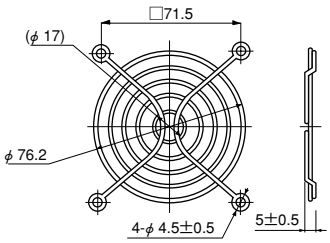
Material: Polycarbonate (black)
UL94V-2

F60UL Guard (Mass 12 g)



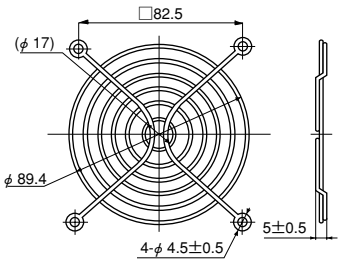
Material: Mild steel wire 1.6 dia.
Surface treatment:
Nickel chromium plating

F80UL Guard (Mass 14 g)



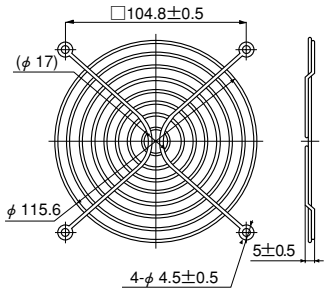
Material: Mild steel wire 1.6 dia.
Surface treatment:
Nickel chromium plating

F92UL Guard (Mass 16 g)



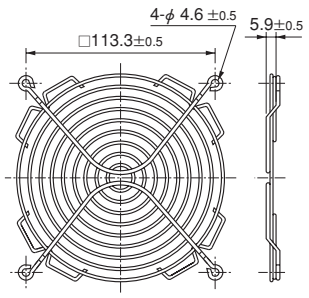
Material: Mild steel wire 1.6 dia.
Surface treatment:
Nickel chromium plating

F120UL Guard (Mass 29 g)



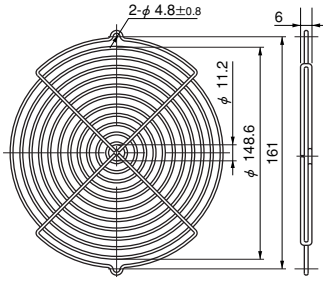
Material: Mild steel wire 1.6 dia.
Surface treatment:
Nickel chromium plating

F127UL Guard



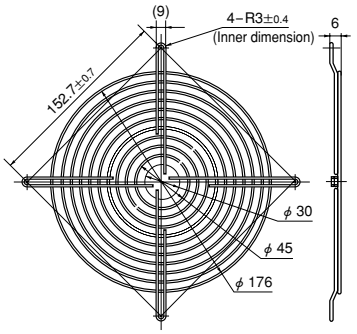
Material: Mild steel wire 1.6 dia.
Surface treatment:
Nickel chromium plating

GUARD 172



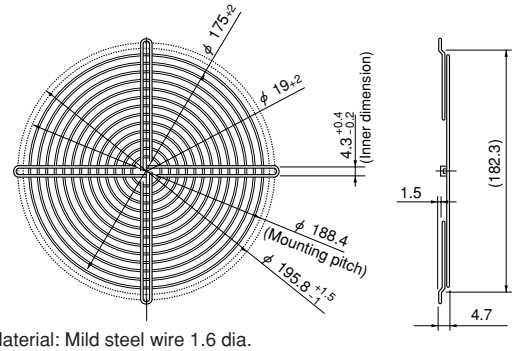
Material: Mild steel wire 2 dia.
Surface treatment:
Nickel chromium plating

F180UL Guard



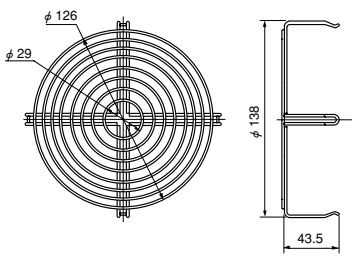
Material: Mild steel wire 1.6 dia.
Surface treatment:
Nickel chromium plating

F200UL Guard (Mass 82 g)



Material: Mild steel wire 1.6 dia.
Surface treatment:
Nickel chromium plating

SCN Guard (Mass 55 g)



Material: Mild steel wire 1.6 dia.
Surface treatment:
Nickel chromium plating

・Guard special for intake side of SCN (metal venturi) fans.

List of mating fan series

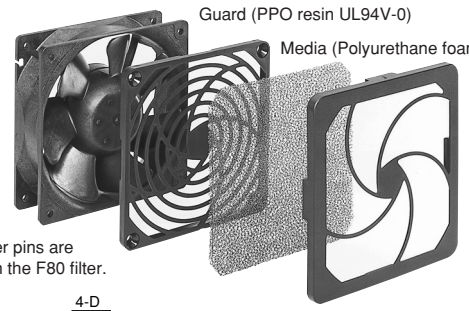
	Guard	F60P	F60 UL	F80 UL	F92 UL	F120 UL	F127 UL	GUARD 172	F180 UL	F200 UL	SCN
AC Axial Fans	SCN					○*1					○*2
	VE			○							
	WE				○						
	KA				○						
	CU					○					
	CN					○					
	MA							○			
	PA							○			
DC Axial Fans	TUDC	○	○								
	PUDC			○							
	KUDC				○						
	DO925C				○						
	KLDC				○						
	CUDC					○					
	D1225C					○					
	CNDC					○					
	D1238T					○					
	D1238B					○					
	D1338B						○				
	D1338S						○				
	D1751M							○			
	D1751S							○			
	G0638D		○								
	G0838C			○							
	G0938B				○						
	G1238B					○					
	G1751M							○			

*1: Can be installed only on outlet side. *2: Can be installed only on intake side.
All guards conform to the UL standard when combined with our company fans.
The installation of a filter, guard and other accessories will constitute a ventilating load, reducing the airflow.Select a suitable guard, taking into consideration the increase in air resistance. (See Figs. 12 and 13 on page G-7.)

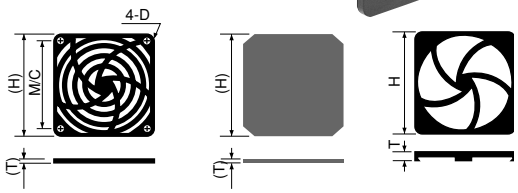
Filters and Other Accessories (Options)

Filter

3-piece set



Note: Two retainer pins are provided on the F80 filter.



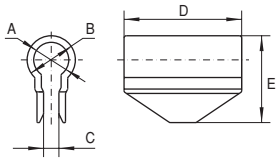
List of mating fan series

Filter		F80	F92	F120
DC Axial Fans	PUDC	○		
	KUDC		○	
	D0925C		○	
	KLDC		○	
	CUDC			○
	D1225C			○
	CNDC			○
	D1238T			○
	D1238B			○
	G0838C	○		
	G0938B		○	
	G1238B			○

Filter		F80	F92	F120
AC Axial Fans	VE	○		
	WE		○	
	KA		○	
	CU			○
	CN			○

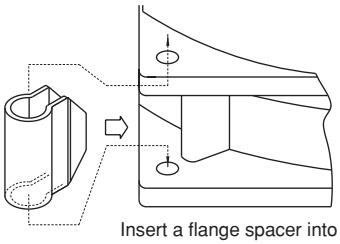
Component (Model Code)	H	T	M／C	D
F80 Filter	83.6	10	71.5	ϕ 3.8
F92 Filter	96.5	10	82.5	ϕ 3.8
F120 Filter	123.7	10.7	104.8	ϕ 4.6

Flange spacer



Component (Model Code)	A mm	B mm	C mm	D mm	E mm	Mating Model Code
Flange Spacer PUDC（※）	5	8	2	17	14.5	KUDC,PUDC
Flange Spacer CUDC（※）	8	11	3.5	15	19.8	CUDC
Flange Spacer CNDC	8	11	3.5	28	19.8	CNDC

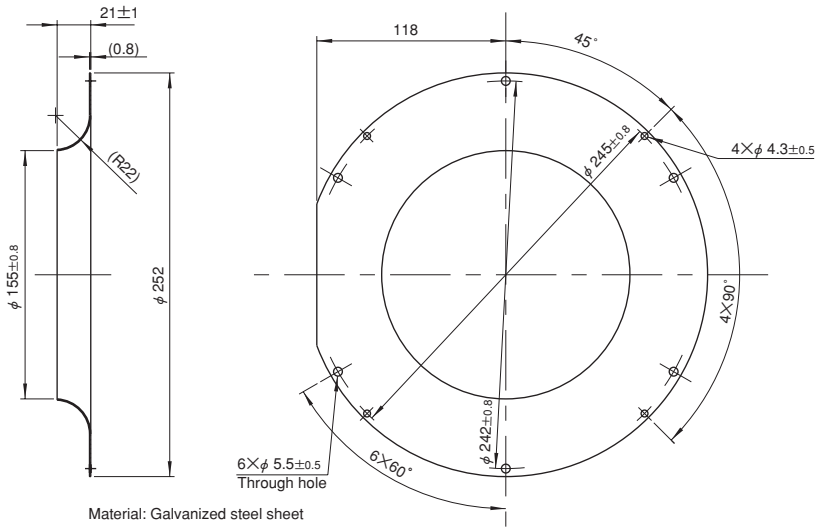
※Ribbed venturis (PUDC-R, CUDC-R) are available for PUDC and CUDC.



Insert a flange spacer into the ribs of a venturi.

(Installing a flange spacer)

Inlet ring



Material: Galvanized steel sheet

Component (Model Code)	Mating Model Code
E2271 Inlet ring	E2271Z

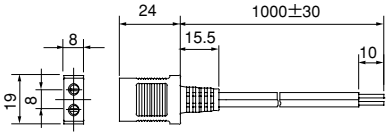
Plug Cords (Options)

Plug cords for AC fans

(Common specification: Rated 3 A, voltage 250 V, dielectric strength 1 minute at 1500 V 50 Hz)

D2P1 cord (Mass 35 g)

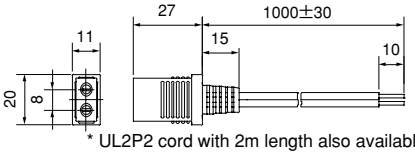
Certified under the Electrical Appliance and
Material Safety Law (Japan) (<PS>E mark approved)
Cord 0.18 dia. 30 conductors Black, heat resistant vinyl



* D2P2 cord with 2m length also available.

UL2P1 cord (Mass 41 g)

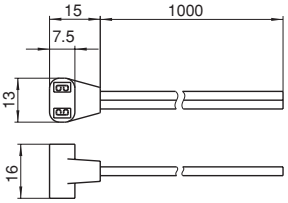
UL standard product (UL file No. E78112)
Cord 0.16 dia. 41 conductors
Black, heat resistant vinyl



* UL2P2 cord with 2m length also available.

T2P1 cord

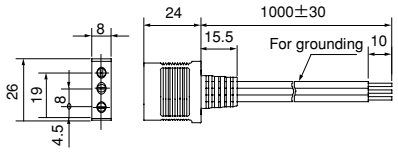
For wiring inside equipment
Cord 0.18 dia. 30 conductors
Black, heat resistant vinyl



* T2P2 cord with 2m length also available.

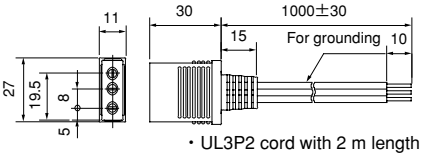
D3P1 cord (Mass 59 g)

Certified under the Electrical Appliance and
Material Safety Law (Japan) (<PS>E mark approved)
Cord:
For power feeding 0.18 dia. 30 conductors Black, heat resistant vinyl
For grounding 0.18 dia. 50 conductors Black, heat resistant vinyl



UL3P1 cord (Mass 60 g)

UL standard product
(UL file No. E78112)
Cord:
For power feeding 0.16 dia. 41 conductors Black, heat resistant vinyl
For grounding AWG18 green/yellow spiral, heat resistant vinyl



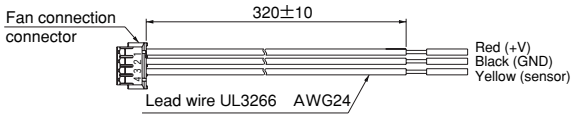
・UL3P2 cord with 2 m length also available.

List of mating fan series

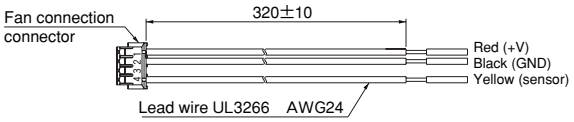
Cord		T2P1	T2P2	D2P1	D2P2	D3P1	UL2P1	UL2P2	UL3P1	PL3P2
AC Axial Fans	WE	○	○	○	○		○	○		
	KA	○	○	○	○		○	○		
	CU	○	○	○	○		○	○		
	CN (2 terminals)	○	○	○	○		○	○		
	CN (3 terminals)					○			○	○
	MA	○	○	○	○		○	○		
	PA	○	○	○	○		○	○		

Plug cords for DC fans

DCLD030ST-ZZ01 (S sensor output cord)



~~DCLD030PT-ZZ01~~ (P sensor output cord)



・Lead wire ends are sheathed to protect conductors. (Sheath peeling dimension10±5)

Component (Model Code)	Mating Model Code
DCLD030ST-ZZ01	E1033H□□B□AM-04
~~DCLD030PT-ZZ01~~	

For red-lines product, please contact us from website.