Based on the axial flow fan selected on previous page, the following steps will determine its motor size, casing length and how to order.

How to select the correct motor size

1 Refer to table 2 on page O-11 for full motor details on standard three-phase motors.

2 Select fan speed column (24 rev/sec) based on fan selected.

3 Go down column until motor power (kW) is greater than fan impeller absorbed power (0.65 kW).

4 Motor performance data is shown in the same row.

5 The motor frame size in this case will be $D80_B$.

Motor Frame	Motor Shaft Dia.	App. wt. kg**	2 Pole* 48 rev/sec kW#	FLA	LRC	Eff%†	4 Pole* 24 rev/sec kW#	FLA	LRC	Eff%†	6 Pole* 16 rev/sec kW#	FLA	LRC	Eff%†	8 Pole* 12 rev/sec kW#	FLA	LRC	Eff%†
$D71_B$	14	11	0.37	0.9	6.1	67.7	0.37	1.0	4.1	69.3	-	-	-	-	-	-	-	-
D71	14	16	0.55	1.3	6.1	76.0	-	-	-	-	-	-	-	-	-	-	-	-
$D80_A$	19	18	0.75	1.5	7.0	83.4	0.55	1.4	4.8	72.8	0.37	1.1	2.8	66.5	-	-	-	-
$D80_B$	19	22	1.1	2.2	7.3	84.4	0.75	1.9	7.5	82.2	0.55	1.7	3.1	68.2	-	-	-	-

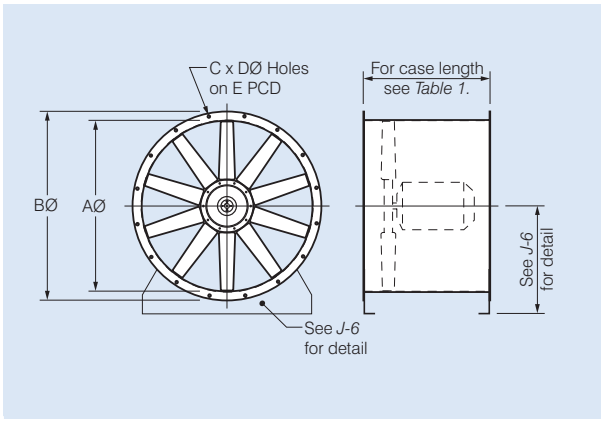
How to determine the fan casing length

1 Refer to table 1 on page C-26 for full case dimension details.

2 Find fan type/model column (AP/APS).

3 Find motor frame size as selected in table above.

4 Casing length is determined where the fan type/model column intersects the motor frame size row.



Motor frame size	Casing length,mm AP/APS	APV	APB
D71	300	400	400
D80	400	400	400

How to order

Based on the details determined on these two pages the axial flow fan can be ordered using the how to order chart below. In this case the product code will be **AP0634AA5/20**

AP 0 6 3 4 A - A 5 / 20

- AP Series - *direct-drive*
- APH Series - *direct-drive horizontal hangers*
- APV Series - *direct-drive vertical mounted*
- APS Series - *direct-drive smoke-spill*
- APB Series - *belt drive*
- BFA Series - *bifurcated direct-drive*

Fan diameter in cm

Fan speed, no. of poles

Hub diameter code
A = 150 F = 550
B = 250 G = 255
C = 350 J = 131
D = 400 K = 181
L = 251

Aluminium blades, A
GRP, P
Nylon, N
Antistatic blades, E

No. of blades

Blade pitch angle, deg.

The Fans by Fantech Selection Program is the simplest way to complete a fan selection and generate the product code. It will also providing all options, performance details and dimensional information.

More sophisticated products such as APPM, APEC and products with Guidevanes, can only be selected using the program.

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