

Woodcock & Wilson

Phone : 01484 462 777

Fax : ##

Customer : McDonalds

Project : Direct Drive Kitchen Fans

Item 15 - Ref : New Standard BCW



Quote Ref : [REDACTED]

13/04/2021

Gas Properties :

Barom Pressure : 99725 pa
Operating Temp : 20 Deg.C.
Humidity : 38 %
Specific Gravity : 1.0
Inlet Density : 1.181 Kg/m3
Dust Load : 0 g/m3

Duty Required :

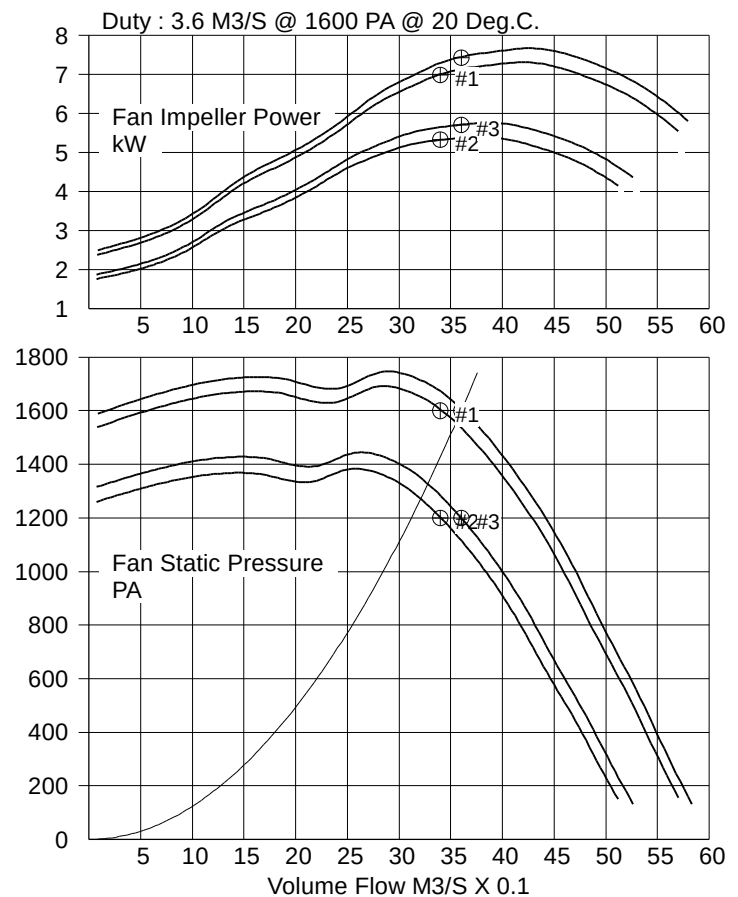
Inlet Volume Flow : 3.6 m3/s
Fan Static Pressure:
Inlet Pressure : -1600 pa
Outlet Pressure : 0 pa

Fan Selected :

SWSI-BCW-630/100-75

Speed : 1720 Rpm
Impeller Ø : 630 mm
Fan Class : 2

Impeller Power :
@ 20 Deg C : 7.43 kW
@ Duty Temp : 7.43 kW
Tip Speed : 56.7 m/s
Inlet Velocity : 10.8 m/s
Outlet Velocity : 9.8 m/s
Temp Rise : 1.7 Deg.C.



Noise Details :

	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	Total
Internal SWL dB	102	99	98	93	89	86	84	81	105
Free Inlet SPL dBA	62	73	82	84	83	81	79	74	89
Free Outlet SPL dBA	63	74	83	85	84	82	80	75	90
Outside Casing dBA	54	60	62	63	62	60	58	51	69

Motor noise is NOT included in the figures above.

Sound Pressure levels (SPL) are estimated within the Near Field range at 1 metre(s)

Breakout at 1 metre from 4 mm thick casing (inside Near Field range).

Casing levels assume the inlet / outlet are ducted and noise does not breakout through duct.

All values are averages. Free Inlet assumes that outlet is ducted and vice versa.

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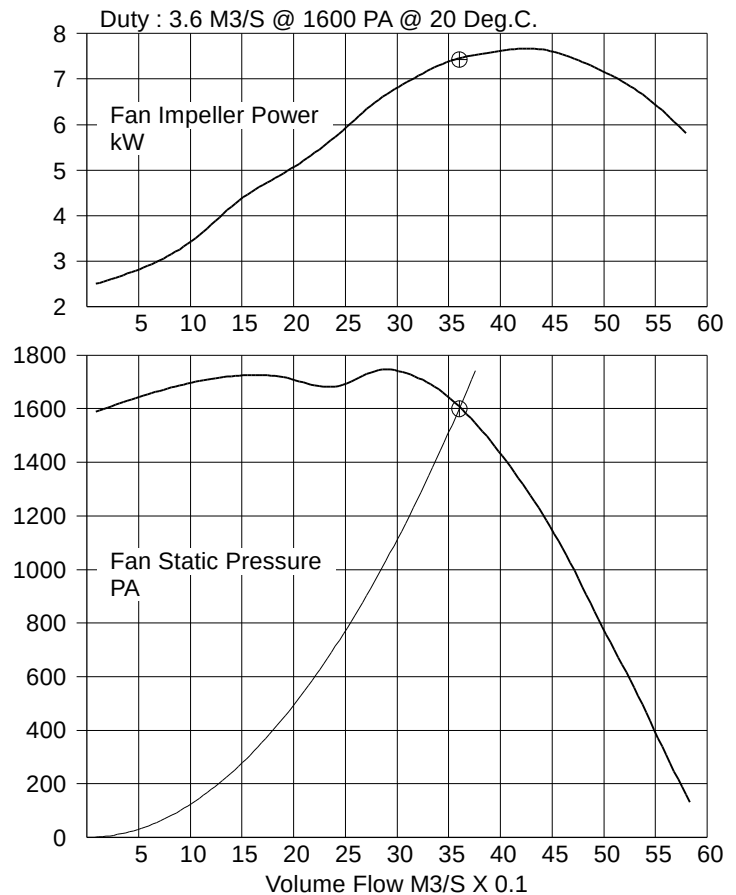
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Prog V410.35

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Internal SWL dB	102	99	98	93	89	86	84	81	105
Free Inlet SPL dBA	62	73	82	84	83	81	79	74	89
Free Outlet SPL dBA	63	74	83	85	84	82	80	75	90
Outside Casing dBA	55	62	53	45	44	37	27	38	63

Motor noise is NOT included in the figures above.

Sound Pressure levels (SPL) are estimated within the Near Field range at 1 metre(s)

Breakout at 1 metre from 4 mm thick casing + 75mm Cladding (inside Near Field range).

Casing levels assume the inlet / outlet are ducted and noise does not breakout through duct.

All values are averages. Free Inlet assumes that outlet is ducted and vice versa.