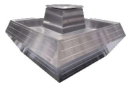
FlaktWoods Limited
Fan Selector - Technical Datasheet

FläktGroup

Project	: x	**Project Code**	: BB-23492
Quotation	:	**Date**	: 16 December 2022



eDVC Roof unit
BB-23492-2

eDVC 500-4-3 (120)

PRODUCT

Model Code	eDVC 500-4-3 (120)
Fan Diameter	500 mm
Installation	Type C
Fan Casing	Roof

PERFORMANCE

Requested Duty	2.10 m³/s @ 200 Pa (Static)
Outlet Dynamic Pressure	69 Pa
Velocity	10.72 m/s

MOTOR

Motor Rating	1.70 kW [Integral Frame]
Full Load Current	2.6 A
Starting Current	17.94 A
Electrical Supply	380 - 420 Volts 50 Hz 3 Phase
Motor Winding	Standard
Motor Type	Class F Insulation

EFFICIENCY GRADES

ErP [FMEG] Rating	ErP Exempt
SFP value	0.67 W/l/s @ Actual Duty

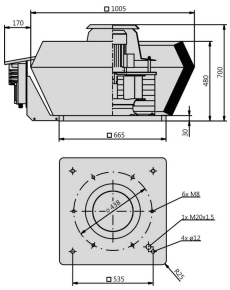
ENVIRONMENT

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	1.41 KWh
Energy Consumption	2,827.47 (2,000.00 h/Year)
Running Cost / Year	£706.87
CO2 per Year	994.03 kgCO2e

PRODUCT DIMENSIONS

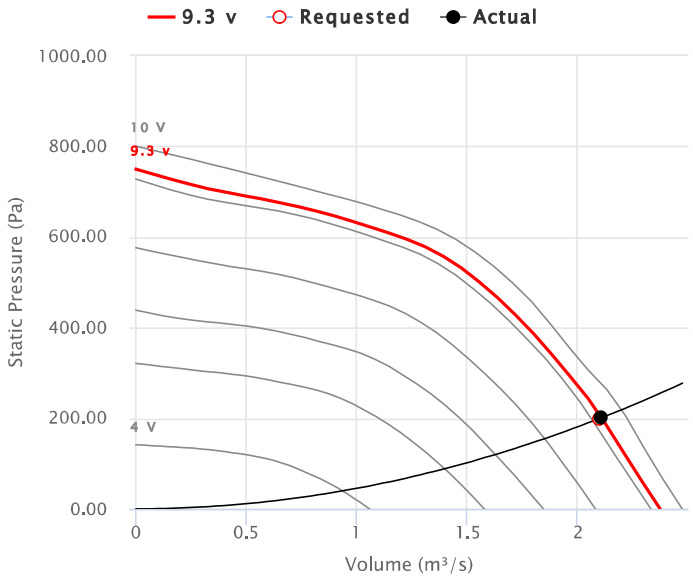


MECHANICAL

Operating Temperatures	0 °C to 120 °C
Maximum Running Speed	1680 rpm [84000 Hz]
Minimum Running Speed	288 rpm [14400 Hz]

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	45	55	67	72	75	76	75	63	83	81	61
Outlet	53	72	75	76	73	71	67	59	91	81	61

Sound Data At Requested Duty. * Lw dB re 10^{-12} W * Lw dB re 10^{-12} W

FAN & ACCESSORIES

Item Description	Part Number	Qty
eDVC 500-4-3 (120)	RC500401	1
Inverter included with build	INTEGRAL	1

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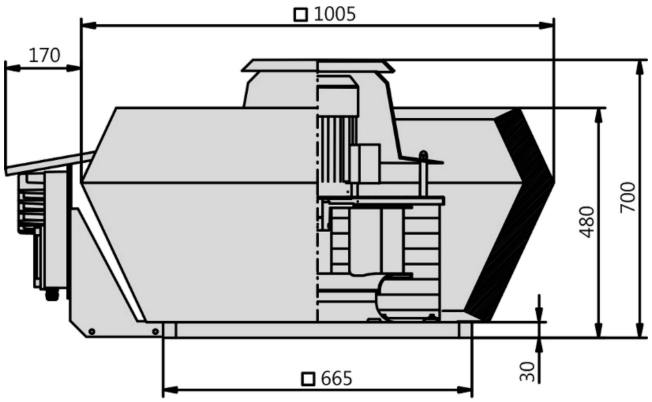
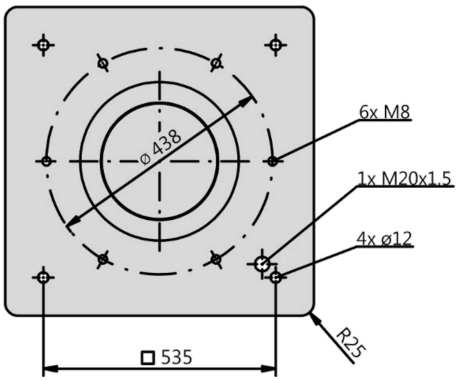
PRODUCT DIMENSIONS





ACCESSORY DIMENSIONS

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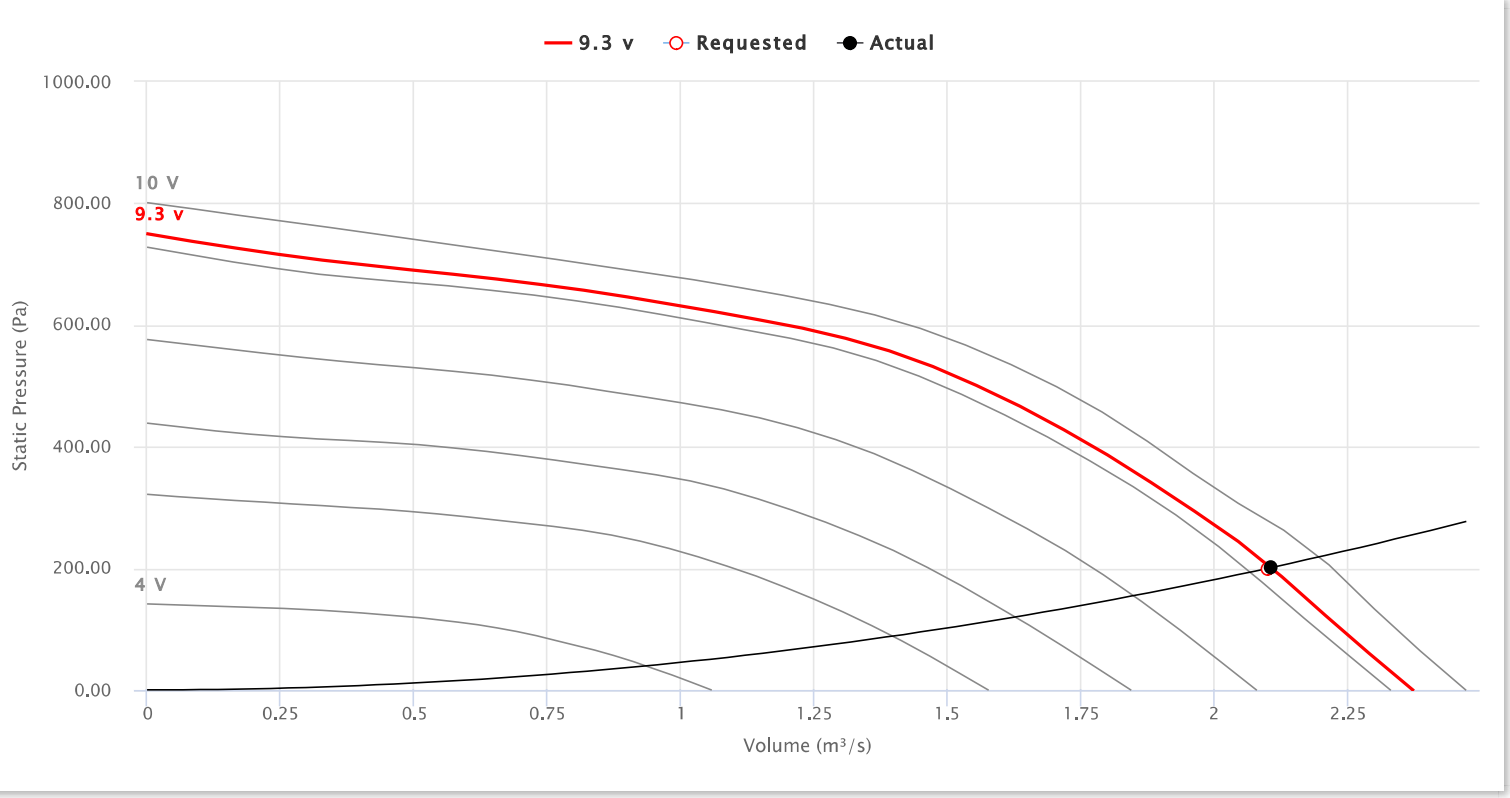
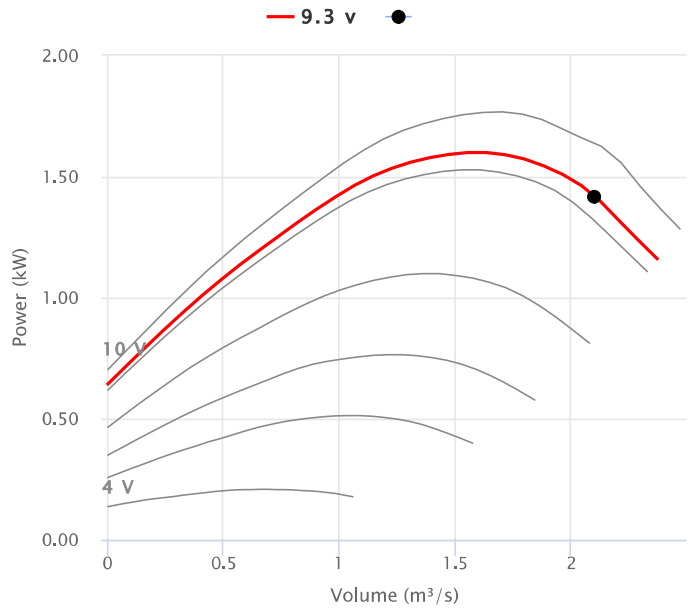
AERODYNAMIC



POWER CHART



EFFICIENCY CHART

ACOUSTICS

	Sound Spectrum (Hz)								Overall	
	63	125	250	500	1k	2k	4k	8k	Lw*	LpA @ 3 m **
Inlet	45	55	67	72	75	76	75	63	83	61
Outlet	53	72	75	76	73	71	67	59	91	61

Sound Data At Requested Duty . * Lw dB re 10^{-12} W ** dBA re $2x10^{-5}$ Pa

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Lang_ESTOC
BB-23492-3

ePowerBox EC 102-710-3-4 (G.6NA)

PRODUCT

Model Code	ePowerBox EC 102-710-3-4 (G.6NA)
Fan Diameter	710 mm
Installation	Type D

PERFORMANCE

Requested Duty	4.70 m³/s @ 200 Pa (Static)
Outlet Dynamic Pressure	83 Pa
Velocity	11.77 m/s

MOTOR

Motor Rating	2.66 kW [Integral Frame]
Full Load Current	4.13 A
Starting Current	0 A
Electrical Supply	380 - 415 Volts 50 Hz 3 Phase
Motor Winding	Standard
Motor Type	Class F Insulation

EFFICIENCY GRADES

Regulation 1253 - 2014

UVU Efficiency	59.9% (ErP Compliant) ✓
Nominal Flow Rate	3.54 m³/s @ 449 Pa
Effective Input Power	2.66 kW
Nominal RPM	940 rpm
Internal Fan Efficiency	62.9%
SFP value	0.48 W/l/s @ Actual Duty

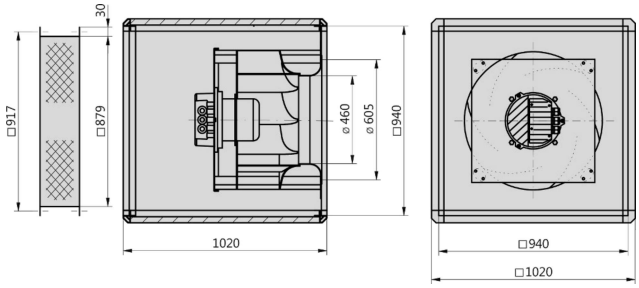
ENVIRONMENT

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	2.23 KWh
Energy Consumption	4,462.73 (2,000.00 h/Year)
Running Cost / Year	£1,115.68
CO2 per Year	1,568.92 kgCO2e

PRODUCT DIMENSIONS

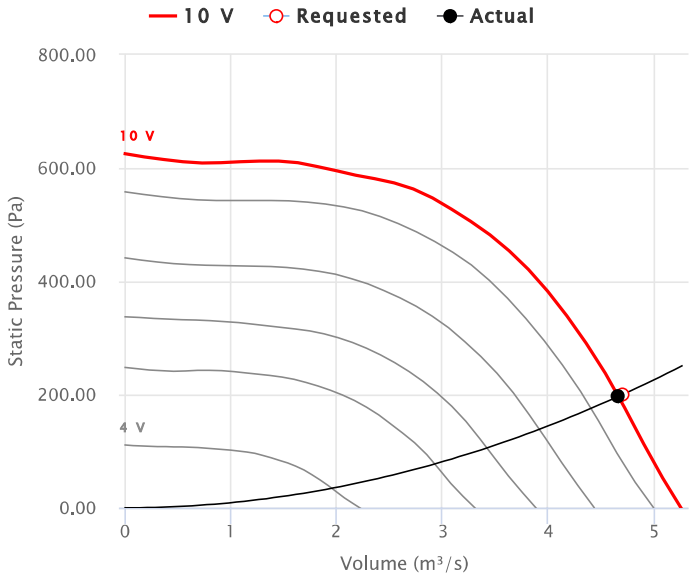


MECHANICAL

Operating Temperatures	0 °C to 50 °C
Weight	121kg

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	83	70	74	76	78	76	71	69	109	86	65
Outlet	86	71	77	79	82	78	73	72	112	89	68
Breakout	72	68	67	62	61	60	56	54	98	75	54

Sound Data At Requested Duty. * Lw dB re 10^{-12} W * Lw dB re 10^{-12} W

FAN & ACCESSORIES

Item Description	Part Number	Qty
ePowerBox EC 102-710-3-4 (G.6NA)	BE710014	1

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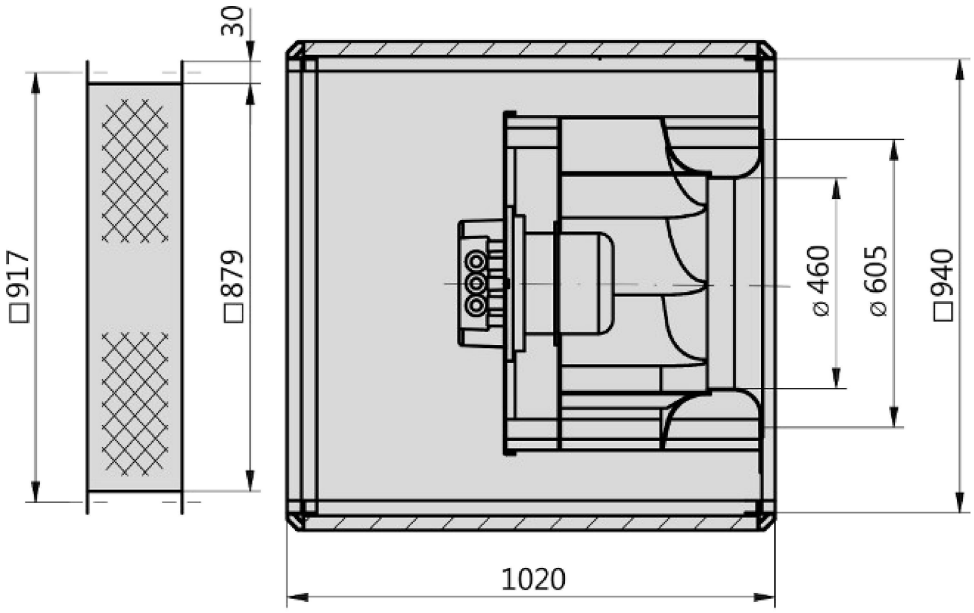

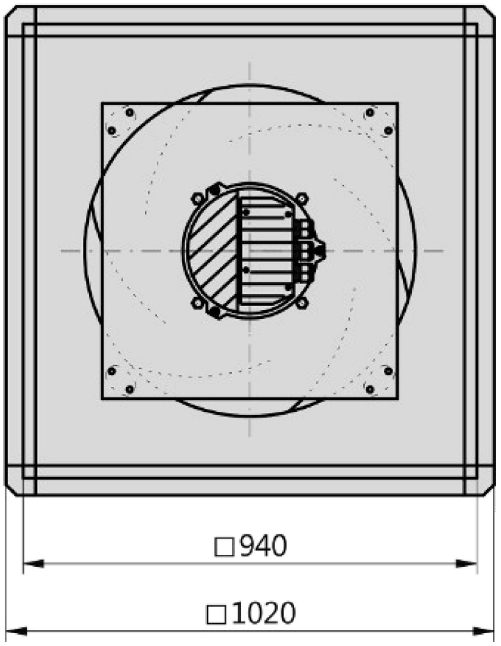

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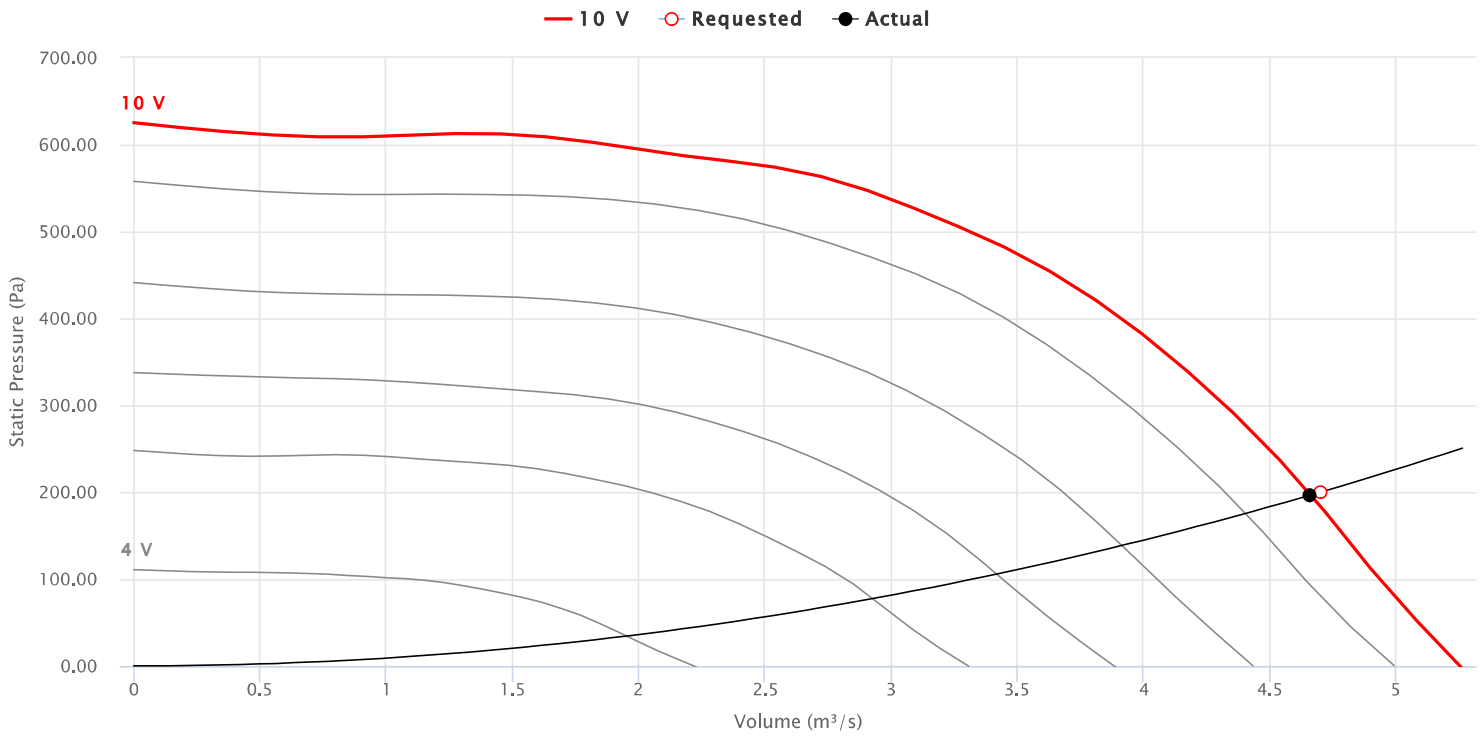
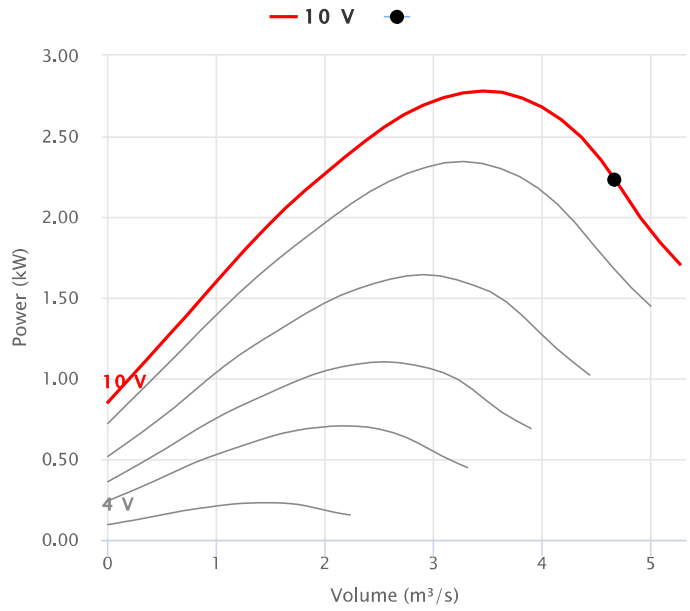


POWER CHART



EFFICIENCY CHART

ACOUSTICS

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Outlet	86	71	77	79	82	78	73	72	112	68
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