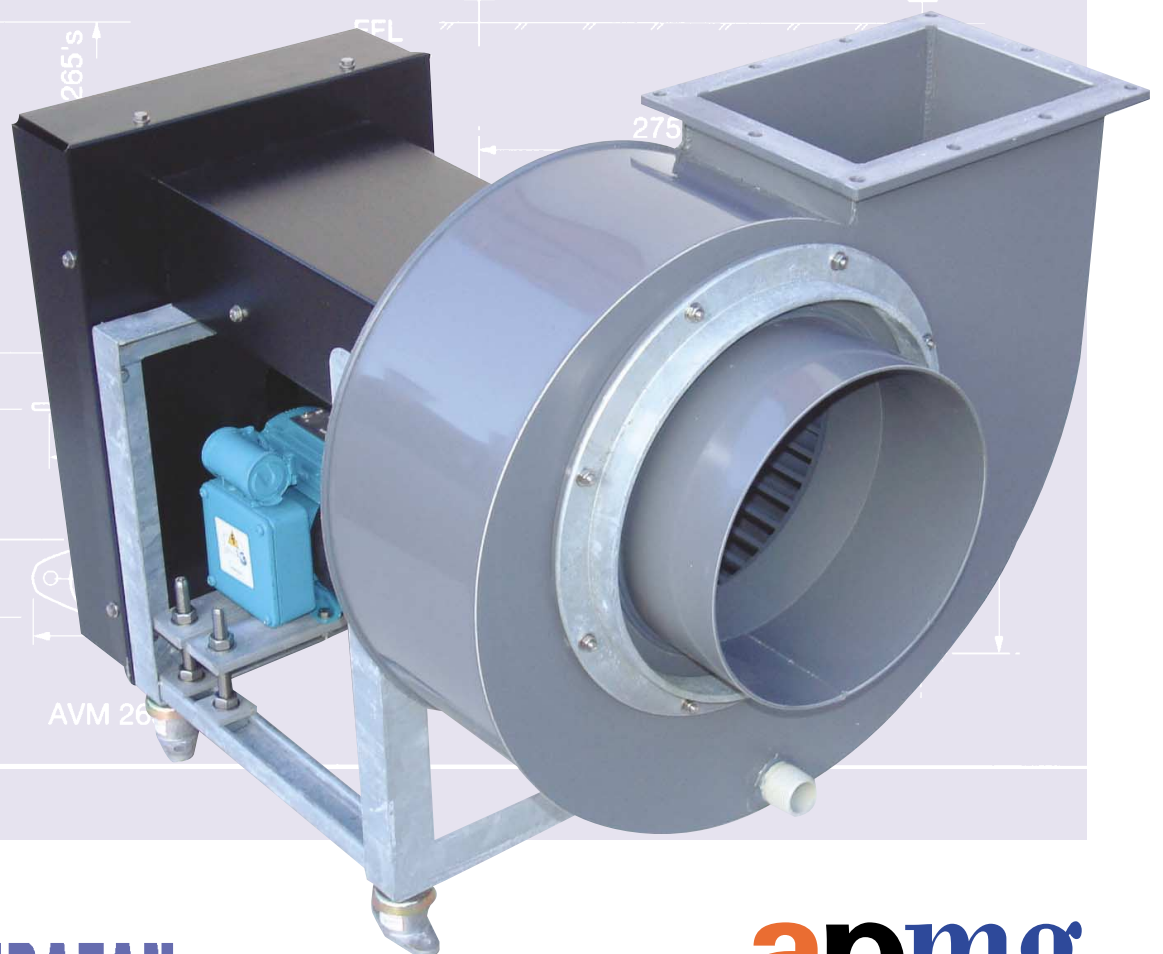


Gseries

Centrifugal Fans



G Series Specification

Fan Casing

Fabricated from Polypropylene.

Impeller

Forward curved multivane, polypropylene.

Pedestal

Standard rolled steel sections with hot dipped galvanised finish.

Motors

Brook Crompton or equal, all in compliance with B.S. 5000 and B.S. 4999, with standard motors to IP55 which can be upgraded to suit customers specification.

Bearings

SKF or equal, double row, self aligning ball.

Drives

Fenner or equal.

Fixings

Stainless steel throughout.

Anti-vibration Mountings

AVA or equal, rubber in aluminium with option of spring mounts.

Drive Arrangement

Standard V belt or direct driven.

The materials of construction are chosen according to their application and resistance to chemical attack. Please provide full details at tender stage.

Advice should be sought if air temperatures are likely to exceed 25°C.

Performance curves based on tests carried out in accordance with BS 848: Part 1, 1980, Fig 28 (d).

Fan Weights

Indirect

Size	Fan speed (r.p.m.)	Motor	Mass Kg.			
			Fan	Motor	Drive	Total
AP200 G3	700-1200	D71	32	6	2	40
	1200-2000	D90S		13		47
	2000-3000			13		47
AP250 G3	700-1200	D80	40	10	3	53
	1200-1900	D90S		13		56
	1900-2600	D100L		23		66
AP315 G3	700-1200	D100L	60	23	4	87
	1200-1600	D112M		32		96
	1600-2000			32		96
AP400 G3	700-1100	D100L	91	23	4	118
	1100-1300	D112M		32		119
	1300-1450			32		128

Direct

Size	Polarity	Motor	Mass kg.				
			Fan	Motor		T	
				T.E.F.C.	FProof.	T.E.F.C.	FProof.
AP160 G4	6	D80	11	10		21	
	4 & 2	D71		6		17	
AP200 G4	6	D80	16	10	15	26	31
	4	D71		6	18	22	34
	2	D90L		15	34	31	50
AP250 G4	6	D80	21	10	30	31	51
	4	D112M		21	59	42	80
AP315 G4	6	D90S	35	13	30	51	68
	4	D100L		23	44	61	82
AP400 G4	6	D112M	47	32	59	83	110
	4						

Motor Weight

Motor Frame														
71	80	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L	200	225S	225M
Weight kg														
6	10	13	15	23	32	45	53	87	106	133	144	195	250	280

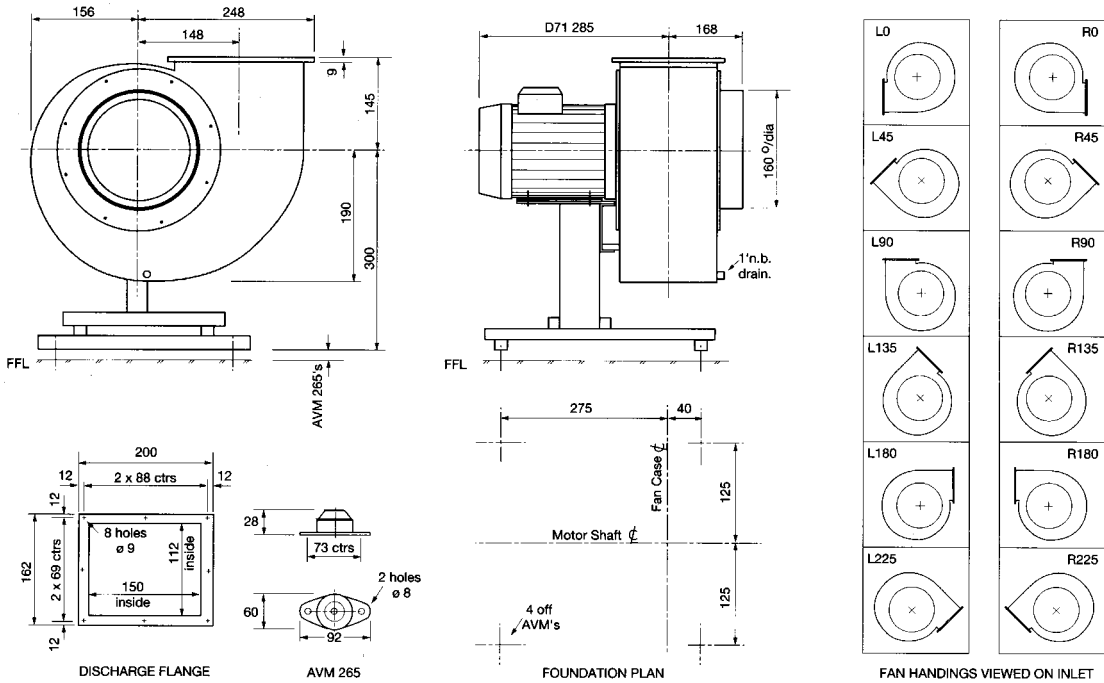
APMG Limited operate a programme of continuous development and we reserve the right to change design, construction and dimensions without prior notice

G Series Centrifugal Fan

AP 160 G4

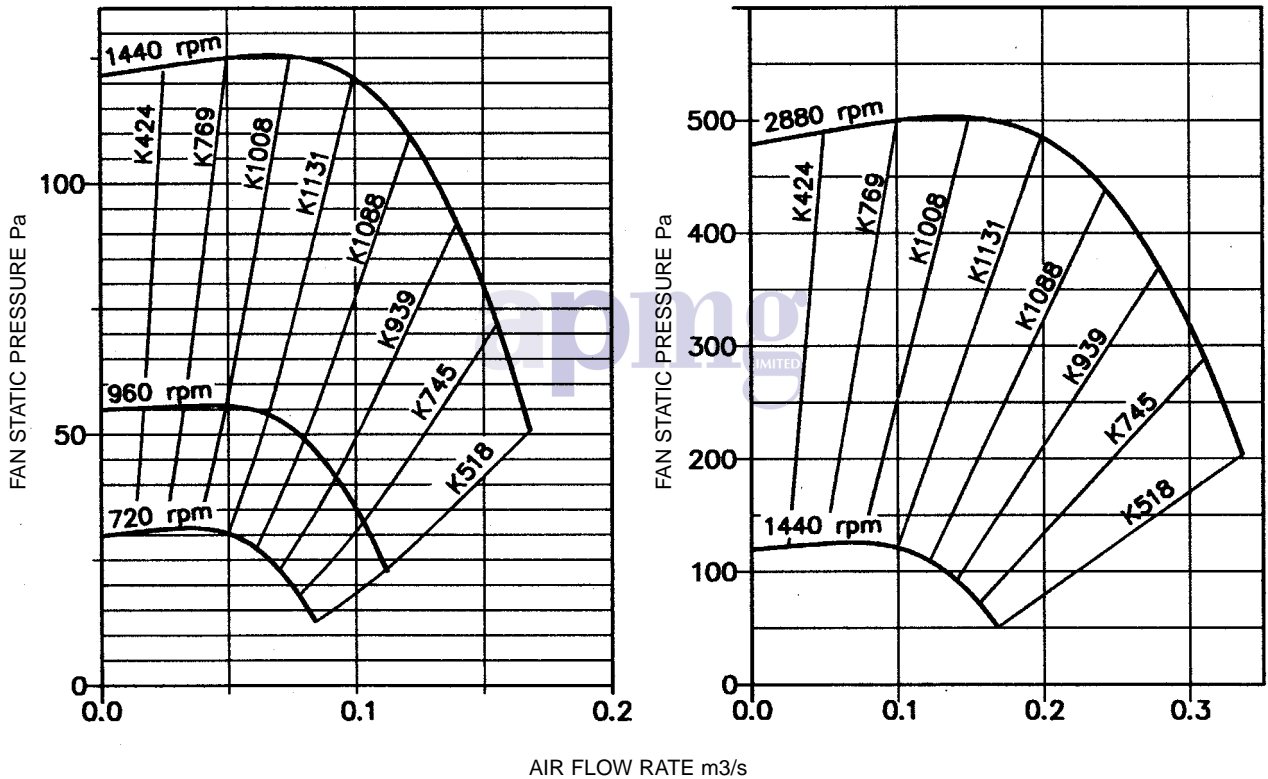
MULTI-VANE FAN

DIRECT DRIVE



AP 160 G4

FAN CHARACTERISTIC CURVE



To calculate the Power Absorbed:-
Plot the fan duty point onto the curves
and interpolate the relevant 'K' factor.

Then:-
$$kW = \frac{6.35 \times m^3/s \times Pa}{K}$$

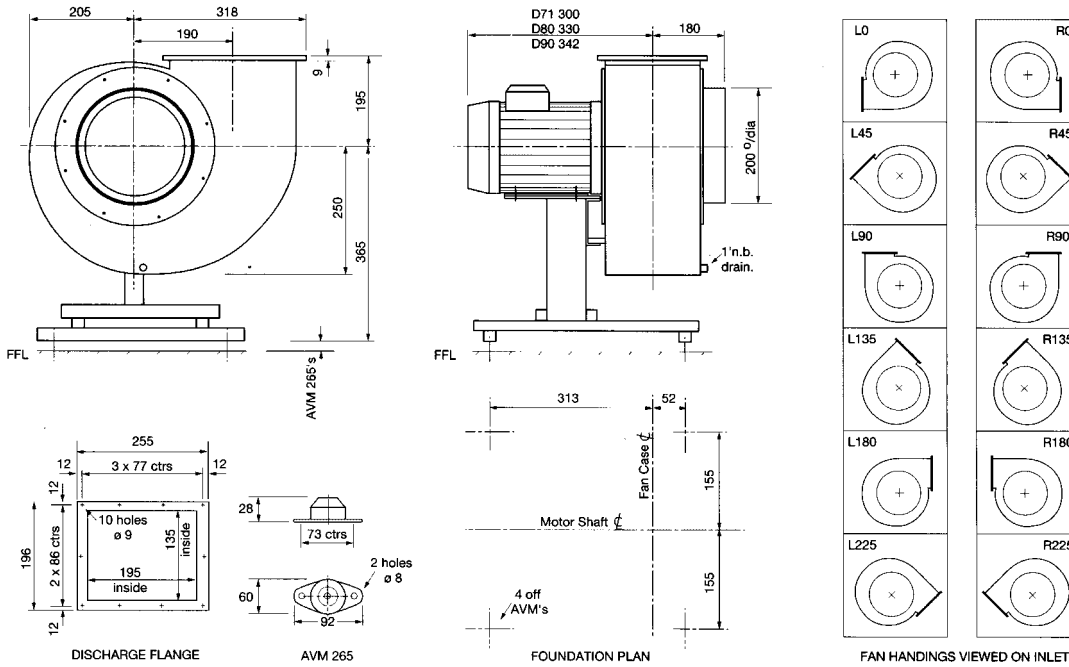
To compensate for belt and bearing loss
multiply the result by 1.2.

G Series Centrifugal Fan

AP 200 G4

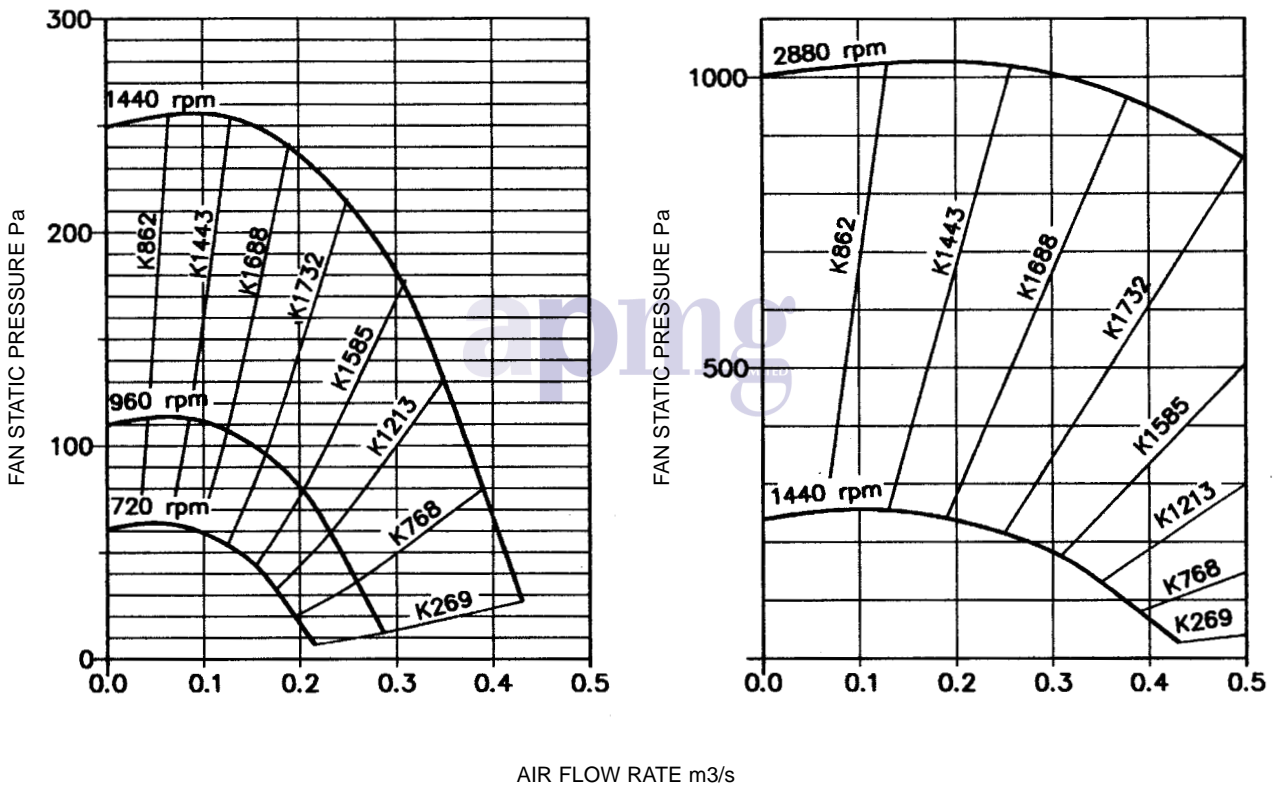
MULTI-VANE FAN

DIRECT DRIVE



AP 200 G4

FAN CHARACTERISTIC CURVE



To calculate the Power Absorbed:-
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Then:-
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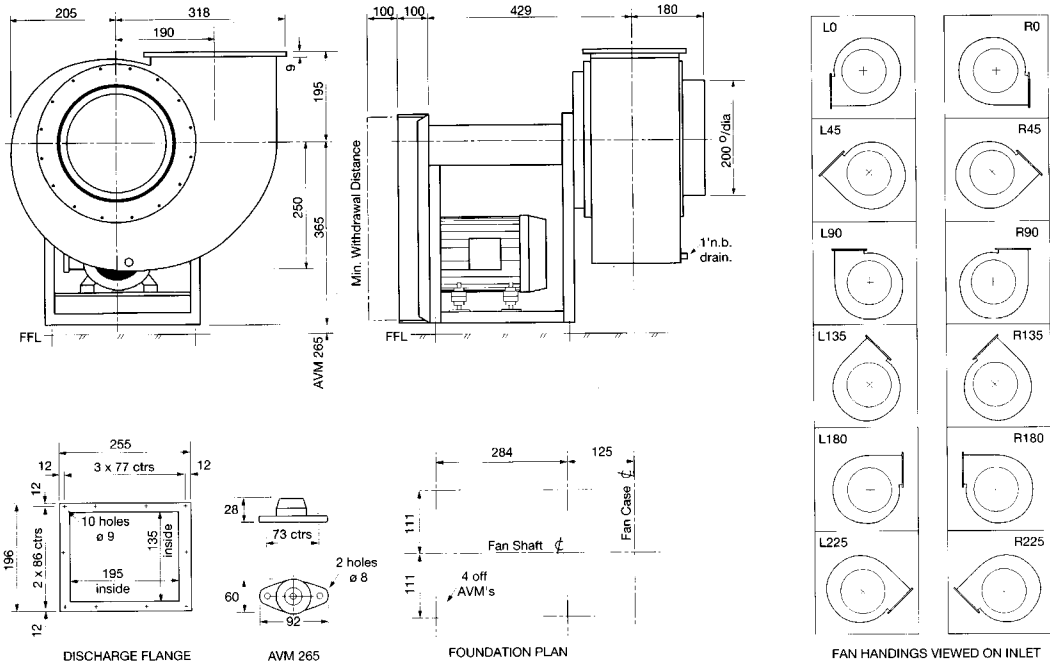
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G Series Centrifugal Fan

AP 200 G3

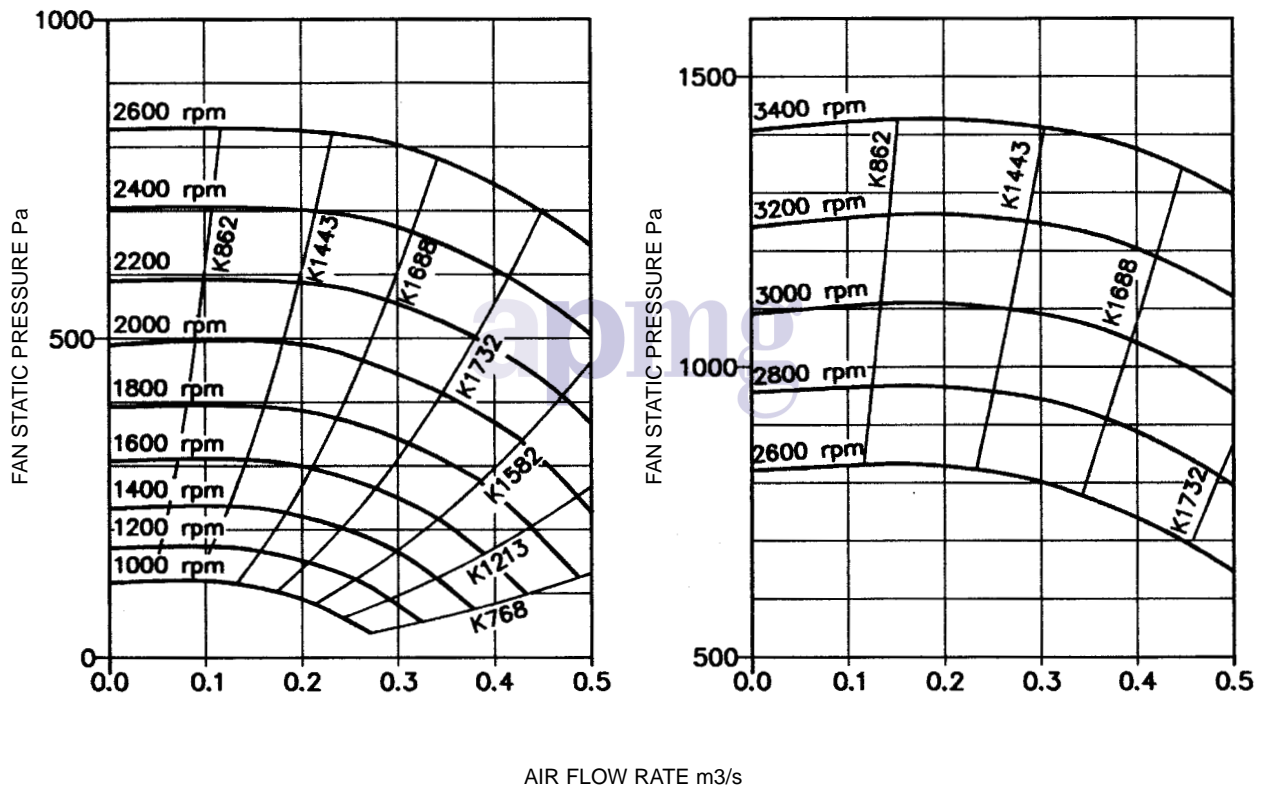
MULTI-VANE FAN

INDIRECT DRIVE



AP 200 G3

FAN CHARACTERISTIC CURVE



To calculate the Power Absorbed:-
Plot the fan duty point onto the curves
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Then:-
$$kW = \frac{6.35 \times m^3/s \times Pa}{K}$$

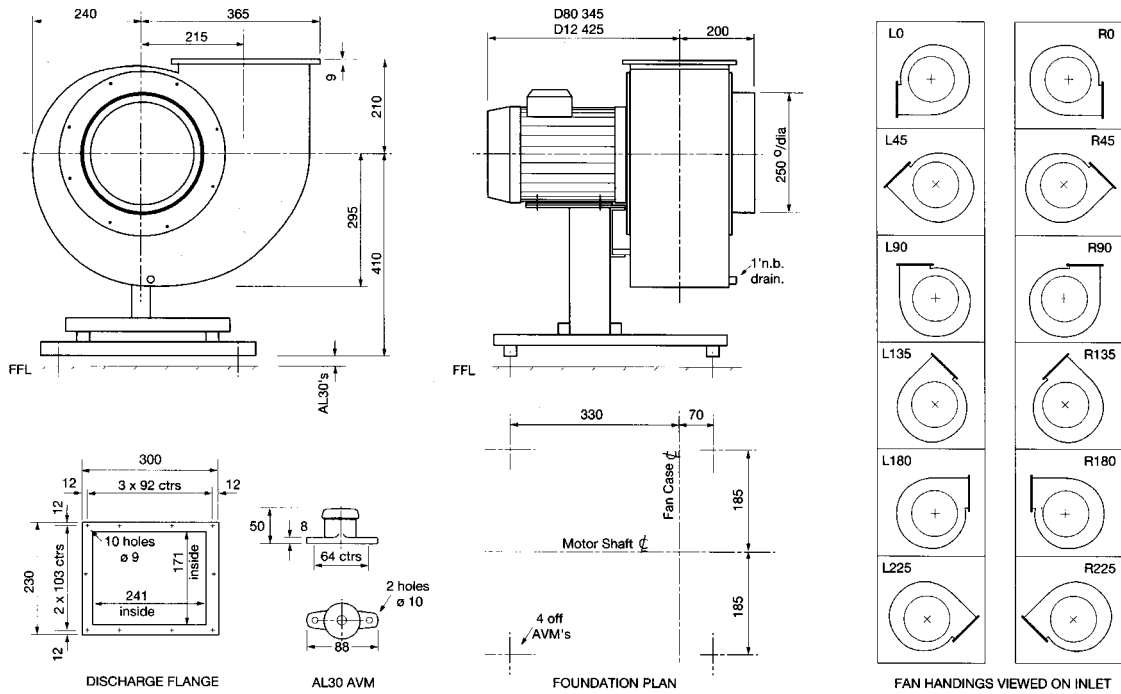
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multiply the result by 1.2.

G Series Centrifugal Fan

AP 250 G4

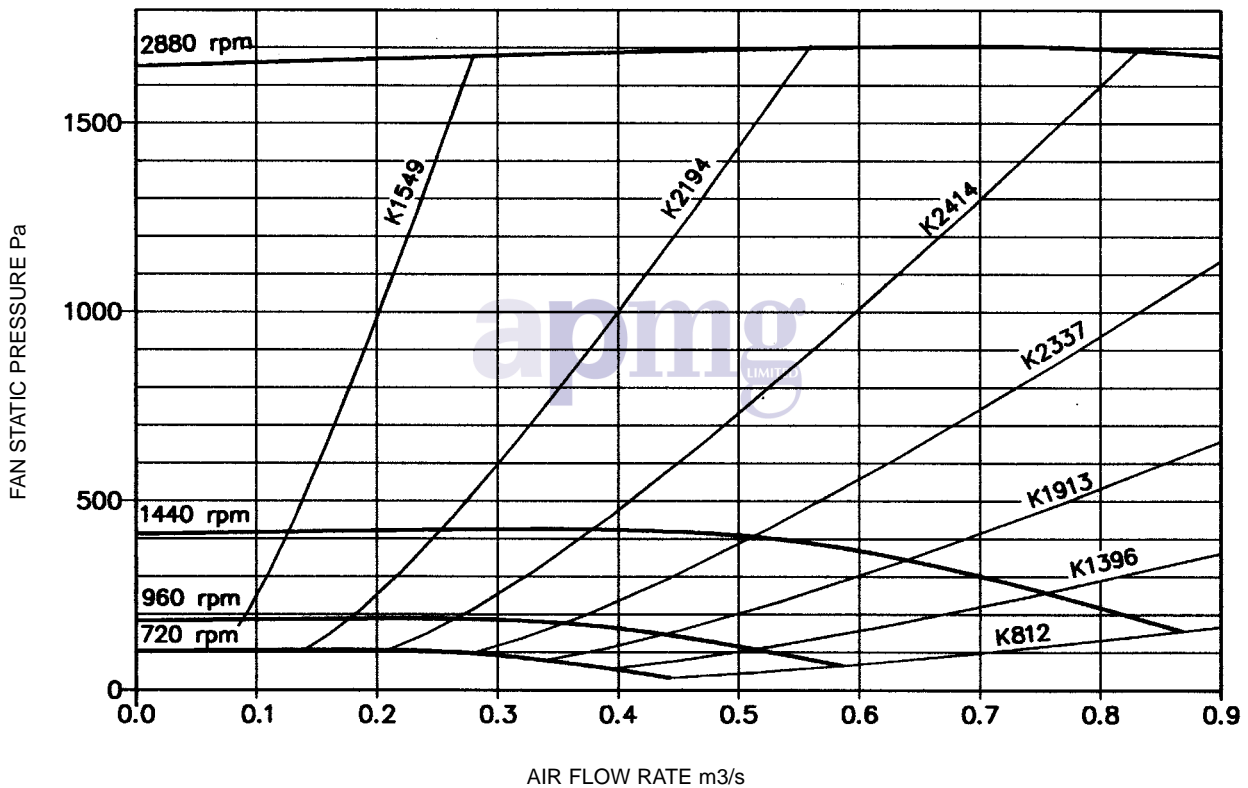
MULTI-VANE FAN

DIRECT DRIVE



AP 250 G4

FAN CHARACTERISTIC CURVE



To calculate the Power Absorbed:-
Plot the fan duty point onto the curves
and interpolate the relevant 'K' factor.

Then:-
$$kW = \frac{6.35 \times m^3/s \times Pa}{K}$$

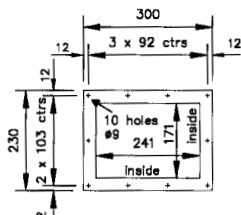
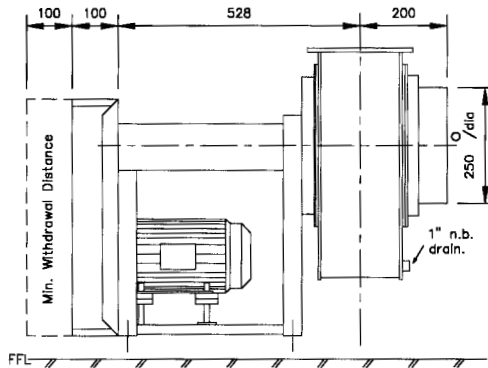
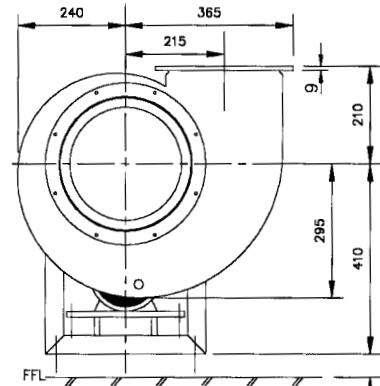
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multiply the result by 1.2.

G Series Centrifugal Fan

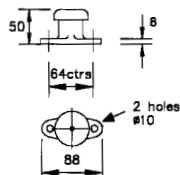
AP 250 G3

MULTI-VANE FAN

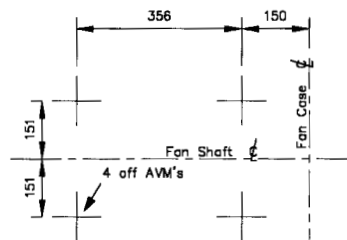
INDIRECT DRIVE



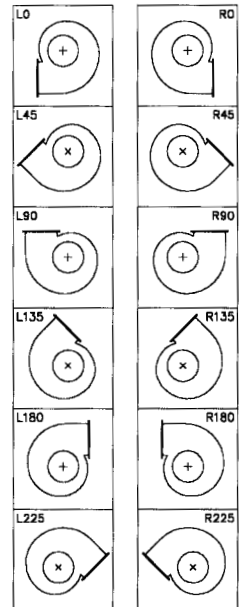
DISCHARGE FLANGE



AL30 AVM



FOUNDATION PLAN

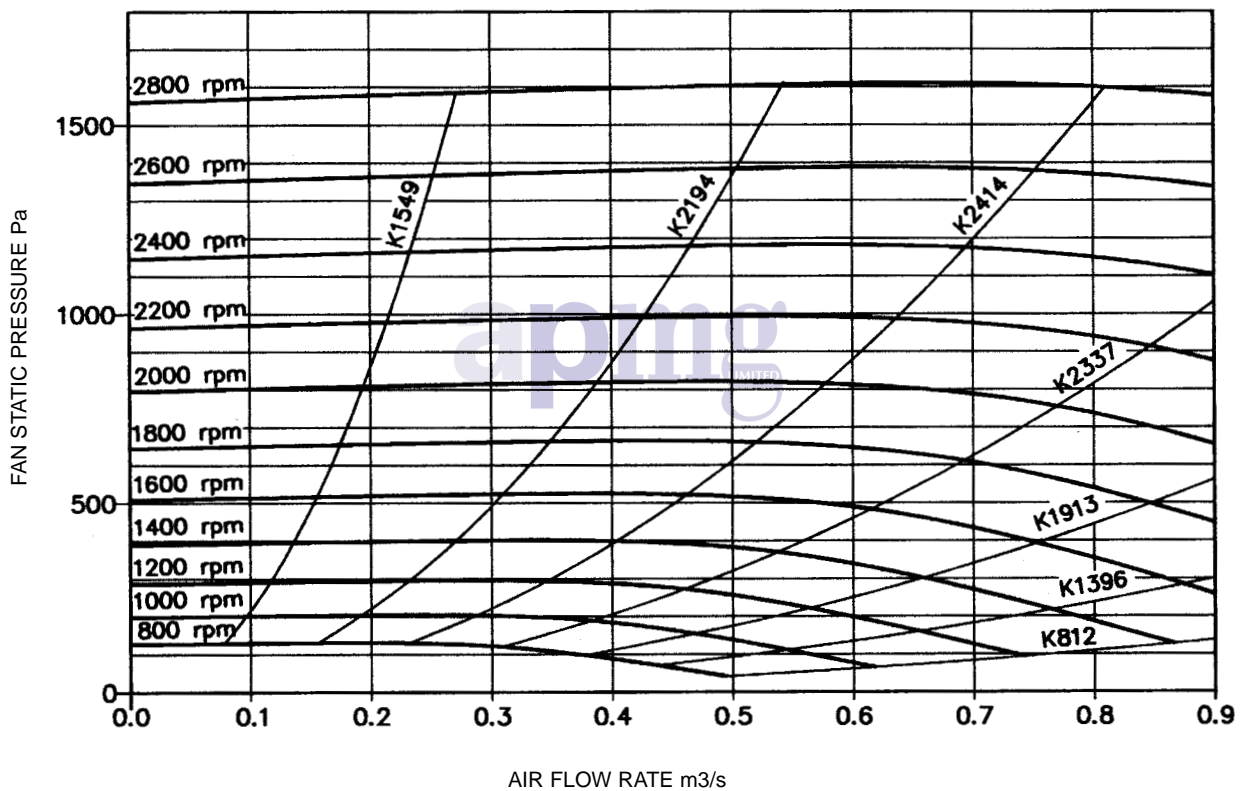


FAN HANDINGS VIEWED ON INLET



AP 250 G3

FAN CHARACTERISTIC CURVE



To calculate the Power Absorbed:-
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and interpolate the relevant 'K' factor.

Then:- $kW = \frac{6.35 \times m^3/s \times Pa}{K}$

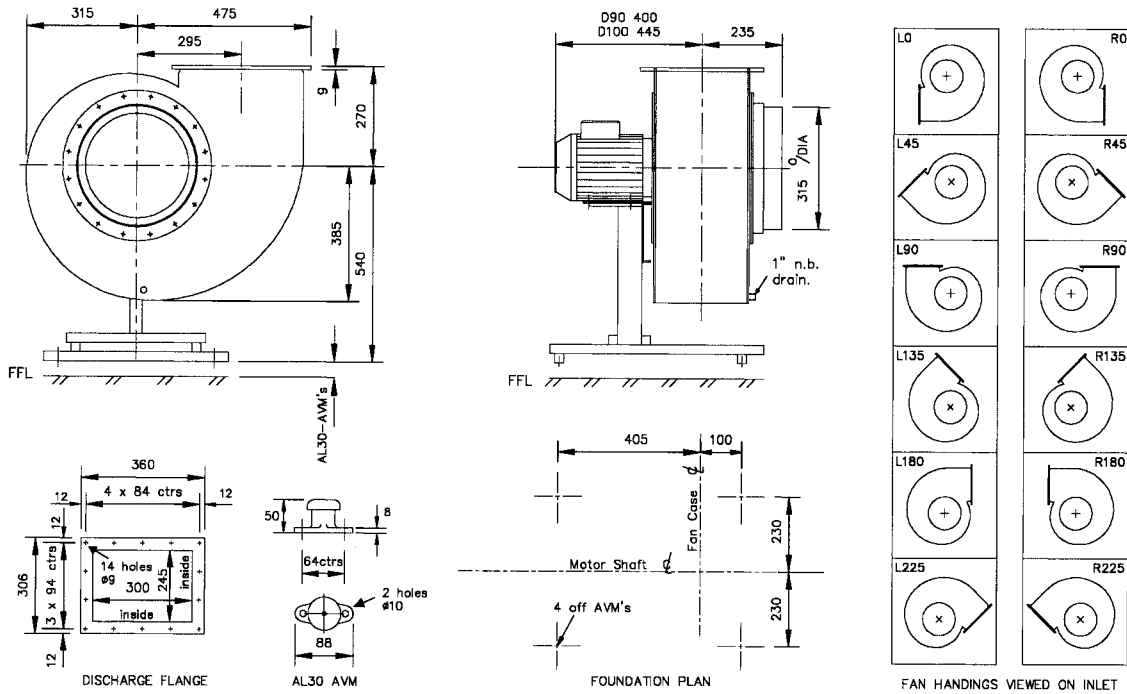
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G Series Centrifugal Fan

AP 315 G4

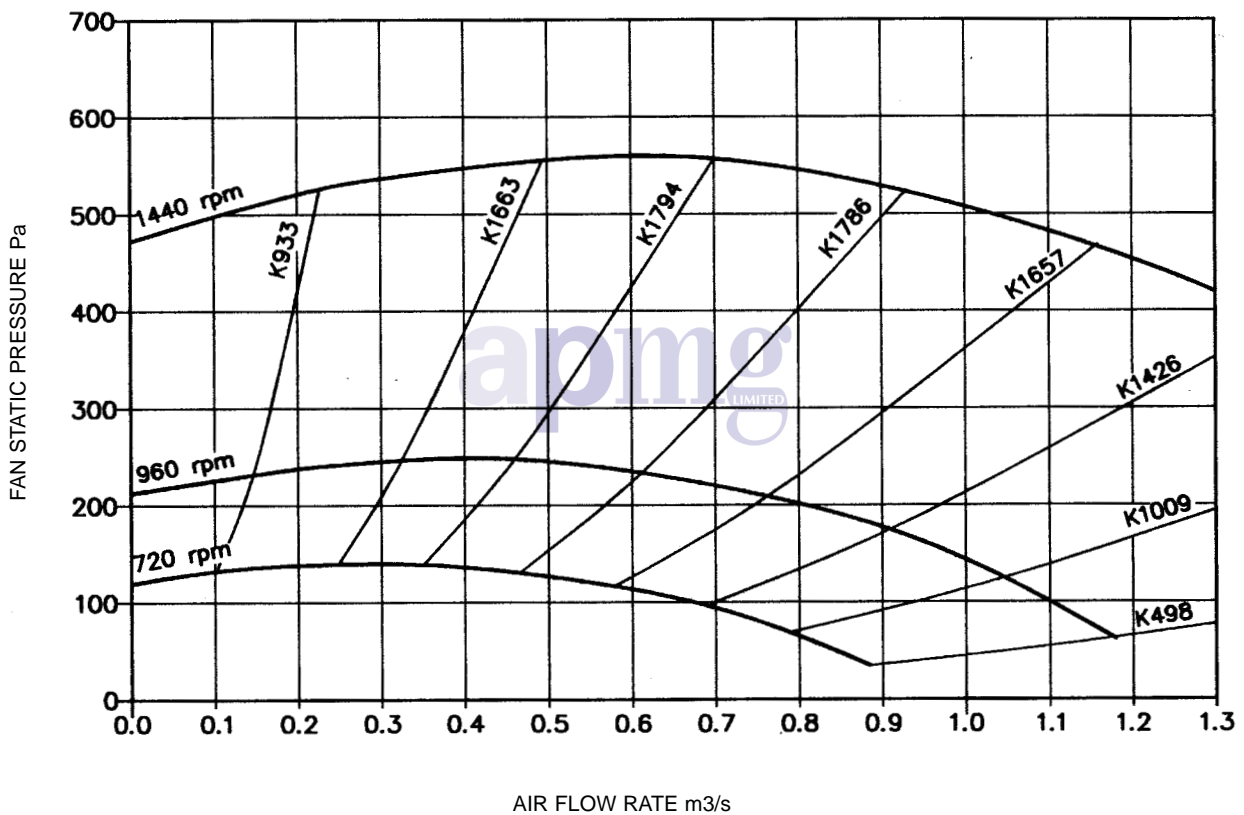
MULTI-VANE FAN

DIRECT DRIVE



AP 315 G4

FAN CHARACTERISTIC CURVE



To calculate the Power Absorbed:-
Plot the fan duty point onto the curves
and interpolate the relevant 'K' factor.

Then:-
$$kW = \frac{6.35 \times m^3/s \times Pa}{K}$$

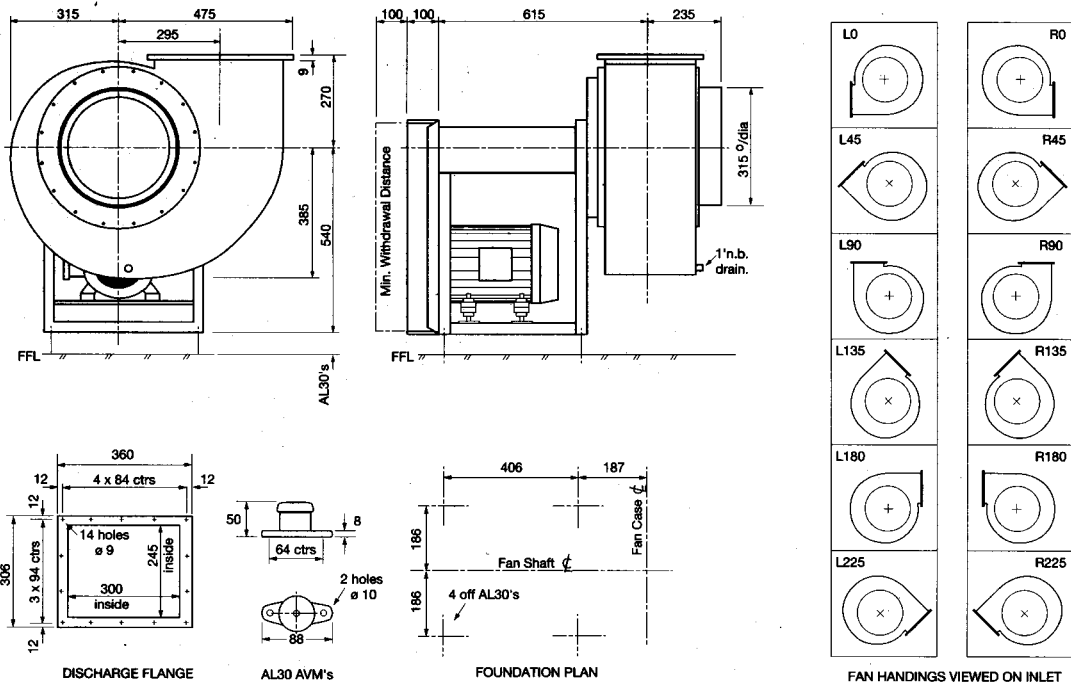
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multiply the result by 1.2.

G Series Centrifugal Fan

AP 315 G3

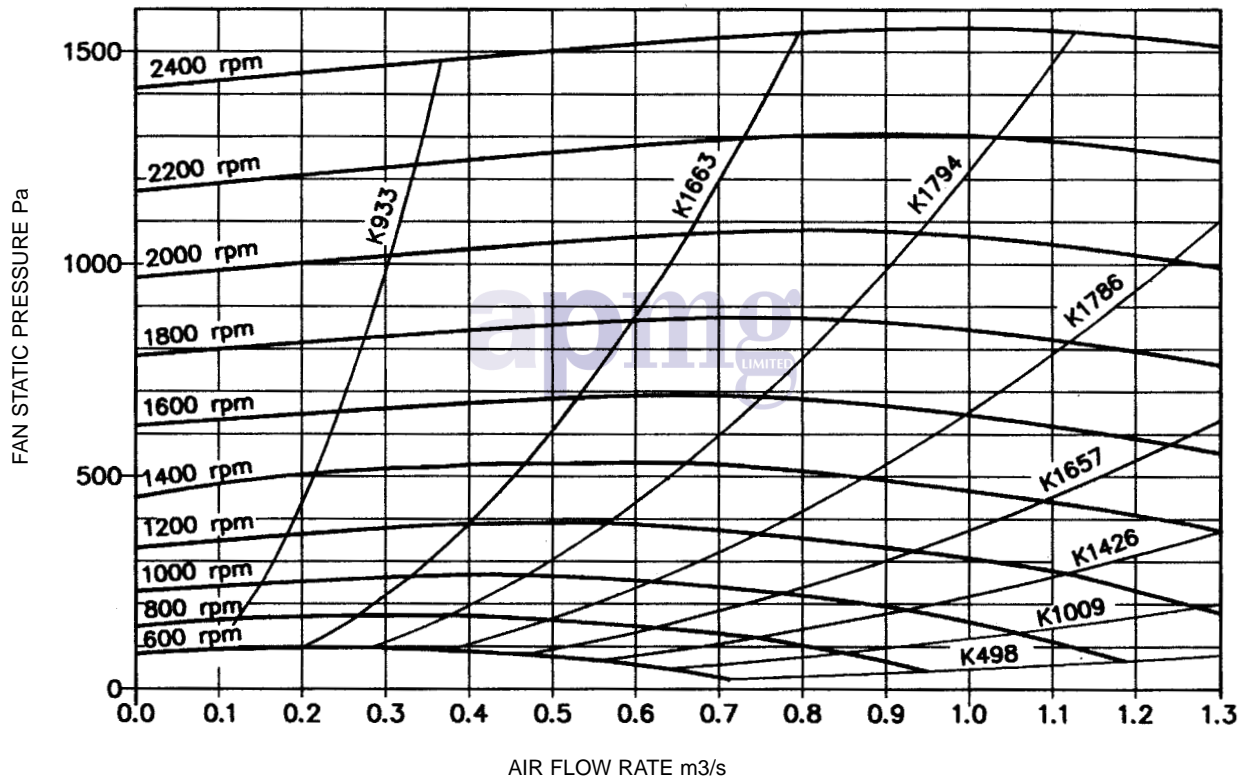
MULTI-VANE FAN

INDIRECT DRIVE



AP 315 G3

FAN CHARACTERISTIC CURVE



To calculate the Power Absorbed:-
Plot the fan duty point onto the curves
and interpolate the relevant 'K' factor.

Then:-
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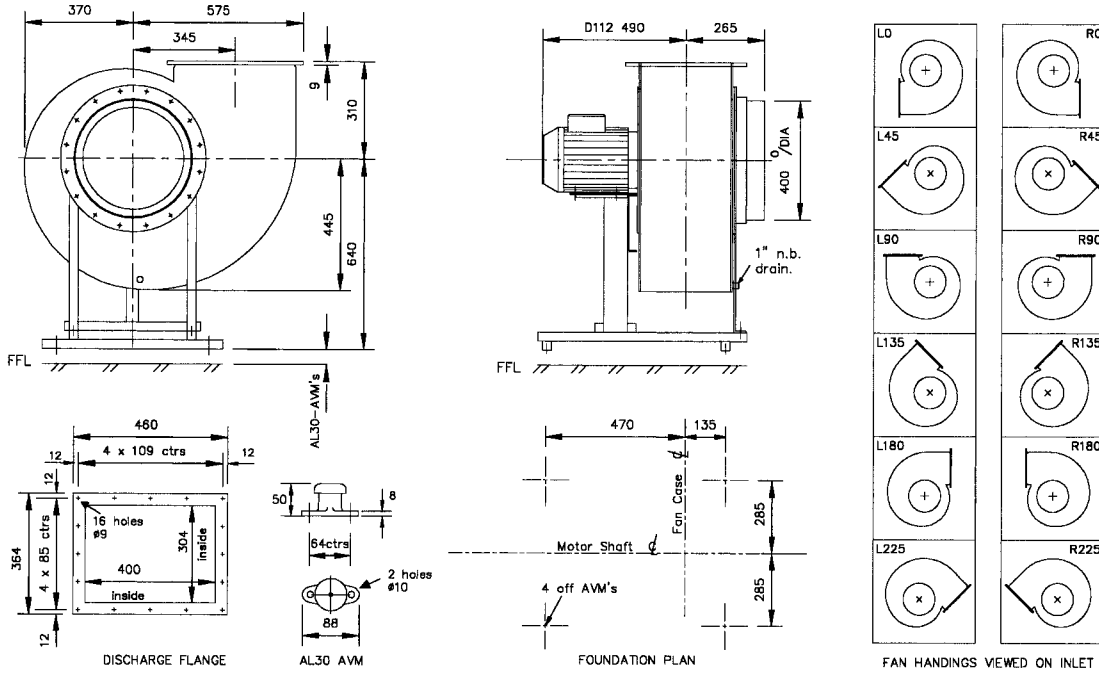
To compensate for belt and bearing loss
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G Series Centrifugal Fan

AP 400 G4

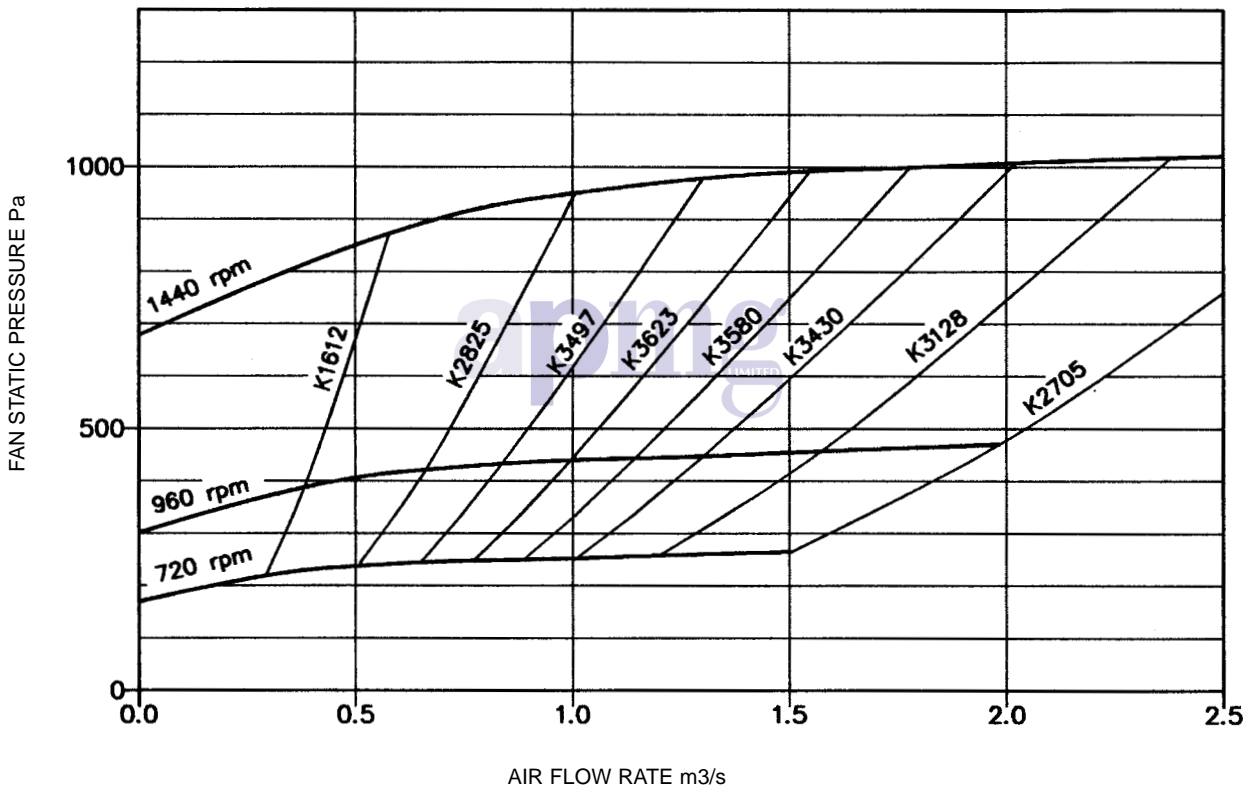
MULTI-VANE FAN

DIRECT DRIVE



AP 400 G4

FAN CHARACTERISTIC CURVE



To calculate the Power Absorbed:-
Plot the fan duty point onto the curves
and interpolate the relevant 'K' factor.

Then:-
$$kW = \frac{6.35 \times m^3/s \times Pa}{K}$$

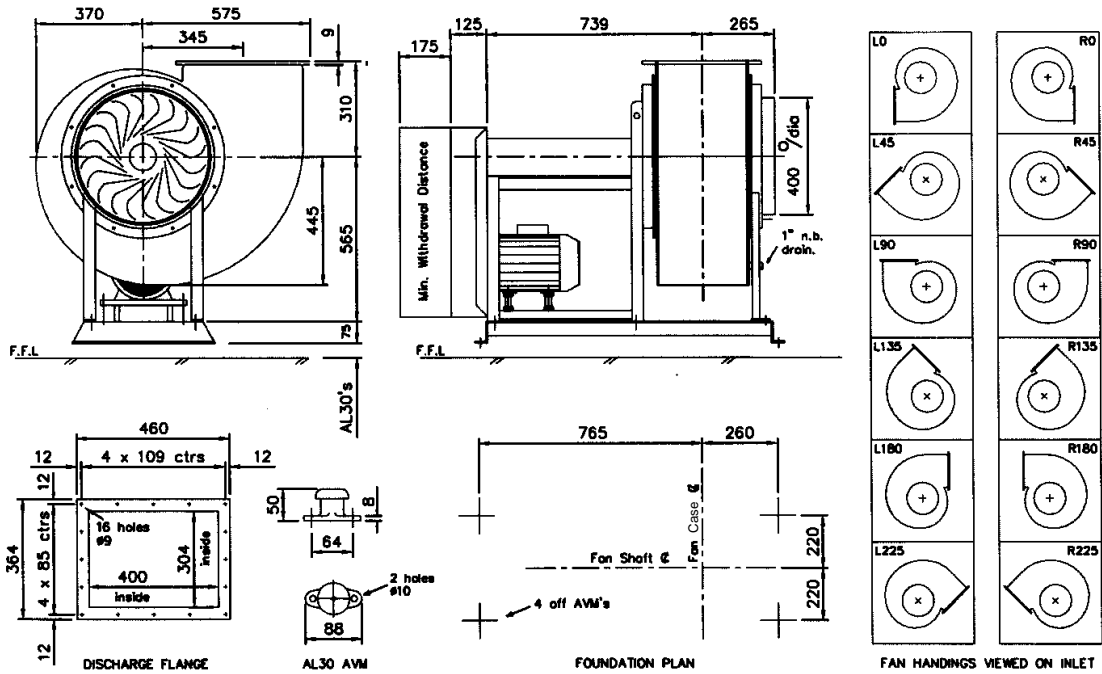
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G Series Centrifugal Fan

AP 400 G3

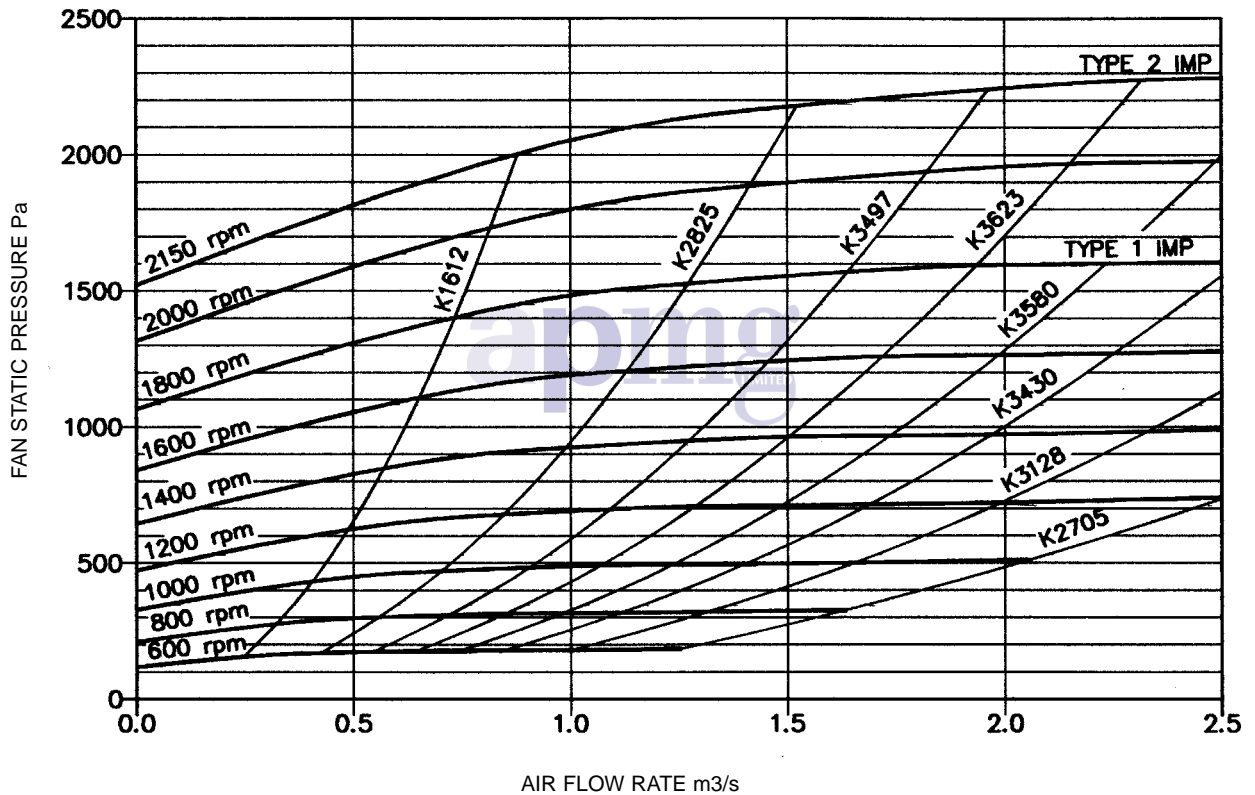
MULTI-VANE FAN

INDIRECT DRIVE



AP 400 G3

FAN CHARACTERISTIC CURVE



To calculate the Power Absorbed:-
Plot the fan duty point onto the curves
and interpolate the relevant 'K' factor.

$$\text{Then:- } kW = \frac{6.35 \times m^3/s \times Pa}{K}$$

To compensate for belt and bearing loss
multiply the result by 1.2.