Woodcock & Wilson

Phone : 01484-462777
Email: liambrook@fanmanufacturers.com

Customer : Welvent
Project : Standard Range
Item 10 - Ref : 150hp

Quote Ref : Q54932c
14/04/2026

Gas Properties :

Abs Inlet Pressure:	406.78	ins wg
Operating Temp:	20	Deg.C.
Humidity:	0	%
Specific Gravity:	1.0	
Inlet Density:	1.204	Kg/m3
Dust Load:	0	g/m3

Duty Required :

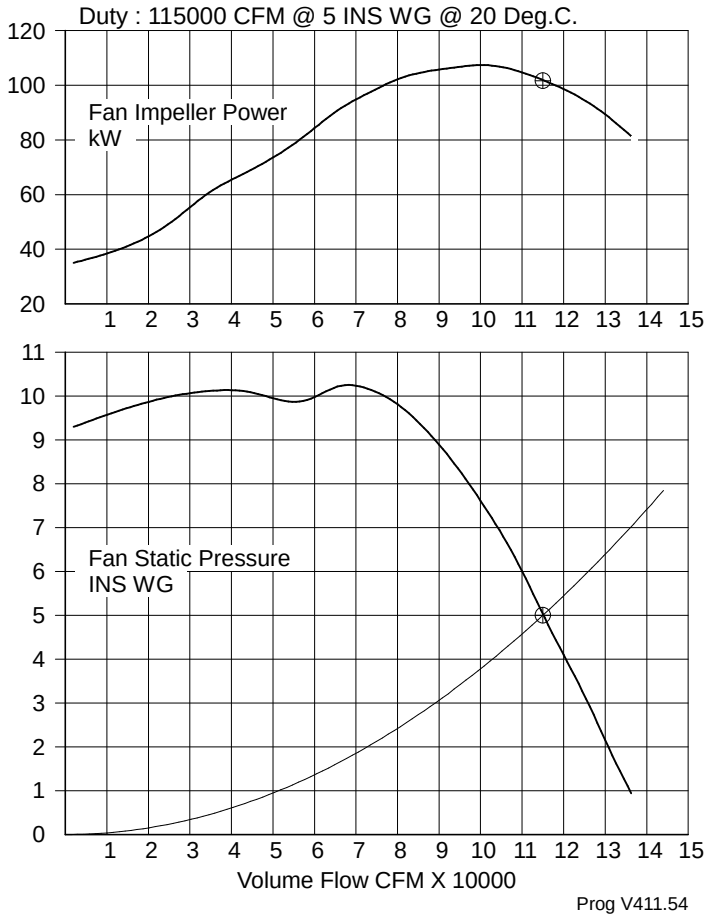
Inlet Volume Flow:	115000	cfm
Fan Static Pressure:		
Inlet Pressure:	-0	ins wg
Outlet Pressure:	5	ins wg

Fan Selected :

SWSI-BCW-1700/100-100

Speed:	731	Rpm
Impeller Ø:	1700	mm
Fan Class:	2	

Impeller Power :		
@ 20 Deg C :	101.7	kW
@ Duty Temp:	101.7	kW
Tip Speed:	65.1	m/s
Inlet Velocity:	22.5	m/s
Outlet Velocity:	18.5	m/s
Temp Rise:	1.5	Deg.C.



Prog V411.54

Noise Details :	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	**Total**
Internal SWL dB	118	112	111	106	101	96	94	86	**120**
Free Inlet SPL dBA	83	90	96	97	95	91	89	79	**102**
Free Outlet SPL dBA	82	89	95	96	94	90	88	78	**101**
Outside Casing dBA	70	73	76	77	75	71	69	57	**82**

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 6 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.

Woodcock & Wilson
Phone : 01484-462777
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Customer : Welvent
Project : Standard Range
Item 10 - Ref : 150hp

Quote Ref : Q54932c
14/04/2026

Gas Properties :

Abs Inlet Pressure:	406.78	ins wg
Operating Temp:	20	Deg.C.
Humidity:	0	%
Specific Gravity:	1.0	
Inlet Density:	1.204	Kg/m3
Dust Load:	0	g/m3

Duty Required :

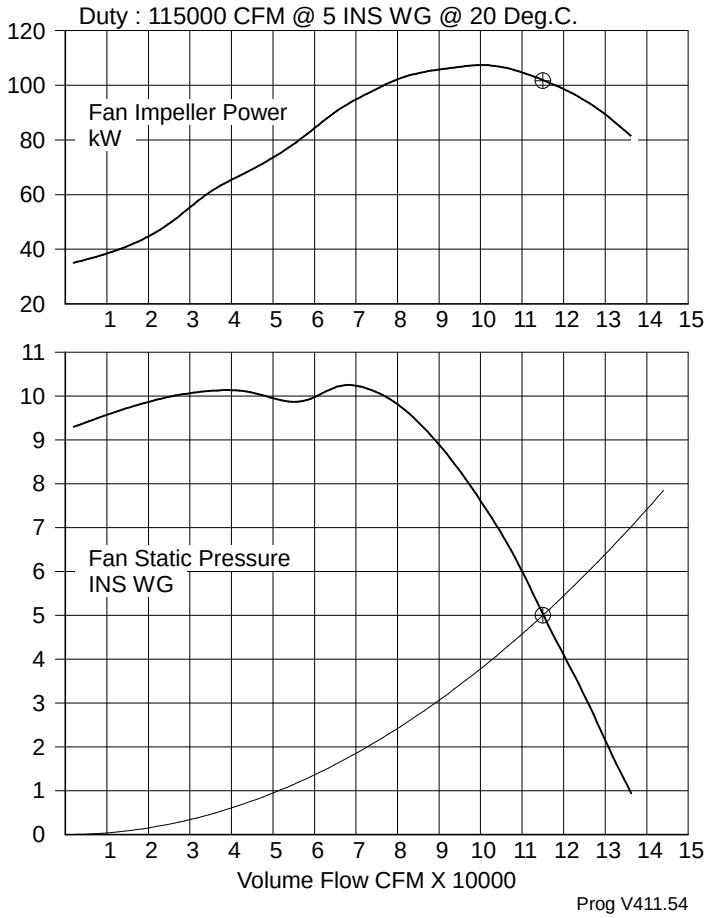
Inlet Volume Flow:	115000	cfm
Fan Static Pressure:		
Inlet Pressure:	-0	ins wg
Outlet Pressure:	5	ins wg

Fan Selected :

SWSI-BCW-1700/100-100

Speed:	731	Rpm
Impeller Ø:	1700	mm
Fan Class:	2	

Impeller Power :		
@ 20 Deg C :	101.7	kW
@ Duty Temp:	101.7	kW
Tip Speed:	65.1	m/s
Inlet Velocity:	22.5	m/s
Outlet Velocity:	18.5	m/s
Temp Rise:	1.5	Deg.C.



Prog V411.54

Noise Details :	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	**Total**
Internal SWL dB	118	112	111	106	101	96	94	86	**120**
Free Inlet SPL dBA	58	65	71	72	70	66	64	54	**77**
Free Outlet SPL dBA	58	65	71	72	70	66	64	54	**77**
Outside Casing dBA	40	43	46	47	45	41	39	27	**52**

Motor noise is NOT included in the figures above.

Sound Pressure levels (SPL) assume Free Field Hemispherical Radiation at 10 metre(s) Breakout at 10 metre from 6 mm thick casing.

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.

Woodcock & Wilson
Phone : 01484-462777
Email: liambrook@fanmanufacturers.com

Customer : Welvent
Project : Standard Range
Item 10 - Ref : 150hp

Quote Ref : Q54932c
14/04/2026

Gas Properties :

Abs Inlet Pressure:	406.78	ins wg
Operating Temp:	20	Deg.C.
Humidity:	0	%
Specific Gravity:	1.0	
Inlet Density:	1.204	Kg/m3
Dust Load:	0	g/m3

Duty Required :

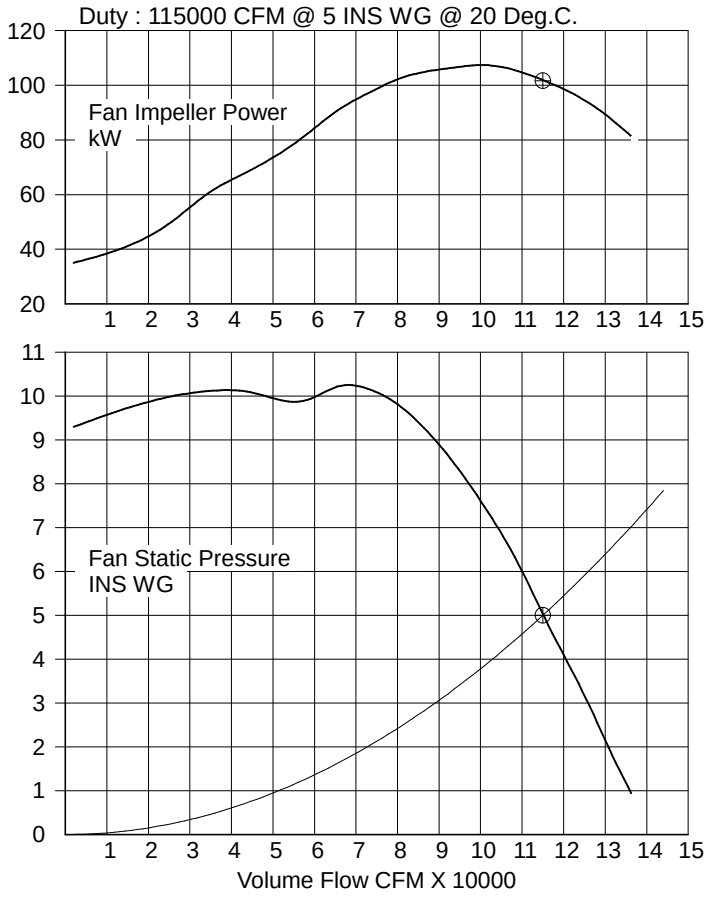
Inlet Volume Flow:	115000	cfm
Fan Static Pressure:		
Inlet Pressure:	-0	ins wg
Outlet Pressure:	5	ins wg

Fan Selected :

SWSI-BCW-1700/100-100

Speed:	731	Rpm
Impeller Ø:	1700	mm
Fan Class:	2	

Impeller Power :		
@ 20 Deg C :	101.7	kW
@ Duty Temp:	101.7	kW
Tip Speed:	65.1	m/s
Inlet Velocity:	22.5	m/s
Outlet Velocity:	18.5	m/s
Temp Rise:	1.5	Deg.C.



Prog V411.54

Noise Details :	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	**Total**
Internal SWL dB	118	112	111	106	101	96	94	86	**120**
Free Inlet SPL dBA	52	59	65	66	64	60	58	48	**71**
Free Outlet SPL dBA	52	59	65	66	64	60	58	48	**71**
Outside Casing dBA	34	37	40	41	39	35	33	21	**46**

Motor noise is NOT included in the figures above.

Sound Pressure levels (SPL) assume Free Field Hemispherical Radiation at 20 metre(s) Breakout at 20 metre from 6 mm thick casing.

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.

Woodcock & Wilson

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Customer : Welvent
Project : Standard Range
Item 10 - Ref : 150hp

Quote Ref : Q54932c
14/04/2026

Gas Properties :

Abs Inlet Pressure:	406.78	ins wg
Operating Temp:	20	Deg.C.
Humidity:	0	%
Specific Gravity:	1.0	
Inlet Density:	1.204	Kg/m3
Dust Load:	0	g/m3

Duty Required :

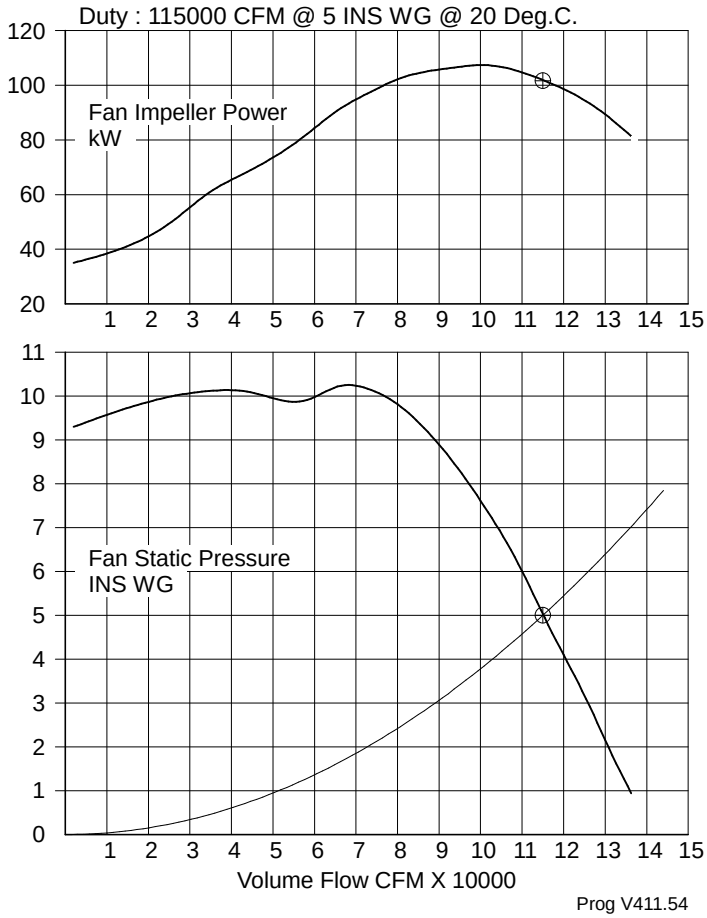
Inlet Volume Flow:	115000	cfm
Fan Static Pressure:		
Inlet Pressure:	-0	ins wg
Outlet Pressure:	5	ins wg

Fan Selected :

SWSI-BCW-1700/100-100

Speed:	731	Rpm
Impeller Ø:	1700	mm
Fan Class:	2	

Impeller Power :		
@ 20 Deg C :	101.7	kW
@ Duty Temp:	101.7	kW
Tip Speed:	65.1	m/s
Inlet Velocity:	22.5	m/s
Outlet Velocity:	18.5	m/s
Temp Rise:	1.5	Deg.C.



Prog V411.54

Noise Details :	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	**Total**
Internal SWL dB	118	112	111	106	101	96	94	86	**120**
Free Inlet SPL dBA	48	55	61	62	60	56	54	44	**67**
Free Outlet SPL dBA	48	55	61	62	60	56	54	44	**67**
Outside Casing dBA	30	33	36	37	35	31	29	17	**42**

Motor noise is NOT included in the figures above.

Sound Pressure levels (SPL) assume Free Field Hemispherical Radiation at 30 metre(s) Breakout at 30 metre from 6 mm thick casing.

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.

Woodcock & Wilson

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Email: liambrook@fanmanufacturers.com

Customer : Welvent
Project : Standard Range
Item 10 - Ref : 150hp

Quote Ref : Q54932c
14/04/2026

Gas Properties :

Abs Inlet Pressure:	406.78	ins wg
Operating Temp:	20	Deg.C.
Humidity:	0	%
Specific Gravity:	1.0	
Inlet Density:	1.204	Kg/m3
Dust Load:	0	g/m3

Duty Required :

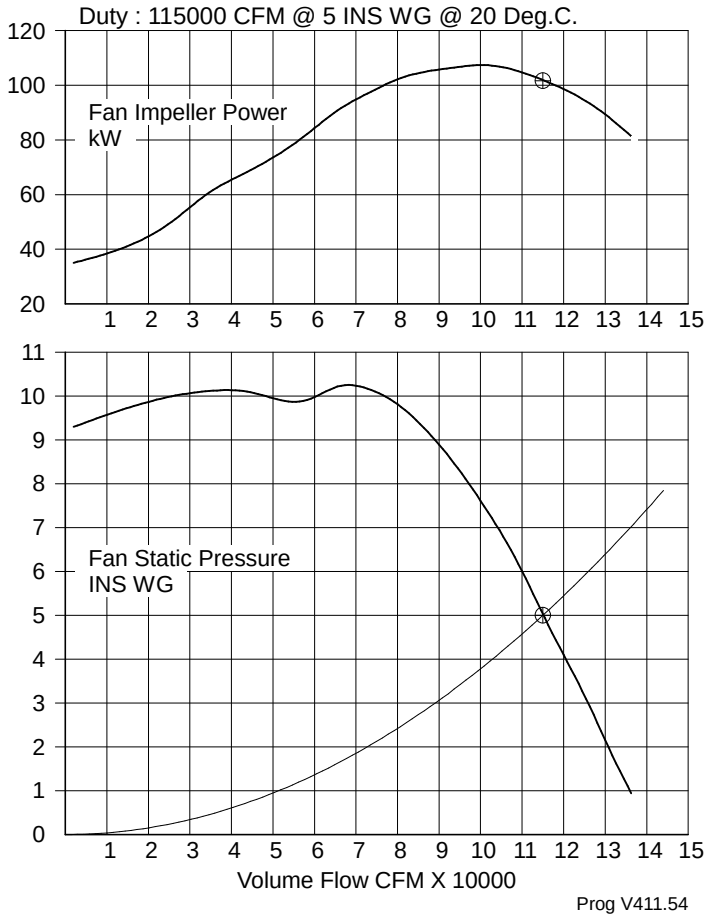
Inlet Volume Flow:	115000	cfm
Fan Static Pressure:		
Inlet Pressure:	-0	ins wg
Outlet Pressure:	5	ins wg

Fan Selected :

SWSI-BCW-1700/100-100

Speed:	731	Rpm
Impeller Ø:	1700	mm
Fan Class:	2	

Impeller Power :		
@ 20 Deg C :	101.7	kW
@ Duty Temp:	101.7	kW
Tip Speed:	65.1	m/s
Inlet Velocity:	22.5	m/s
Outlet Velocity:	18.5	m/s
Temp Rise:	1.5	Deg.C.



Prog V411.54

Noise Details :	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	**Total**
Internal SWL dB	118	112	111	106	101	96	94	86	**120**
Free Inlet SPL dBA	46	53	59	60	58	54	52	42	**65**
Free Outlet SPL dBA	46	53	59	60	58	54	52	42	**65**
Outside Casing dBA	28	31	34	35	33	29	27	15	**40**

Motor noise is NOT included in the figures above.

Sound Pressure levels (SPL) assume Free Field Hemispherical Radiation at 40 metre(s) Breakout at 40 metre from 6 mm thick casing.

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.

Woodcock & Wilson

Phone : 01484-462777
Email: liambrook@fanmanufacturers.com

Customer : Welvent
Project : Standard Range
Item 10 - Ref : 150hp

Quote Ref : Q54932c
14/04/2026

Gas Properties :

Abs Inlet Pressure:	406.78	ins wg
Operating Temp:	20	Deg.C.
Humidity:	0	%
Specific Gravity:	1.0	
Inlet Density:	1.204	Kg/m3
Dust Load:	0	g/m3

Duty Required :

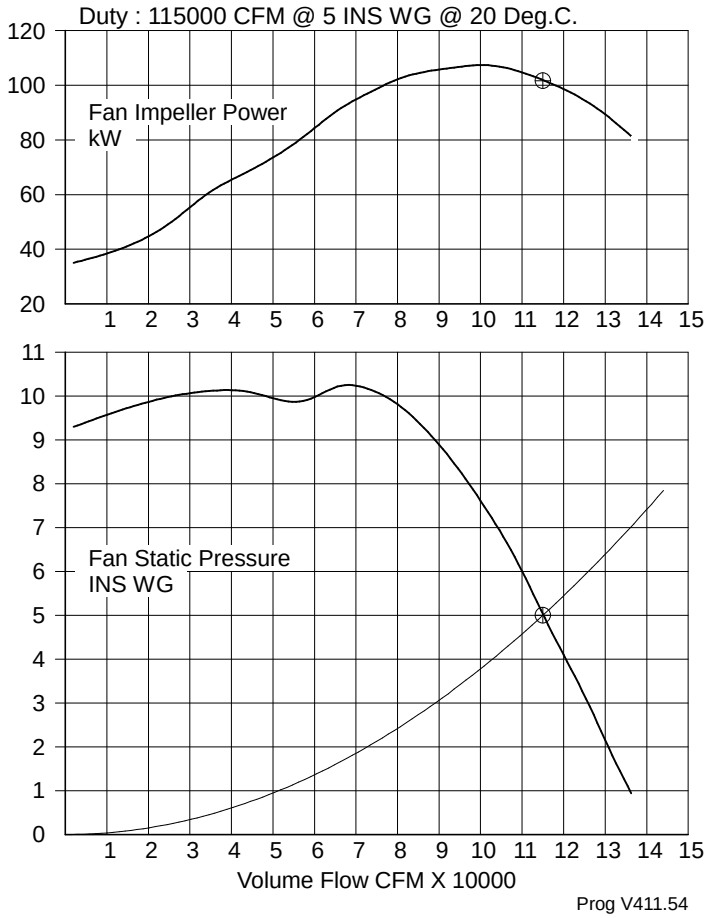
Inlet Volume Flow:	115000	cfm
Fan Static Pressure:		
Inlet Pressure:	-0	ins wg
Outlet Pressure:	5	ins wg

Fan Selected :

SWSI-BCW-1700/100-100

Speed:	731	Rpm
Impeller Ø:	1700	mm
Fan Class:	2	

Impeller Power :		
@ 20 Deg C :	101.7	kW
@ Duty Temp:	101.7	kW
Tip Speed:	65.1	m/s
Inlet Velocity:	22.5	m/s
Outlet Velocity:	18.5	m/s
Temp Rise:	1.5	Deg.C.



Prog V411.54

Noise Details :	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	**Total**
Internal SWL dB	118	112	111	106	101	96	94	86	**120**
Free Inlet SPL dBA	40	47	53	54	52	48	46	36	**59**
Free Outlet SPL dBA	40	47	53	54	52	48	46	36	**59**
Outside Casing dBA	22	25	28	29	27	23	21	9	**34**

Motor noise is NOT included in the figures above.

Sound Pressure levels (SPL) assume Free Field Hemispherical Radiation at 80 metre(s) Breakout at 80 metre from 6 mm thick casing.

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.

Woodcock & Wilson

Phone : 01484-462777
Email: liambrook@fanmanufacturers.com

Customer : Welvent
Project : Standard Range
Item 10 - Ref : 150hp

Quote Ref : Q54932c
14/04/2026

Gas Properties :

Abs Inlet Pressure:	406.78	ins wg
Operating Temp:	20	Deg.C.
Humidity:	0	%
Specific Gravity:	1.0	
Inlet Density:	1.204	Kg/m3
Dust Load:	0	g/m3

Duty Required :

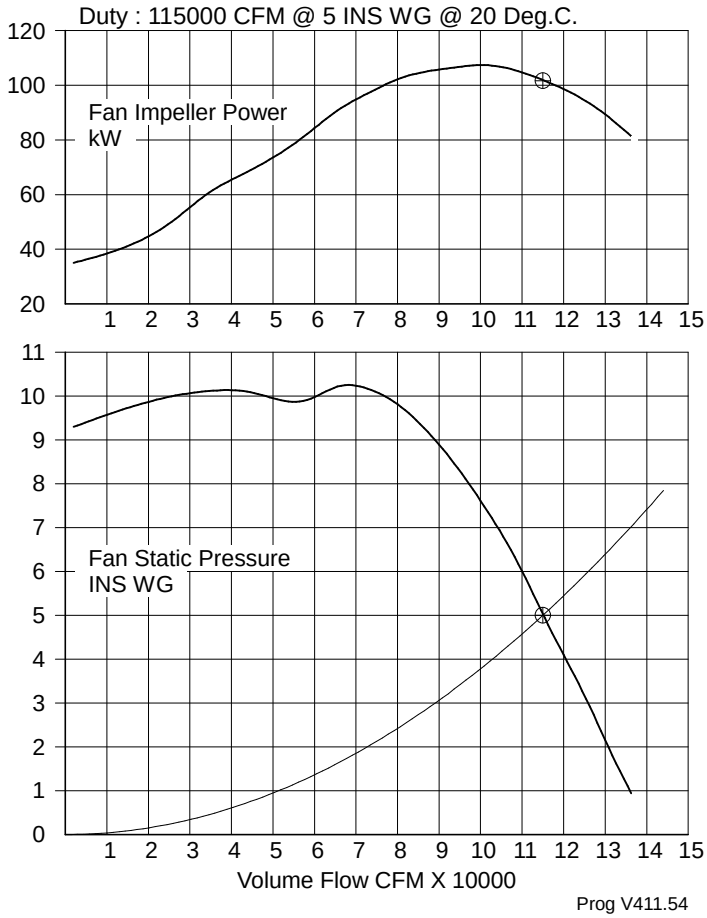
Inlet Volume Flow:	115000	cfm
Fan Static Pressure:		
Inlet Pressure:	-0	ins wg
Outlet Pressure:	5	ins wg

Fan Selected :

SWSI-BCW-1700/100-100

Speed:	731	Rpm
Impeller Ø:	1700	mm
Fan Class:	2	

Impeller Power :		
@ 20 Deg C :	101.7	kW
@ Duty Temp:	101.7	kW
Tip Speed:	65.1	m/s
Inlet Velocity:	22.5	m/s
Outlet Velocity:	18.5	m/s
Temp Rise:	1.5	Deg.C.



Prog V411.54

Noise Details :	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz	**Total**
Internal SWL dB	118	112	111	106	101	96	94	86	**120**
Free Inlet SPL dBA	34	41	47	48	46	42	40	30	**53**
Free Outlet SPL dBA	34	41	47	48	46	42	40	30	**53**
Outside Casing dBA	16	19	22	23	21	17	15	3	**28**

Motor noise is NOT included in the figures above.

Sound Pressure levels (SPL) assume Free Field Hemispherical Radiation at 160 metre(s) Breakout at 160 metre from 6 mm thick casing.

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.