

Client	XPLO Sp. z o.o.	Prepared by	m.sekienda@netecs.pl
Commission	V=5000 m ³ /h pt=2500 Pa	Creation date	2023-02-12
Project number	-	Comment	-

INPUT DATA

Supply frequency	50 [Hz]	Pressure type	Total
Pressure	2500 [Pa]	Air volume	5000 [m ³ /h]
Altitude ASL	0.000 [m]	Temperature	20 [°C]
Amount of material	1000 [kg/h]	Duct diameter	0.25 [m]
EX	No		

OPERATING PARAMETERS

Air density	1.2 [kg/m ³]	Air volume	4775 [m ³ /h]
Static pressure	2086 [Pa]	Total pressure	2280 [Pa]
Dynamic pressure	194 [Pa]	Total efficiency	0.587 [-]
Static efficiency	0.537 [-]	Noise level	89.5 [dB(A)]
Shaft power	5.2 [kW]	Shaft power with material	6 [kW]
Amount of material	1000 [kg/h]	Installed power	7.5 [kW]
Material density	0.2094 [kg/m ³]	Duct diameter	0.25 [m]
Operating frequency	50 [Hz]	Average air speed in ducting	27.02 [m/s]
Housing dimensions	717x669 [mm]	Weight	157 [kg]
Average rated fan speed	2930 [1/min]		

ATEX VERSION

	Inside	Outside
Zone	-	-
Equipment group	-	-
Equipment category	-	-
Type of explosion protection	-	-
Temperature class	-	-
ATEX marking	-	-

WORK RESTRICTIONS

	Minimum	Maximum
Temperature of the conveyed medium	-10 [°C]	60 [°C]
Ambient temperature	-20 [°C]	40 [°C]
Rotor revolutions	-	3000 [1/min]



Product card No. OS-18-20230212-181505-942-2
Fan PSC-S 80/40/30/90

MOTOR

Producer	Lammers	Motor poles	2
Rated speed	2950 [1/min]	Rated power	7.5 [kW]
Motor designation	1TZ9003-1CA1_132S	Frequency	50 [Hz]
Rated voltage	400/690 [V]	Protection class	IP55
Thermal protection class	F	Efficiency class	IE3
Winding protection	1 thermistor kit	Reinforced bearings	Yes
Special version	No		

CORROSION PROTECTION

Class / Category	C2	Underlay	ZG15
Paint finish	ZE27	Temperature resistance	120 °C
Total layer thickness	80 µm	RAL colour of the housing	5015
RAL colour of the rest of the fan	5015	RAL colour of the motor	5015

FAN

Fan kind	CLASSIC Transport fans	Fan type	PSC-S
Fan type number	80/40/30/90	Fan position	GL 360 (LG 0)
Execution	Standard	Medium	Shreds of paper and cardboard
Impeller	Open	Drive	Direct
Balancing class	G6,3	Number of fans	1
Additional information	Welded steel housing, impeller statically and dynamically balanced		



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ACCESSORIES

Additional accessories

Equipment included in
price

VALUATION

Fan PSC-S 80/40/30/90

2 825.50 EUR

Total price: 2 825.50 EUR

DELIVERY AND ADDITIONAL INFORMATIONS

Delivery time

6 to 8 weeks from order date

Offer expiration time

6 weeks

Characteristic curve

PSC-S 80/40/30/90

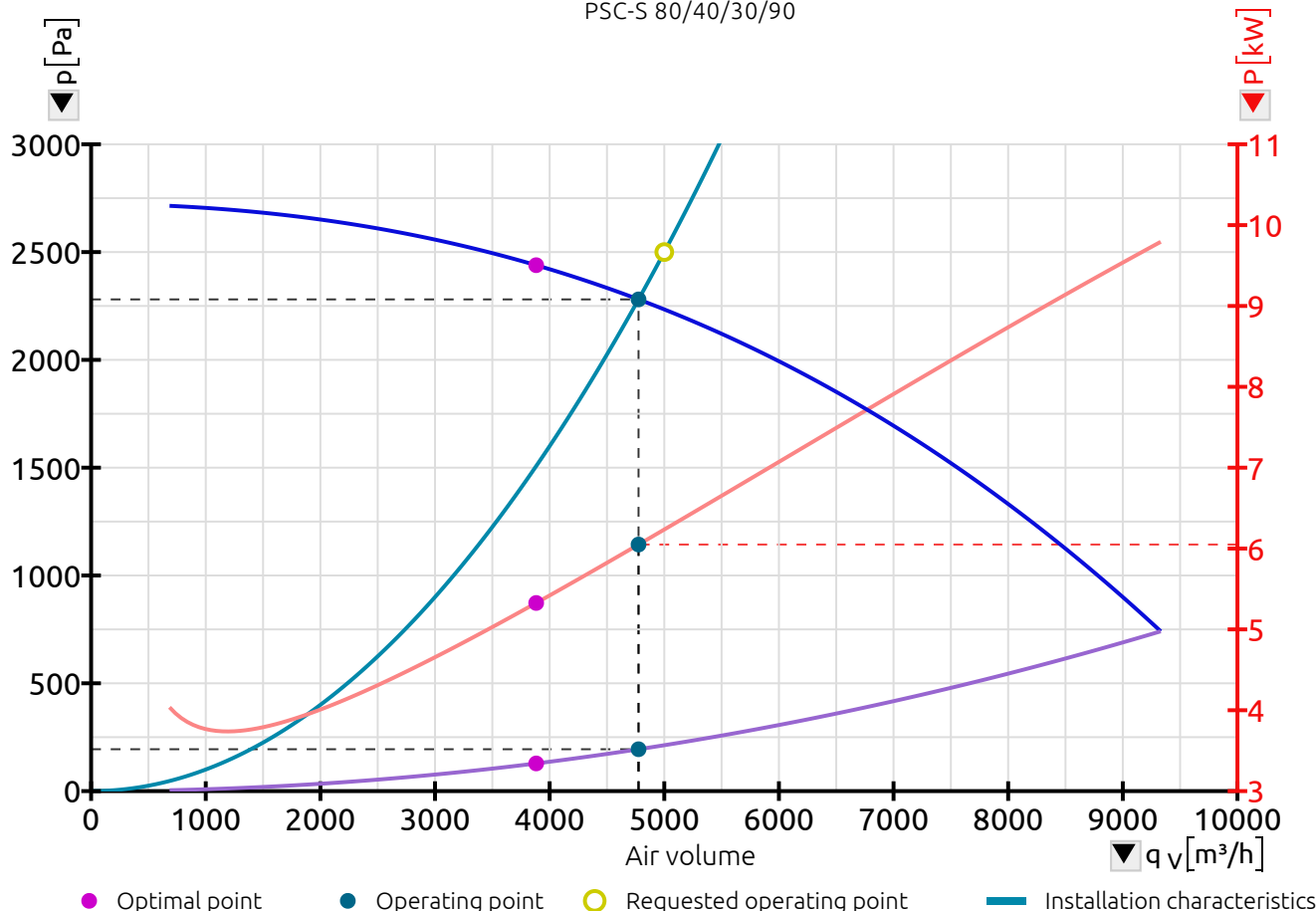


CHART COMPONENTS

Total pressure [p_T]	Total efficiency [η_T]	Shaft power without material [P_a]	Current at voltage V_1 (400 V)
Static pressure [p_{sF}]	Static efficiency [η_{sF}]	Shaft power with material [P_a]	Noise level [L_{AG}]
Dynamic pressure [p_{dF}]		Electrical power [P_e]	Current at voltage V_2 (690 V)

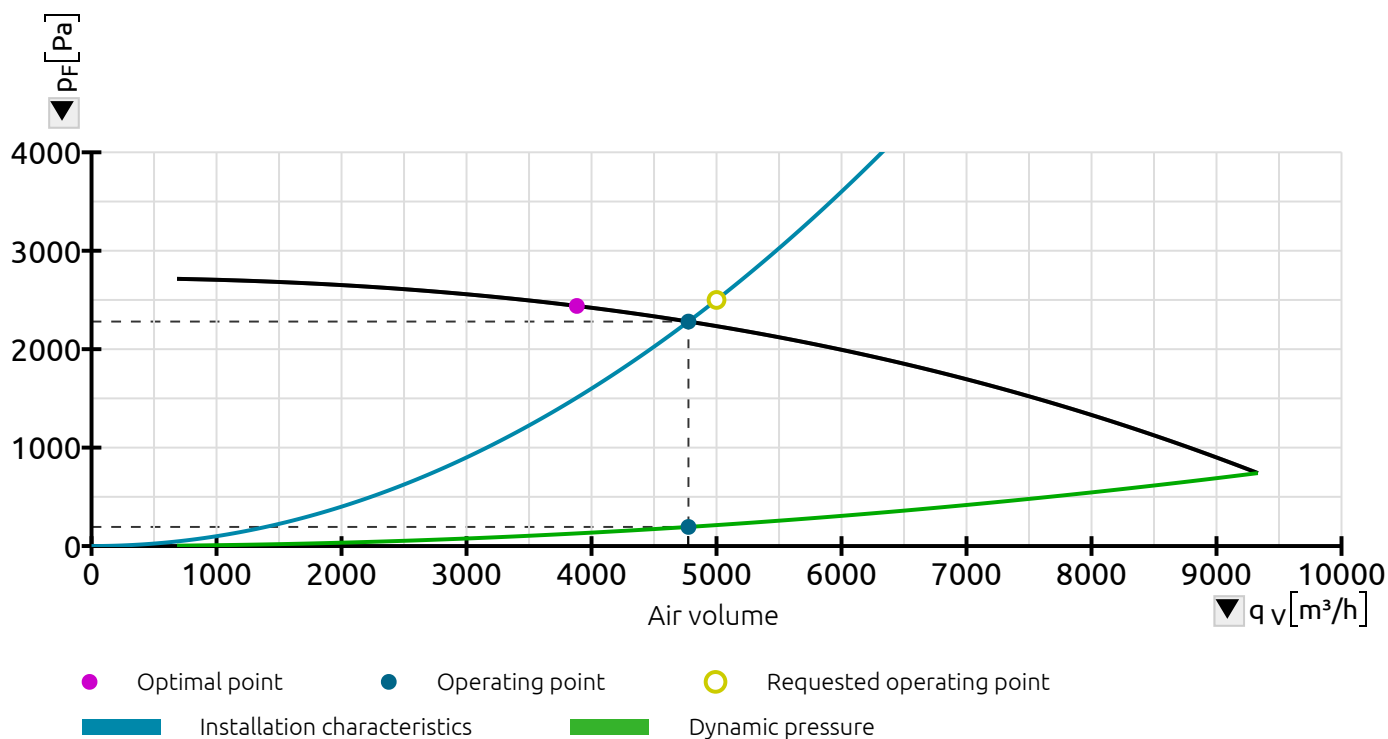
MAIN AXIS

Pressure [p]	Efficiency [η]	Power [P]	Noise level [L]	Current [I]
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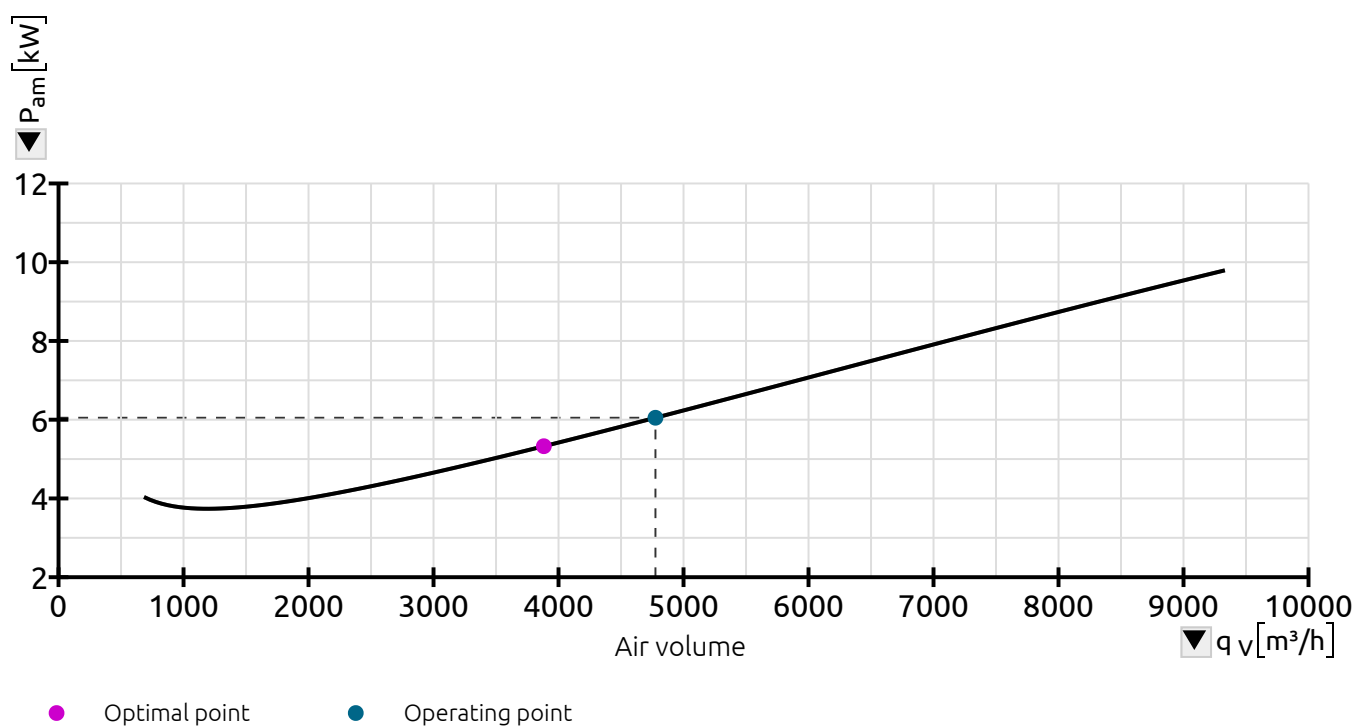
OPERATING POINT

Air density	1.2 [kg/m³]	Air volume	4775 [m³/h]
Static pressure	2086 [Pa]	Total pressure	2280 [Pa]
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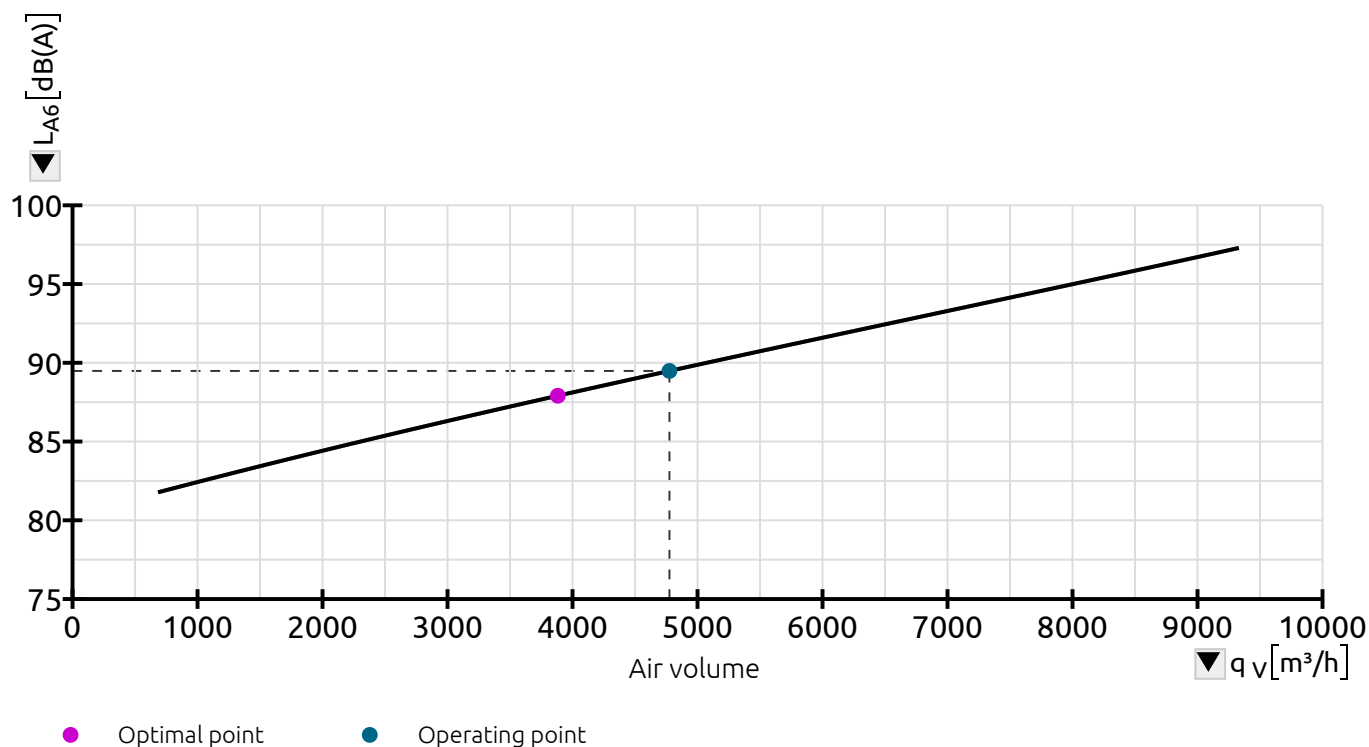
Total pressure [p_F]



Shaft power with material [P_a]



Noise level [L_{A6}]





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