

# DC Fan

Wide lineup including low power consumption fans (9GA type), silent fans (9S type), and high airflow and high static pressure fans.

**Model Numbering System** Not every combination of the following codes or characters is available. Contact us for an available combination.

<b>9GV</b>	<b>12</b>	<b>12</b>	<b>J</b>	<b>1</b>	<b>01</b>	<b>1</b>
Type name	Frame size	Voltage	Speed code	Frame thickness	Sensor specifications	Frame form

Fans with PWM control function

<b>9GV</b>	<b>12</b>	<b>12</b>	<b>P</b>	<b>4</b>	<b>G</b>	<b>01</b>	
Type name	Frame size	Voltage	PWM control function	Frame thickness	Speed code	Individual customer's spec (2 to 4 digits)	Frame form

Type name	9GA 9GV 9HV etc.														
Frame size (mm)	03	04	05	06	08	09	12	13	14	15	17	36	47	57	20
	38×38	40×40	52×52	60×60	80×80	92×92	120×120	127×127	140×140	150×150	∅172	36×36	∅172×147 (sidecut)	∅172×150 (sidecut)	∅200
Voltage (V)	05	12	24	48											
	5	12	24	48	etc.										
Speed code	A	B	C	D	E	F	G	H	J	K	L	M	S	W	etc.
Frame thickness (mm)	0	1	2	3	4	5	6	7	9						
	70	38	32	28	25	50, 51	20	15	10						
Sensor specifications	01 or 001				02 or 002				D01 or D001						
	With a pulse sensor				Without a sensor				With a lock sensor						
Frame form	Nil				1				3						
	Plastic frame: Ribbed frame				Plastic frame: Ribless frame				40 × 40 × 28 mm for 1U applications				Plastic frame: Ribbed frame		
	Aluminum frame: Ribless frame														

# Counter Rotating Fan

Counter rotating fans feature high airflow and high static pressure.  
Related product: Long Life Fan pp. 381, 383, 390

**Model Numbering System** Not every combination of the following codes or characters is available. Contact us for an available combination.

<b>9CRA</b>	<b>04</b>	<b>12</b>	<b>K</b>	<b>4</b>	<b>01</b>
Type name	Frame size	Voltage	Speed code	Frame thickness	Sensor specifications

Fans with PWM control function

<b>9CRA</b>	<b>03</b>	<b>12</b>	<b>P</b>	<b>4</b>	<b>K</b>	<b>03</b>
Type name	Frame size	Voltage	PWM control function	Frame thickness	Speed code	Individual customer's spec (2 to 3 digits)

Type name	9CRA 9CRH etc.					
Frame size (mm)	03	04	06	08	12	57
	38×38	40×40	60×60	80×80	120×120	∅172×150 (sidecut)
Voltage (V)	12	48				
	12	48				
Speed code	G H J K S etc.					
Frame thickness (mm)	0	4	5	6	8	9
	76	48	51, 56	56	80	102
Sensor specifications	01, 001		02, 002		D01, D001	
	With a pulse sensor		Without a sensor		With a lock sensor	

# Reversible Flow Fan

The wind directions can be switched with these fans. Equivalent cooling performance can be obtained in both directions.

**Model Numbering System** Not every combination of the following codes or characters is available. Contact us for an available combination.

9RF	13	12	P	3	H	001
Type name	Frame size	Voltage	PWM control function	Frame thickness	Speed code	Individual customer's spec

Type name	9RF	
Frame size (mm)	09	13
	∅92	∅136
Voltage (V)	12	24
	12	24
Frame thickness (mm)	1	3
	38	28
Speed code	H	

# Splash Proof Fan

Cooling fan of IP54, IP55 and IP68 waterproof capability. For more information on IP rating, refer to p. 579.  
 Related product: Splash Proof Centrifugal Fan p. 321, Splash Proof Blower p. 341, Oil Proof Fan p. 345

**Model Numbering System** Not every combination of the following codes or characters is available. Contact us for an available combination.

<b>9WL</b>	<b>14</b>	<b>48</b>	<b>L</b>	<b>1</b>	<b>001</b>	
Type name	Frame size	Voltage	Speed code	Frame thickness	Sensor specifications	Frame form

Fans with PWM control function

<b>9WV</b>	<b>08</b>	<b>48</b>	<b>P</b>	<b>1</b>	<b>H</b>	<b>001</b>	
Type name	Frame size	Voltage	PWM control function	Frame thickness	Speed code	Individual customer's spec (2 to 3 digits)	Frame form

Type name	9WL 9WP 9WV etc.										
Frame size (mm)	04	06	08	09	12	14	17	57			
	40×40	60×60	80×80	92×92	120×120	140×140	∅172	∅172×150 (sidecut)			
Voltage (V)	12	24	48	etc.							
	12	24	48	etc.							
Speed code	A	D	E	F	G	H	J	L	M	S	etc.
Frame thickness (mm)	1	4	5	6							
	38	25	51	20							
Sensor specifications	01, 001			02, 002			D01, D001				
	With a pulse sensor			Without a sensor			With a lock sensor				
Frame form	Nil				1						
	Plastic frame: Ribbed frame				Plastic frame: Ribless frame						
	Aluminum frame: Ribless frame										

# Splash Proof Centrifugal Fan

Centrifugal fans of IP54 and IP56 waterproof capability. For more information on IP rating, refer to p. 579.  
 Related product: Splash Proof Fan p. 263, Centrifugal Fan p. 443, Splash Proof Blower p. 341,  
 Oil Proof Fan p. 345

**Model Numbering System** Not every combination of the following codes or characters is available. Contact us for an available combination.

<b>9W1T</b>	<b>M</b>	<b>48</b>	<b>P</b>	<b>4</b>	<b>H</b>	<b>01</b>
Type name	Impeller size	Voltage	PWM control function	Thickness	Speed code	Individual customer's spec. (2 to 3 digits)

Type name	9W1T 9W2T					
Impeller size (mm)	G	J	M	N	P	S
	∅175	∅133	∅100	∅150	∅221	∅225
Voltage (V)	24	48				
	24	48				
Thickness (mm)	0	1	4			
	69 min.	35	25			
Speed code	H	G	S	etc.		

# Splash Proof Blower

This fan specializes in high static pressure and has IP68-rated water resistance. For more information on IP rating, refer to p. 579.

Related product: Splash Proof Fan p. 263, Splash Proof Centrifugal Fan p. 321, Blower p. 469

**Model Numbering System** Not every combination of the following codes or characters is available. Contact us for an available combination.

<b>9W1B</b>	<b>M</b>	<b>12</b>	<b>P</b>	<b>2</b>	<b>H</b>	<b>001</b>
Type name	Frame size	Voltage	PWM control function	Frame thickness	Speed code	Individual customer's spec (3 digits)

Type name	9W1B
Frame size (mm)	M 97
Voltage (V)	12 24 12 24
Frame thickness (mm)	2 33
Speed code	H M

# Oil Proof Fan

Cooling fan capable of operating in an oil-mist environment.

Related product: Splash Proof Fan p. 263, Splash Proof Centrifugal Fan p. 321, Splash Proof Blower p. 341

**Model Numbering System** Not every combination of the following codes or characters is available. Contact us for an available combination.

9WF	12	24	H	1	01	
Type name	Frame size	Voltage	Speed code	Frame thickness	Sensor specifications	Frame form

Type name	9WF 9WFA					
Frame size (mm)	04 40×40	06 60×60	08 80×80	09 92×92	12 120×120	
Voltage (V)	24 24					
Speed code	H					
Frame thickness (mm)	1 38	2 32	4 25	6 20	7 15	
Sensor specifications	01, 001 With a pulse sensor		02, 002 Without a sensor		D01, D001 With a lock sensor	
Frame form	Nil Ribbed frame					

# Long Life Fan

Cooling fan with Max. 180,000 hours of expected life.

Related product: Splash Proof Fan pp. 266, 269, 275, 283, 290

**Model Numbering System** Not every combination of the following codes or characters is available. Contact us for an available combination.

<b>9L</b>	<b>04</b>	<b>12</b>	<b>J</b>	<b>3</b>	<b>01</b>
Type name	Frame size	Voltage	Speed code	Frame thickness	Sensor specifications

Fans with PWM control function

<b>9LG</b>	<b>06</b>	<b>12</b>	<b>P</b>	<b>4</b>	<b>S</b>	<b>001</b>
Type name	Frame size	Voltage	PWM control function	Frame thickness	Speed code	Individual customer's spec (2 to 3 digits)

Type name	9CRL 9L 9LG etc.							
Frame size (mm)	04	06	08	09	12	14	17	57
	40×40	60×60	80×80	92×92	120×120	140×140	∅172	∅172×150 (sidecut)
Voltage (V)	12	24	48	etc.				
	12	24	48	etc.				
Speed code	E	F	G	H	J	L	M	S etc.
Frame thickness (mm)	0	1	3	4	5	8		
	76	38	28	25	51	80		
Sensor specifications	01, 001			02, 002			D01, D001	
	With a pulse sensor			Without a sensor			With a lock sensor	



# Wide Temperature Range Fan

These fans can be used in a wide temperature range from -40 to +85°C.

**Model Numbering System** Not every combination of the following codes or characters is available. Contact us for an available combination.

<b>9GT</b>	<b>04</b>	<b>12</b>	<b>P</b>	<b>3</b>	<b>J</b>	<b>001</b>
Type name	Frame size	Voltage	PWM control function	Frame thickness	Speed code	Individual customer's spec

Type name	9GT					
Frame size (mm)	04	06	08	09	12	
	40×40	60×60	80×80	92×92	120×120	
Voltage (V)	12	24				
	12	24				
Frame thickness (mm)	1	3	4			
	38	28	25			
Speed code	J					

# G Proof Fan

These fans are suitable for cooling CT scanners and other devices subject to high G-force or vibration.

**Model Numbering System** Not every combination of the following codes or characters is available. Contact us for an available combination.

9GP	12	24	P	1	G	001
Type name	Frame size	Voltage	PWM control function	Frame thickness	Speed code	Individual customer's spec (3 digits)

Type name	9GP	
Frame size (mm)	12	57
	120×120	Ø172×150 (sidecut)
Voltage (V)	24	48
	24	48
Frame thickness (mm)	1	5
	38	51
Speed code	G	H

# Blower

Cooling fan specialized for high static pressure.  
 Related product: Splash Proof Blower p. 341

**Model Numbering System** Not every combination of the following codes or characters is available. Contact us for an available combination.

<b>109B</b>	<b>C</b>	<b>12</b>	<b>H</b>	<b>C</b>	<b>2</b>	<b>-1</b>
Type name	Frame size	Voltage	Speed code	Sensor specifications	Frame thickness	Individual customer's spec

<b>9B</b>	<b>MB</b>	<b>12</b>	<b>G</b>	<b>2</b>	<b>01</b>	<b>-1</b>
Type name	Frame size	Voltage	Speed code	Frame thickness	Sensor specifications	Individual customer's spec

Fans with PWM control function

<b>9B</b>	<b>MB</b>	<b>12</b>	<b>P</b>	<b>2</b>	<b>G</b>	<b>01</b>
Type name	Frame size	Voltage	PWM control function	Frame thickness	Speed code	Individual customer's spec (2 to 3 digits)

Type name	109B	9B					
Frame size (mm)	C	D	F, FB	G	J	M, MB, MC	
	52	76	120	160	127	97	
Voltage (V)	12	24					
	12	24					
Speed code	F	G	H	K	M	S	etc.
Sensor specifications	A, 02, 002		C, 01, 001		D		
	Without a sensor		With a pulse sensor		With a lock sensor		
Frame thickness (mm)	1	2	7	6			
	40	30, 32, 33	15	20			

# ACDC Fan

This fan works while internally converting AC power into DC power, providing the superior performance of a DC fan with the flexibility of AC input.

**Model Numbering System** Not every combination of the following codes or characters is available. Contact us for an available combination.

9AD	09	01	H	1	2	
Type name	Frame size	Voltage	Speed code	Frame thickness	Sensor specifications	Frame form

Type name	9AD					
Frame size (mm)	09		12			
	92×92		120×120			
Voltage (V)	01					
	100 to 240					
Speed code	H M etc.					
Frame thickness (mm)	1					
	38					
Sensor specifications	2		H			
	Without a sensor		With a low-speed sensor			
Frame form	Nil			1		
	Plastic frame: Ribbed frame			Plastic frame: Ribless frame		

## Centrifugal Fan

9ADT	S	11	P	0	G	001
Type name	Impeller size	Voltage	PWM control function	Thickness	Speed code	Individual customer's spec

## Splash Proof Centrifugal Fan

9ADW1T	S	11	P	0	H	001
Type name	Impeller size	Voltage	PWM control function	Thickness	Speed code	Individual customer's spec

Type name	9ADT 9ADW1T					
Impeller size (mm)	S					
	∅225					
Voltage (V)	11		23			
	115		230			
Thickness (mm)	0					
	69 <sub>min.</sub>					
Speed code	G H etc.					