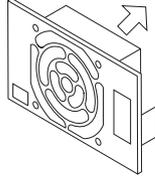
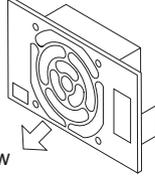
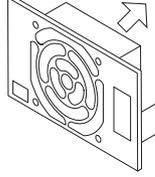
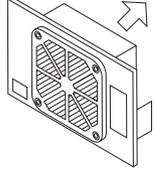
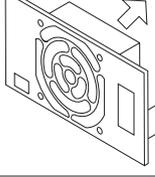
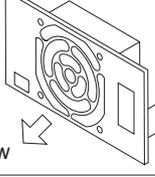
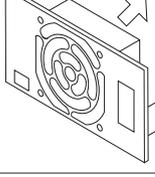
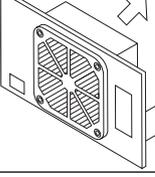


## Fan unit

★Fan unit is prepared by the option.

## ACE Series MAX Series

Fan unit type	Matching model	External	Pin connection								
<b>FAN-AC3</b> (Standard)	<b>ACE300F</b> <Standard>	 <p>Air flow</p> <p>★ Weight : 75g max</p>	<p>CONNECTOR = XAP-03V-1 (Mfr : J. S. T) TERMINAL = SXA-001T-P0.6 (Mfr : J. S. T)</p> <table border="1"> <thead> <tr> <th>Pin No.</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>GND</td> </tr> <tr> <td>2</td> <td>FAN ALARM</td> </tr> <tr> <td>3</td> <td>POWER</td> </tr> </tbody> </table> <p>LENGTH OF HARNESS = 60 ± 10mm</p>	Pin No.	Content	1	GND	2	FAN ALARM	3	POWER
Pin No.	Content										
1	GND										
2	FAN ALARM										
3	POWER										
<b>FAN-AC3-F</b> (Air flow reverse : -F)	<b>ACE300F</b> <Modification : F>	 <p>Air flow</p> <p>★ Weight : 75g max</p>									
<b>FAN-AC3-K</b> (Low speed : -K)	<b>ACE300F</b> <Modification : K>	 <p>Air flow</p> <p>★ Weight : 85g max</p>									
<b>FAN-AC3-T</b> (With filter : -T)	<b>ACE300F</b> <Modification : T>	 <p>Air flow</p> <p>★ Weight : 130g max</p>									
<b>FAN-AC4</b> (Standard)	<b>ACE450F</b> <b>ACE650F</b> <Standard>	 <p>Air flow</p> <p>★ Weight : 130g max</p>	<p>CONNECTOR = XAP-03V-1 (Mfr : J. S. T) TERMINAL = SXA-001T-P0.6 (Mfr : J. S. T)</p> <table border="1"> <thead> <tr> <th>Pin No.</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>GND</td> </tr> <tr> <td>2</td> <td>FAN ALARM</td> </tr> <tr> <td>3</td> <td>POWER</td> </tr> </tbody> </table> <p>LENGTH OF HARNESS = 55 ± 10mm</p>	Pin No.	Content	1	GND	2	FAN ALARM	3	POWER
Pin No.	Content										
1	GND										
2	FAN ALARM										
3	POWER										
<b>FAN-AC4-F</b> (Air flow reverse : -F)	<b>ACE450F</b> <b>ACE650F</b> <Modification : F>	 <p>Air flow</p> <p>★ Weight : 130g max</p>									
<b>FAN-AC4-K</b> (Low speed : -K)	<b>ACE450F</b> <b>ACE650F</b> <Modification : K>	 <p>Air flow</p> <p>★ Weight : 130g max</p>									
<b>FAN-AC4-T</b> (With filter : -T)	<b>ACE450F</b> <b>ACE650F</b> <Modification : T>	 <p>Air flow</p> <p>★ Weight : 180g max</p>									

★ 1 Handle with care and don't add the impact such as falls or throwing to the unit.

★ 2 Exchange the unit after intercepting the input power.

★ 3 When the unit is exchanged, make sure there are not loosening of the connector and shutting the harness.

## Fan unit

★ Fan unit is prepared by the option.

## ACE Series MAX Series

Fan unit type	Matching model	External	Pin connection								
<b>FAN-AC9</b> (Standard)	<b>ACE900F</b> <Standard>	 ★Weight : 220g max	CONNECTOR = XAP-03V-1 (Mfr : J. S. T) TERMINAL = SXA-001T-P0.6 (Mfr : J. S. T) <table border="1"> <thead> <tr> <th>Pin No.</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>GND</td> </tr> <tr> <td>2</td> <td>FAN ALARM</td> </tr> <tr> <td>3</td> <td>POWER</td> </tr> </tbody> </table> LENGTH OF HARNESS = 55 ± 10mm	Pin No.	Content	1	GND	2	FAN ALARM	3	POWER
Pin No.	Content										
1	GND										
2	FAN ALARM										
3	POWER										
<b>FAN-AC9-F</b> (Air flow reverse : -F)	<b>ACE900F</b> <Modification : F>	 ★Weight : 220g max									
<b>FAN-AC9-K</b> (Low speed : -K)	<b>ACE900F</b> <Modification : K>	 ★Weight : 220g max									
<b>FAN-AC9-T</b> (With filter : -T)	<b>ACE900F</b> <Modification : T>	 ★Weight : 320g max									
<b>FAN-MA1</b> (Standard)	<b>MAX1600F</b> <b>MAX1600T</b> <Standard>	 ★Weight : 400g max	CONNECTOR = XHP-3 (Mfr : J. S. T) TERMINAL = SXH-001T-P0.6 (Mfr : J. S. T) <table border="1"> <thead> <tr> <th>Pin No.</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>POWER</td> </tr> <tr> <td>2</td> <td>FAN ALARM</td> </tr> <tr> <td>3</td> <td>GND</td> </tr> </tbody> </table> LENGTH OF HARNESS = 210 ± 15mm	Pin No.	Content	1	POWER	2	FAN ALARM	3	GND
Pin No.	Content										
1	POWER										
2	FAN ALARM										
3	GND										
<b>FAN-MA1-B</b> (Long life : -B)	<b>MAX1600F</b> <b>MAX1600T</b> <Modification : B>	 ★Weight : 550g max									
<b>FAN-MA3</b> (Standard)	<b>MAX3200T</b> <Standard>	 ★Weight : 610g max									
<b>FAN-MA3-B</b> (Long life : -B)	<b>MAX3200T</b> <Modification : B>	 ★Weight : 830g max									

★ 1 Handle with care and don't add the impact such as falls or throwing to the unit.

★ 2 Exchange the unit after intercepting the input power.

★ 3 When the unit is exchanged, make sure there are not loosening of the connector and shutting the harness.

■ Fan unit

ADA Series

Fan unit type	Matching model	External	Harness								
FAN-AD6-24	ADA600F-24	<p>Air flow</p> <p>★Weight : 230g max</p>	<table border="1"> <tr><td colspan="2">Wire</td></tr> <tr><td>Color</td><td>Content</td></tr> <tr><td>red</td><td>POWER</td></tr> <tr><td>black</td><td>GND</td></tr> </table>	Wire		Color	Content	red	POWER	black	GND
Wire											
Color	Content										
red	POWER										
black	GND										
FAN-AD6-48	ADA600F-30 ADA600F-36 ADA600F-48	<p>Air flow</p> <p>★Weight : 220g max</p>	<table border="1"> <tr><td colspan="2">Wire</td></tr> <tr><td>Color</td><td>Content</td></tr> <tr><td>red</td><td>POWER</td></tr> <tr><td>black</td><td>GND</td></tr> </table>	Wire		Color	Content	red	POWER	black	GND
Wire											
Color	Content										
red	POWER										
black	GND										
FAN-AD7-24	ADA750F-24	<p>Air flow</p> <p>★Weight : 230g max</p>	<table border="1"> <tr><td colspan="2">Wire</td></tr> <tr><td>Color</td><td>Content</td></tr> <tr><td>red</td><td>POWER</td></tr> <tr><td>black</td><td>GND</td></tr> </table>	Wire		Color	Content	red	POWER	black	GND
Wire											
Color	Content										
red	POWER										
black	GND										
FAN-AD7-48	ADA750F-30 ADA750F-36 ADA750F-48	<p>Air flow</p> <p>★Weight : 220g max</p>	<table border="1"> <tr><td colspan="2">Wire</td></tr> <tr><td>Color</td><td>Content</td></tr> <tr><td>red</td><td>POWER</td></tr> <tr><td>black</td><td>GND</td></tr> </table>	Wire		Color	Content	red	POWER	black	GND
Wire											
Color	Content										
red	POWER										
black	GND										
FAN-AD1-24	ADA1000F-24	<p>Air flow</p> <p>★Weight : 450g max</p>	<table border="1"> <tr><td colspan="2">Wire</td></tr> <tr><td>Color</td><td>Content</td></tr> <tr><td>red</td><td>POWER</td></tr> <tr><td>black</td><td>GND</td></tr> </table>	Wire		Color	Content	red	POWER	black	GND
Wire											
Color	Content										
red	POWER										
black	GND										
FAN-AD1-48	ADA1000F-30 ADA1000F-36 ADA1000F-48	<p>Air flow</p> <p>★Weight : 420g max</p>	<table border="1"> <tr><td colspan="2">Wire</td></tr> <tr><td>Color</td><td>Content</td></tr> <tr><td>red</td><td>POWER</td></tr> <tr><td>black</td><td>GND</td></tr> </table>	Wire		Color	Content	red	POWER	black	GND
Wire											
Color	Content										
red	POWER										
black	GND										

- ★ 1 Handle with care and don't add the impact such as falls or throwing to the unit.
- ★ 2 Exchange the unit after intercepting the input power.
- ★ 3 When the unit is exchanged, make sure there are not loosening of terminal screw and shutting the harness.

## Fan unit

★ Fan unit is prepared by the option.

## PB Series

Fan unit type	Matching model	External	Pin connection								
<b>FAN-PB3</b> (Standard)	<b>PBA300F</b> <Standard>	 ★ Weight : 90g max	CONNECTOR = PHR-3 (Mfr : J. S. T) TERMINAL = SPH-002T-P0.5S (Mfr : J. S. T) <table border="1"> <thead> <tr> <th>Pin No.</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>GND</td> </tr> <tr> <td>2</td> <td>FAN ALARM</td> </tr> <tr> <td>3</td> <td>POWER</td> </tr> </tbody> </table> LENGTH OF HARNESS = 40 ± 5mm	Pin No.	Content	1	GND	2	FAN ALARM	3	POWER
Pin No.	Content										
1	GND										
2	FAN ALARM										
3	POWER										
<b>FAN-PB3-F3</b> (Air flow reverse : -F3)	<b>PBA300F</b> <Modification : F3>	 ★ Weight : 90g max									
<b>FAN-PB3-F4</b> (Low speed : -F4)	<b>PBA300F</b> <Modification : F4>	 ★ Weight : 90g max									
<b>FAN-PB6</b> (Standard)	<b>PBA600F</b> <Standard>	 ★ Weight : 120g max	CONNECTOR = XAP-03V-1 (Mfr : J. S. T) TERMINAL = SXA-001T-P0.6 (Mfr : J. S. T) <table border="1"> <thead> <tr> <th>Pin No.</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>GND</td> </tr> <tr> <td>2</td> <td>FAN ALARM</td> </tr> <tr> <td>3</td> <td>POWER</td> </tr> </tbody> </table> LENGTH OF HARNESS = 55 ± 7mm	Pin No.	Content	1	GND	2	FAN ALARM	3	POWER
Pin No.	Content										
1	GND										
2	FAN ALARM										
3	POWER										
<b>FAN-PB6-F1</b> (Long life : -F1)	<b>PBA600F</b> <Modification : F1>	 ★ Weight : 150g max									
<b>FAN-PB6-F3</b> (Air flow reverse : -F3)	<b>PBA600F</b> <Modification : F3>	 ★ Weight : 120g max									
<b>FAN-PB6-F4</b> (Low speed : -F4)	<b>PBA600F</b> <Modification : F4>	 ★ Weight : 120g max									

★ 1 Handle with care and don't add the impact such as falls or throwing to the unit.

★ 2 Exchange the unit after intercepting the input power.

★ 3 When the unit is exchanged, make sure there are not loosening of the connector and shutting the harness.

## Fan unit

## PB Series

★Fan unit is prepared by the option.

Fan unit type	Matching model	External	Pin connection								
<b>FAN-PB10</b> (Standard)	<b>PBA1000F</b> <Standard>	 ★Weight : 210g max	<p>CONNECTOR = XAP-03V-1 (Mfr : J. S. T) TERMINAL = SXA-001T-P0.6 (Mfr : J. S. T)</p> <table border="1"> <thead> <tr> <th>Pin No.</th> <th>Content</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>GND</td> </tr> <tr> <td>2</td> <td>FAN ALARM</td> </tr> <tr> <td>3</td> <td>POWER</td> </tr> </tbody> </table> <p>LENGTH OF HARNESS = 55 ± 7mm</p>	Pin No.	Content	1	GND	2	FAN ALARM	3	POWER
Pin No.	Content										
1	GND										
2	FAN ALARM										
3	POWER										
<b>FAN-PB10-F1</b> (Long life : -F1)	<b>PBA1000F</b> <Modification : F1>	 ★Weight : 260g max									
<b>FAN-PB10-F3</b> (Air flow reverse : -F3)	<b>PBA1000F</b> <Modification : F3>	 ★Weight : 210g max									
<b>FAN-PB10-F4</b> (Low speed : -F4)	<b>PBA1000F</b> <Modification : F4>	 ★Weight : 200g max									
<b>FAN-PB15</b> (Standard)	<b>PBA1500F</b> <b>PBA1500T</b> <Standard>	 ★Weight : 210g max									
<b>FAN-PB15-F1</b> (Long life : -F1)	<b>PBA1500F</b> <b>PBA1500T</b> <Modification : F1>	 ★Weight : 260g max									
<b>FAN-PB15-F3</b> (Air flow reverse : -F3)	<b>PBA1500F</b> <b>PBA1500T</b> <Modification : F3>	 ★Weight : 210g max									
<b>FAN-PB15-F4</b> (Low speed : -F4)	<b>PBA1500F</b> <b>PBA1500T</b> <Modification : F4>	 ★Weight : 200g max									

- ★ 1 Handle with care and don't add the impact such as falls or throwing to the unit.
- ★ 2 Exchange the unit after intercepting the input power.
- ★ 3 When the unit is exchanged, make sure there are not loosening of the connector and shutting the harness.

## Fan unit

## SC Series

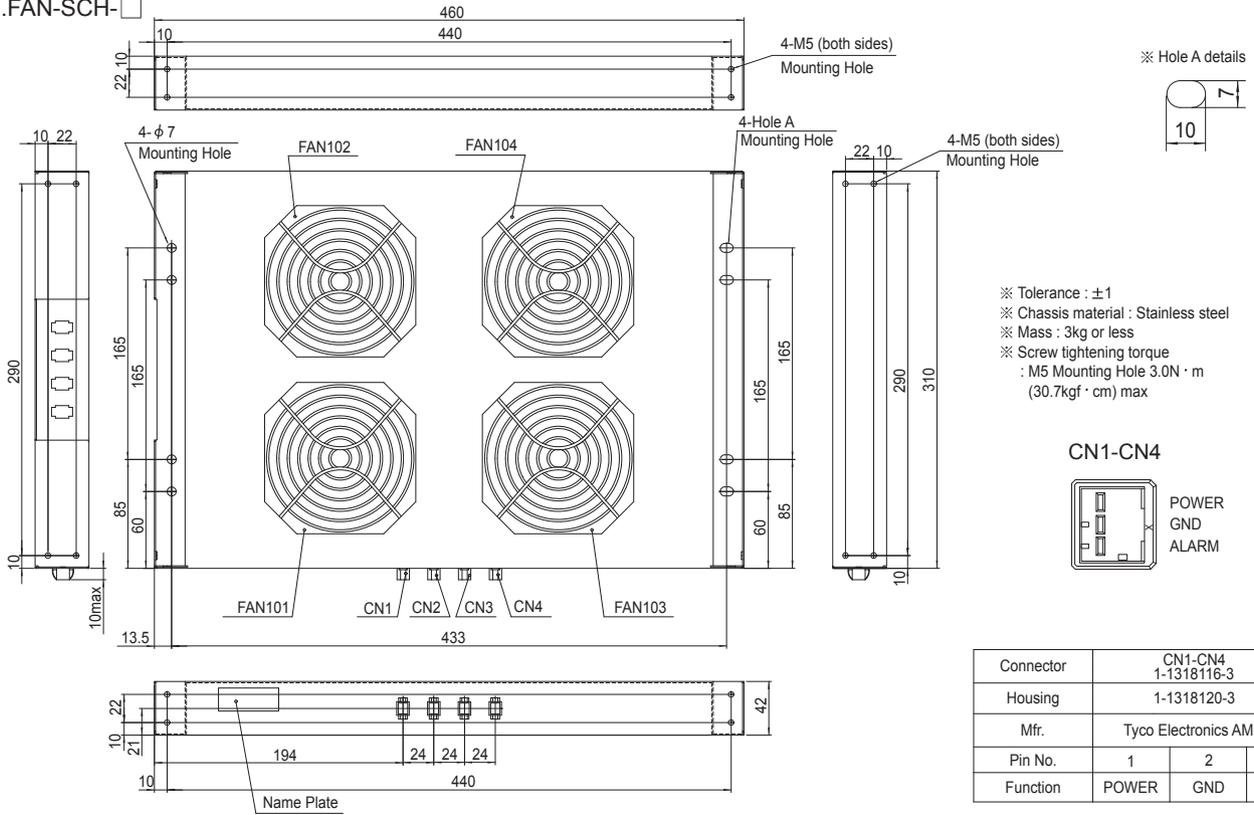
★Several kind optional fan unit are prepared for SC series.  
 This fan unit is used to distribute sufficient air for cooling single SC unit.

Fan unit type	Matching model	External
FAN-SCH-1	SCHA10000T-48	
FAN-SCH-2	SCHA10000T-48	
FAN-SCD-1	SCDA10000T-48	
FAN-SCD-2	SCDA10000T-48	

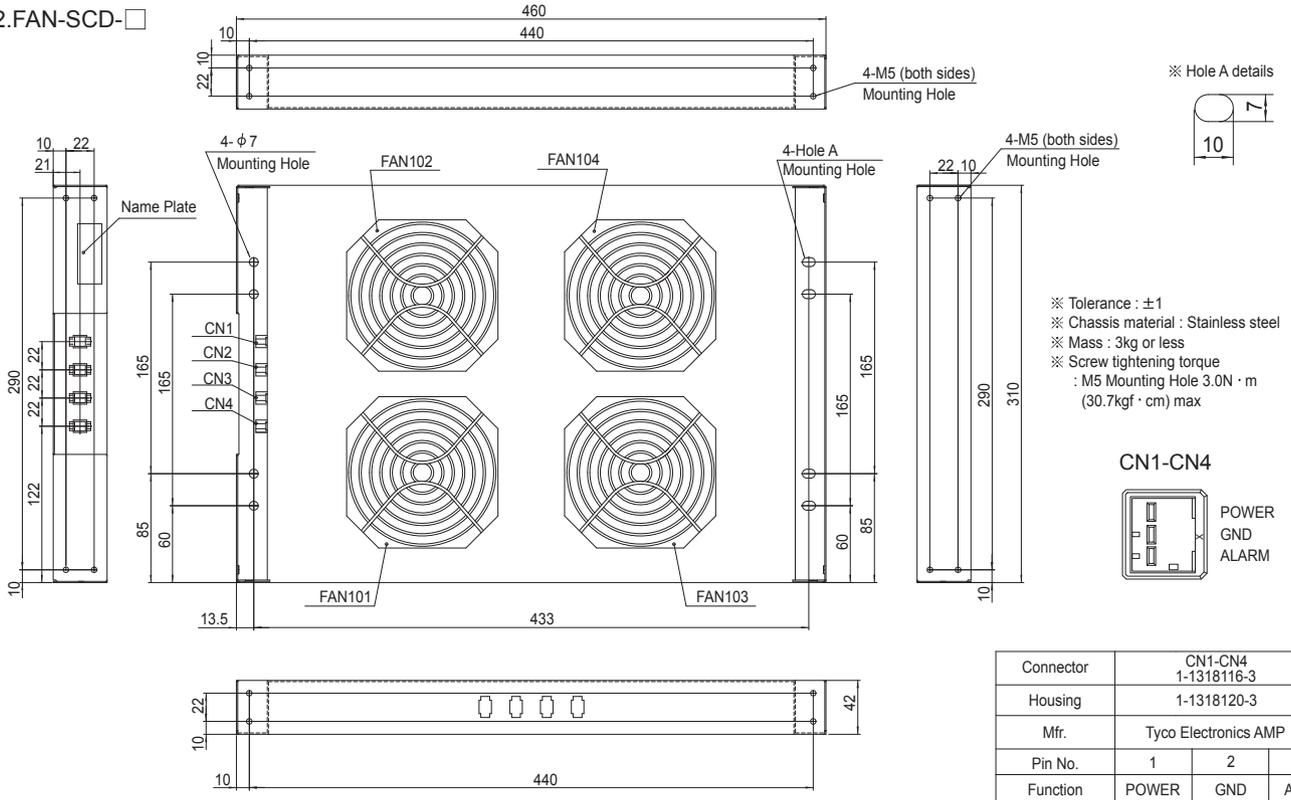
- ★ 1 Fan is delicate component, ageist impact stress such as throwing the unit, or drop the unit, careful handling is required to avoid failure.
- ★ 2 Please make sure there is not loose connection and cramping the harness wire between chassis.

# 1 External view

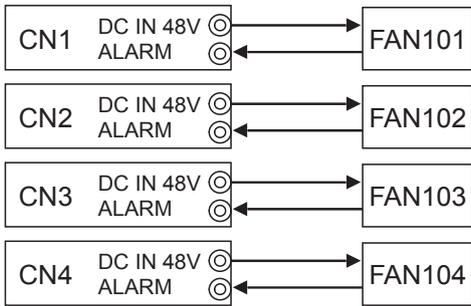
1.FAN-SCH-□



2.FAN-SCD-□



## 2 Block diagram



## 3 Specifications

■ Specifications is on Table 3.1.

Table 3.1 Specifications

ITEM	SPECIFICATIONS
INPUT VOLTAGE[V]	DC46.0-50.0 ※
INPUT CURRENT[A]	0.23/Connector (Total 0.92)
OPERATING TENP	0 to +70 °C

※ You may use the output voltage of SC series

## 4 Fan alarm

■ Individual fan has built-in alarm function detecting the operation. Fan alarm specifications are shown in Table4.1. A connection for example is shown in Fig.4.1.

Table 4.1 Fan sensor specifications

ITEM	SPECIFICATIONS
OTPUT	open collector output
PULL UP VOLTAGE[V]	60max ※
SINK CURRENT[mA]	5max

※ You can use output voltage of the SC series

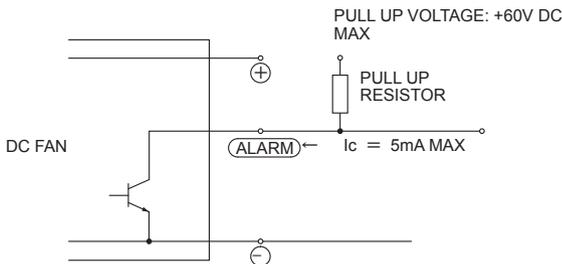


Fig.4.1 Fan alarm connection example

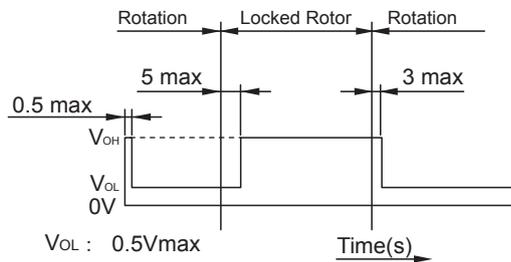


Fig.4.2 Fan alarm output wave form

## 5 Life time expectancy of the fan unit

■ Life time expectancy of the fan unit (R(t)90%) is shown in Fig.5.1.

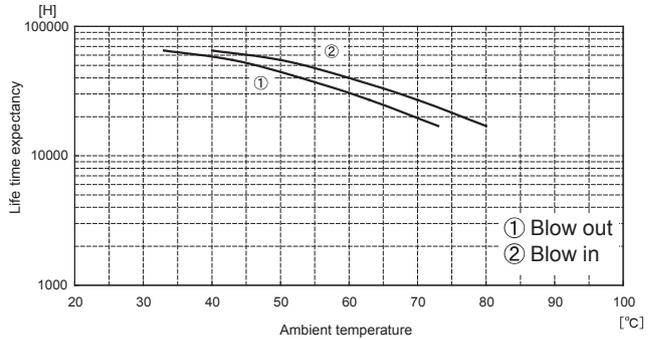
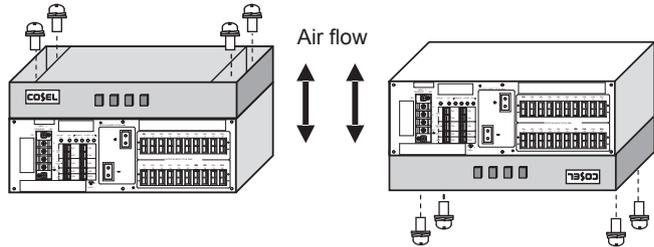


Fig.5.1 Life expectancy of fan unit

## 6 Installation method

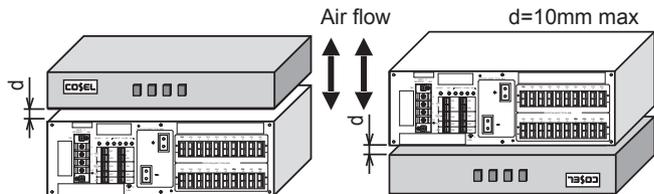
■ The fan unit is screw-mountable either upside or downside of SC unit.

(1) Mounting instruction by using screws to SC series.



(2) Rack-mounting

The fan unit is needed 10mm or less clearance against SC unit chassis.



## 7 Life time expectancy of SC series

■ Life time expectancy with optional fan unit : 10 years

## 8 Operating Environment

■ Oil and other chemical liquid splashing environment may cause the performance degradation and failure.