

Project	: chris Outar	Project Code	: BC-19361
Quotation	:	Date	: 20 November 2023

Sales Contact :	Line Items:
	Quantity of Products:

Reference	Product Code	Qty	Lang_kW	Motor	SFP	dBA	Efficiency	FLC	SC	Duty
chris kitchen fan	ePowerBox 50-355-1-4 (5FA)	1	0.282 kW	Integral	0.66	64 dBW	-	1.35	4.46	0.353 m³/s @ 203 Pa (Static)
CHRIS FAN 2	Woods EC Single Fan 350	1	0.450 kW	Integral	0.41	66 dBW	-	2.9	2.9	0.354 m³/s @ 205 Pa (Static)

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EPOWERBOX

WOODS BOX FAN

PERFORMANCE NOTES

Air Performance curves have been determined in a test chamber using the inlet test method according to DIN 24163

ACOUSTIC NOTES

Noise levels are tested in accordance with DIN 45635. Sound Pressure levels dB(A) are quoted @ 3m distance under free field conditions. When an electronic controller is incorporated, enhanced motor noise can occur - particularly when the operating speed is well below maximum. FWL therefore recommend using an auto transformer speed controller for noise sensitive applications.

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	Lang_ESTOC BC-19361-3
	ePowerBox 50-355-1-4 (5FA)
	chris kitchen fan
	6 weeks

MECHANICAL	
Operating Temperatures	0 °C to 60 °C
Weight	32kg
COMMENTS	

PRODUCT	
Model Code	ePowerBox 50-355-1-4 (5FA)
Fan Diameter	355 mm
Installation	Type D

PERFORMANCE	
Requested Duty	0.350 m³/s @ 200 Pa (Static)
Outlet Dynamic Pressure	7.61 Pa
Velocity	3.56 m/s

MOTOR	
Motor Rating	0.282 kW [Integral Frame - 4 Pole]
Full Load Current	1.35 A
Starting Current	4.46 A
Electrical Supply	220 - 240 Volts 50 Hz 1 Phase
Motor Winding	Standard
Motor Type	Class F Insulation

EFFICIENCY GRADES	
Regulation 1253 - 2014	
UVU Efficiency	48.7% (ErP Compliant) ✓
Nominal Flow Rate	0.536 m³/s @ 256 Pa
Effective Input Power	0.280 kW
Nominal RPM	1410 rpm
Internal Fan Efficiency	48.7%

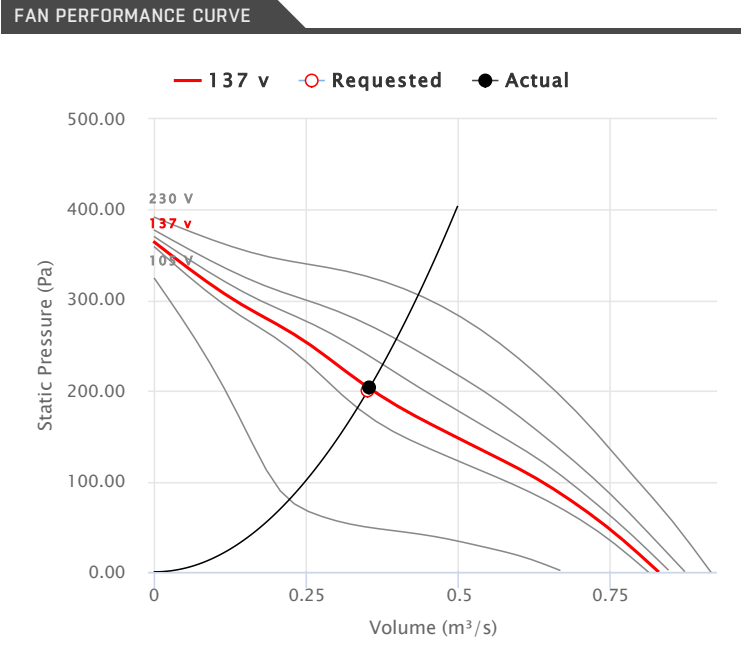
ENVIRONMENT	
Air Density	1.2 kg/m³ / 20 °C / 0 m / 40% RH
Smoke Venting	No Smoke Venting
Operating Environment	Normal

RUNNING COSTS	
Power from mains	0.231 KWh
Energy Consumption	462.57 (2,000.00 h/Year)
Running Cost / Year	£115.64
CO2 per Year	162.62 kgCO2e
SFP value	0.66 W/l/s @ Actual Duty

PRODUCT DIMENSIONS	
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32 kg

This drawing shows dimensions that should be used as a guide only and are subject to change. Certified drawings are available on request.



ACOUSTICS									Overall		Distance (3 m)
Sound Spectrum (Hz)									Lw*	LWA*	LpA @ 3 m **
63	125	250	500	1k	2k	4k	8k				
Inlet	25	39	52	56	53	52	48	42	64	60	39
Outlet	33	47	62	63	60	55	48	43	73	67	46
Breakout	31	41	45	35	30	24	<20	<20	61	47	26
Sound Data At Requested Duty.						* Lw dB re 10 ⁻¹² W			* Lw dB re 10 ⁻¹² W		

FAN & ACCESSORIES			
Item Description	Part Number	Qty	Lead-Time
ePowerBox 50-355-1-4 (5FA)	BE355017	1	6 Weeks
SSD Service Door 50-355 Sq 450	BI101042	1	6 Weeks
SOC Outlet Cover W450 D300	BI101054	1	6 Weeks
SSC Side Cover 50-355 Sq 450	BI101036	1	6 Weeks
Weather cowl	BI101060	1	6 Weeks
Mounting Track	BI101135	1	6 Weeks
Lang_SADDamper	BI101048	1	6 Weeks
EEID (Manual - Electronic)	EA900110	1	6 Weeks

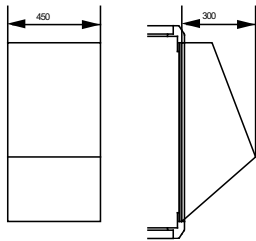
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PRODUCT DIMENSIONS

32 kg

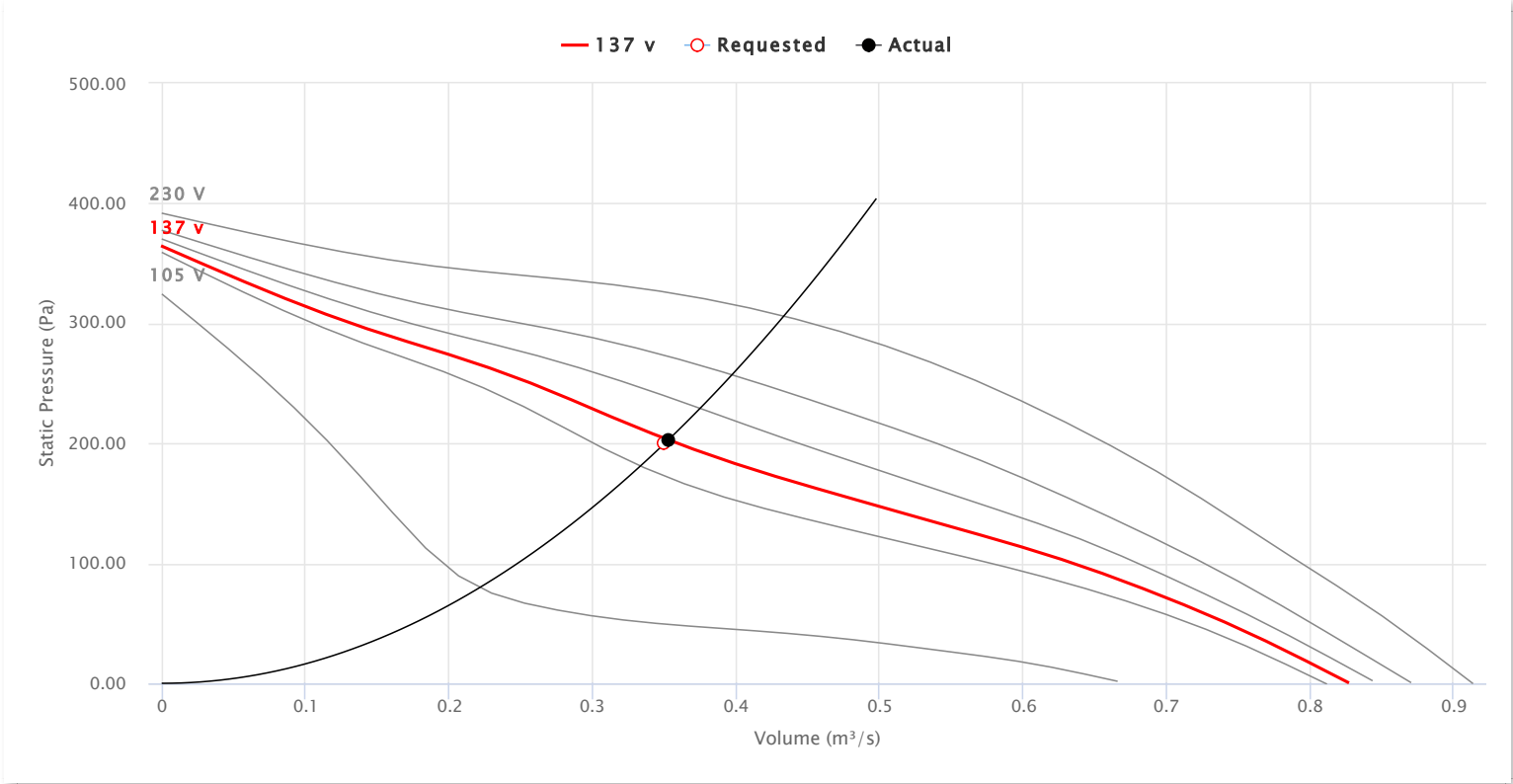
ACCESSORY DIMENSIONS

SOC OUTLET COVER W450 D300



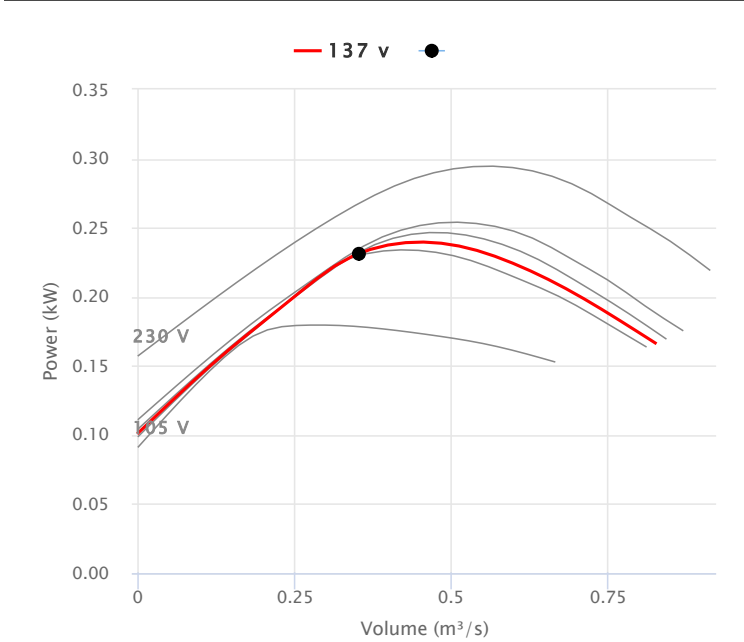
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AERODYNAMIC



POWER CHART

EFFICIENCY CHART



ACOUSTICS

	Sound Spectrum (Hz)								Overall	
	63	125	250	500	1k	2k	4k	8k	Lw*	LpA @ 3 m **
Inlet	25	39	52	56	53	52	48	42	64	39
Outlet	33	47	62	63	60	55	48	43	73	46
Breakout	31	41	45	35	30	24	<20	<20	61	26

Sound Data At Requested Duty . * Lw dB re 10⁻¹² W ** dBA re 2x10⁻⁵ Pa

Project : chris Outar
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Woods EC Box Fan
BC-19361-4

Woods EC Single Fan 350
CHRIS FAN 2
5 weeks

PRODUCT

Model Code Woods EC Single Fan 350
Fan Diameter 350 mm
Installation Type D

PERFORMANCE

Requested Duty 0.350 m³/s @ 200 Pa (Static)
Outlet Dynamic Pressure 8.12 Pa
Velocity 3.68 m/s

MOTOR

Motor Rating 0.450 kW [Integral Frame]
Full Load Current 2.9 A
Starting Current 2.9 A
Electrical Supply 220 - 240 Volts 50 Hz 1 Phase
Motor Winding Standard
Motor Type Class F Insulation

EFFICIENCY GRADES

Regulation 1253 - 2014
UVU Efficiency 59.0% (ErP Compliant) ✓
Nominal Flow Rate 0.820 m³/s @ 320 Pa
Effective Input Power 0.446 kW

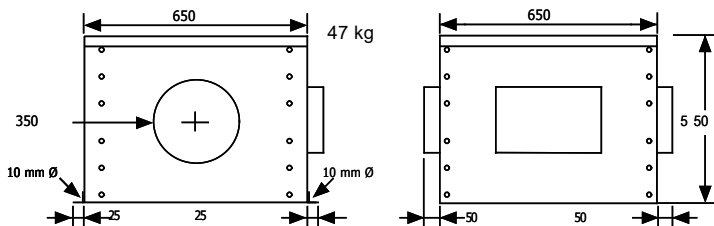
ENVIRONMENT

Air Density 1.2 kg/m³ / 20 °C / 0 m / 40% RH
Smoke Venting No Smoke Venting
Operating Environment Normal

RUNNING COSTS

Power from mains 0.144 KWh
Energy Consumption 287.36 (2,000.00 h/Year)
Running Cost / Year £71.84
CO2 per Year 101.02 kgCO2e
SFP value 0.41 W/l/s @ Actual Duty

PRODUCT DIMENSIONS



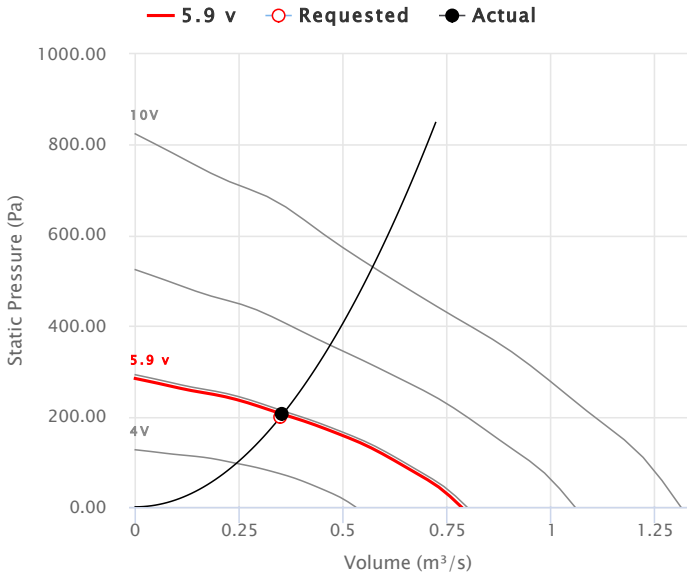
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MECHANICAL

Operating Temperatures 0 °C to 50 °C
Weight 47kg

COMMENTS

FAN PERFORMANCE CURVE



ACOUSTICS

	Sound Spectrum (Hz)								Overall		Distance (3 m)
	63	125	250	500	1k	2k	4k	8k	Lw*	LWA*	LpA @ 3 m **
Inlet	57	62	62	57	51	50	47	33	66	59	38
Outlet	62	67	67	62	56	55	52	38	71	64	43
Breakout	53	56	54	34	22	21	<20	<20	59	46	26

Sound Data At Requested Duty.

* Lw dB re 10⁻¹² W

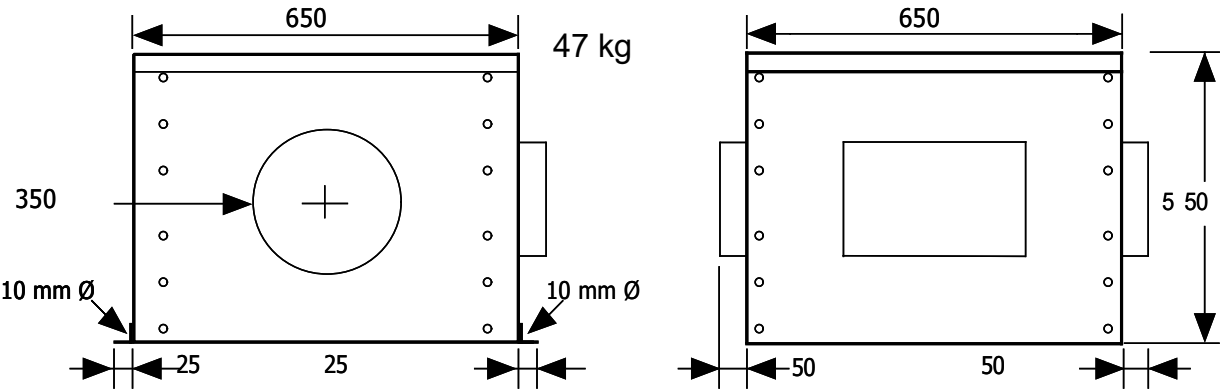
* Lw dB re 10⁻¹² W

FAN & ACCESSORIES

Item Description	Part Number	Qty	Lead-Time
Woods EC Single Fan 350	EC350101	1	5 Weeks

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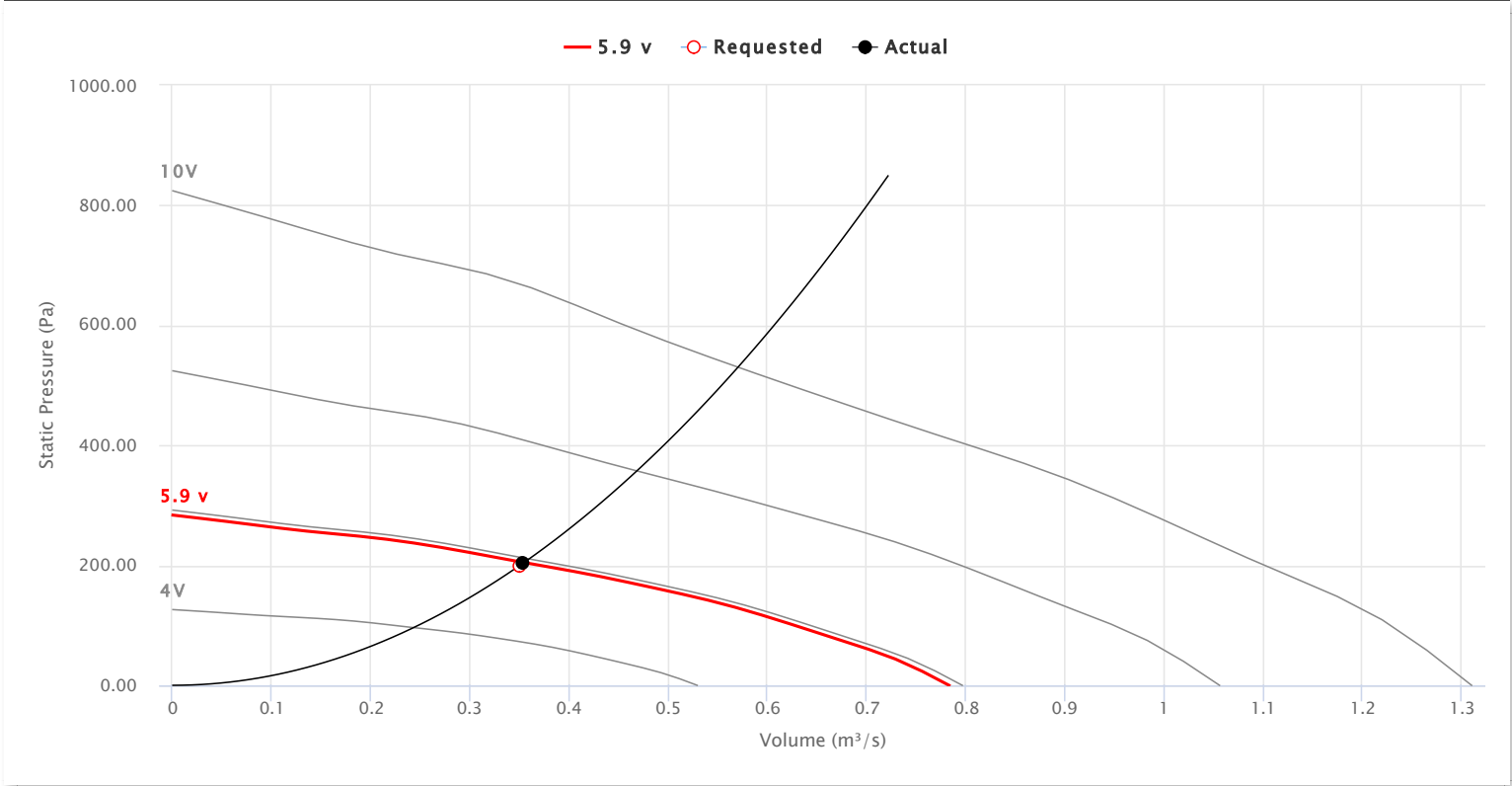
PRODUCT DIMENSIONS



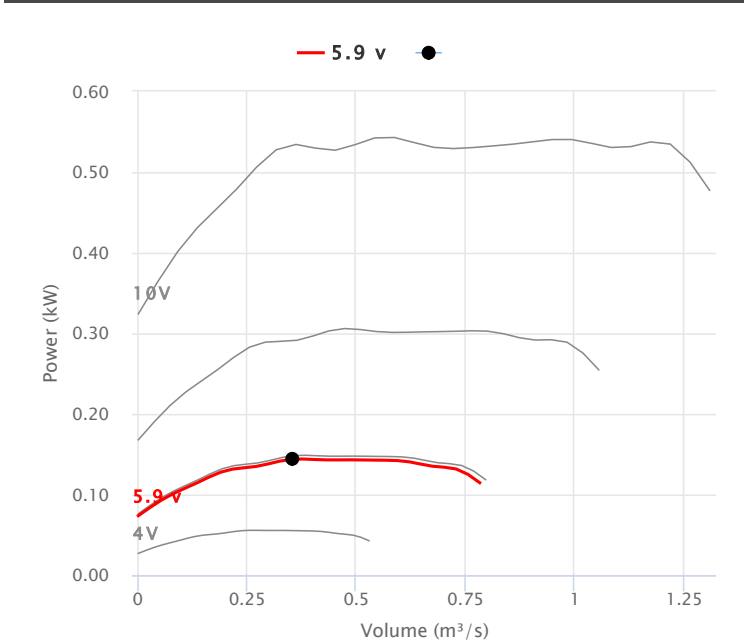
ACCESSORY DIMENSIONS

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AERODYNAMIC



POWER CHART



EFFICIENCY CHART

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Inlet	57	62	62	57	51	50	47	33	66	38
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Sound Data At Requested Duty . * Lw dB re 10⁻¹² W ** dBA re 2x10⁻⁵ Pa