



Product card No. OS-18-20230212-174002-032-3
Fan USC-SFN 67/55/30/80

Client	XPLO Sp. z o.o.	Prepared by	m.sekienda@netecs.pl
Commission	Wentylator V=10000 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	10000 [m ³ /h]
Altitude ASL	0.000 [m]	Temperature	20 [°C]
Duct diameter	0.35 [m]	EX	No

OPERATING PARAMETERS

Air density	1.2 [kg/m ³]	Air volume	10658 [m ³ /h]
Static pressure	2314 [Pa]	Total pressure	2840 [Pa]
Dynamic pressure	526 [Pa]	Total efficiency	0.75 [-]
Static efficiency	0.611 [-]	Noise level	88 [dB(A)]
Shaft power	11.2 [kW]	Installed power	15 [kW]
Duct diameter	0.35 [m]	Operating frequency	50 [Hz]
Average air speed in ducting	30.77 [m/s]	Housing dimensions	969x894 [mm]
Weight	214 [kg]	Minimum amount of air at the minimum frequency	1764 [m ³ /h]
Average rated fan speed	2950 [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	20 [°C]	60 [°C]
Ambient temperature	-20 [°C]	40 [°C]
Rotor revolutions	-	3000 [1/min]



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MOTOR

Producer	Lammers	Motor poles	2
Rated speed	2960 [1/min]	Rated power	15 [kW]
Motor designation	1TZ9003-1DA3_160M	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 Clean gas fans	Fan type	USC-SFN
Fan type number	67/55/30/80	Fan position	GL 360 (LG 0)
Execution	Standard	Medium	Clean gas
Impeller	Closed	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 USC-SFN 67/55/30/80

Total price: 3 641.60 EUR

DELIVERY AND ADDITIONAL INFORMATION

Delivery time

6 to 8 weeks from order date

Offer expiration time

6 weeks

Characteristic curve

USC-SFN 67/55/30/80

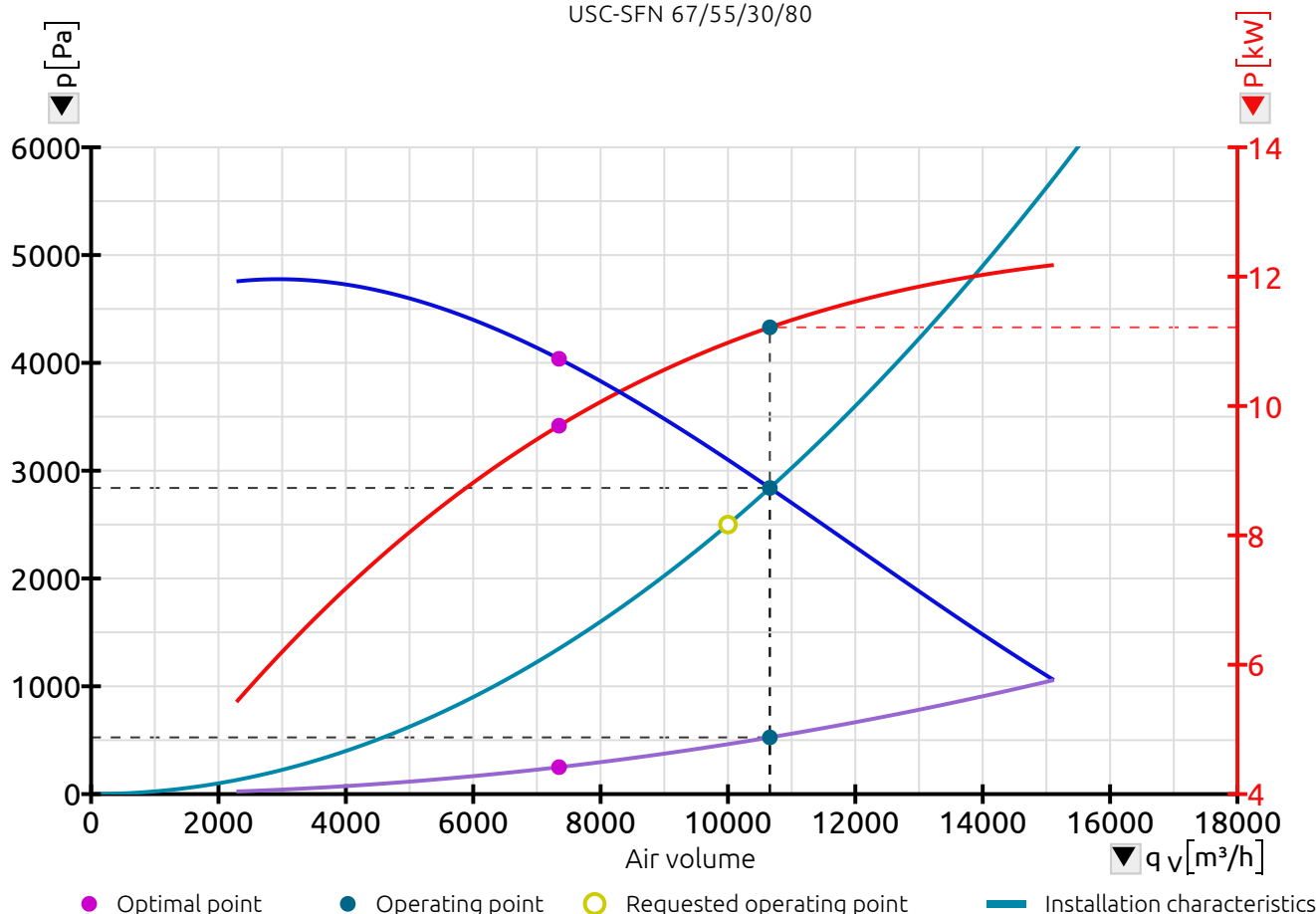


CHART COMPONENTS

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_{A6}]
Dynamic pressure [p_{dF}]		Electrical power [P_e]	Current at voltage V_2 (690 V)

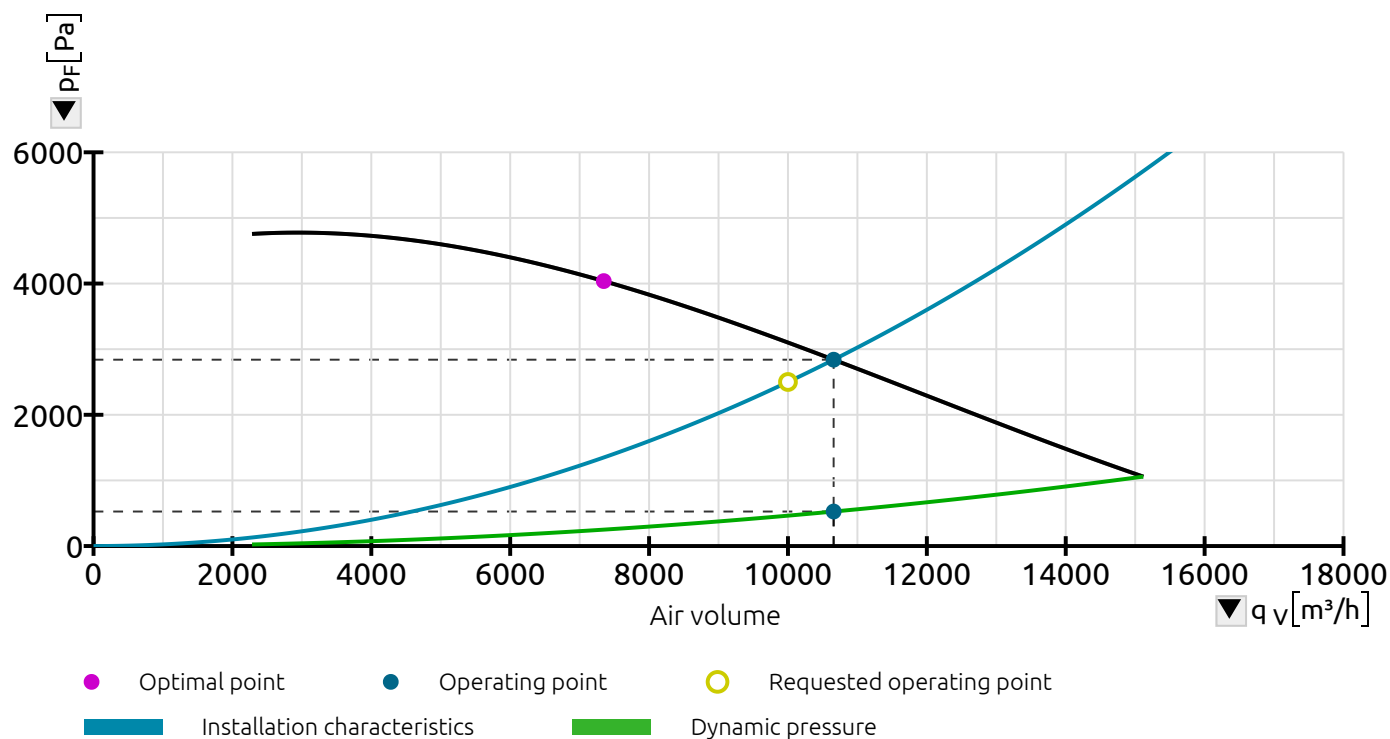
MAIN AXIS

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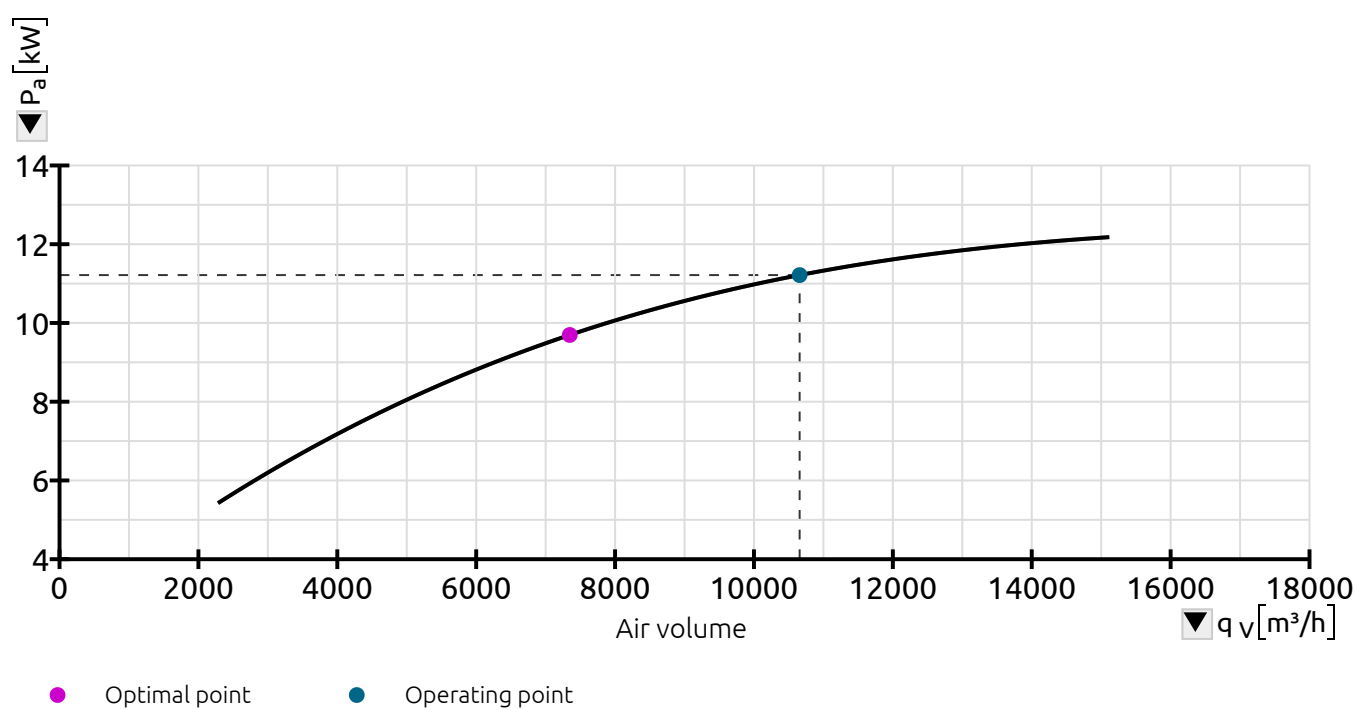
OPERATING POINT

Air density	1.2 [kg/m ³]	Air volume	10658 [m ³ /h]
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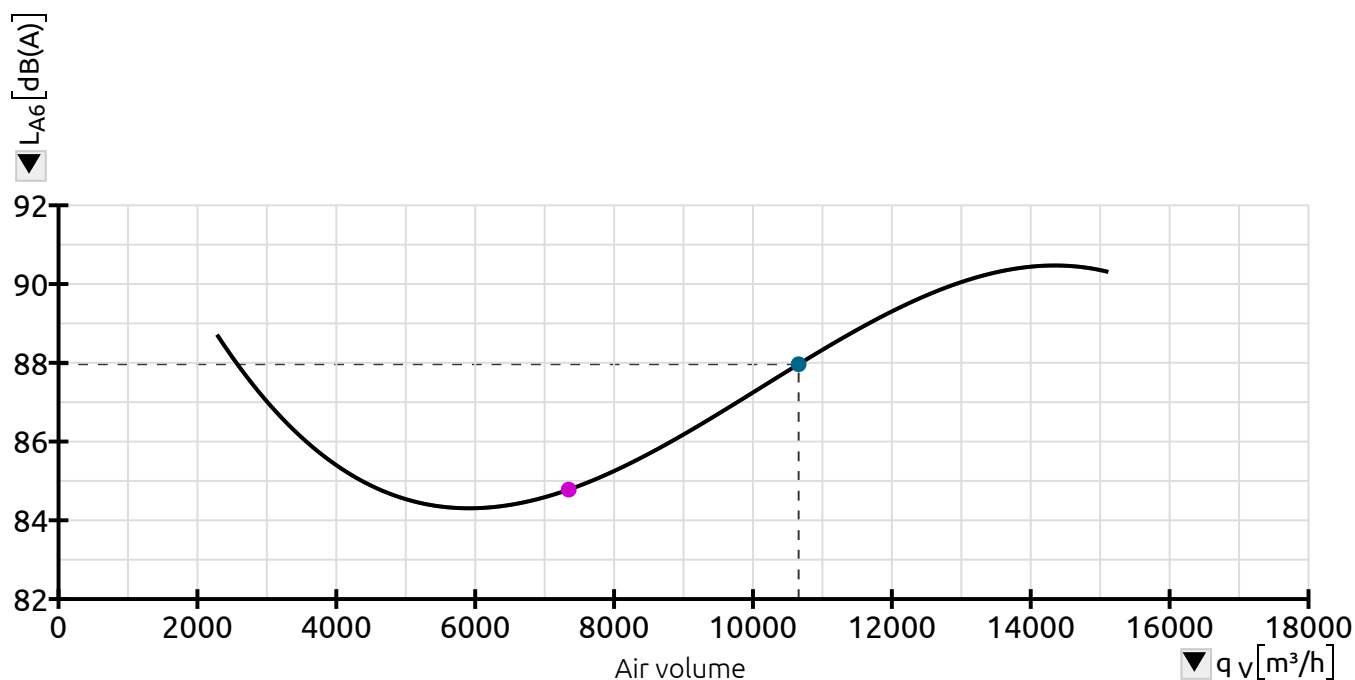
Total pressure [p_F]



Shaft power without material [P_a]



Noise level [L_{A6}]



● Optimal point
 ● Operating point



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