



FAN MOTORS & FAN BLADES

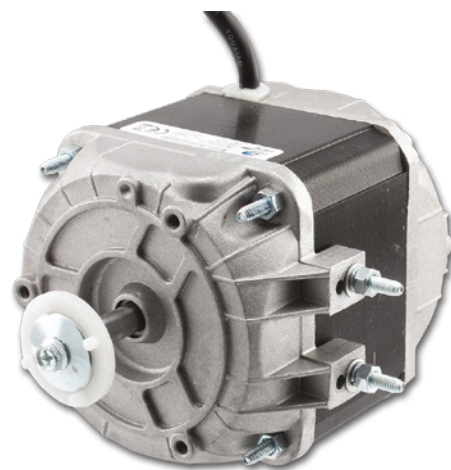


K
SECTION

Multi-Fit Fan Motors

Fan motor - CCW rotation with multiple choices for mounting.
 Individually boxed complete with fixings.
 3 tapped holes for front / rear mounting.
 Adjustable bolt-plate for base / top mounting on bracket.
 4 corner bolts for ring mounting.
 1000mm power cord for greater flexibility of installation.

CODE	MODEL	WATTAGE
K400	MF5	5
K401	MF7	7
K402	MF10	10
K403	MF16	16
K404	MF18	18
K405	MF25	25
K406	MF34	34



Elco Multi-Fit Fan Motors

Our N series motors are shaded pole motors with rated output power from 5 to 34 Watt, 4 pole, single-speed, sleeve bearings. All standard models are VDE, UL, CE or CSA approved and offer multiple mounting options, such as threaded holes drive end, threaded holes non-drive end, through bolts, side studs and brackets. CCW rotation, 500mm power cord.

CODE	MODEL	WATTAGE
K580	NET5T05ZVN001	5
K585	NET5T07ZVN001	7
K581	NET5T10ZVN001	10
K586	NET5T16ZVN001	16
K582	NET5T18PVN001	18
K583	NET5T25PVN001	25
K584	NET5T34PVN001	34



CODE	DESCRIPTION
K597	High Speed 18 Watt 2600rpm motor with capacitor

Mounting Brackets

Select the correct bracket and blade combination from the table on the next page.

CODE	TYPE	HEIGHT
K480	71882	52mm
K481	71883	72mm
K482	71884	84mm
K485	71887	109mm



Mounting Rings

Mounting rings in various sizes.
 Please select correct combination of blade and /or bracket from the table on the next page.

CODE	TYPE	BLADE Ø mm
K470	Ring-154	154
K471	Ring-172	172
K472	Ring-200	200
K473	Ring-230	230
K474	Ring-254	254

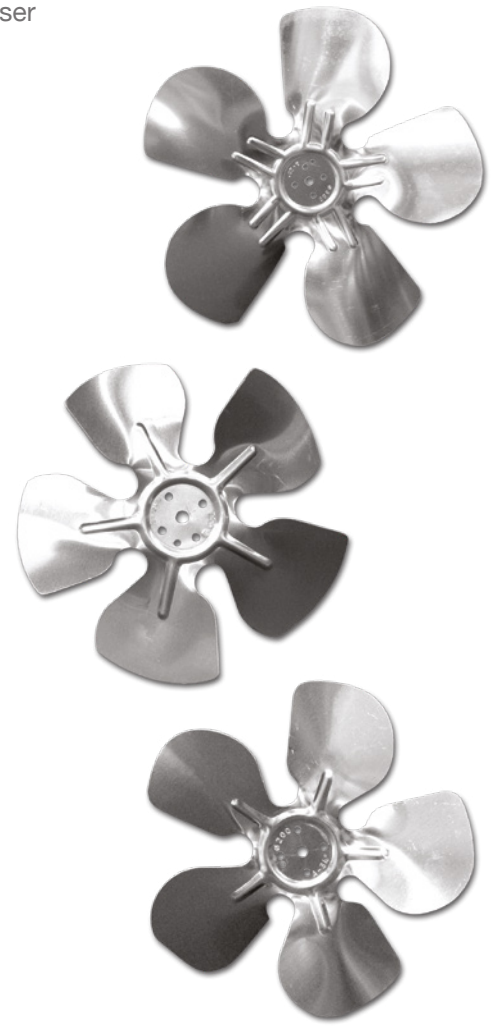


Fan Blades

One-piece aluminium fan blades to suit most types of motor. For condenser application (air over blade then over motor) use a clockwise (CW) blade with a counter-clockwise motor (CCW). All our multi-fit motors are CCW

Suckers

CODE	ROTATION	BLADE Ø mm	PITCH
K440	CW Blade	154	28°
K441	CW Blade	154	34°
K442	CW Blade	172	28°
K443	CW Blade	172	34°
K444	CW Blade	200	28°
K445	CW Blade	200	34°
K446	CW Blade	230	28°
K447	CW Blade	230	34°
K448	CW Blade	254	28°
K449	CW Blade	254	34°
K450	CW Blade	300	28°
K451	CW Blade	300	34°



Blowers

CODE	ROTATION	BLADE Ø mm	PITCH
K453	CCW Blade	154	28°
K454	CCW Blade	172	28°
K455	CCW Blade	200	28°
K456	CCW Blade	200	34°
K457	CCW Blade	254	28°
K458	CCW Blade	254	34°
K459	CCW Blade	300	28°
K460	CCW Blade	300	34°

Blade and Bracket Selection Chart

MOTOR	MAXIMUM BLADE	BRACKET
5 WATT	172mm 34°	71882
5 WATT	200mm 28°	71883
10 WATT	230mm 34°	71883
16 WATT	254mm 28°	71884
18 WATT	254mm 34°	71885
25 WATT	300mm 28°	71886
34 WATT	300mm 34°	71887

Motor Ring Assemblies

We offer a few common models already made up. If you require any other combination please select from the Individual components.

CODE	TYPE	WATTAGE	BLADE Ø mm
K430	5W-154	5	154
K431	5W-172	5	172
K432	7W-200	7	200
K143	7W-230	7	230
K433	10W-254	10	254
K434	16W-254	16	254



Tangential Fan Motor Assembly

Single Fan

CODE	MODEL	WATT	MOTOR POSITION
K150	ETD 6090.15	15	Right Hand Side
K151	ETD 60120.15	15	Right Hand Side
K152	ETD 60180.20	15	Right Hand Side
K175	TAS18-16	28	Left Hand Side
K153	ETD 60240.30	20	Right Hand Side
K154	ETD 60300.30	20	Right Hand Side



Double Fan

CODE	MODEL	WATT
K155	ETD 6090.20	20
K156	ETD 60120.20	20
K157	ETD 60180.30	30
K158	ETD 60240.30	30

Tangential Fan Specification

CODE	MODEL	LENGTH	AIR OFF DUCT
K150	ETD 6090.15	150mm	35mm x 98mm
K151	ETD 60120.15	180mm	35mm x 128mm
K152	ETD 60180.20	242mm	35mm x 185mm
K175	TAS18-16	180mm	35mm x 182mm
K153	ETD 60240.30	315mm	35mm x 248mm
K154	ETD 60300.30	375mm	35mm x 308mm
K155	ETC 6090.20	287 mm	2 x 35mm x 100mm
K156	ETC 60120.20	347 mm	2 x 35mm x 130mm
K157	ETC 60180.30	467mm	2 x 35mm x 190mm
K158	ETC 60240.30	587mm	2 x 35mm x 250mm

Axial Square Frame Fan Motors

Three different motors to choose from. The 2 x 120mm square motors are available either 25 or 38mm Thick. The 80 x 80mm is one thickness only (38mm).

CODE	SIZE (H x W x D)	CFM	VOLTAGE
K190	80 x 80 x 38	25/30	230V
K191	120 x 120 x 25	64/77	230V
K192	120 x 120 x 38	85/105	230V



Axial Square Frame Motor Power Lead

CODE	DESCRIPTION
K169	Power Lead to suit K191 & K192 Motors



Axial Square Frame Motor Fan Guard

CODE	DESCRIPTION
K198	120 x 120mm Metal Guard to suit K191 & K192 motors



Universal Round Fan Motor

7 Watt CCW round fan motor, with 4 thread protruding mounting bolts, 3 on the rear and 1 on the side of the motor.

Threaded shaft with nut and rubber mounting washer included.

CODE	TYPE	WATT	ROTATION
K060	GA27R	7	CCW



Cooleo Guard Mounted Axial Fan Motors

Cooleo YWF range of external rotor axial fan motors feature built in run capacitors. YWF guard mounted motors are compact easy to install and efficient. Available in 1ph 220V/50Hz or 3ph 380V/50Hz Airflow direction: choose from sucker or blower option. All Cooleo motors listed on this page are fitted with variable speed option. Motors can be speed controlled between 40 and 100% via suitable fan speed controller (not supplied).

220V/50Hz 1PH Suckers

CODE	MODEL	BLADE Ø	SPEED	VOLTAGE
K717	YWF4E-200-S	200mm	4 pole	1ph
K700	YWF4E-250-S	250mm	4 pole	1ph
K702	YWF4E-300-S	300mm	4 pole	1ph
K704	YWF4E-315-S	315mm	4 pole	1ph
K752	YWF4E-330-S	330mm	4 pole	1ph
K706	YWF4E-350-S	350mm	4 pole	1ph
K710	YWF4E-400-S	400mm	4 pole	1ph
K714	YWF4E-450-S	450mm	4 pole	1ph
K716	YWF4E-500-S	500mm	4 pole	1ph
K718	YWF4E-550-S	550mm	4 pole	1ph
K719	YWF4E-600-S	600mm	4 pole	1ph
K720	YWF4E-630-S	630mm	4 pole	1ph



220V/50Hz 1PH Blowers

CODE	MODEL	BLADE Ø	SPEED	VOLTAGE																			
K721	YWF4E-200-B	200mm	4 pole	1ph																			
K722	YWF4E-250-B	250mm	4 pole	1ph																			
K723	YWF4E-300-B	300mm	4 pole	1ph																			
K724	YWF4E-315-B	315mm	4 pole	1ph																			
K708	YWF4E-350-B	350mm	4 pole	1ph																			
K712	YWF4E-400-B	400mm	4 pole	1ph																			
K725	YWF4E-450-B	450mm	4 pole </tr <tr> <td>K726</td> <td>YWF4E-500-B</td> <td>500mm</td> <td>4 pole</td> <td>1ph</td> </tr> <tr> <td>K727</td> <td>YWF4E-550-B</td> <td>550mm</td> <td>4 pole</td> <td>1ph</td> </tr> <tr> <td>K728</td> <td>YWF4E-600-B</td> <td>600mm</td> <td>4 pole</td> <td>1ph</td> </tr> <tr> <td>K729</td> <td>YWF4E-630-B</td> <td>630mm</td> <td>4 pole</td> <td>1ph</td> </tr>	K726	YWF4E-500-B	500mm	4 pole	1ph	K727	YWF4E-550-B	550mm	4 pole	1ph	K728	YWF4E-600-B	600mm	4 pole	1ph	K729	YWF4E-630-B	630mm	4 pole	1ph
K726	YWF4E-500-B	500mm	4 pole	1ph																			
K727	YWF4E-550-B	550mm	4 pole	1ph																			
K728	YWF4E-600-B	600mm	4 pole	1ph																			
K729	YWF4E-630-B	630mm	4 pole	1ph																			



380V/50Hz 3PH Suckers

CODE	MODEL	BLADE Ø	SPEED	VOLTAGE
K730	YWF4D-200-S	200mm	4 pole	3ph
K731	YWF4D-250-S	250mm	4 pole	3ph
K732	YWF4D-300-S	300mm	4 pole	3ph
K733	YWF4D-315-S	315mm	4 pole	3ph
K734	YWF4D-350-S	350mm	4 pole	3ph
K735	YWF4D-400-S	400mm	4 pole	3ph
K736	YWF4D-450-S	450mm	4 pole	3ph
K737	YWF4D-500-S	500mm	4 pole	3ph
K738	YWF4D-550-S	550mm	4 pole	3ph
K739	YWF4D-600-S	600mm	4 pole	3ph
K740	YWF4D-630-S	630mm	4 pole	3ph



380V/50Hz 3PH Blowers

CODE	MODEL	BLADE Ø	SPEED	VOLTAGE
K741	YWF4D-200-B	200mm	4 pole	3ph
K742	YWF4D-250-B	250mm	4 pole	3ph
K743	YWF4D-300-B	300mm	4 pole	3ph
K744	YWF4D-315-B	315mm	4 pole	3ph
K745	YWF4D-350-B	350mm	4 pole	3ph
K746	YWF4D-400-B	400mm	4 pole	3ph
K747	YWF4D-450-B	450mm	4 pole	3ph
K748	YWF4D-500-B	500mm	4 pole	3ph
K749	YWF4D-550-B	550mm	4 pole	3ph
K750	YWF4D-600-B	600mm	4 pole	3ph
K751	YWF4D-630-B	630mm	4 pole	3ph



Remco Fan Motor and Blade Selection Guide

Table below shows details of Remco motors that fit some of the most common makes of evaporators and condensing units in the refrigeration industry.

Searle Replacement Motors & Blades

CODE	VOLTAGE	MOTOR	BLADE
ECL 45/65	1PH/3PH	K341/K343	K253
ECL 85	1PH/3PH	K341/K343	K252
ECL 120	1PH/3PH	K341/K343	K254
ECL 180	1PH/3PH	K360/K361	K256
ECL 240	1PH/3PH	K365/K366	K258
ECL 360/720	1PH/3PH	K377/K378	K259
K 45/120	1PH	K341	K251
K 45/120	3PH	K343	K251
K 180/360	1PH	K365	K255
K 180/360	3PH	K366	K255
KM	1PH	K362	-
KM	3PH	K363	-
SR MK1 (Screwed)	1PH	K322	-
SR MK2 (Plain)	1PH	K326	-
SU	1PH	K310	K218
T1, J1 AND J2	1PH	K310	K218
T2-T6, J3 AND J4	1PH	K318	K219
UCL	1PH	K330	K220
KS 10/15/20/25	1PH	K332	-
BC (All Models)	1PH	K332	-
DSR100	1PH	K332	-
DSR116	1PH	K332	-

Prestcold Replacement Motors

CODE	VOLTAGE	MOTOR	BLADE
25 Watt (54713-201)	1PH	K328	-
AS100/150	1PH	K350	-
AS375/ASR1500	3PH	K351	-
AS375/ASR1500	3PH	K379	-
27131/0134	1PH	K354	-
27130/0122	3PH	K355	-

Maneuropo Replacement Motor

CODE	VOLTAGE	MOTOR	BLADE
Y, A & B Condensers	1PH	K338	-

Contardo Replacement Motor

CODE	VOLTAGE	MOTOR	BLADE
G90	1PH	K339	-

Foster Replacement Motor

CODE	VOLTAGE	MOTOR	BLADE
High Speed Motor	1PH	K329	-

Please Note: The above tables are for guidance only and does not necessarily indicate a direct replacement.



K341



K362



K318



K350

Remco Electric Motors

CODE	MODEL	OUTPUT	ROTATION	SHAFT	MOUNTING **
K300	33-4-5AF-BKT18	5 Watt	CCW	Threaded	A
K301	33-4-5CF-BKT18	5	CW	Threaded	A
K302	33-4-7AF-BKT18	7	CCW	Threaded	A
K310	33-2-7A1	7	CCW	1/2"	B
K315	33-4-12AF	12	CCW	Threaded	C
K316	33-4-12CF	12	CW	1/2"	C
K318	33-4-15A1	15	CCW	5-1/6"	B
K322	33-4-18AFL	18	CCW	Threaded	C
K323	33-4-18CFL	18	CW	Threaded	C
K326	33-4-18A	18	CCW	5-1/6"	D
K328	33-4-25A3	25	CCW	5-1/6"	D
K329	33-2-33RF	33	REV	Threaded	C
K330	33-2-35A	35	CCW	5-1/6"	C
K331	35-2-75AB	75	CCW	5-1/6"	J
K332	35-4-70AL	70	CCW	12mm	L
K336	35-4-75R1	75	REV	5-1/6"	H
K339	48-4-90AG	90	CCW	1/2"	I
K341	48-4-90AR	90	CCW	1/2"	E
K343	48-4-90AR-3P	90-3PH	CCW	1/2"	E
K344	48-4-90-AB-FT	90-1PH	CCW	1/2"	H
K350	48-4-125A	125-1PH	CCW	1/2"	F
K351	48-4-125-3P	125-3PH	REV	1/2"	F
K354	48-6-180AB	180-1PH	CCW	1/2"	K
K355	48-6-180-3PB	180-3PH	CCW	1/2"	K
K360	60-4-180RB1P/R	180-1PH	REV	5/8"	E
K361	55-4-180RB3P/R	180-3PH	REV	5/8"	E
K362	63-4-200AB	200-1PH	REV	12mm	H
K363	63-4-2003PB	200-3PH	REV	12mm	H
K365	60-4-250RB1P/R	250-1PH	REV	5/8"	E
K366	55-4-250RB3P/R	250-3PH	REV	5/8"	E
K375	60-4-370RIP/R	370-1PH	REV	1/2"	E
K377	60-4-550RB1P/R	550-1PH	REV	5/8"	E
K378	55-4-550RB3P/R	550-3PH	REV	5/8"	E
K379	60-6-550RB3P/R	550-3PH	REV	5/8"	E

** Mountings:

A	3 Rear fixings on 2.81" PCD 2 Pin base mounting
B	2 M4 extended bolts 0.50" long on 2.84" PCD rear
C	3 Rear fixings on 2.81" PCD
D	3 Rear and 3 front fixings on 2.81" PCD
E	Cradle and 4 mounting pads (Spider)
F	Cradle
G	Spider (To suit Maneurop)
H	Foot mounting
I	3 Rear fixings on 113.4mm PCD
J	4 Rear and 4 front fixings on 67.5mm PCD
K	Clamp in fan guard
L	4 Lugs to rear of motor



K332

Shaft Sleeves

To convert plain shafts up to next diameter.

CODE	TYPE	SIZE
K390	SS 45	1/4 to 5/16
K391	SS 56	5/16 to 3/8
K392	SS 68	3/8 to 1/2
K393	SS 810	1/2 to 5/8



Aluminium Fan Blades

Clockwise Fan Blade with Hub

CODE	BLADE Ø INCH	DESCRIPTION*
K218	5-1/2	-4B-32-CW-RH-1/4
K219	9	-5B-31 CW-RH-8mm
K220	10	-5B-12-CW-RH-8mm
K221	10	-4B-24-CW-FH-8mm
K222	10	-4B-36-CW-FH-12mm
K223	12	-4B-31-CW-RH-8mm
K224	12	-4B-31-CW-FH-1/2
K225	14	-4B-31-CW-FH-1/2
K226	15	-4B-31-CW-FH-1/2
K227	15	-4B-31-CW-FH-5/8
K228	16	-4B-31-CW-FH-5/8
K229	18	-4B-31-CW-FH-5/8



Counter Clockwise Fan Blade with Hub

CODE	BLADE Ø INCH	DESCRIPTION*
K250	12	-4B-31-CCW-RH-8mm
K251	12	-4B-36-CCW-FH-1/2
K252	12	-4B-32-CCW-RH-1/2
K253	12	-4B-40-CCW-RH-1/2
K254	14	-4B-24-CCW-RH-1/2
K255	15	-4B-40-CCW-RH-5/8
K256	15	-4B-32-CCW-RH-5/8
K257	16	-4B-32-CCW-RH-5/8
K258	18	-4B-24-CCW-RH-5/8
K259	22	-4B-16-CCW-RH-5/8

*Description Explanation: Taking the K259 as an example, 22 = Diameter of Blade in inches, 4B = Four Blade, 16 = Pitch of Blades in Degrees, CCW = Counter Clockwise Rotation, RH = Rear Hub, (FH = Front Hub) 5/8 = Hub Bore.

Supco Open Wound Fan Motor Kits

Supco SM-998 Evaporator fan universal motor kit 230 volt 3000 RPM, rotation (reversible): CW/CCW break off 2" long motor shaft with breakaways at 1/2" and 1-1/2".

Supco SM-672 Evaporator Fan universal motor kit 240 volt, 3000 RPM, rotation (reversible): CW/CCW motor shaft dimensions: 1-1/4" long x 3/16" diameter kit includes: 2 blades, 1 x 4" & 1 x 5-1/4" and mounting accessories.

CODE	MODEL	BLADE/S INCLUDED
K030	SM-998	No
K032	SM-672	Yes (x 2)



Image shows SM-672 Kit which includes 2 blades

Open Wound Fan Motors Blades and Bracket

MA-VIB Open Wound Fan Motors

CODE	MODEL	ROTATION	OUTPUT WATTS
K098	E1.5A	CCW	1.5
K099	E2A	CCW	2.0

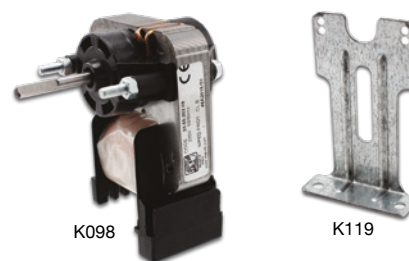
MA-VIB Open Wound Motor Bracket

CODE	DESCRIPTION
K119	Metal Bracket to suit E1.5A & E2A MA-VIB Motors Listed above.

MA-VIB Open Wound Fan Motor Blades

3 Different sizes of aluminium blades ALL with hub and grub screw. To suit our range of MA-VIB motor listed above.

CODE	BLADE Ø mm	TO SUIT MOTOR MODELS
K127	100	E1.5A
K128	130	E1.5A & E2A
K129	154	E2A



Airflow Explained!

On this page we have attempted to demonstrate how the direction of airflow created by a fan may be changed by the manner in which it is fitted to a motor shaft.

Remember, fans are normally described as being clockwise or anticlockwise.

The easy way to tell which rotation fan you have is to lay it on a flat surface with one blade approximately at 12 o'clock. If the **right** hand edge of that blade is touching the table, then it is a **clockwise** fan, If the **left** hand edge of the fan touches the table, then it is an

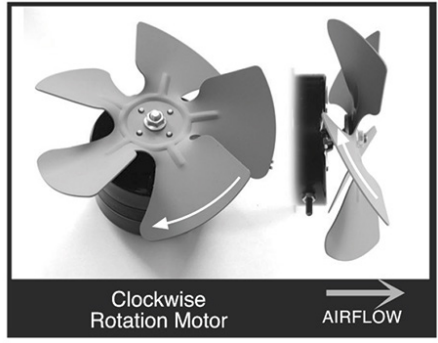
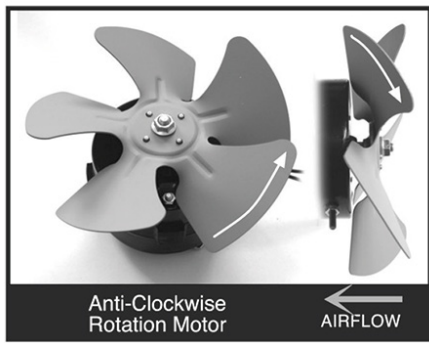
anticlockwise fan.

Turning the fan over makes no difference to which edge touches the table.

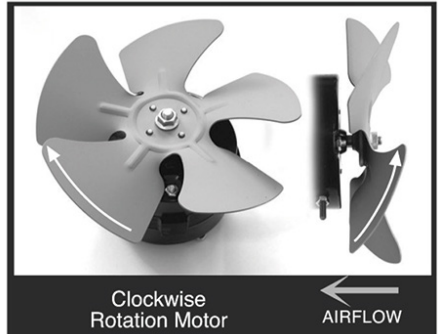
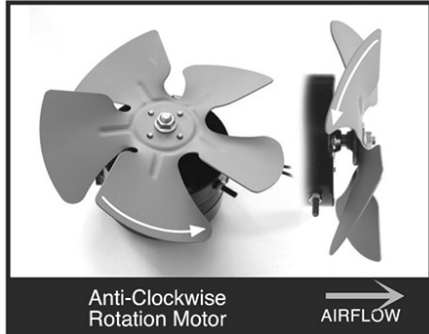
For one piece fans we show below four illustrations showing the air flow direction for both clockwise and anti-clockwise fans fitted to motors both with clockwise and anticlockwise rotation, looking on the shaft end.

Remember also that a fan runs correctly when the concave sides of the fan blades are facing the direction of rotation.

One piece 5 bladed fans with hubless fan drives for use on small refrigeration motors. (clockwise fan)

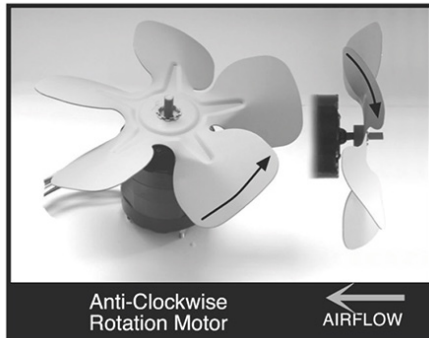


One piece 5 bladed fans with hubless fan drives for use on small refrigeration motors. (anticlockwise fan)

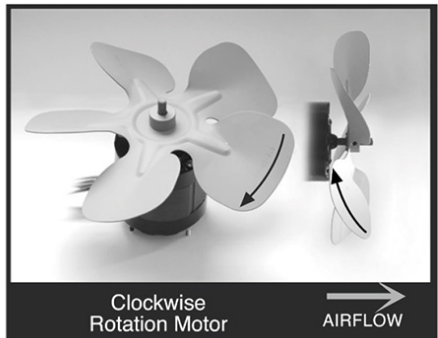


To the right we show the same relationships, but for bladed fans with hubs. Here, when describing a fan requirement, it is useful also to add whether the fan is fixed to the motor shaft with the fan hub to the front, i.e. on the opposite side of the fan to the motor, or with the fan hub to the rear, i.e. on the same side of the fan as the motor. The same rules for clockwise and anticlockwise fans apply as above.

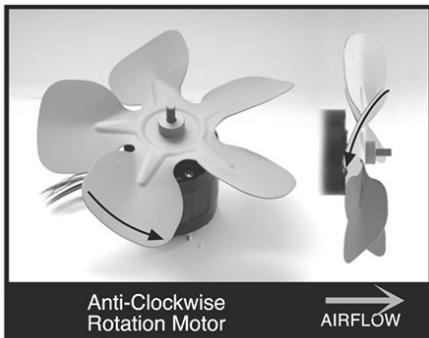
CW Fan - Rear Hub



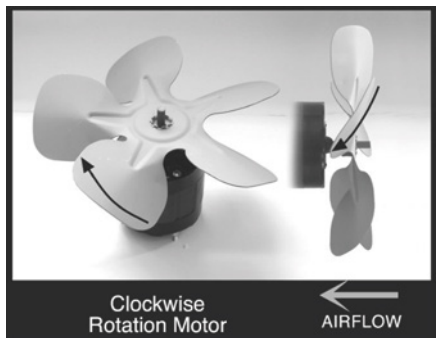
CW Fan - Front Hub



ACW Fan - Front Hub



ACW Fan - Rear Hub





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