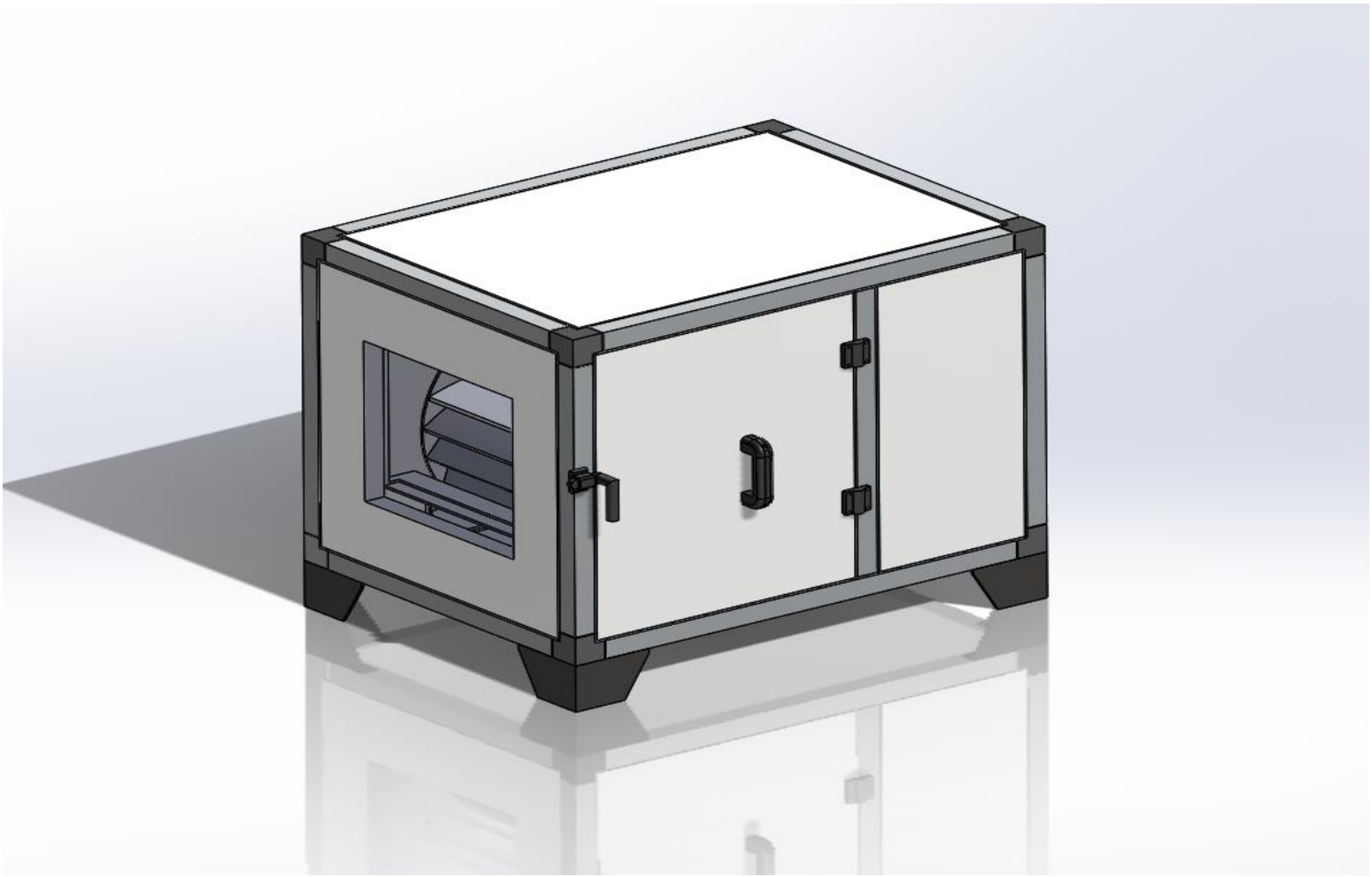
EHD 18/18



العنوان: شارع حسن سيف من طريق المنصورية امام معسكر بني يوسف زاوية أبو مسلم -ابوالنمرس - الجيزة

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Fan Components and Material Properties

Fan Body and fan are made of high-quality galvanized steel which is resistant to corrosion. BRV double suction centrifugal fans are manufactured as standard in different sizes between 700 m^3/h and 25 000 m^3/h. The motor and fan impeller are produced on the shaft by means of double bearings and the main body with steel carriers. Mattress protectors are made of rubber.

Benefits

It produces a high flow rate with its frequent wing structure. Speed adjustable with belt pulley drive system. The BRV-K models are reinforced.

Usage Areas

Box Fans and air handling units etc. are preferred.

Fan Structure

Double suction, forward-curved low-pressure radial type fan. The fan wheel is made of high quality galvanized steel which is resistant to corrosion and is manufactured in an aerodynamic structure to ensure regular flow. Thanks to its aerodynamic wing structure, it works quietly.

Speed Control

The Belt pulley system is made by changing the conversion rate.

dimension/BRV_drawing.pdf
Download

Design point

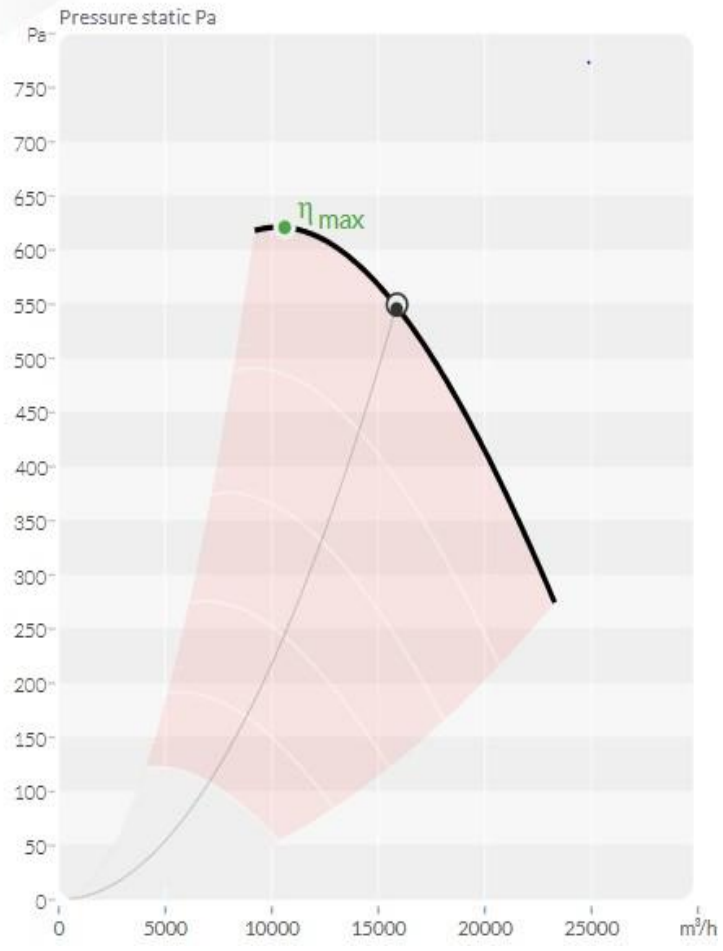
static | total

Airflow / Static Pressure	Q	**16000** m³/h	Δp	**550** Pa
Temperature medium / Air density	t_{MED}	**20** °C	ro	**1.204** kg/m^3

Frequency: **50Hz** | 60Hz

Duty point ● Maximum efficiency point

		Duty point	Maximum efficiency point
Flow	Q	**15979** m³/h	**10689** m³/h
Static pressure	Δp_{ST}	**548** Pa	**621** Pa
Total pressure	Δp_{TOT}	**716** Pa	**696** Pa
Dynamic pressure	Δp_{DYN}	**168** Pa	**75** Pa
Speed	v	**16.68** m/s	**11.16** m/s
Instantaneous Rotational Speed	n	**900** rpm	**900** rpm
Power	P_{ABS}	**5140** W	**3172** W
SFP	SFP	**1158** W/m^3/s	**1068** W/m^3/s
Static efficiency	η_{ST}	**47.3** %	**58.2** %
Total efficiency	η_{TOT}	**61.8** %	**65.2** %



Technical data

Flow properties

Maximum Airflow Volume	Q_{MAX}	18250	m³/h
Maximum Static Pressure	Ps_{MAX}	380	Pa
Nominal Rotational Speed	n	500	rpm

Electrical

Number of phases	~	3	
Nominal voltage	U_{NOM}	400	V
Nominal power	P_{NOM}	4000	W
Maximum power consumption	P_{MAX}	4300	W
Nominal frequency	f_{NOM}	50	Hz

Parameters

Diameter	⌀D	31	mm
Profile for rectangular connections	□ AxB	477x477	mm
Unit weight	m	40.5	kg

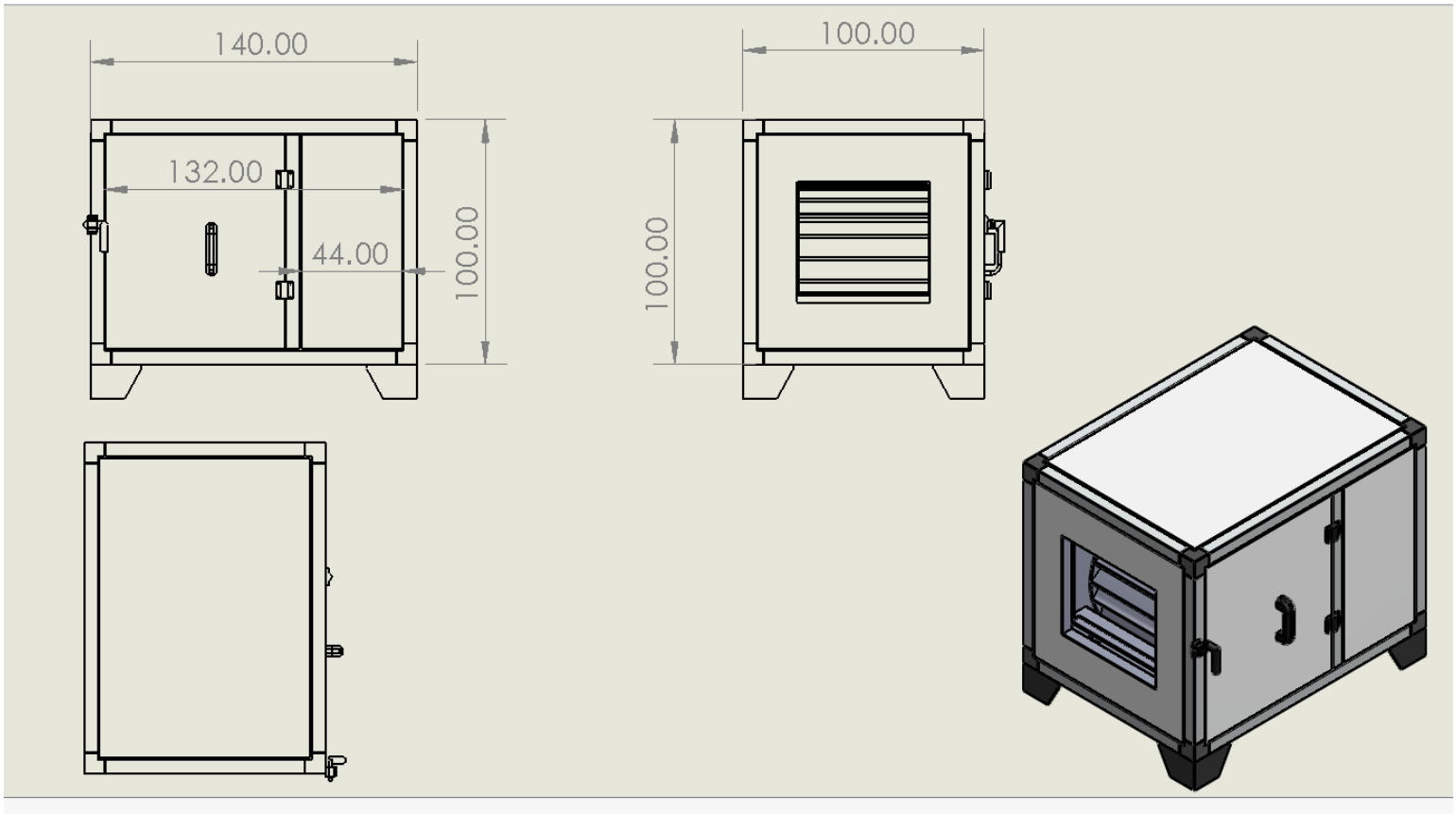
Electric motor

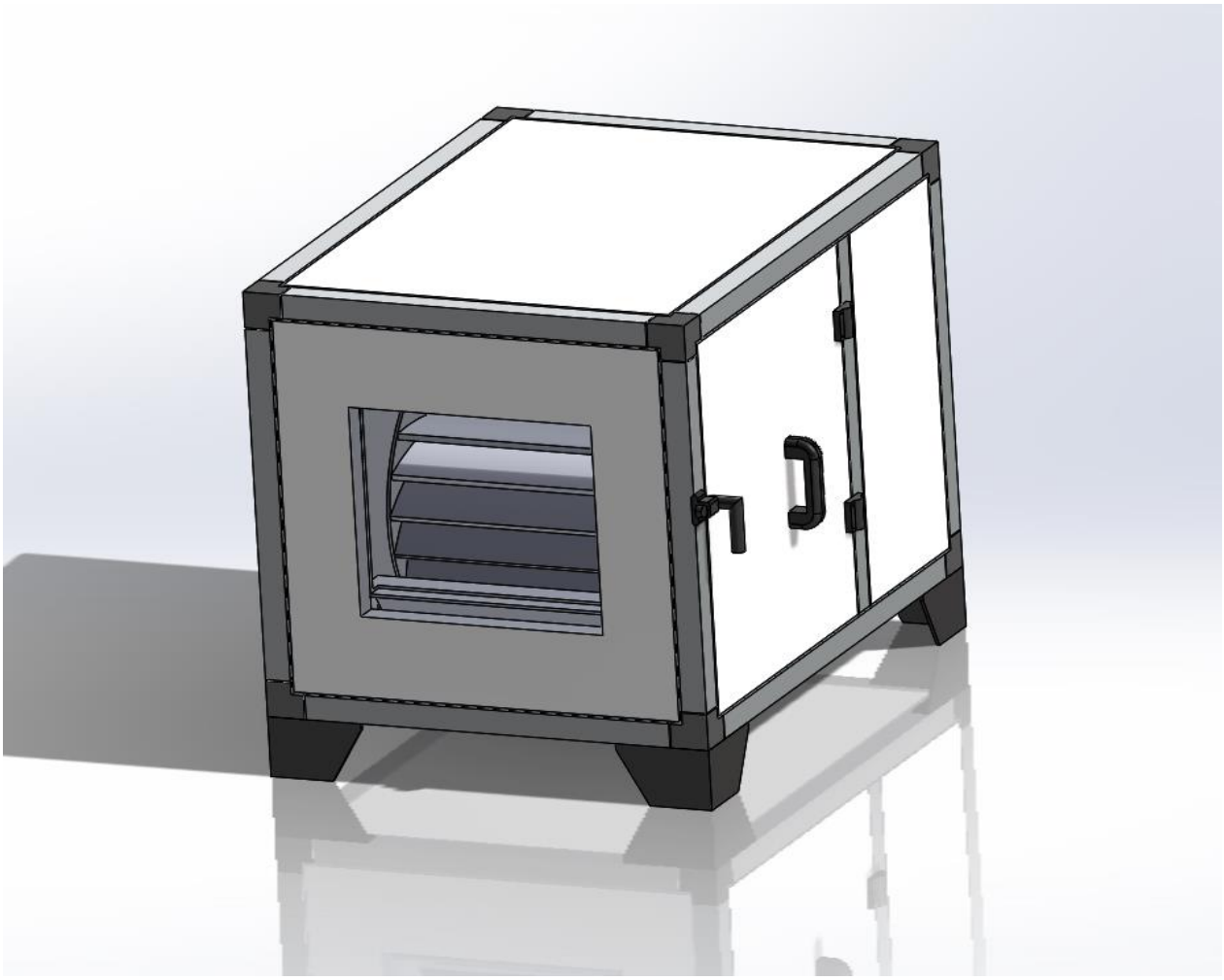
Motor type		AC
Type of motor control		rpm
Number of Motor Poles		8
Motor protection class		IP55
Motor insulation class		F
Motor protection		TEFC
Capacitor voltage	U_{CAP}	400 V

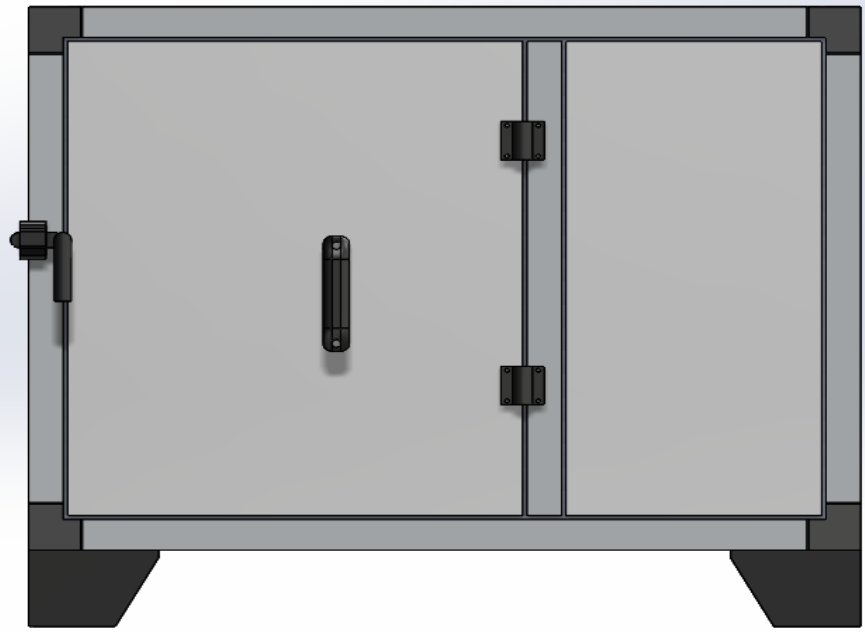
Temperature

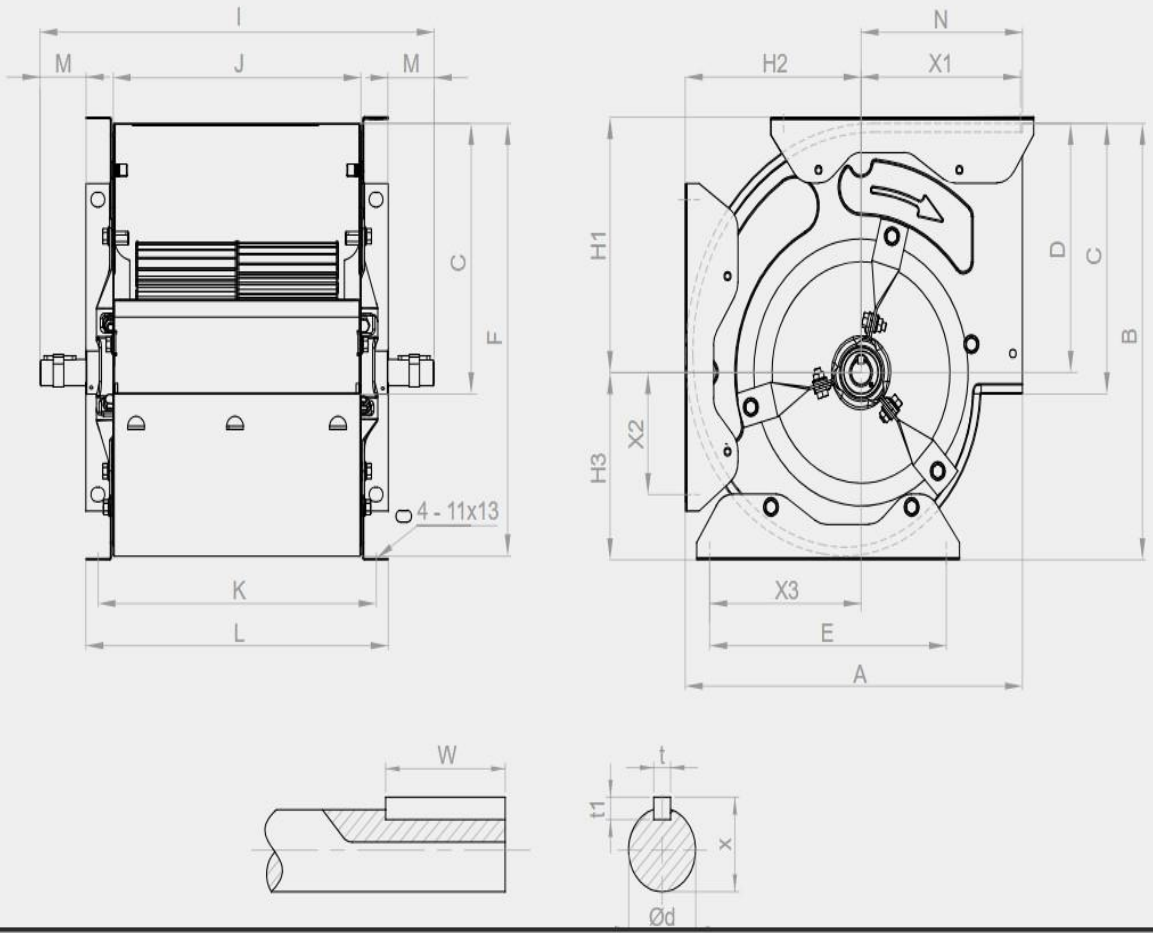
Minimum operating temperature	$t_{OPER\,MIN}$	-20	°C
Maximum operating temperature	$t_{OPER\,MAX}$	60	°C
Maximum medium temperature	$t_{MEDIUM\,MAX}$	60	°C

Acoustics









A	B	C	D	d	E	F	H1	H2	H3	I	J	K	L	M	N	t	t1	W	X	X1	X2	X3
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
597	620	402	341	25	497	610	349	324	279	650	476	505	531	60	264	8	7	60	28	260	214	301