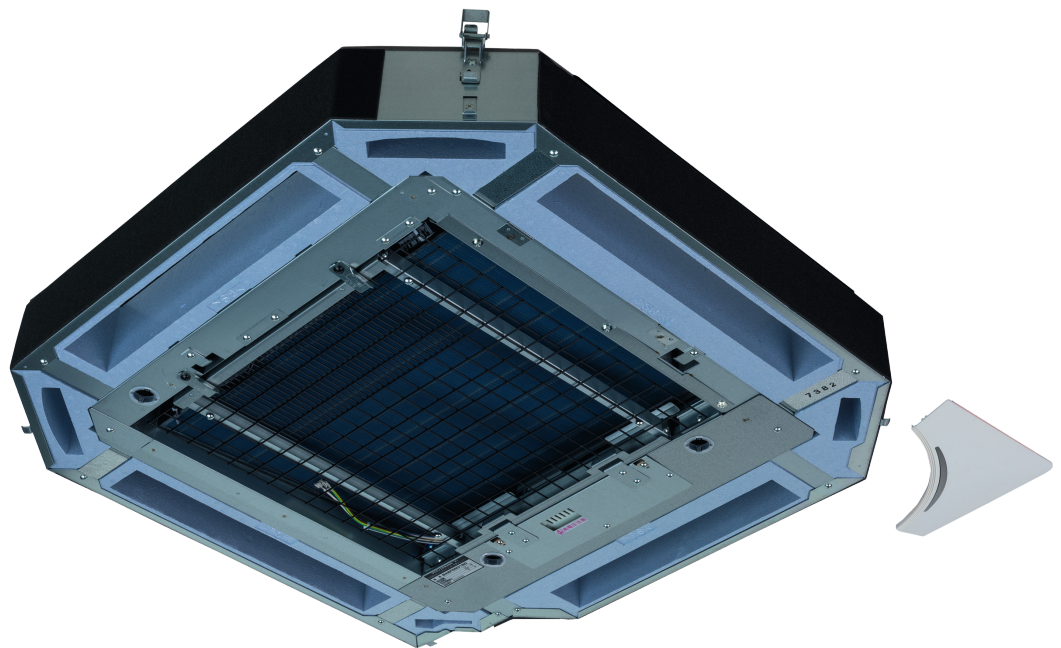


UV Streamer kit  
Air Conditioning  
Technical Data  
BAEF125AWB





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# TABLE OF CONTENTS

# BAEF125AWB

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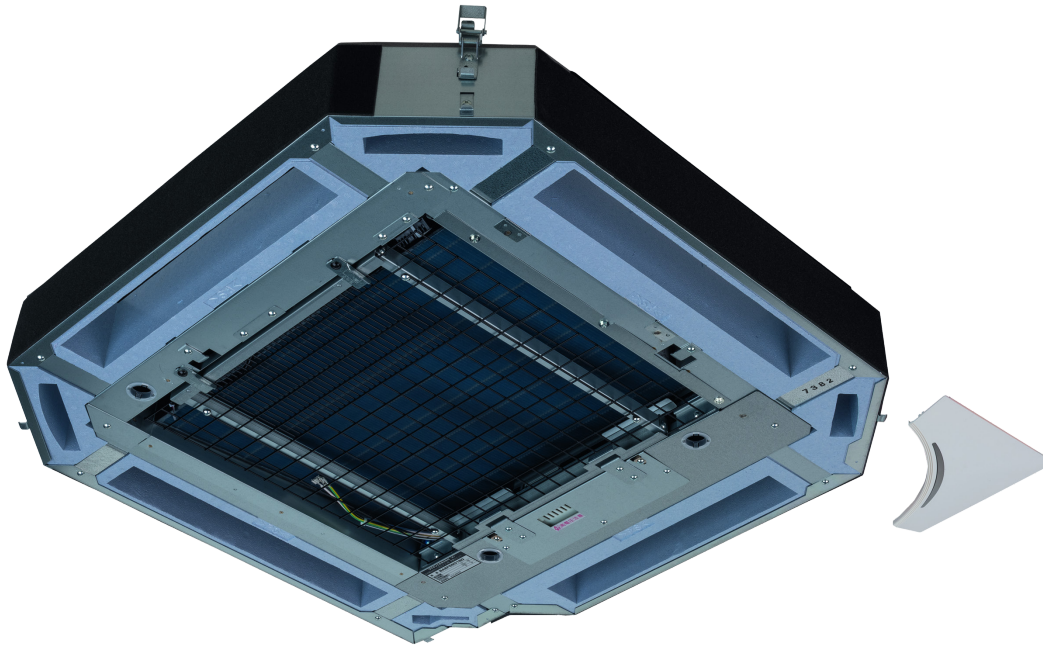
# 1 Features

1 - 1 BAEF125AWB

Purifies the air of pollutants, ensuring a healthy and hygienic indoor environment

**1**

- › Purifies the air of viruses, bacteria, fine dust, odours, allergens, etc
- › 99.90% of viruses removed in 30 minutes, thanks to Daikin's unique Catch & Clean approach
- › UVC LED light with high output wavelength of 265 nm for effective surface cleaning and inactivation of bacteria and viruses
- › Streamer technology for deep sanitising of the filter and powerful decomposition of viruses and bacteria trapped inside the filter
- › Thanks to large air flow rate of the Round flow cassette, clean air can be quickly delivered to every corner of your space
- › Can be retrofitted into existing installations
- › In combination with BYCQ140E and BYCQ140EW decoration panels



UV Streamer  
kit

## 2 Specifications

### 2 - 1 Specifications

Technical specifications			BAEF125AWB	
Power input		kW	0.006	
Casing	Colour		Gray	
	Operation LED	Colour	Blue/red	
Dimensions	Unit	Height	mm	100
		Width	mm	840
		Depth	mm	840
	Packed unit	Height	mm	168
		Width	mm	910
		Depth	mm	910
Weight	Unit	kg	12.0	
	Packed unit	kg	15.5	
Packing	Material		Cardboard	
	Weight	kg	4	
Filter	Compatible decoration panel		BYCQ140E / BYCQ140EW	
	Filtration class EN779:2012		F7	
	Filtration class ISO 16890		ISO ePM1, 60% (0.7m/s)	
	Initial pressure drop	Pa	4.98	
	Lifetime		Pleated filter (BAF55A125): every year / Flash streamer device: every 7 years / UV-C LED: every 7 years	
	Material		PP, PET, PO, EVA	
Electrical specifications			BAEF125AWB	
Power supply	Phase		1~	
	Frequency	Hz	50/60	
	Voltage	V	220-240/220	

With 2 sensors (control factor 0.65): A+ ; Other: A

# 3 Combination table

## 3 - 1 Combination Table

**3**
**BAEF125AWB**
**UV streamer air purifier unit : BAEF125AWB  
SA/VRV Roundflow 3x3 Indoor unit**
**Compatibility list**

Configuration		Indoor unit type
Cassette	Roundflow 3x3 (SA-Stanadard)	FCAG35BVEB
		FCAG50BVEB
		FCAG60BVEB
		FCAG71BVEB
		FCAG100BVEB
		FCAG125BVEB
		FCAG140BVEB
	Roundflow 3x3 (SA-Premium)	FCAHG71HVEB
		FCAHG100HVEB
		FCAHG125HVEB
		FCAHG140HVEB
	Roundflow 3x3 (VRV-R410A)	FXFQ20BVEB
		FXFQ25BVEB
		FXFQ32BVEB
		FXFQ40BVEB
		FXFQ50BVEB
		FXFQ63BVEB
		FXFQ80BVEB
		FXFQ100BVEB
		FXFQ125BVEB
	Roundflow 3x3 (VRV-R32)	FXFA20A2VEB
		FXFA25A2VEB
		FXFA32A2VEB
		FXFA40A2VEB
		FXFA50A2VEB
		FXFA63A2VEB
		FXFA80A2VEB
	FXFA100A2VEB	
		FXFA125A2VEB

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# 4 Capacity tables

## 4 - 1 Capacity Correction Factor

**BAEF125AWB**
**Capacity comparison table**

Unit	Class	Mode	Capacity with field setting and UV kit (compared to original MP unit)
<b>FCAQ-BVEB</b>	35	cool	107.9%
	50	cool/heat	96.8%
	60	cool/heat	104.4%
	71	cool	104.2%
	100	cool	101.1%
	125	cool	101.6%
	140	cool	101.6%
<b>FCAHG-HVEB</b>	71	cool/heat	99.3%
	100	cool	90.3%
	125	cool	84.2%
	140	cool	84.2%
<b>FXFQ-BVEB FXFA-A2VEB</b>	20	cool/heat	107.9%
	25	cool/heat	107.9%
	32	cool/heat	107.9%
	40	cool/heat	100.7%
	50	cool/heat	97.7%
	63	cool/heat	93.9%
	80	cool	101.7%
	100	cool/heat	98.9%
	125	cool/heat	88.6%

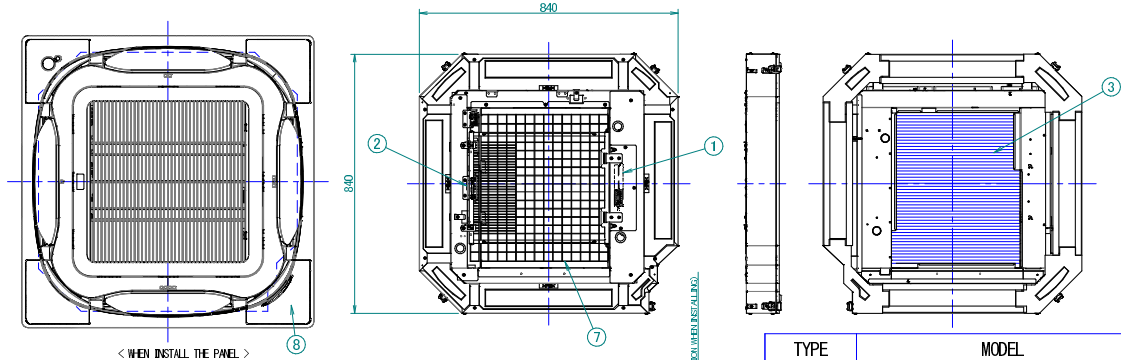
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# 5 Dimensional drawings

## 5 - 1 Dimensional Drawings

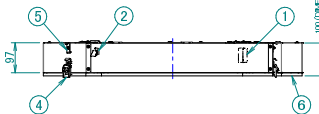
5

BAEF125AWB



**CAUTION NOTES**

- WHEN THIS PRODUCT IS ATTACHED TO MODEL IN TABLE, THE CAPACITY MAY BE REDUCED BY ABOUT 10-15%.
  - THE CORNER COVER FOR OPERATION DISPLAY CAN BE ATTACHED ONLY TO THE ABOVE POINTS (BETWEEN □□□ AND □□□□).
  - FOR THE AIR VOLUME OF THE INDOOR UNIT, REFER TO THE SPECIFICATION TABLE OF THE INDOOR UNIT.
  - DO NOT INSTALL IN THE FOLLOWING PLACES.
1. PLACES THAT USE A LOT OF SPRAY FOR BARBERS AND BEAUTY SALONS ADHESION OF SILICONE MAY CAUSE ABNORMAL NOISE.
  2. PLACES WHERE MANY COSMETICS CONTAINING SILICONE ARE USED. INSULATORS SUCH AS SILICONE MAY ADHERE TO THE NEEDLE OF THE STREAMER DISCHARGE PART, AND STREAMER MAY NOT OCCUR.
  3. PLACES WITH A LOT OF OIL OR STEAM, SUCH AS A KITCHEN WHERE OIL CAN BE POURED. RESIN PARTS MAY DETERIORATE, CAUSING PARTS TO FALL, WATER LEAKS OR FIRE.
  4. LOCATIONS WHERE CORROSIVE GAS SUCH AS SULFURIC ACID GAS IS GENERATED. THE COPPER PIPE AND BRAZED PARTS MAY CORRODE AND CAUSE REFRIGERANT LEAKAGE.
  5. LOCATIONS WHERE THERE IS A MACHINE THAT GENERATES ELECTROMAGNETIC WAVES. IT MAY CAUSE AN ABNORMALITY IN THE CONTROL SYSTEM AND PREVENT NORMAL OPERATION.
  6. PLACES WHERE FLAMMABLE GAS MAY LEAK, PLACES WHERE CARBON FIBER AND FLAMMABLE DUST FLOAT, AND PLACES WHERE VOLATILE FLAMMABLE MATERIALS SUCH AS THINNER AND GASOLINE ARE HANDLED. IT MAY IGNITE THE SURROUNDING COMBUSTIBLES AND CAUSE A FIRE.
  7. HUMID PLACE SUCH AS BATHROOM. IT MAY CAUSE ELECTRIC SHOCK OR FIRE.
  8. PLACES WITH A LOT OF SMOKE SUCH AS SMOKING ROOMS. IT MAY CAUSE THE FILTER TO BECOME DIRTY OR CLOGGED.
  9. PLACES WHERE UV DETECTORS ARE INSTALLED. IT MAY CAUSE THE DETECTOR TO ISSUE AN ALARM.



TYPE	MODEL
DIT (SA)	FCA85/100/125/140
	FCF30/36/(S)38/42/48/100/125/140
DIT (VRV)	FXFSQ100/125/140
	FXFQ100/125/140
DICz (SA)	FCAHG100/125/140
DICz (VRV)	FXFA125
	FXFQ125

- ① STREAMER UNIT
- ② UV UNIT
- ③ PLEATED FILTER
- ④ FIXTURE ASSY
- ⑤ PANEL MOUNTING FIXTURE
- ⑥ SEALING MATERIAL (BODY SIDE)
- ⑦ PROTECTIVE NET
- ⑧ CORNER COVER FOR OPERATION DISPLAY

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# 5 Dimensional drawings

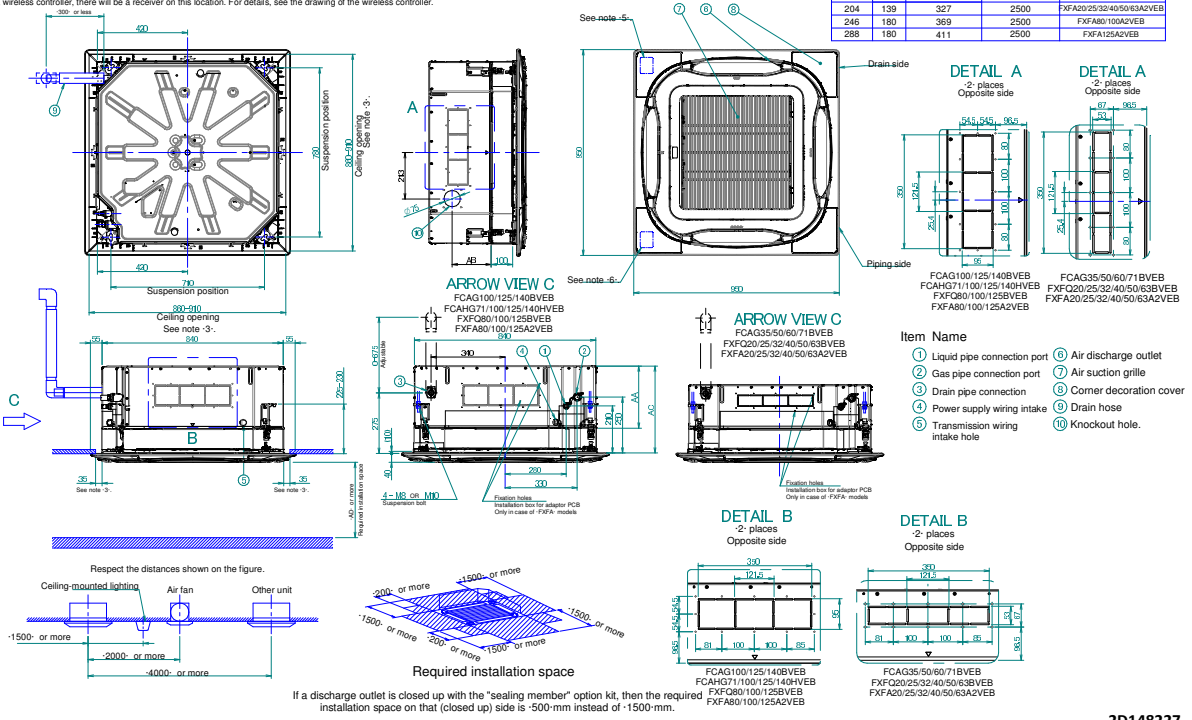
## 5 - 2 Dimensional Drawings with Accessories

**BAEF125AWB**

**Notes**

1. Location of nameplate  
The unit nameplate is located on the control box cover.  
The decoration panel nameplate is located on the piping-side panel frame, under the corner cover.
2. When installing optional accessories, refer to their respective documentation.
3. Make sure the distance between the ceiling and the cassette does not exceed 35 mm.  
The maximum ceiling opening is 910 mm.
4. When the conditions in the ceiling exceed 30°C ambient temperature and 80% relative humidity, or when fresh air is inducted into the ceiling, additional insulation is required (polyethylene foam, thickness ≥10 mm).
5. When installing a sensor kit, there will be a sensor on this location. For details, see the drawing of the sensor kit.
6. When installing a wireless controller, there will be a receiver on this location. For details, see the drawing of the wireless controller.

Cassette height	Minimal installation height	Required installation space	Model
AA	AB	AD	
204	139	327	2700
246	180	369	2700
288	180	411	2700
204	139	327	2700
246	180	369	2700
288	180	411	2700
204	139	327	2500
246	180	369	2500
288	180	411	2500

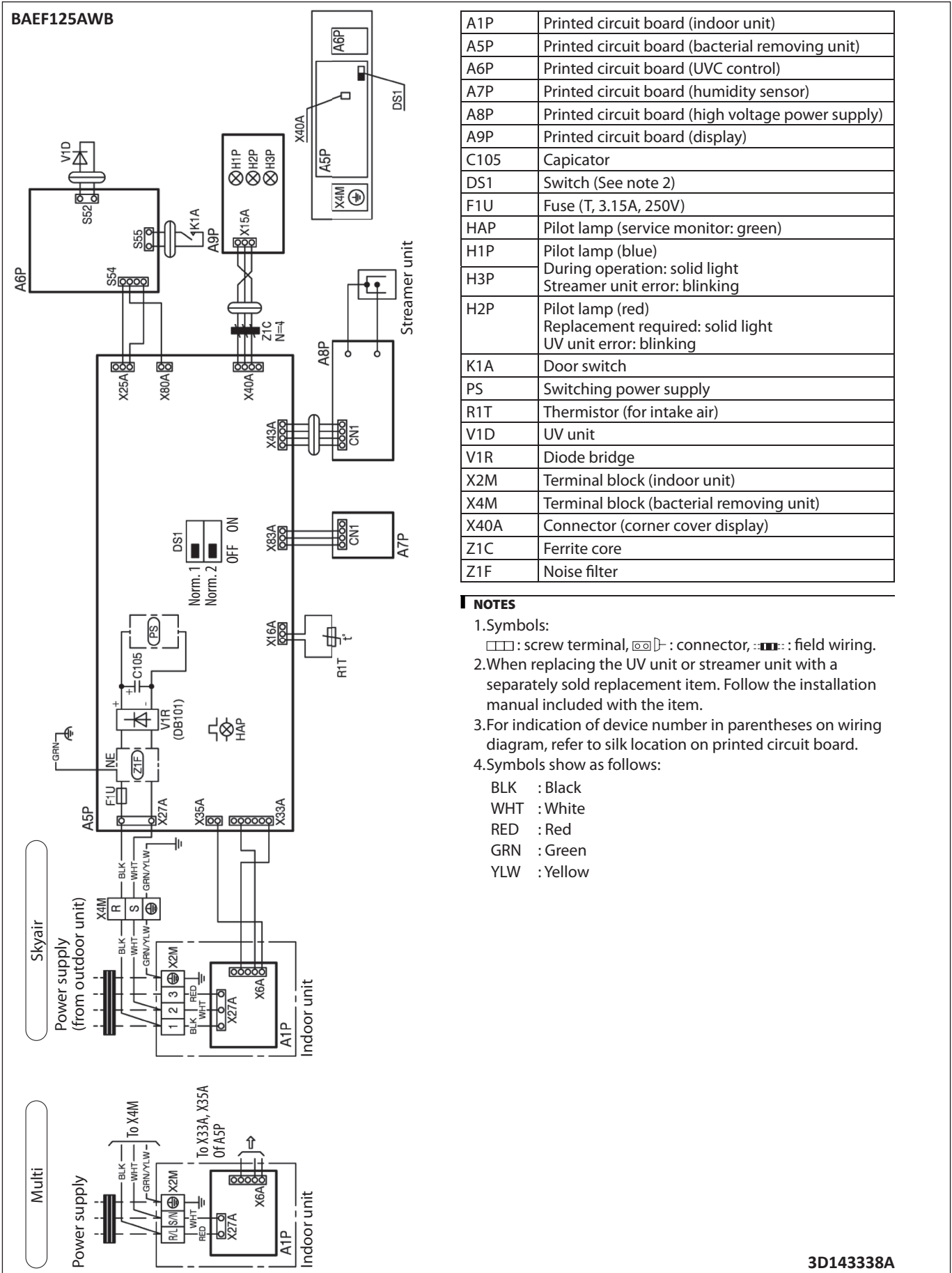


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# 6 Wiring diagrams

## 6 - 1 Wiring Diagrams - Single Phase

6



A1P	Printed circuit board (indoor unit)
A5P	Printed circuit board (bacterial removing unit)
A6P	Printed circuit board (UVC control)
A7P	Printed circuit board (humidity sensor)
A8P	Printed circuit board (high voltage power supply)
A9P	Printed circuit board (display)
C105	Capacitor
DS1	Switch (See note 2)
F1U	Fuse (T, 3.15A, 250V)
HAP	Pilot lamp (service monitor: green)
H1P	Pilot lamp (blue)
H3P	During operation: solid light Streamer unit error: blinking
H2P	Pilot lamp (red) Replacement required: solid light UV unit error: blinking
K1A	Door switch
PS	Switching power supply
R1T	Thermistor (for intake air)
V1D	UV unit
V1R	Diode bridge
X2M	Terminal block (indoor unit)
X4M	Terminal block (bacterial removing unit)
X40A	Connector (corner cover display)
Z1C	Ferrite core
Z1F	Noise filter

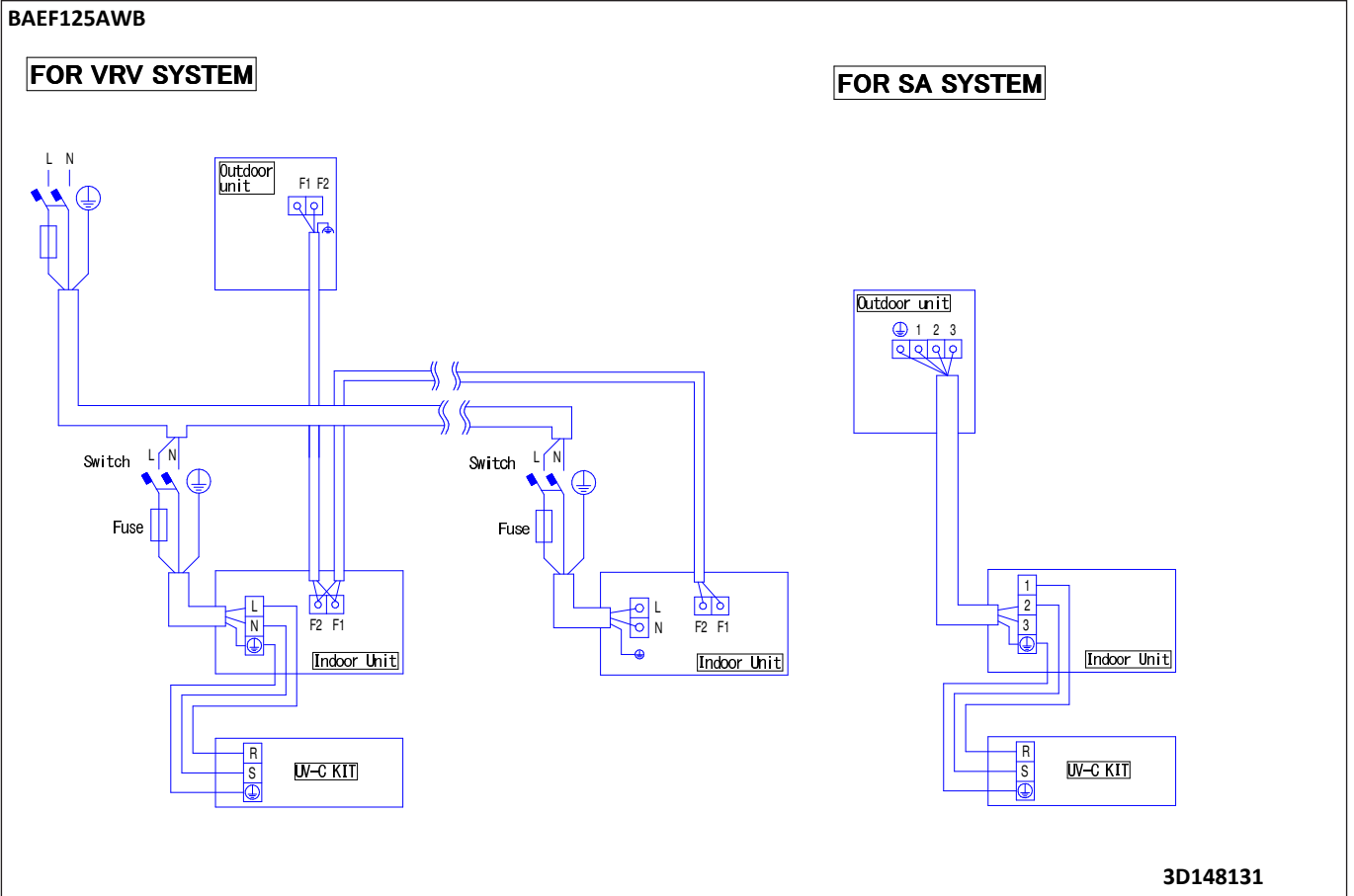
**NOTES**

- 1.Symbols:  
   : screw terminal,    : connector,    : field wiring.
- 2.When replacing the UV unit or streamer unit with a separately sold replacement item. Follow the installation manual included with the item.
- 3.For indication of device number in parentheses on wiring diagram, refer to silk location on printed circuit board.
- 4.Symbols show as follows:  
 BLK : Black  
 WHT : White  
 RED : Red  
 GRN : Green  
 YLW : Yellow

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# 7 External connection diagrams

## 7 - 1 External Connection Diagrams



# 8 Sound data

## 8 - 1 Sound Pressure Spectrum

**BAEF125AWB**
**Sound pressure - FXFQ125BVEB**

Filed setting		Mode No.	First code No.	Second code No.
		13(23)	0	03
			1	02
		<b>Sound difference (to catalogue)</b>		<b>Catalogue value</b>
<b>H-tap</b>	MP unit - original rpm (pre-filter)	1.5		45
	UV kit filter - original rpm	-0.2		
	UV kit filter - field setting	2.8		
		<b>Sound difference (to catalogue)</b>		<b>Catalogue value</b>
<b>M-tap</b>	MP unit - original rpm (pre-filter)	-0.1		41
	UV kit filter - original rpm	-0.7		
	UV kit filter - field setting	4		
		<b>Sound difference (to catalogue)</b>		<b>Catalogue value</b>
<b>L-tap</b>	MP unit - original rpm (pre-filter)	-4.3		36
	UV kit filter - original rpm	-4.1		
	UV kit filter - field setting	3.1		

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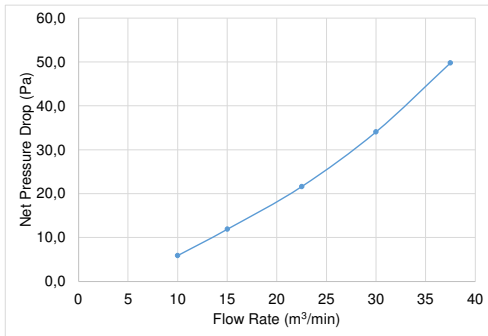
# 9 Air filter characteristics

## 9 - 1 Air filter characteristics

BAEF125AWB

The percent of nominal air flow rate	Flow Rate (m <sup>3</sup> /min)	Net Pressure Drop (Pa)
30%	10	5,9
50%	15	11,9
75%	22,5	21,6
100%	30	34,1
125%	37,5	49,8

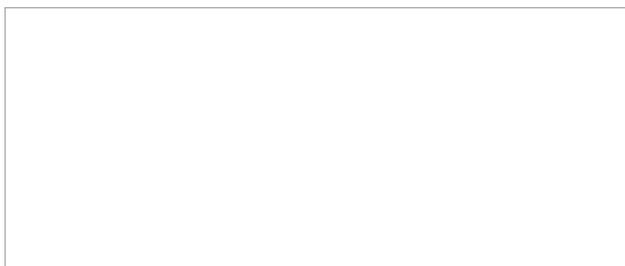
Tested stanard : JIS B 9908-2 Filter Test Result  
 Report No : JAPHL-GL-20220115-01  
 Reference document : AD220174



**Note)**

- 1) The result of this test are only applicable to the used under this condition.
- 2) The dust load test results are not applicable to the performance of the product in the actual use environment.
- 3) Arrestance (J-ePMx) is the result of stand volume particle size distribution using optical particle size.  
 It is different from the results of particle size distribution using aerodynammics.

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08/2023



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