

# Specification & Drawing Change Notice

NO. A0040359-1/1

March 20th, 2018

To: Sanyo Denki America Cooling Distributors

SANYO DENKI CO., LTD.  
Design Department  
Cooling Systems Division

Product: Splash Proof Fans & Oil Proof Fans

Mode: Please refer to attached list.

Approved	Checked	Designed
		

Sanyo Denki America, Inc.  
Cooling Systems Division

No	Contents	Existence	Modification	Description
1	Epoxy resin for sealing	Pelnox, Ltd. ME-372 HY-680 (Color: Black) UL file no: E62027(V-0)	Nagase Chemtex Corp. XNR5002G XNH5002G (Color: Black) UL file no: E62465(V-0)	We would like to change the Epoxy resin for sealing as shown in left column since production of current material is discontinued. There is no influence for its performance and quality by the change. There is no appearance deviation after the change.  Implementation Date: From June 2018 production. Please be assured that the schedule might change according to the number of products in the inventory.

Affected Part Numbers
1022-106131
1022-106394
1022-107846
1022-115851
1023-115455
1032-106228
1032-106229
1032-106230
1032-107412
1032-107413
109-1048
109-1059
109-1060
109-1082
109-1082D
109-1091
109-1091D
109-1092
109-1092D
109-U0022-01
109W1412H1D01-E
109W1412H1D03-E
109W1412H1D04-E
109W1424H101-E
109W1448HM501
9EB1748K5H505
9EB1748K5H505-A01
9EB1748K5H515
9EB1748K5H515-A01
9EB1748K5H525
9EB5748P5K01-A
9EB5748P5K03
9EB5748P5K03-A
9EB5748P5K03-C
9EB5748P5K04
9EB5748P5K04-A
9EB5748P5K04-C
9PF0410S3103
9PF0412F3101
9PF0412F3103
9PF0412F3103-C
9PF0412P3J101
9PF0424H301
9PF0424H302
9PF0424H306
9PF0424H3101
9PF0424H3D103-C
9PF0424H3D104-C
9WA0624S402
9WA0624S403
9WA0624S404
9WE1724K501
9WE1724K502

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Affected Part Numbers
9WE1724K503
9WE1748K501
9WE5724H502
9WE5724K501
9WE5724K502
9WE5724K502-C
9WE5724K503
9WE5724K504
9WE5724K505
9WE5724K506-C
9WE5724K507
9WE5724K508
9WE5724K509
9WE5724K510
9WE5724K5H03
9WE5748K501
9WE5748K502
9WE5748K5D01
9WE5748K5D03
9WE5748K5D035
9WE5748P5K01
9WE5748P5K04
9WE5748P5K05
9WF0424F601
9WF0424F602
9WF0424F6D01
9WF0424H601
9WF0424H602
9WF0424H603
9WF0424H604
9WF0424H6D01
9WF0424H6D05
9WF0424H6D06
9WF0424H6D07
9WF0424H6D08
9WF0424H701
9WF0424H702
9WF0424H7D01
9WF0624H401
9WF0624H402
9WF0624H406
9WF0624H407
9WF0624H4D01
9WF0624H4D04
9WF0624H4D06
9WF0624H601
9WF0624H604
9WF0624H605
9WF0624H606
9WF0624H6D01
9WF0624H701
9WF0624H702
9WF0624H703

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Affected Part Numbers
9WF0624H704
9WF0624H7D01
9WF0824S401
9WF0824S402
9WF0824S4D01
9WF0924H201
9WF0924H2011
9WF0924H202
9WF0924H204
9WF0924H205
9WF0924H206
9WF0924H2D01
9WF0924H401
9WF0924H402
9WF0924H403
9WF0924H404
9WF0924H405
9WF0924H4D01
9WF0924H4D011
9WF0924S201
9WF0924S2011
9WF0924S202
9WF0924S204
9WF0924S205
9WF0924S2D01
9WF1224H101
9WF1224H102
9WF1224H103
9WF1224H104
9WF1224H105
9WF1224H106
9WF1224H1D01
9WF1224H1D05
9WF1224H1E63
9WG1212E101-E
9WG1212E102-E
9WG1212E1D01-E
9WG1212F101-E
9WG1212F102-E
9WG1212G101-E
9WG1212G102-E
9WG1212G103-E
9WG1212G104-E
9WG1212G105-E
9WG1212G1D01-E
9WG1212G1E01-E
9WG1212H101-E
9WG1212H102-E
9WG1212H104-EC
9WG1212H1D01-E
9WG1212J101-E
9WG1212J102-E
9WG1212M101-E

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Affected Part Numbers
9WG1212M102-E
9WG1224E101-E
9WG1224E102-E
9WG1224E1D01-E
9WG1224F101-E
9WG1224F102-E
9WG1224F1D01-E
9WG1224G101-E
9WG1224G102-E
9WG1224G103-E
9WG1224G104-E
9WG1224G105-E
9WG1224G106-E
9WG1224G107-E
9WG1224G1D01-E
9WG1224G1J03-E
9WG1224H101-E
9WG1224H102-E
9WG1224H103-E
9WG1224H1D01-E
9WG1224H1D05-E
9WG1224H1D06-E
9WG1224H1D06-EC
9WG1224J101-E
9WG1224J102-E
9WG1224J103-E
9WG1224J1D01-E
9WG1224M101-E
9WG1224M102-E
9WG1248E101-E
9WG1248E102-E
9WG1248E103-E
9WG1248E104-E
9WG1248E105-E
9WG1248F101-E
9WG1248F102-E
9WG1248G101-E
9WG1248G102-E
9WG1248H101-E
9WG1248H102-E
9WG1248H1D01-E
9WG1248J101-E
9WG1248J102-E
9WG1248J103-E
9WG1248J1D01-E
9WG1248M101-E
9WG1248M102-E
9WG1248P1J03-E
9WG1248P1J04-EA
9WG1248V1C03-E
9WG5748G5002
9WG5748H5001
9WG5748H5003-X

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Affected Part Numbers
9WG5748H5004
9WG5748H5D001
9WG5748P5G001
9WG5748P5G001-A01
9WG5748P5G003
9WG5748P5G003-X
9WG5748P5G004
9WG5748P5G005
9WG5748P5G006
9WG5748P5G007-X
9WG5748P5G008
9WG5748P5G009
9WG5748P5GD003
9WG5748P5H001
9WG5748P5H003
9WG5748P5H003-X
9WG5748P5H004
9WG5748P5H006
9WG5748P5H007
9WG5748P5H603
9WG5748P5HD003
9WG5748P5HD004
9WL0612J4002
9WL0612J4D001
9WL0612P4H001
9WL0612P4H003
9WL0612P4J001
9WL0612P4J003
9WL0612P4S001
9WL0612P4S003
9WL0612P4S004
9WL0612P4S005
9WL0612S4002
9WL0612S4D001
9WL0624H4001
9WL0624J4D001
9WL0624P4H001
9WL0624P4J001
9WL0624P4JD001
9WL0624P4S001
9WL0624P4S003
9WL0624P4S004
9WL0624P4SE001
9WL0624S4003-3
9WL0812G4D001
9WL0812H4002
9WL0812P4G001
9WL0812P4H001
9WL0812P4J001
9WL0812P4J003
9WL0824J4003
9WL0824J4004
9WL0824P4G001

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9WL0824P4H001
9WL0824P4J001
9WL0912G4003
9WL0912J4002
9WL0912P4G001
9WL0912P4G003
9WL0912P4H001
9WL0912P4J001
9WL0912P4J003
9WL0912P4S001
9WL0924J4D001
9WL0924P4H001
9WL0924P4J001
9WL0924P4J004
9WL0924P4S001
9WP0412F6001
9WP0412F6002
9WP0412F6003
9WP0412F6D001
9WP0412H6001
9WP0412H6002
9WP0412H6003
9WP0609P4S03
9WP0612D401
9WP0612D4011
9WP0612D402
9WP0612D4D01
9WP0612D4D011
9WP0612D4D03
9WP0612D4D031
9WP0612D4D04
9WP0612G401
9WP0612G4011
9WP0612G402
9WP0612G4021
9WP0612G4031
9WP0612G4D01
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9WP0612H4011
9WP0612H402
9WP0612H4021
9WP0612H403
9WP0612H4031
9WP0612H404
9WP0612H4041
9WP0612H405
9WP0612H406
9WP0612H4D01
9WP0612H4D011
9WP0612H4D03
9WP0612H4D04
9WP0612H4D05
9WP0612P4G01

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Affected Part Numbers
9WP0612P4G03-C
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9WP0624G4011
9WP0624G402
9WP0624G4D01
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9WP0624H4011
9WP0624H402
9WP0624H4021
9WP0624H403
9WP0624H4031
9WP0624H404
9WP0624H4041
9WP0624H4051
9WP0624H4061
9WP0624H4D01
9WP0624H4D011
9WP0624H4D03
9WP0624H4D04
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9WP0624J4011
9WP0624J402
9WP0648H401
9WP0648H4011
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9WP0648H403
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9WP0648H4D011
9WP0648P4G03
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9WP0648P4G05-A
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9WP0812G403
9WP0812G4031
9WP0812G404
9WP0812G405
9WP0812G406
9WP0812G407
9WP0812G409
9WP0812G4D01
9WP0812G4D011
9WP0812G4D03
9WP0812G4D04

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Affected Part Numbers
9WP0812G4D05
9WP0812G4D06
9WP0812G4D07
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9WP0812H4011
9WP0812H401-C
9WP0812H402
9WP0812H4021
9WP0812H4021-C
9WP0812H403
9WP0812H404
9WP0812H405
9WP0812H406
9WP0812H407
9WP0812H408
9WP0812H409
9WP0812H410
9WP0812H411
9WP0812H412
9WP0812H413
9WP0812H414
9WP0812H4D01
9WP0812H4D011
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9WP0824H4011
9WP0824H402
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9WP0824H403
9WP0824H4031
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9WP0824H4041
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9WP0824H407
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9WP0824H4D01
9WP0824H4D011
9WP0824H4D03
9WP0824H4D04
9WP0824H4D05
9WP0824S401
9WP0824S4011
9WP0824S402
9WP0824S4021
9WP0824S403

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Affected Part Numbers
9WP0824S4D01
9WP0824S4D03
9WP0848S401
9WP0848S4011
9WP0848S402
9WP0848S4021
9WP0848S4D01
9WP0848S4D011
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9WP0912B4D03
9WP0912F401
9WP0912F4011
9WP0912F402
9WP0912F4D01
9WP0912F4D011
9WP0912F4D03
9WP0912P1G0031
9WP0912P4W031
9WP0912S401
9WP0912S4011
9WP0912S402
9WP0912S403
9WP0912S404
9WP0912S4D01
9WP0912S4E03
9WP0924B401
9WP0924B4011
9WP0924B402
9WP0924B4021
9WP0924B403
9WP0924B4D01
9WP0924B4D011
9WP0924B4D03
9WP0924B4D04
9WP0924F401
9WP0924F4011
9WP0924F402
9WP0924F4021
9WP0924F403
9WP0924F4D01
9WP0924F4D011
9WP0924F4D03
9WP0924F4D04
9WP0924F4D05
9WP0924F4D06
9WP0924G401
9WP0924G4011
9WP0924G402
9WP0924G404
9WP0924G4D01
9WP0924G4D03
9WP0924G4D04
9WP0924H401

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Affected Part Numbers
9WP0924H4011
9WP0924H402
9WP0924H403
9WP0924H4D01
9WP0924H4D03
9WP0924H4D04
9WP0924H4D05
9WP0924H4E035
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9WP1212H1021
9WP1212H103
9WP1212H1D01
9WP1212H1D011
9WP1212H1E03
9WP1212L101
9WP1212L1011
9WP1224E1D01
9WP1224H101
9WP1224H1011
9WP1224H102
9WP1224H1021
9WP1224H103
9WP1224H1031
9WP1224H104
9WP1224H105
9WP1224H106
9WP1224H1D01
9WP1224H1D011
9WP1224H1D03
9WP1224H1E03
9WP1224H1H03
9WP1224H1H031
9WP1248H101
9WP1248H1011
9WP1248H102
9WP1248H1021
9WP1248H103
9WP1248H1031

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Affected Part Numbers
9WP1248H1D01
9WP1248H1D011
9WP1248H1E03
9WP1248M1E03
9WV0812M1001
9WV0812M1D001
9WV0812M1D003
9WV0812P1AD003
9WV0812P1M001
9WV0812P1M0031
9WV0812P1MD003
9WV0812P1MD005
9WV0812P1MD006
9WV0824A1001
9WV0824A1003
9WV0824A1D001
9WV0848P1H001
9WV0848P1H0011
9WV0848P1H003
9WV0848P1H004
9WV0924B1001
9WV0924B1003
9WV0924B1004
9WV0924B1005
9WV0924C1002
9WV0924C1003
9WV0924C1D001
9WV0924H1002
9WV0924P1H001
9WV0924P1H003
9WV0924P1H004
9WV0928P1H003
9WV0948A1003
9WV0948A1003-A
9WV0948P1H001
9WV0948P1H003
9WV0948P1H004
9WV0948P1H005
9WV0948P1H006
9WV0948P1H007
9WV1212G1002
9WV1212J1002
9WV1212J1D001
9WV1212J1H6004
9WV1212P1J001
9WV1212P1J003
9WV1212P1J004
9WV1212P1J005
9WV1212P1J006
9WV1212P1JD003
9WV1224H101
9WV1224H102
9WV1224H103

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Affected Part Numbers
9WV1224H104
9WV1224H105
9WV1224H106
9WV1224H107
9WV1224H108
9WV1224H1D001
9WV1224H1D003
9WV1224J1001
9WV1224J1003
9WV1224M1003
9WV1224P1H001
9WV1224P1H001-A01
9WV1224P1H003
9WV1224P1H004
9WV1224P1H005
9WV1224P1H006
9WV1224P1J601
9WV1224P1J603
9WV1224P1J604
9WV1224P1J605
9WV1228P1J003
9WV1248J1001
9WV1248J1002
9WV1248J1D001
9WV1248J1D003
9WV1248P1J001
9WV1248P1J001-A01
9WV1248P1J001-A02
9WV1248P1J001-A03
9WV1248P1J003
9WV1248P1J004
9WX1212G103
9WX1212G104
9WX1212M401
9WX1212M4021
9WX1212M403
9WX1212M4041
9WX1212M4051
B-1066
MDP1238-24L
MDP825-24L
MDP925-24L

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# 仕様書、図面変更願

## Request for Specification & Drawing Change

NO. A0033579B-1/1

DATE 2013年7月4日

To: Valued customers \_\_\_\_\_

品名 Product : 防水ファン Splash Proof Fan,  
防油ファン Oil Proof Fan \_\_\_\_\_

型番 Model : 別紙対象製品リストによる  
Please refer to attached list \_\_\_\_\_

貴社仕様書番号  
Customer Specification Number : \_\_\_\_\_

山洋電気株式会社

SANYO DENKI CO.,LTD.

クーリングシステム事業部 設計部

承認 Approved	審査 Checked	担当 Designed
		

既提出図 Previous DWG.	DATE 年 月 日 DWG NO.	貴社受領 Customer Receipt	DATE DWG NO.

No.	仕様書、図面内容 Contents	変更前 Existence	変更後 Modification	変更理由 Description
1	モールド用 エポキシ樹脂 Epoxy resin for sealing	ペルノックス製 Pelnox, Ltd. ME-370S HY-620S (色: 赤褐色) (Color: Rust)	ペルノックス製 Pelnox, Ltd. ME-372 HY-680 (色: 黒) (Color: Black)	<p>材料メーカーの事情により、硬化剤 (HY-620S) が生産中止となります。</p> <p>このため、左記のようにモールド材を変更します。</p> <p>なお、本変更でファンの特性及び信頼性への影響はありません。</p> <p>We would like to change the Epoxy resin for sealing as shown in left column since production of current material is discontinued.</p> <p>There is no influence for its performance and quality by this modification.</p> <p>変更時期: 2014年1月生産分より変更予定です。 但し、変更前材料の在庫消化状況により、変更時期が前後する場合がありますので、ご了承くださいませようお願いします。</p> <p>Implementation Date: From January, 2014 production.</p> <p>Please be assured that the schedule might change according to the number of products in the inventory.</p>

## Request for Specification &amp; Drawing Change

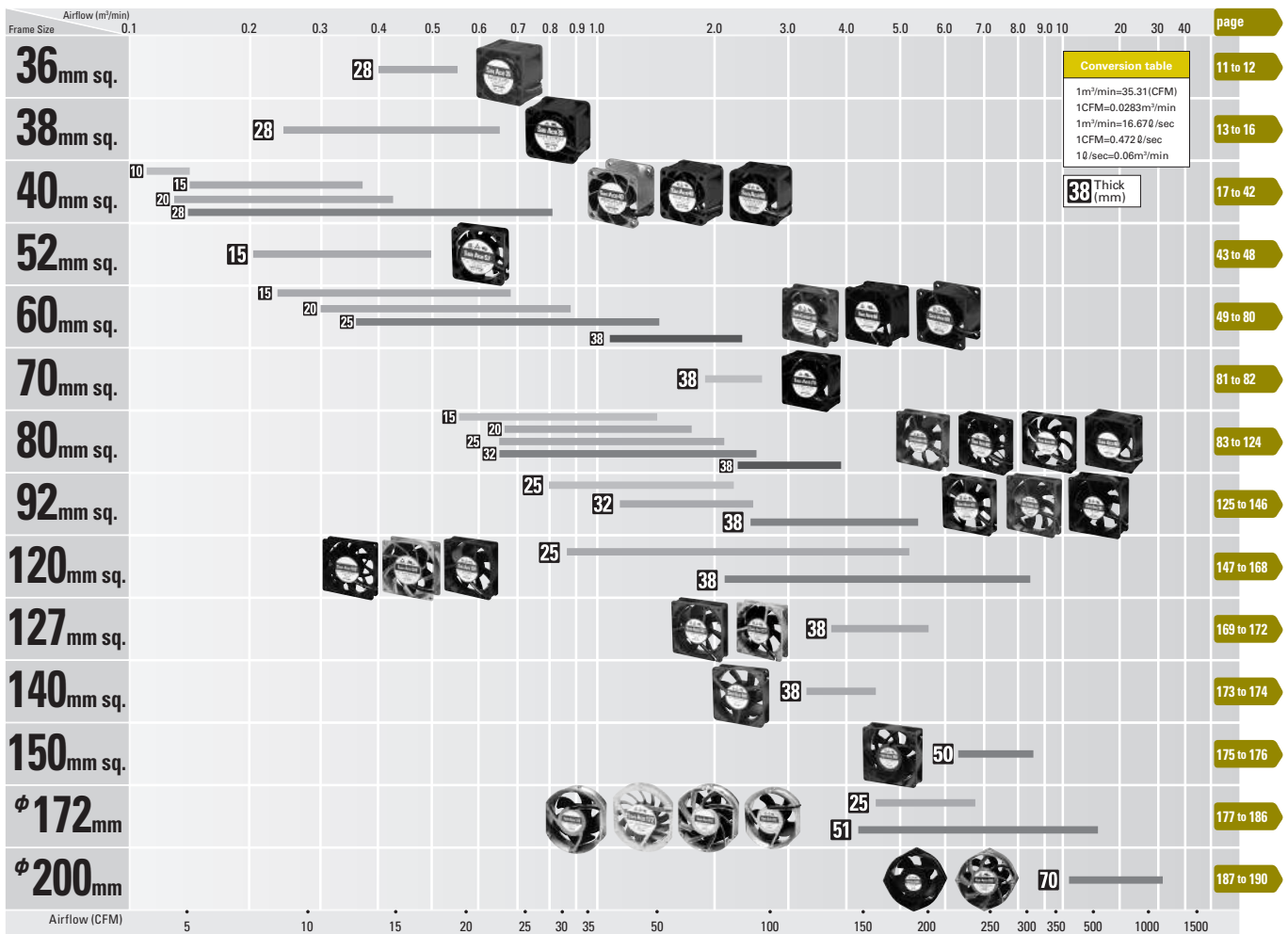
No. A0033579B

Dated July 4, 2013

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9WE1724K501	9WG1212J102-E	9WP0612H4021	9WP1248H101
9WE5724K501	9WG1212M101-E	9WP0624H4011	9WV0848P1H001
9WE5724K503	9WG1224E101-E	9WP0624H401	9WV0948P1H001
9WE5724K5H03	9WG1224E101-E	9WP0624H4021	9WV0948P1H003
9WE5748K501	9WG1224E102-E	9WP0624H4D01	9WV0948P1H004
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9WF0424H701	9WG1224H101-E	9WP0812G401	9WV1224P1H001
9WF0424H701	9WG1224J101-E	9WP0812H401	9WV1224P1J601
9WF0424H702	9WG1224J102-E	9WP0812H4011	9WV1248P1J001
9WF0624H401	9WG1224J1D01-E	9WP0812H401	9WX1212M4041
9WF0624H601	9WG1248E101-E	9WP0812H401	B-1066
9WF0624H601	9WG1248E102-E	9WP0812H402	B-1071
9WF0624H701	9WG1248G101-E	9WP0824H4011	B-1072
9WF0624H702	9WG1248G101-E	9WP0824H401	
9WF0824S401	9WG1248G102-E	9WP0824H402	
9WF0824S4D01	9WG1248H101-E	9WP0848S401	
9WF0924H201	9WG1248J101-E	9WP0848S401	
9WF0924H401	9WG1248J103-E	9WP0912F401	
9WF0924S201	9WG5748P5G001	9WP0924F401	
9WF1224H101	9WG5748P5G003	9WP0924F4D01	
9WF1224H1D01	9WG5748P5H001	9WP0924H401	
9WG1212E101-E	9WG5748P5H001	9WP0924S401	
9WG1212E102-E	9WG5748P5H003	9WP0924S4D01	
9WG1212G101-E	9WP0612D401	9WP1212H1011	
9WG1212G101-E	9WP0612D402	9WP1212H101	
9WG1212G102-E	9WP0612G401	9WP1212H101	
9WG1212H101-E	9WP0612H4011	9WP1212H1021	

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

## Domain Diagram



## Part 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>
<b>Type name / frame material</b> 109P / Plastics 109R / Plastics 9GA / Plastics 9S / Plastics 9GV / Plastics Aluminum 9GE / Aluminum 9G / Plastics 9A / Plastics 9SG / Aluminum 109E / Aluminum 9EC / Aluminum	<b>Frame size</b> 36: 36×36mm 03: 38×38mm 04: 40×40mm 05: 52×52mm 06: 60×60mm 08: 80×80mm 09: 92×92mm 12: 120×120mm 13: 127×127mm 14: 140×140mm 15: 150×150mm 17: φ172mm 47: φ172mm×147mm (sidecut) 57: φ172mm×150mm (sidecut) 20: φ200mm	<b>Voltage</b> 05: 5V 12: 12V 24: 24V 48: 48V etc	<b>Speed code</b> A,B,C,D,E,F,G,H,J,K, L,M,S,W etc	<b>Frame thickness</b> 0: 70mm 1: 38mm thick 2: 32mm thick 3: 28mm thick 4: 25mm thick 5: 50mm thick 51mm thick 6: 20mm thick 7: 15mm thick 9: 10mm thick	<b>Sensor specifications</b> 01 or 001: With a pulse sensor 02 or 002: Without a sensor D01 or D001: With a lock sensor	<b>Frame form</b> Nil: Plastics frame: Ribbed frame Aluminum frame: Ribless frame 1: Plastics frame: Ribless frame 3: 40×40×28mm for 1U applications Plastics frame

### Fans with PWM speed control function

Example :

<b>9GV</b>	<b>12</b>	<b>12</b>	<b>P</b>	<b>4</b>	<b>G</b>	<b>01</b>	
<b>Type name / frame material</b> 9GV / Plastics Aluminum	<b>Frame size</b> 12: 120×120mm	<b>Voltage</b> 12: 12V	<b>PWM speed control function</b>	<b>Frame thickness</b>	<b>Speed code</b>	<b>Individual customer's spec</b> 2 or 3 digits	<b>Frame form</b> Nil: Plastics frame: Ribbed frame Aluminum frame: Ribless frame



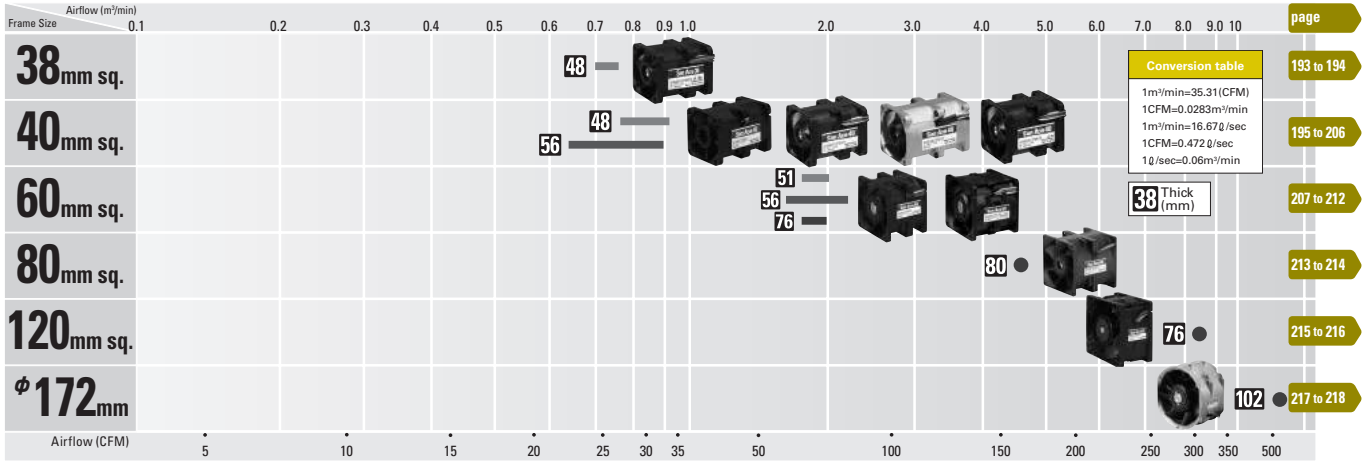
# Counter Rotating Fan

Counter rotating fans features high airflow and high static pressure.

**Related product**

Long Life Counter Rotating Fan ⇒ pp. 297, 303

**Domain Diagram**



**Part 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>
<b>Type name / frame material</b> 9CR / Plastics Aluminum 9CRA / Plastics 9CRB / Plastics 9CRE / Aluminum 9CRD / Plastics 9CRF / Plastics	<b>Frame size</b> 03 : 38×38mm 04 : 40×40mm 06 : 60×60mm 08 : 80×80mm 12 : 120×120mm 57 : φ172mm×150mm (sidecut)	<b>Voltage</b> 12 : 12V 48 : 48V	<b>Speed code</b> J,G,S,H,K etc	<b>Frame thickness</b> 0 : 76mm thick 4 : 48mm thick 5 : 56mm thick, 51mm thick 6 : 56mm thick 8 : 80mm thick 9 : 102mm thick	<b>Sensor specifications</b> 01 : With a pulse sensor 02 : Without a sensor D01 : With a lock sensor

**Fans with PWM speed control function**

Example :

<b>9CRA</b>	<b>03</b>	<b>12</b>	<b>P</b>	<b>4</b>	<b>K</b>	<b>03</b>
<b>Type name / frame material</b> 9CRA / Plastics	<b>Frame size</b> 03 : 38×38mm	<b>Voltage</b> 12 : 12V	<b>PWM speed control function</b>	<b>Frame thickness</b>	<b>Speed code</b>	<b>Individual customer's spec</b> 2 or 3 digits

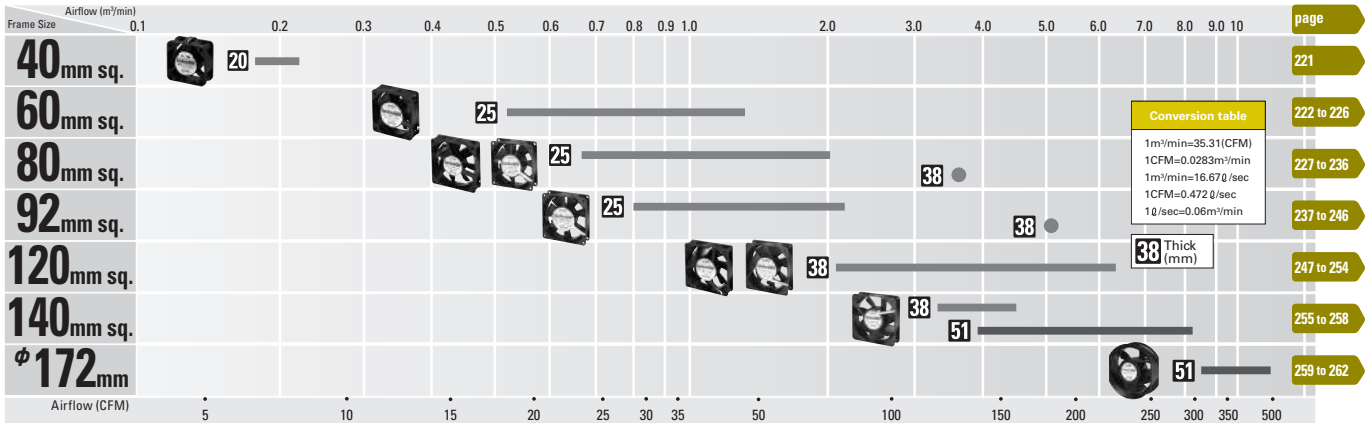
# Splash Proof Fan

Cooling fan of IP54, IP55 and IP68 waterproof capability.

## Related product

Splash Proof Centrifugal Fan ⇒ p. 264  
Oil Proof Fan ⇒ p. 274

## Domain Diagram



## Part Numbering System

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

<b>9WS</b>	<b>12</b>	<b>12</b>	<b>H</b>	<b>1</b>	<b>01</b>	
<b>Type name / frame material</b>	<b>Frame size</b>	<b>Voltage</b>	<b>Speed code</b>	<b>Frame thickness</b>	<b>Sensor specifications</b>	<b>Frame form</b>
109W / Aluminum 9WS / Plastics 9WE / Aluminum 9WG / Aluminum 9WB / Aluminum 9WP / Plastics 9WV / Plastics Aluminum 9WL / Aluminum	04 : 40×40mm 06 : 60×60mm 08 : 80×80mm 09 : 92×92mm 12 : 120×120mm 14 : 140×140mm 17 : φ172mm 57 : φ172mm×150mm (sidecut)	12 : 12V 24 : 24V 48 : 48V etc	A, D, E, F, G, H, J, L, M, S etc	1 : 38mm thick 4 : 25mm thick 5 : 51mm thick 6 : 20mm thick	01 : With a pulse sensor 02 : Without a sensor D01 : With a lock sensor	Nil : Plastics frame: Ribbed frame Aluminum frame: Ribless frame 1 : Plastics frame: Ribless frame

## Fans with PWM speed control function

Example :

<b>9WV</b>	<b>08</b>	<b>48</b>	<b>P</b>	<b>1</b>	<b>H</b>	<b>001</b>	
<b>Type name / frame material</b>	<b>Frame size</b>	<b>Voltage</b>	<b>PWM speed control function</b>	<b>Frame thickness</b>	<b>Speed code</b>	<b>Individual customer's spec</b>	<b>Frame form</b>
9WV / Plastics Aluminum	08 : 80×80mm	48 : 48V				2 or 3 digits	Nil : Plastics frame: Ribbed frame Aluminum frame: Ribless frame

## Ingress protection ratings (IP code)

■ IP Codes used by SANYO DENKI express the level of protection that internal electrical components (for fans: electrical components and motor coils) have against solid objects, water, and access to hazardous parts. San Ace Splash Proof fans feature high protection levels.

### Definition of Ingress Protection (IP Code)

Ingress Protection (IP Code) is defined in IEC (International Electrotechnical Commission) 60529\* DEGREES OF PROTECTION PROVIDED BY ENCLOSURES (IP Code). \*IEC 60529:2001

**I P X X**

Second digit: Protection against water  
First digit: Protection against solid objects and access to hazardous parts

\*For details, please refer to p. 410.

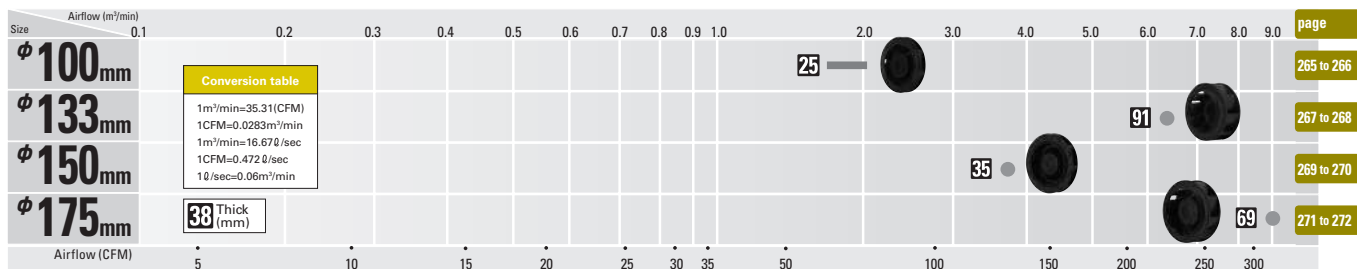
# Splash Proof Centrifugal Fan

Centrifugal fans of IP54 waterproof capability.

## Related product

Splash Proof Fan ⇒ p. 220 Centrifugal Fan ⇒ p. 326  
Oil Proof Fan ⇒ p. 274

## Domain Diagram



## Part 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>
<b>Type name / frame material</b> 9W1T / Aluminum	<b>Size</b> M : φ100mm J : φ133mm N : φ150mm G : φ175mm	<b>Voltage</b> 24 : 24V 48 : 48V	<b>PWM speed control function</b> P	<b>Frame thickness</b> 0 : 69mm thick MIN 1 : 35mm thick 4 : 25mm thick	<b>Speed code</b> H,G etc	<b>Individual customer's spec</b> 2 or 3 digits

## Ingress protection ratings (IP code)

■ IP Codes used by SANYO DENKI express the level of protection that internal electrical components (for fans: electrical components and motor coils) have against solid objects, water, and access to hazardous parts. San Ace Splash Proof Centrifugal fans feature high protection levels.

### Definition of Ingress Protection (IP Code)

Ingress Protection (IP Code) is defined in IEC (International Electrotechnical Commission) 60529\*  
DEGREES OF PROTECTION PROVIDED BY ENCLOSURES (IP Code). \*IEC 60529:2001

**I P X X**

Second digit: Protection against water

First digit: Protection against solid objects and access to hazardous parts

First digit	Definition
0	No protection
1	Protection against solid objects > 50 mm
2	Protection against solid objects > 12.5 mm
3	Protection against solid objects > 2.5 mm
4	Protection against solid objects > 1 mm
5	Protection against a level of dust that could hinder operation or impair safety
6	Complete protection against dust

Second digit	Definition
0	No protection
1	Protection against dripping water
2	Protection against water spray up to 15°
3	Protection against spraying water
4	Protection against splashing water
5	Protection against low pressure water jets
6	Protection against high pressure water jets
7	Protection against temporary immersion in water
8	Protection against submersion in water

# Oil Proof Fan

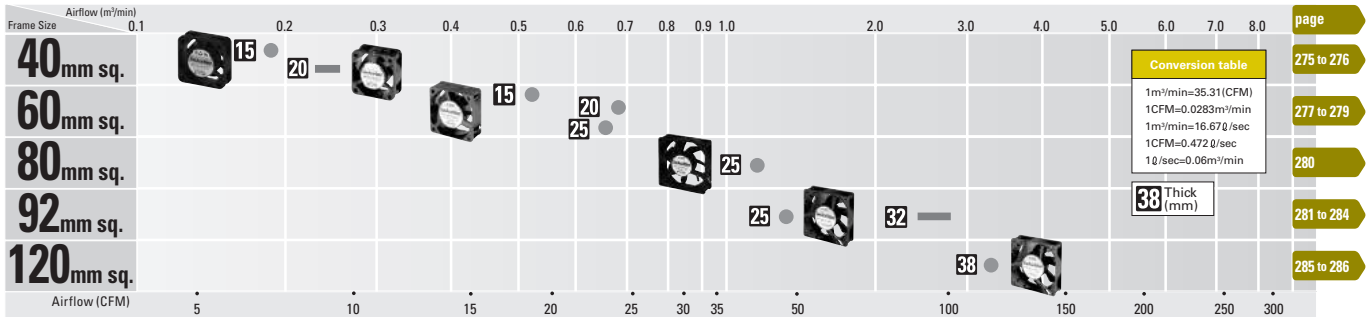
Cooling fan capable of operating in an oil-mist environment.

## Related product

Splash Proof Fan ⇒ p. 220

Splash Proof Centrifugal Fan ⇒ p. 264

## Domain Diagram



## Part Numbering System

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

<b>9WF</b>	<b>12</b>	<b>24</b>	<b>H</b>	<b>1</b>	<b>01</b>	
<b>Type name / frame material</b> 9WF / Plastics	<b>Frame size</b> 04 : 40×40mm 06 : 60×60mm 08 : 80×80mm 09 : 92×92mm 12 : 120×120mm	<b>Voltage</b> 24 : 24V	<b>Speed code</b> H	<b>Frame thickness</b> 1 : 38mm thick 2 : 32mm thick 4 : 25mm thick 6 : 20mm thick 7 : 15mm thick	<b>Sensor specifications</b> 01 : With a pulse sensor 02 : Without a sensor D01 : With a lock sensor	<b>Frame form</b> Nil : Ribbed frame

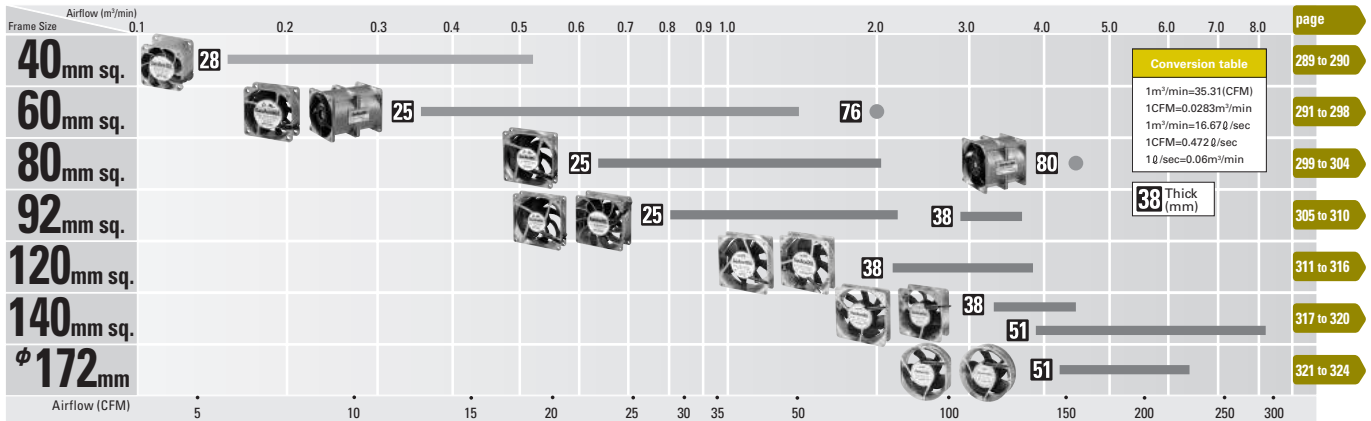
# Long Life Fan

Cooling fan with Max. 200,000 hours of expected life.

Related product

Splash Proof, Long Life Fan ⇒ pp. 222, 227, 237

## Domain Diagram



## Part Numbering System

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

<b>109L</b>	<b>12</b>	<b>12</b>	<b>H</b>	<b>1</b>	<b>01</b>
<b>Type name / frame material</b> 109L / Aluminum 9LB / Aluminum 9GL / Aluminum 9L / Aluminum 9LG / Aluminum	<b>Frame size</b> 04 : 40×40mm 06 : 60×60mm 08 : 80×80mm 09 : 92×92mm 12 : 120×120mm 14 : 140×140mm 17 : φ172mm 57 : φ172mm×150mm (sidecut)	<b>Voltage</b> 12 : 12V 24 : 24V 48 : 48V etc	<b>Speed code</b> E, F, G, H, J, L, M, S etc	<b>Frame thickness</b> 1 : 38mm thick 3 : 28mm thick 4 : 25mm thick 5 : 51mm thick	<b>Sensor specifications</b> 01 : With a pulse sensor 02 : Without a sensor D01 : With a lock sensor

### Fans with PWM speed control function

Example :

<b>9LG</b>	<b>06</b>	<b>12</b>	<b>P</b>	<b>4</b>	<b>S</b>	<b>001</b>
<b>Type name / frame material</b> 9LG / Aluminum	<b>Frame size</b> 06 : 60×60mm	<b>Voltage</b> 12 : 12V	<b>PWM speed control function</b>	<b>Frame thickness</b> 4 : 25mm thick	<b>Speed code</b>	<b>Individual customer's spec</b> 2 or 3 digits

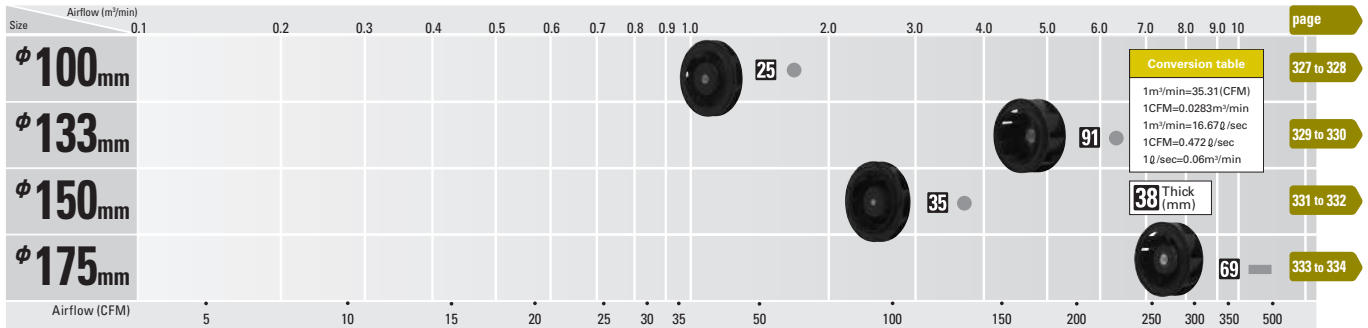
# Centrifugal Fan

Cooling fan blows air in a centrifugal course. It features high static pressure.

Related product

Splash Proof Centrifugal Fan ⇒ p. 264

## Domain Diagram



## Part Numbering System

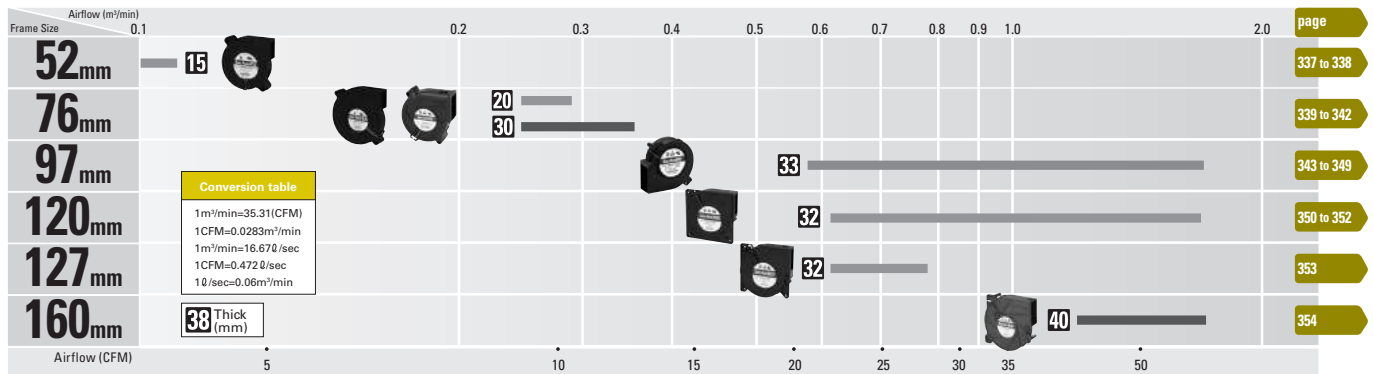
Not every combination of the following codes or characters is available. Contact us for an available combination.

<b>9T</b>	<b>M</b>	<b>48</b>	<b>P</b>	<b>4</b>	<b>H</b>	
<b>Type name / frame material</b> 9T / Aluminum	<b>Size</b> M: φ100mm J: φ133mm N: φ150mm G: φ175mm	<b>Voltage</b> 24: 24V 48: 48V	<b>PWM speed control function</b> P	<b>Frame thickness</b> 0: 69mm thick MIN 1: 35mm thick 4: 25mm thick	<b>Speed code</b> H, G etc	<b>Individual customer's spec</b> 2 or 3 digits

# Blower

Cooling fan specialized for high static pressure

## Domain Diagram



## Part Numbering System

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

<b>109B</b>	<b>F</b>	<b>12</b>	<b>H</b>	<b>C</b>	<b>2</b>
<b>Type name / frame material</b> 109B / Plastics 9B / Plastics	<b>Frame size</b> C : 52mm D : 76mm M : 97mm F : 120mm J : 127mm G : 160mm	<b>Voltage</b> 12 : 12V 24 : 24V etc	<b>Speed code</b> F,G,H,K,M,S etc	<b>Sensor specifications</b> A : Without a sensor C : With a pulse sensor D : With a lock sensor	<b>Frame thickness</b> 1 : 40mm thick 2 : 30mm thick, 32mm thick, 33mm thick 7 : 15mm thick 6 : 20mm thick

<b>9B</b>	<b>MB</b>	<b>12</b>	<b>G</b>	<b>2</b>	<b>01</b>
<b>Type name / frame material</b> 9B / Plastics	<b>Frame size</b> MB : 97mm FB : 120mm	<b>Voltage</b> 12 : 12V 24 : 24V	<b>Speed code</b> G / S / H etc	<b>Frame thickness</b> 2 : 32mm thick / 33mm thick	<b>Sensor specifications</b> 01 : With a pulse sensor 02 : Without a sensor

### Fans with PWM speed control function

Example :

<b>9B</b>	<b>MB</b>	<b>12</b>	<b>P</b>	<b>2</b>	<b>G</b>	<b>01</b>
<b>Type name / frame material</b> 9B / Plastics	<b>Frame size</b> MB : 97mm	<b>Voltage</b> 12 : 12V	<b>PWM speed control function</b>	<b>Frame thickness</b> 2 : 32mm thick / 33mm thick	<b>Speed code</b>	<b>Individual customer's spec</b> 2 or 3 digits

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QR код



9GT type

## Wide Temperature Range Fan DC

These fans achieve an operating temperature range of -40°C to +85°C. They operate in a wide temperature range, serving in various applications where conventional fans could not be used. They are suitable for refrigerators and freezers, lighting devices, communications devices, PV inverters, and rapid EV charging stations.

40mm sq. to 120mm sq.  
⇒pp. 359 to 370



9AD type

## ACDC Fan AC

This fan operates by internally converting AC power into DC power. It provides the superior performance of a DC fan with the flexibility of AC input.

92x92x38mm  
⇒pp. 413 to 416

120x120x38mm  
⇒pp. 417 to 420



9RF type

## Reversible Flow Fan DC

Multiple fans are usually used to blow air in both directions to ventilate houses, and to cool drink vending machines, and food display cases. With reversible flow fans, the wind direction can be switched so fewer fans are required.

φ136x28mm  
⇒pp. 243 to 244

