

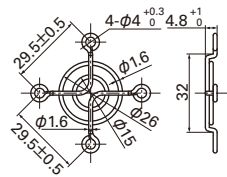
Finger guards

Dimensions(Unit : mm)

36mm sq. type

Color
Model : 109-1050 Surface treatment:Nickel-chrome plating (silver)

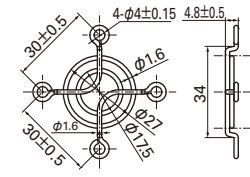
Inlet side, Outlet side



38mm sq. type

Color
Model : 109-1065 Surface treatment:Nickel-chrome plating (silver)

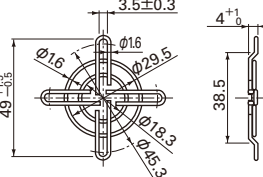
Inlet side, Outlet side



40mm sq. type

Color
Model : 109-059 Surface treatment:Nickel-chrome plating (silver)

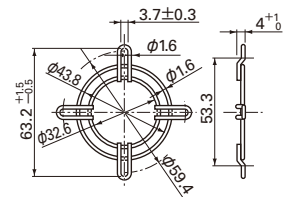
Inlet side, Outlet side



52mm sq. type

Color
Model : 109-149 Surface treatment:Nickel-chrome plating (silver)

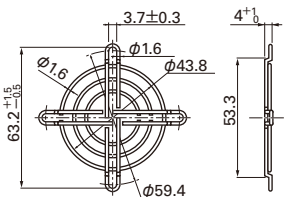
Outlet side



52mm sq. type

Color
Model : 109-149E Surface treatment:Nickel-chrome plating (silver)

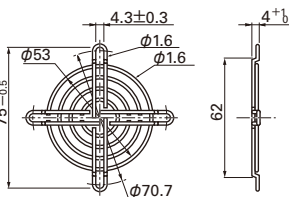
Inlet side, Outlet side



60mm sq. type

Color
Model : 109-139E Surface treatment:Nickel-chrome plating (silver)
: 109-139H : Cation electropainting (black)

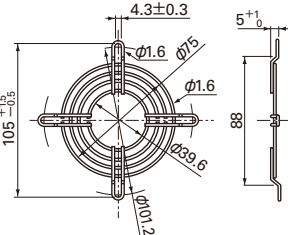
Inlet side, Outlet side



80mm sq. type

Color
Model : 109-049C Surface treatment:Nickel-chrome plating (silver)

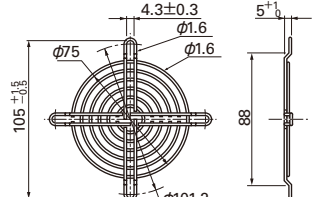
Outlet side



80mm sq. type

Color
Model : 109-049E Surface treatment:Nickel-chrome plating (silver)
: 109-049H : Cation electropainting (black)

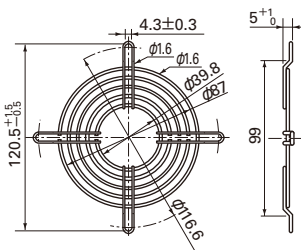
Inlet side, Outlet side



92mm sq. type

Color
Model : 109-099C Surface treatment:Nickel-chrome plating (silver)

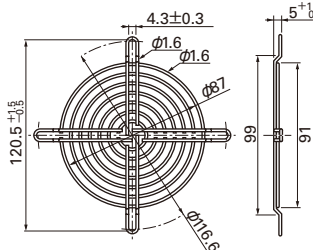
Outlet side



92mm sq. type

Color
Model : 109-099E Surface treatment:Nickel-chrome plating (silver)
: 109-099H : Cation electropainting (black)

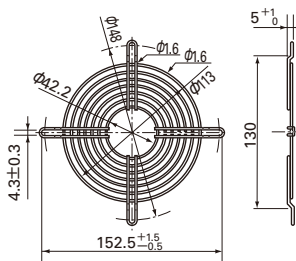
Inlet side, Outlet side



120mm sq. type

Color
Model : 109-019C Surface treatment:Nickel-chrome plating (silver)
: 109-019H : Cation electropainting (black)

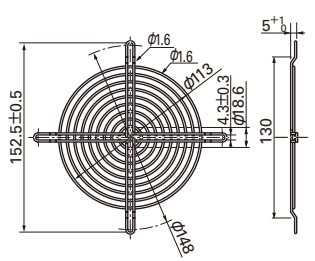
Outlet side



120mm sq. type

Color
Model : 109-019E Surface treatment:Nickel-chrome plating (silver)
: 109-019K : Cation electropainting (black)

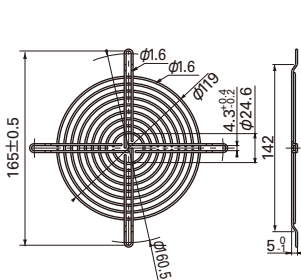
Inlet side, Outlet side



127mm sq. type

Color
Model : 109-722 Surface treatment:Nickel-chrome plating (silver)

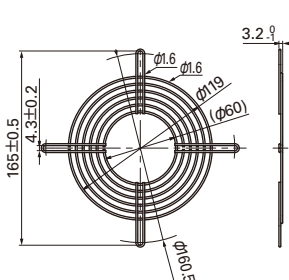
Inlet side, Outlet side



127mm sq. type

Color
Model : 109-723 Surface treatment:Nickel-chrome plating (silver)

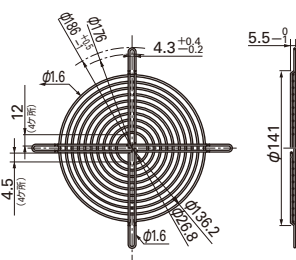
Outlet side



140mm sq. type

Color
Model : 109-719 Surface treatment:Nickel-chrome plating (silver)
: 109-719H : Cation electropainting (black)

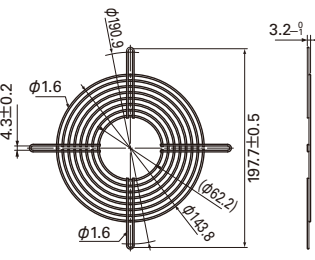
Inlet side, Outlet side



150mm sq. type

Color
Model : 109-1052 Surface treatment:Nickel-chrome plating (silver)

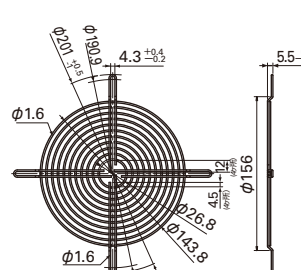
Outlet side



150mm sq. type

Color
Model : 109-1051 Surface treatment:Nickel-chrome plating (silver)

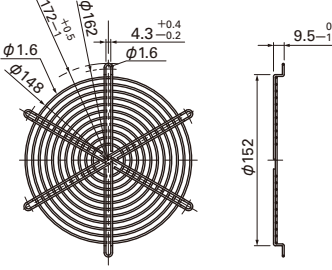
Inlet side, Outlet side



φ172mm type

Color
Model : 109-319E Surface treatment:Nickel-chrome plating (silver)
: 109-319H : Cation electropainting (black)

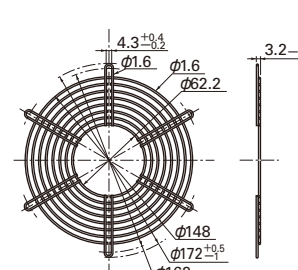
Inlet side, Outlet side



φ172mm type

Color
Model : 109-320 Surface treatment:Nickel-chrome plating (silver)

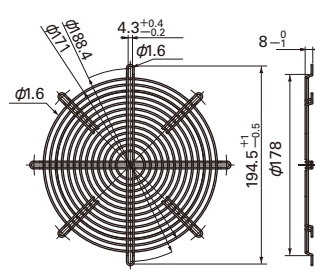
Outlet side



φ200mm type

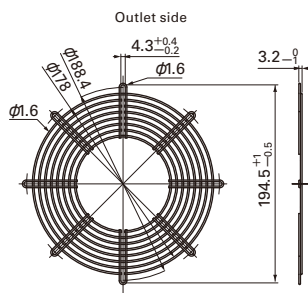
Color
Model : 109-720 Surface treatment:Nickel-chrome plating (silver)
: 109-720H : Cation electropainting (black)

Inlet side, Outlet side



Φ200mm type

Model : 109-721 Surface treatment : Nickel-chrome plating (silver)
: 109-721H : Cation electropainting (black)



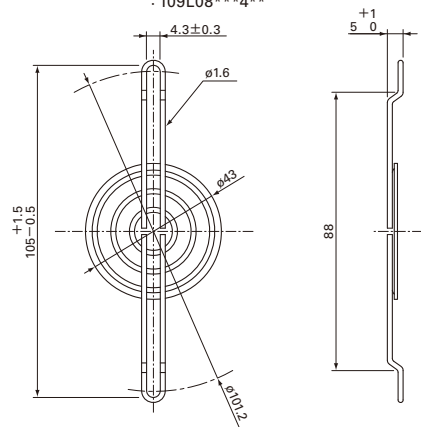
EMC guards

Dimensions (Unit : mm)

80mm sq. type

Model : 109-1038 Surface treatment : Nickel-chrome plating (silver)
Color (silver)

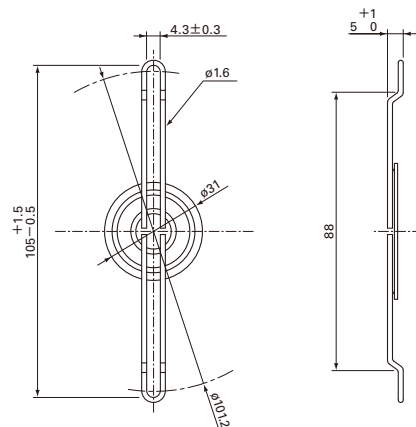
Applicable Model : 109P08***6**/109P08***2**
: 109L08***4**



80mm sq. type

Model : 109-1039 Surface treatment : Nickel-chrome plating (silver)
Color (silver)

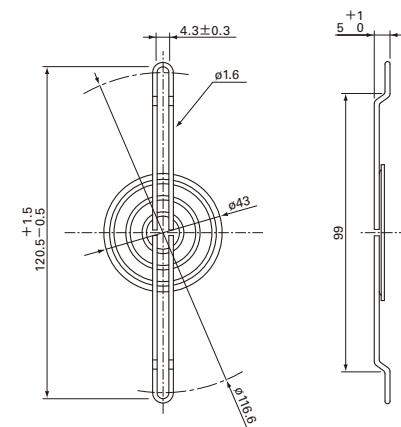
Applicable Model : 109P08***7**/109R08***4**/9A08***4**



92mm sq. type

Model : 109-1040 Surface treatment : Nickel-chrome plating (silver)
Color (silver)

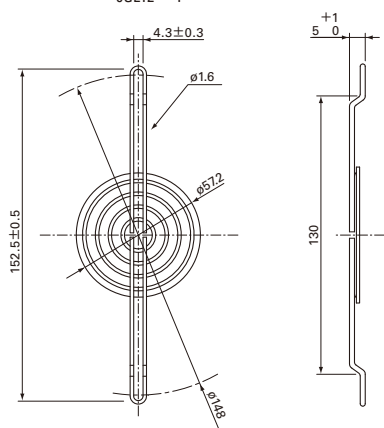
Applicable Model : 109P09***4**/109L09***4**



120mm sq. type

Model : 109-1037 Surface treatment : Nickel-chrome plating (silver)
Color (silver)

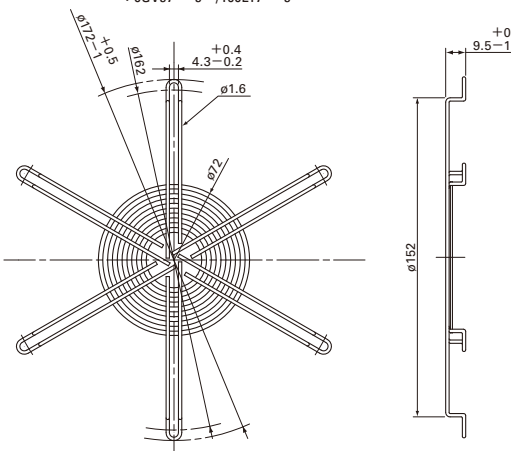
Applicable Model : 109P12***4**/9G12***4**/109R12***1**
: 9G12***1**/109L12***1**/9LB12***1**
: 9GL12***1**



Φ172mm type

Model : 109-1036 Surface treatment : Nickel-chrome plating (silver)
Color (silver)

Applicable Model : 109E47***4**/109E17***5**/109E57***5**
: 9GV57***5**/109L17***5**



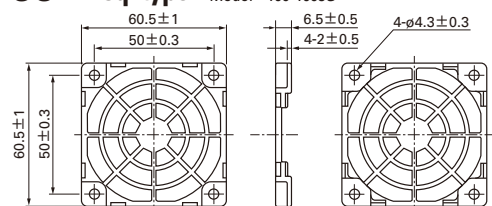
Resin finger guards

Material Frame : (SPS+PS alloy) Resin UL File No.E48268 94V-0

Dimensions(Unit : mm)

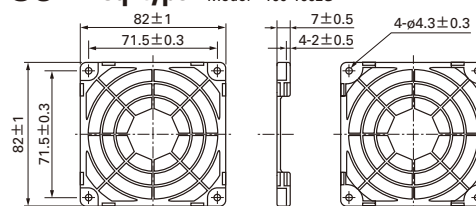
60mm sq. type

Model : 109-1003G



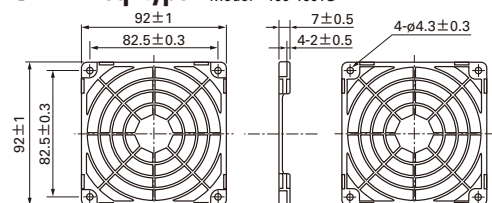
80mm sq. type

Model : 109-1002G



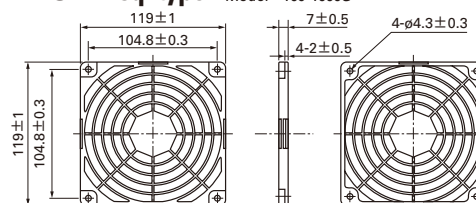
92mm sq. type

Model : 109-1001G

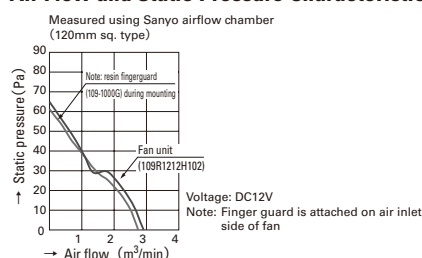


120mm sq. type

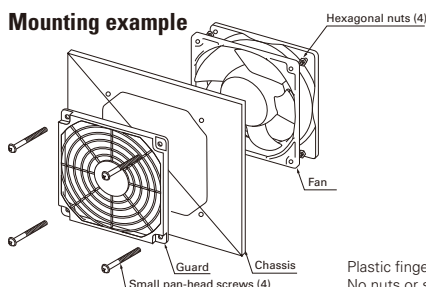
Model : 109-1000G



Air Flow and Static Pressure Characteristics



Mounting example



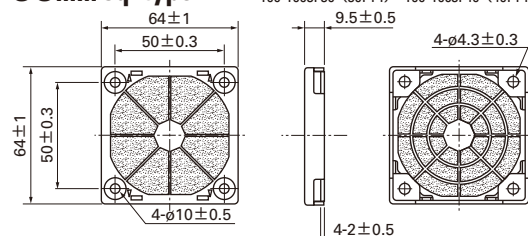
Plastic finger guards are placed on both the intake and exhaust sides of the fan. No nuts or screws for use in attachment included.

Resin filter kits

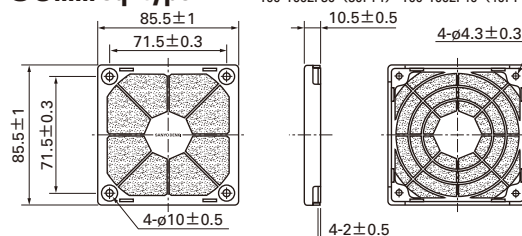
Material Guard, cover : (SPS+PS alloy) Resin UL File No.E48268 94V-0
Filter : Polyurethane foam UL File No.E74916(S) 94HF-1

Dimensions(Unit : mm)

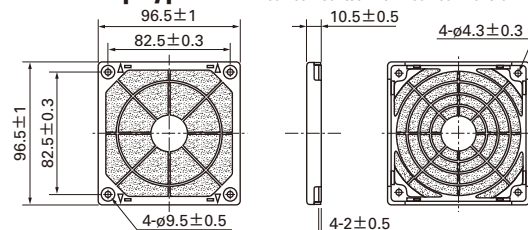
60mm sq. type

Model : 109-1003F13 (13PPI) 109-1003F20 (20PPI)
: 109-1003F30 (30PPI) : 109-1003F40 (40PPI)

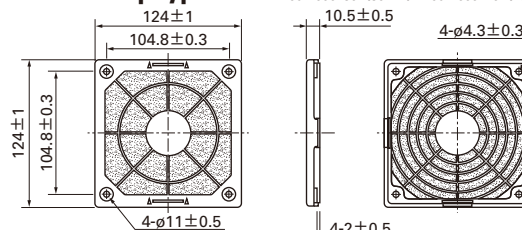
80mm sq. type

Model : 109-1002F13 (13PPI) 109-1002F20 (20PPI)
: 109-1002F30 (30PPI) 109-1002F40 (40PPI)

92mm sq. type

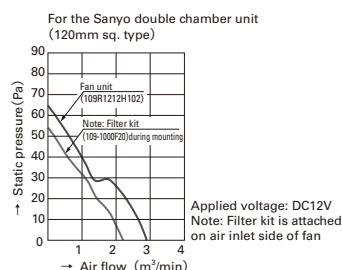
Model : 109-1001F13 (13PPI) 109-1001F20 (20PPI)
: 109-1001F30 (30PPI) : 109-1001F40 (40PPI)

120mm sq. type

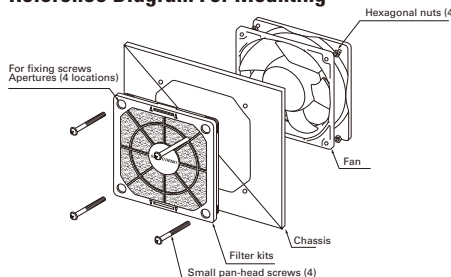
Model : 109-1000F13 (13PPI) 109-1000F20 (20PPI)
: 109-1000F30 (30PPI) 109-1000F40 (40PPI)

PPI Particles Per Inch : Indicates the number of holes per inch. Note that the higher the number, the finer the grain of the sponge.

Air Flow and Static Pressure Characteristics



Reference Diagram For Mounting



Replacement filter (5 sheets each)

60mm sq. type	80mm sq. type
109-1003M13 (13PPI)	109-1002M13 (13PPI)
109-1003M20 (20PPI)	109-1002M20 (20PPI)
109-1003M30 (30PPI)	109-1002M30 (30PPI)
109-1003M40 (40PPI)	109-1002M40 (40PPI)

92mm sq. type	120mm sq. type
109-1001M13 (13PPI)	109-1000M13 (13PPI)
109-1001M20 (20PPI)	109-1000M20 (20PPI)
109-1001M30 (30PPI)	109-1000M30 (30PPI)
109-1001M40 (40PPI)	109-1000M40 (40PPI)

●This Filter Kit is composed of 3 components, including a guard, a filter and a cover. It is delivered as a finished product at delivery. It can be mounted at once. It is mounted by inserting a screw in the apertures of the cover. ●The filter and cover can be easily removed from the guard with one touch. There is no need for fan removal when undertaking maintenance. ●Operating temperature limit is between -10°C to +60°C (non condensing). ●The filter will deteriorate with age, and the level of deterioration will vary upon usage conditions. Please be aware that the filter has a greater tendency to deteriorate under high temperature and humidity. For long-term storage, please store under the temperature range of 10°C to 30°C, humidity range of 20% to 65%. Usage and storage period is approximately 2 years. ●Cooling ability decreases with filter contamination due to clogging. Filter replacement is recommended approximately every six months of usage, but please replace the filter if deterioration or clogging is seen at inspection. ●When replacing the filter, please use genuine Sanyo Denki filters. ●Do not water-wash the filter. ●Avoid use and storage under high temperature or humidity, direct sunlight or exposure to ultraviolet light, or in corrosive gas. ●No nuts or screws for use in attachment included.