

Йотова, Цветелина А.

From: Богоева, Юлия К.
Sent: 19 април 2019 г. 15:42
To: Йотова, Цветелина А.
Сс: Александров, Пламен Г.; Маринова, Милена Т.
Subject: FW: Пазарна консултация 40897
Attachments: Offer NPP_19042019.pdf; Project_AEC_Козлодуй_190402143210.pdf; A6V10403514_Differential pressure sensor QBM3020-.._en (2).pdf

АЕЦ Вх. №Ф-2481 / 19.04.2019г.

From: Kabora Ltd. [<mailto:office@kabora.net>]
Sent: Friday, April 19, 2019 2:19 PM
To: commercial
Subject: Пазарна консултация 40897

Здравейте,
Приложена е оферта и технически спецификации за предложените вентилатори.

Поздрави,
Илия Колчев



Кабора ЕООД
София 1202, ул. Малашевска, № 8
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ОФЕРТА

Индикативно предложение по проведени пазарни консултации №40897 с предмет "За доставка на 14 броя вентилатори с постоянен режим на работа в КЗ на цех ХОГ"

от Кабора ЕООД

София, ул. Малашевска №8

02 83 90 500; 088 83 90 500

office@kabora.net; kabora.net

Леце за контакт: инж. Илия Колчев

№	Наименование	к-во	ед.цена	общо
	Вентилатори			
1	Центробежен вентилатор на виброрама с работно колело монтирано директно към вала на ел. двигателя; положение - ляво - 0°; разход - 21800 м3/ч; напор - 1422 Pa; напрежение - 380 V; мощност-до 18.5kW; честота - 50 Hz; степен на защита - мин. IP 44; клас на изолация - F; обороти - 1470 min-1; подавана среда - атмосферен въздух - грубо очистен; честотно регулиране на ел.двигателя с честотен регулатор тип Power Flex 70, 37A (съществуващо); мека връзка към съществуващите въздуховоди 600x600 mm (изход); Dy=850 mm (вход); корпус от въглеродна стомана. LK11LA01; LK11LA02; L-O CMRS-800-4T-25 IE3; Sodeca - Испания	2	8,800.00	17,600.00

2	Центробежен вентилатор на виброрама с работно колело монтирано директно към вала на ел. двигателя; положение - ляво - 0°; разход - 28700 м3/ч; напор - 1422 Pa; напрежение-380 V; мощност - до 18.5 kW; честота - 50 Hz; степен на защита - мин. IP 44; клас на изолация - F; обороти - 1470 min-1 (препоръчително); подавана среда - атмосферен въздух - грубо очистен; честотно регулиране на ел.двигателя с честотен регулатор тип Power Flex 70, 43A (съществуващо); мека връзка към съществуващите въздуховоди 600x600 mm (изход); Dy=850 mm (вход); корпус от въглеродна стомана LK13LA01; L-0 CMRS-800-4T-25 IE3; Sodeca - Испания	1	8,800.00	8,800.00
3	Центробежен вентилатор на виброрама с работно колело монтирано директно към вала на ел. двигателя; положение - дясно - 0°; разход- 28700 м3/ч; напор - 1422 Pa; напрежение- 380 V; мощност - до 18.5 kW; честота - 50 Hz; степен на защита - мин. IP 44; клас на изолация - F; обороти - 1470 min-1 (препоръчително); подавана среда - атмосферен въздух - грубо очистен; честотно регулиране на ел.двигателя с честотен регулатор тип Power Flex 70, 43A (съществуващо); мека връзка към съществуващите въздуховоди 600x600 mm (изход); Dy=850 mm (вход); корпус от въглеродна стомана LK13LA02; R-0 CMRS-800-4T-25 IE3; Sodeca - Испания	1	8,800.00	8,800.00
4	Центробежен вентилатор на виброрама с работно колело монтирано директно към вала на ел. двигателя; положение-дясно - 0°; разход -28500 м3/ч; напор - 1471 Pa; напрежение-380 V; мощност - до 18.5 kW; честота - 50 Hz; степен на защита - мин. IP 44; клас на изолация - F; обороти - 1470 min-1 (препоръчително); подавана среда - атмосферен въздух -грубо очистен; честотно регулиране на ел.двигателя с честотен регулатор тип Power Flex 70, 43A (съществуващо); мека връзка към съществуващите въздуховоди 600x600mm (изход); Dy=850 mm (вход); корпус от въглеродна стомана. LK14LA01; LK14LA01; R-0 CMRS-800-4T-25 IE3; Sodeca - Испания	2	8,800.00	17,600.00

5	Центробежен вентилатор на виброрама с работно колело монтирано директно към вала на ел. двигателя; положение - ляво - 270°; разход- 24500м3/ч; напор - 2354 Pa; напрежение-380 V; мощност - до 37 kW; честота - 50 Hz; степен на защита - мин. IP 44; клас на изолация - F; обороти - 1480 min-1 (препоръчително); изсмуквана среда - атмосферен въздух от производствени помещения с повишена влажност (90^95%), но без агресивни газове; честотно регулиране на ел.двигателя с честотен регулатор тип Power Flex 70, 72A (съществуващо); мека връзка към съществуващите въздуховоди 600x600 mm (изход); Dy=850 mm (вход); корпус от въглеродна стомана <u>LK21LC01; L-270</u> <i>CMRS-900-4T-50 IE3; Sodeca - Испания</i>	1	13,400.00	13,400.00
6	Центробежен вентилатор на виброрама с работно колело монтирано директно към вала на ел. двигателя; положение - дясно - 270°; разход- 24500м3/ч; напор - 2354 Pa; напрежение-380 V; мощност-до 37 kW; честота - 50 Hz; степен на защита - мин. IP 44; клас на изолация - F; обороти - 1480 min-1 (препоръчително); изсмуквана среда - атмосферен въздух от производствени помещения с повишена влажност (90-^95%), но без агресивни газове; честотно регулиране на ел .двигателя с честотен регулатор тип Power Flex 70, 72A (съществуващо); мека връзка към съществуващите въздуховоди 600x600 mm (изход); Dy=850 mm (вход); корпус от въглеродна стомана <u>LK21LC02; R-270</u> <i>CMRS-900-4T-50 IE3; Sodeca - Испания</i>	1	13,400.00	13,400.00

7	Центробежен вентилатор на виброрама с работно колело монтирано директно към вала на ел. двигателя; положение-ляво-270°; разход -18500 м3/ч; напор - 1765 Pa; напрежение-380 V; мощност-до 15 kW; честота - 50 Hz; степен на защита - мин. IP 44; клас на изолация - F; обороти - 1465 min-1 (препоръчително); изсмуквана среда - атмосферен въздух от производствени помещения без агресивни газове; честотно регулиране на ел.двигателя с честотен регулатор тип Power Flex 70, 30A (съществуващо); мека връзка към съществуващите въздуховоди 470x470 mm (изход); Ду=660 mm (вход); корпус от въглеродна стомана LK23LC01; L-270 CASB-800-4T-20 IE3; Sodeca - Испания	1	8,380.00	8,380.00
8	Центробежен вентилатор на виброрама с работно колело монтирано директно към вала на ел. двигателя; положение - дясно - 270°; разход- 18500 м3/ч; напор - 1765 Pa; напрежение- 380 V; мощност-до 15 kW; честота - 50 Hz; степен на защита - мин. IP 44; клас на изолация - F; обороти - 1465 min-1 (препоръчително); изсмуквана среда - атмосферен въздух от производствени помещения без агресивни газове; честотно регулиране на ел.двигателя с честотен регулатор тип Power Flex 70, 30A (съществуващо); мека връзка към съществуващите въздуховоди 470x470 mm (изход); Ду=660 mm (вход); корпус от въглеродна стомана LK23LC02; R-270 CASB-800-4T-20 IE3; Sodeca - Испания	1	8,380.00	8,380.00

9	Центробежен вентилатор на виброрама с работно колело монтирано директно към вала на ел. двигателя; положение - ляво-270°; разход-19000 м3/ч; напор - 1765 Pa; напрежение-380 V; мощност-до 18.5 kW; честота - 50 Hz; степен на защита - мин. IP 44; клас на изолация - F; обороти - 2945 min-1 (препоръчително); изсмуквана среда - атмосферен въздух от производствени помещения без агресивни газове; честотно регулиране на ел.двигателя с честотен регулатор тип Power Flex 70, 37A (съществуващо); мека връзка към съществуващите въздуховоди 470x470mm (изход); Ду=660 mm (вход); корпус от въглеродна стомана <u>LK24LC01; L-270</u> <i>CMRS-500-2T-25 IE3; Sodeca - Испания</i>	1	5,450.00	5,450.00
10	Центробежен вентилатор на виброрама с работно колело монтирано директно към вала на ел. двигателя; положение - дясно - 270°; разход - 19000 м3/ч; напор - 1765 Pa; напрежение- 380 V; мощност-до18.5 kW; честота - 50 Hz; степен на защита - мин. IP 44; клас на изолация - F; обороти - 2945 min-1 (препоръчително); изсмуквана среда - атмосферен въздух от производствени помещения без агресивни газове; честотно регулиране на ел.двигателя с честотен регулатор тип Power Flex 70, 37A (съществуващо); мека връзка към съществуващите въздуховоди 470x470mm (изход); Ду=660 mm (вход); корпус от въглеродна стомана <u>LK24LC02; R-270</u> <i>CMRS-500-2T-25 IE3; Sodeca - Испания</i>	1	5,450.00	5,450.00

11	Центробежен вентилатор на виброрама с работно колело монтирано директно към вала на ел. двигателя; положение - ляво - 270°; разход - 8700 м³/ч; напор - 1255 Pa; напрежение - 380 V; мощност-до 5.5 kW; честота - 50 Hz; степен на защита - мин. IP 44; клас на изолация - F; обороти -2930 min-1(препоръчително); изсмуквана среда - атмосферен въздух от производствени помещения без агресивни газове; честотно регулиране на ел.двигателя с честотен регулатор тип Power Flex 70, 11A (съществуващо); мека връзка към съществуващите въздуховоди 570x476 mm (изход); Ду=670 mm (вход); корпус от въглеродна стомана LK31LC01; LK31LC02; L-270 CMRS-400-2T-7.5 IE3	2	5,450.00	10,900.00
Филтри				
1	Джобен филтър с 6÷8 джоба, с предна рамка от пластмаса или метал; размер 592/592мм. с максимална дълбочина на джоба до 800 мм.; материал - огнеупорно синтетично влакно F1-DIN53438; клас-G3, G4; дебит - 21800 м³/ч; Необходимият дебит ще се осигури чрез групиране на няколко джобни филтъра. **Съществуващ отвор: 100x150 см	6	80.00	480.00
2	Джобен филтър с 8÷10 джоба, с предна рамка от пластмаса или метал; размер 592/592мм. с максимална дълбочина на джоба до 800 мм.; материал -огнеупорно синтетично влакно F1-DIN53438; клас-G3, G4; дебит - 28700 м³/ч; Необходимият дебит ще се осигури чрез групиране на няколко джобни филтъра. **Съществуващ отвор: 100x150 см.	6	80.00	480.00
3	Джобен филтър с 8÷10 джоба, с предна рамка от пластмаса или метал; размер 592/592мм. с максимална дълбочина на джоба до 800 мм.; материал -огнеупорно синтетично влакно F1-DIN53438; клас-C3, G4; дебит - 28500 м³/ч; Необходимият дебит ще се осигури чрез групиране на няколко филтъра. **Съществуващ отвор: 100x150 см.	6	80.00	480.00
4	Клетъчна рамка за джобни филтри за монтаж на стена; брой джобни филтри в рамката - 6; размер на джобните филтри в рамката -592/592MM.	3	650.00	1,950.00
Диференциални манометри				

1	Манометърът да се окомплектова със съответният захранващ блок; Възможност за визуализация по място; основна грешка - до 3 % от показанието; обхват - ± 500 Pa; изходен сигнал - 0-10V; степен на защита - min. IP54 QBM3020-5D; Siemens	3	395.00	1,185.00
Клапани				
1	Въздушен клапан, жалюзиен тип - двупозиционен (отворено и затворено положение); ДУ-900; Ширина - до 360 мм.; Клапанът да се оборудва с подходящ ел. привод с работно напрежение 220V.	6	660.00	3,960.00

Общо, цена в лева без ДДС 126,695.00

20% ДДС 25,339.00

Общо, лева с ДДС 152,034.00

Забележки:

Срок за доставка 10-12 седмици
Начин на плащане: по договаряне
Гаранционен срок 24 месеца
Валидност на офертата 90 дни

Изготвил:

Илия Колчев

19 април 2019 г.



PROJECT REPORT



АЕЦ Козлодуй

АЕЦ КОЗЛОДУЙ

АЕЦ Козлодуй

Num.	Ref.	Remark	Model/Tool	Qty.	Speed (rpm)	Max. admissible current (A)	Power (kW) [*]	Design flowrate (m³/h)	Design pressure (Pa)	Flowrate (m³/h)	Pressure (Pa)
1		LK11LA01; LK11LA02; L-O	CMRS-800-4T-25 IE3	2	1470	35.10	18.50	21800	1422	24601.66	1810.99
2		LK13LA01; L-O	CMRS-800-4T-25 IE3	1	1470	35.10	18.50	28700	1422	29591.01	1511.66
3		LK13LA02; R-O	CMRS-800-4T-25 IE3	1	1470	35.10	18.50	28700	1422	29591.01	1511.66
4		LK14LA01; LK14LA01; R-O	CMRS-800-4T-25 IE3	2	1470	35.10	18.50	28500	1471	29173.21	1541.32
5		LK21LC01; L-270	CMRS-900-4T-50 IE3	1	1480	66.80	37	24500	2354	25445.58	2539.22
6		LK21LC02; R-270	CMRS-900-4T-50 IE3	1	1480	66.80	37	24500	2354	25445.58	2539.22
7		LK23LC01; L-270	CASB-800-4T-20 IE3	1	1465	27.90	15	18500	1765	18930.31	1848.07
8		LK23LC02; R-270	CASB-800-4T-20 IE3	1	1465	27.90	15	18500	1765	18930.31	1848.07
9		LK24LC01; L-270	CMRS-500-2T-25 IE3	1	2945	33.90	18.50	19000	1765	19101.75	1783.99
10		LK24LC02; R-270	CMRS-500-2T-25 IE3	1	2945	33.90	18.50	19000	1765	19101.75	1783.99
11		LK31LC01; LK31LC02; L-270	CMRS-400-2T-7.5 IE3	2	2930	10.10	5.50	8700	1255	8758.46	1272.06
TOTAL				14	-	-	263	-	-	-	-

[*] Rated Mechanical Power except for values with * which are Max. Electrical Power

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CMRS-800-4T-25 IE3

АЕЦ Козлодуй
LK11LA01; LK11LA02; L-0



Extremely robust medium pressure, single-inlet centrifugal fans fitted with a backward-curved blade impeller

Fan:

- Sheet steel casing.
- Reaction blade impeller in extremely robust sheet steel, specially designed for transporting clean or slightly dusty air.
- Motor coupled directly.
- Fitted with inspection hatch, except models 350, 400, 450, 500 and 560.

Motor:

- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400V-50Hz (up to 4kW) and 400/690V-50Hz (powers higher than 4kW).
- Maximum temperature of air to be carried: -20°C + 120°C.

Finish:

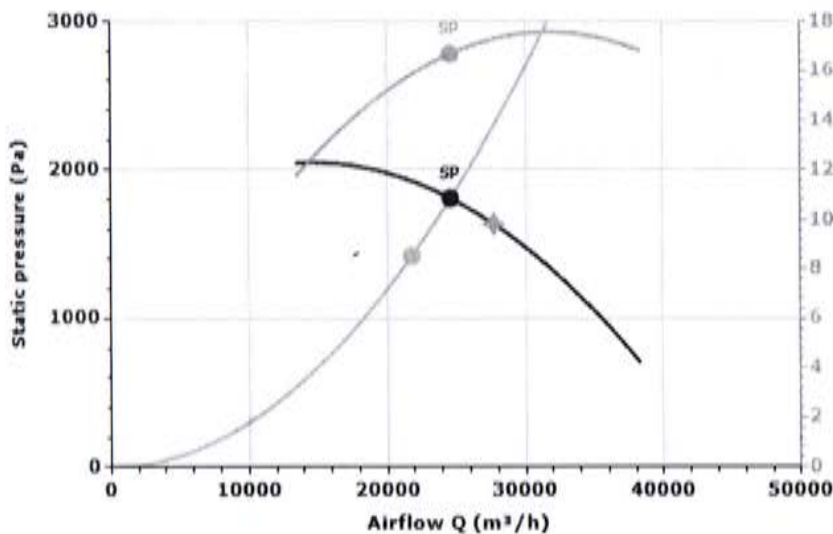
- Anti-corrosive finish of polyester resin polymerised at 190°C, previously degreased with phosphate-free nanotechnological treatment.

On request:

- Special windings for different voltages.
- Fan prepared for air transmission of up to 250°C.
- Stainless steel fan.
- ATEX-certified Category 2.
- System 8 elastic coupling.



CHARACTERISTIC CURVE AND ACOUSTICS AT 1.2KG/M³



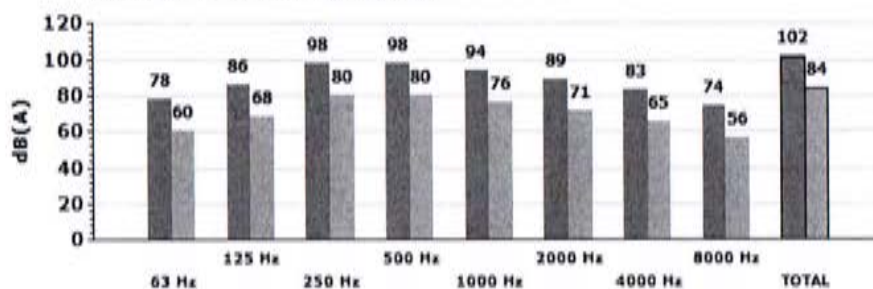
Design Point

Q (m³/h)	21800
Ps (Pa)	1422

Service Point (SP)

Q (m³/h)	24601.66
Ps (Pa)	1810.99
Pd (Pa)	134.89
Pt (Pa)	1945.88
Impeller (rpm)	1470
Max. Temp. (°C)	120
Outlet air speed (m/s)	14.99
SFP (kW/m³/s)	2.63
Mechanical Power (kW)	16.69

Acoustics: Inlet, 3 (m), 1 reflecting plane



Band	Lw dB(A)	Lp dB(A)
63 Hz	78	60
125 Hz	86	68
250 Hz	98	80
500 Hz	98	80
1000 Hz	94	76
2000 Hz	89	71
4000 Hz	83	65
8000 Hz	74	56
TOTAL	102	84

TECHNICAL CHARACTERISTICS

Airflow maximum (m³/h)	38250
Speed (rpm)	1470
Approx. weight (kg)	480

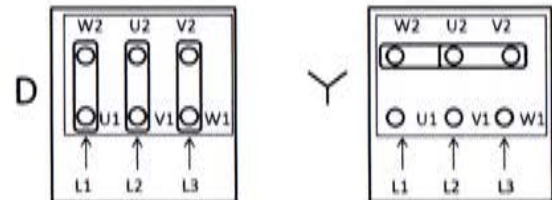
ERP

Efficiency	74.9%	Pressure (Pa)	1809
Efficiency grade N	74.3	Input power (kW)	18.598
Measurement category	B	Speed (rpm)	1472
Efficiency category	Total	Variable speed drive	VSD not necessary
Specific ratio	1.02	ErP compliance	2015
Flowrate (m³/h)	27729		

* Data established at point of optimum efficiency

MOTOR DATA

Rated Mechanical Power (kW)	18.50
Hz/phases	50/3
Motor (rpm)	1470
Poles	4P
Max. current (A) 380-415 V D	35.10
Max. current (A) 660-725 V Y	20.30
Motor protection	IP55
Motor frame size	180M



Data can change, please check motor plate

AVAILABLE ACCESSORIES



It must be checked that the accessory is suitable for the fan model

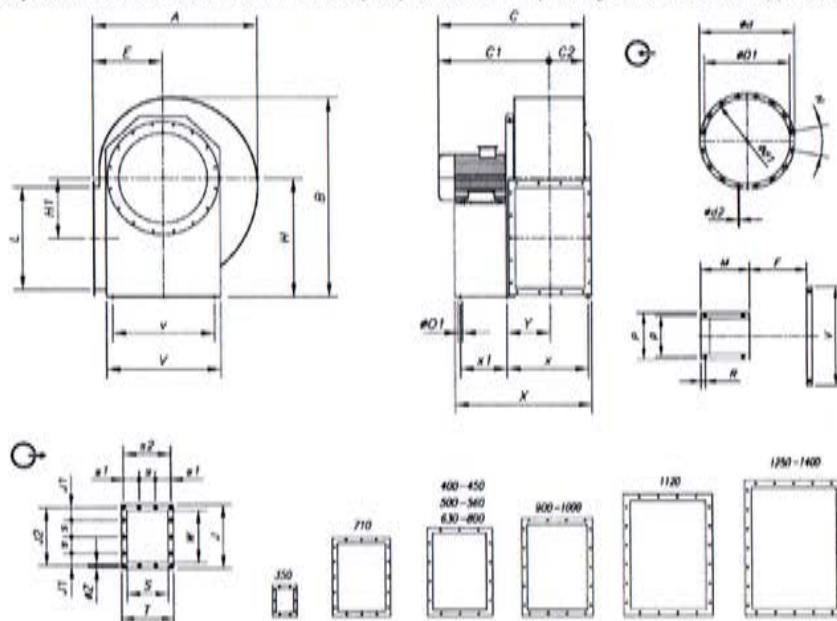
DIMENSIONS

A	B	C	C1	C2	ØD1	Ød	Ød1	Ød2	N	E	H	H1	L
1312	1592	1136	644	292	805	920	861	14	16x22°x3 0°	560	950	482	808

F	M	R	ØO1	P	p	V	v	X	x	x1	Y	T	J
574	543	39	19	926	862	965	862	1184	675	441	353	689	921

J2	J1	S	s	s1	s2	W	ØZ
871	135	574	200	119	639	808	14

Dimensions without explicitly defined units are shown in millimeters (mm). Dimensions depending on the motor are approximate



CMRS-800-4T-25 IE3

АЕЦ Козлодуй
LK13LA01: L-0



Extremely robust medium pressure, single-inlet centrifugal fans fitted with a backward-curved blade impeller

End:

- Sheet steel casing.
- Reaction blade impeller in extremely robust sheet steel, specially designed for transporting clean or slightly dusty air.
- Motor coupled directly.
- Fitted with inspection hatch, except models 350, 400, 450, 500 and 560.

Motor:

- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400V-50Hz (up to 4kW) and 400/690V-50Hz (powers higher than 4kW).
- Maximum temperature of air to be carried: -20°C + 120°C.

Finish:

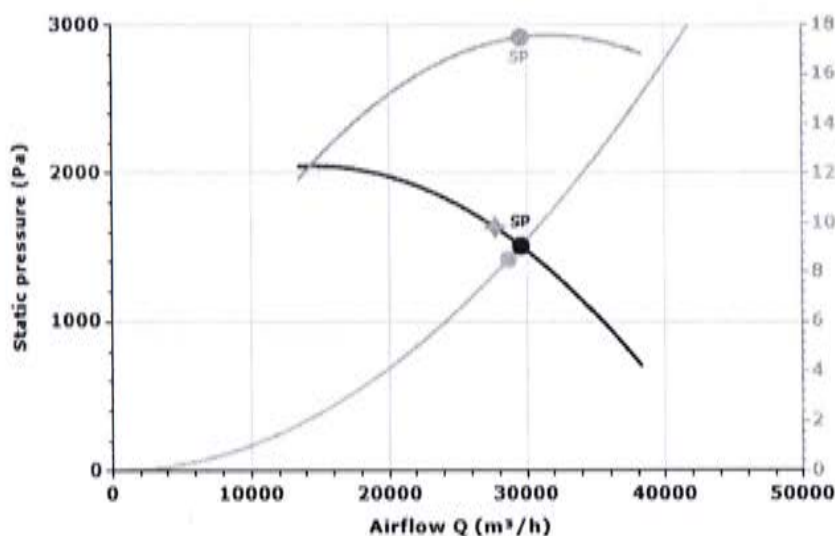
- Anti-corrosive finish of polyester resin polymerised at 190°C, previously degreased with phosphate-free nanotechnological treatment.

On request:

- Special windings for different voltages.
- Fan prepared for air transmission of up to 250°C.
- Stainless steel fan,
- ATEX-certified Category 2.
- System 8 elastic coupling.



CHARACTERISTIC CURVE AND ACOUSTICS AT 1.2KG/M³



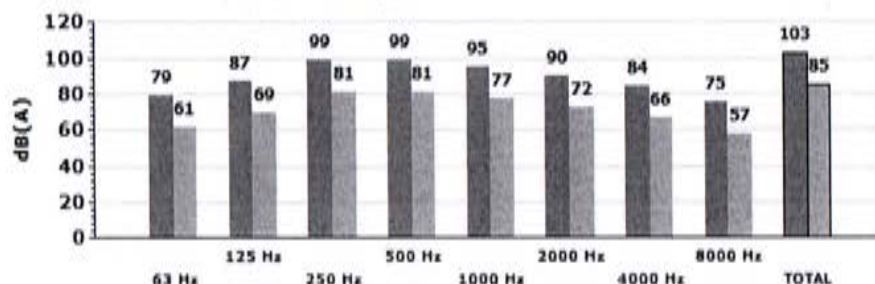
Design Point

Q (m³/h)	28700
P _s (Pa)	1422

Service Point (SP)

Q (m³/h)	29591.01
Ps (Pa)	1511.66
Pd (Pa)	195.15
Pt (Pa)	1706.82
Impeller (rpm)	1470
Max. Temp. (°C)	120
Outlet air speed (m/s)	18.03
SFP (kW/m³/s)	2.29
Mechanical Power (kW)	17.49

Acoustics: Inlet, 3 (m), 1 reflecting plane



Band	Lw dB(A)	Lp dB(A)
63 Hz	79	61
125 Hz	87	69
250 Hz	99	81
500 Hz	99	81
1000 Hz	95	77
2000 Hz	90	72
4000 Hz	84	66
8000 Hz	75	57
TOTAL	103	85

TECHNICAL CHARACTERISTICS

Airflow maximum (m³/h)	38250
Speed (rpm)	1470
Approx. weight (kg)	480

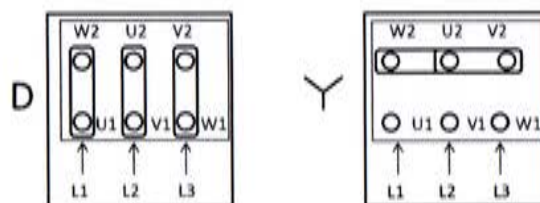
ERP

Efficiency	74.9%	Pressure (Pa)	1809
Efficiency grade N	74.3	Input power (kW)	18.598
Measurement category	B	Speed (rpm)	1472
Efficiency category	Total	Variable speed drive	VSD not necessary
Specific ratio	1.02	ErP compliance	2015
Flowrate (m³/h)	27729		

* Data established at point of optimum efficiency

MOTOR DATA

Rated Mechanical Power (kW)	18.50
Hz/phases	50/3
Motor (rpm)	1470
Poles	4P
Max. current (A) 380-415 V D	35.10
Max. current (A) 660-725 V Y	20.30
Motor protection	IP55
Motor frame size	180M



Data can change, please check motor plate

AVAILABLE ACCESSORIES

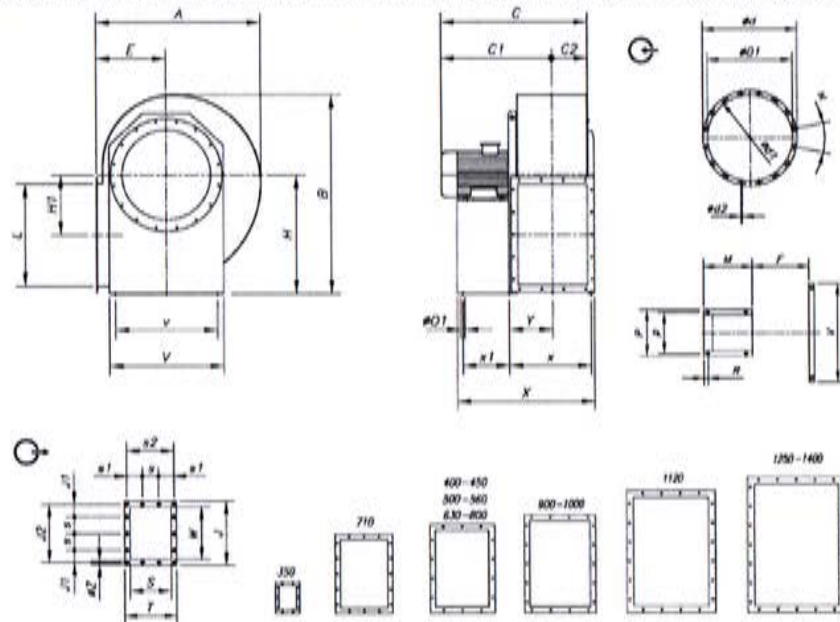


It must be checked that the accessory is suitable for the fan model

DIMENSIONS

A	B	C	C1	C2	ØD1	Ød	Ød1	Ød2	N	E	H	H1	L
1312	1592	1136	644	292	805	920	861	14	16x22°x3 0°	560	950	482	808
F	M	R	ØO1	P	p	V	v	X	x	x1	Y	T	J
574	543	39	19	926	862	965	862	1184	675	441	353	689	921
J2	J1	S	s	s1	s2	W	ØZ						
871	135	574	200	119	639	808	14						

Dimensions without explicitly defined units are shown in millimeters (mm). Dimensions depending on the motor are approximate



CMRS-800-4T-25 IE3

АЕЦ Козлодуй
LK13LA02; R-0



Extremely robust medium pressure. single-inlet centrifugal fans fitted with a backward-curved blade impeller

Fan:

- Sheet steel casing.
- Reaction blade impeller in extremely robust sheet steel, specially designed for transporting clean or slightly dusty air.
- Motor coupled directly.
- Fitted with inspection hatch, except models 350, 400, 450, 500 and 560.

Motor:

- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400V-50Hz (up to 4kW) and 400/690V-50Hz (powers higher than 4kW).
- Maximum temperature of air to be carried: -20°C + 120°C.

Finish:

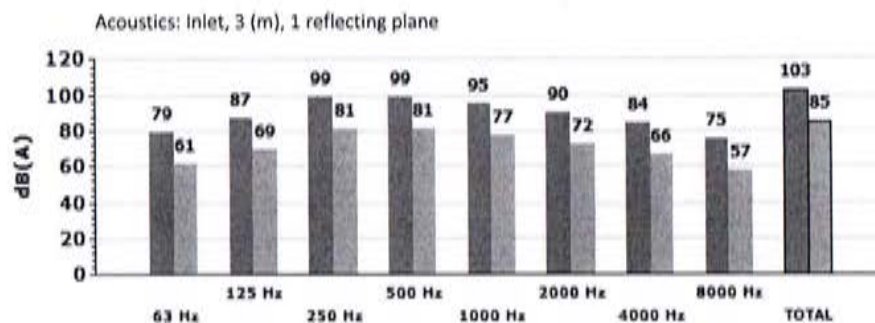
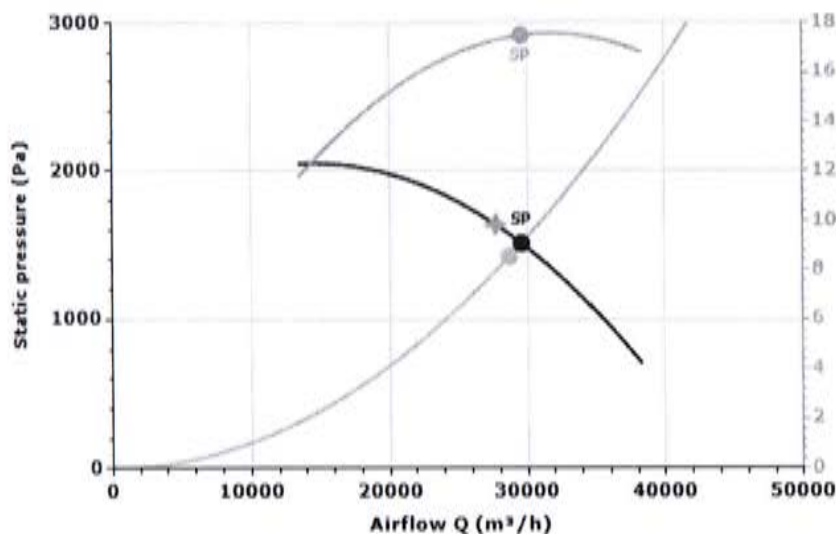
- Anti-corrosive finish of polyester resin polymerised at 190°C, previously degreased with phosphate-free nanotechnological treatment.

On request:

- Special windings for different voltages.
- Fan prepared for air transmission of up to 250°C.
- Stainless steel fan.
- ATEX-certified Category 2.
- System 8 elastic coupling.



CHARACTERISTIC CURVE AND ACOUSTICS AT 1.2KG/M³



Band	Lw dB(A)	Lp dB(A)
63 Hz	79	61
125 Hz	87	69
250 Hz	99	81
500 Hz	99	81
1000 Hz	95	77
2000 Hz	90	72
4000 Hz	84	66
8000 Hz	75	57
TOTAL	103	85

TECHNICAL CHARACTERISTICS

Airflow maximum (m³/h)	38250
Speed (rpm)	1470
Approx. weight (kg)	480

ERP

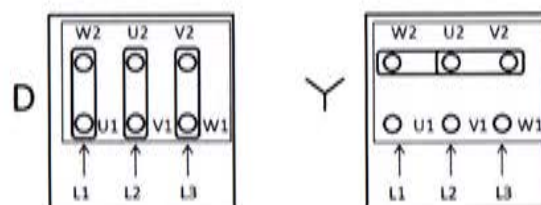
Efficiency	74.9%
Efficiency grade N	74.3
Measurement category	B
Efficiency category	Total
Specific ratio	1.02
Flowrate (m³/h)	27729

Pressure (Pa)	1809
Input power (kW)	18.598
Speed (rpm)	1472
Variable speed drive	VSD not necessary
ErP compliance	2015

* Data established at point of optimum efficiency

MOTOR DATA

Rated Mechanical Power (kW)	18.50
Hz/phases	50/3
Motor (rpm)	1470
Poles	4P
Max. current (A) 380-415 V D	35.10
Max. current (A) 660-725 V Y	20.30
Motor protection	IP55
Motor frame size	180M



Data can change, please check motor plate

AVAILABLE ACCESSORIES

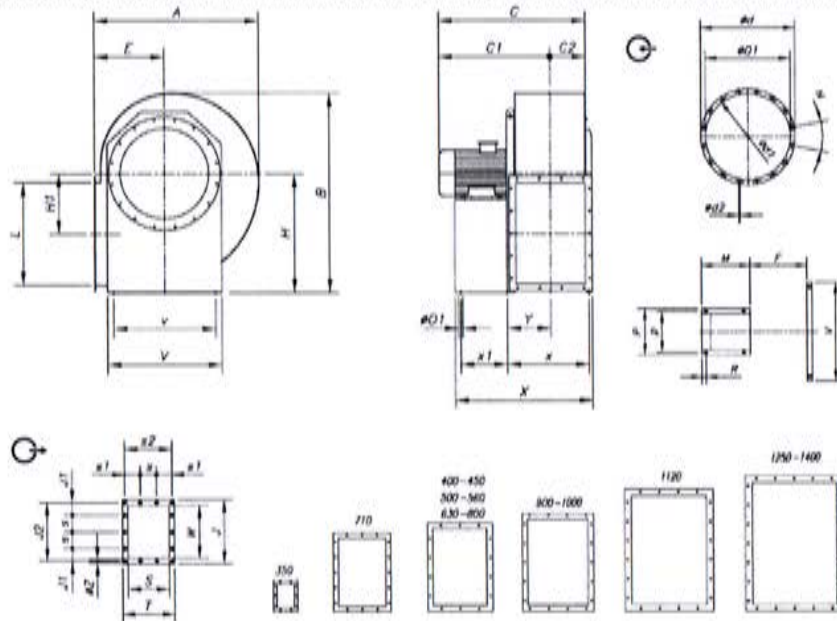


It must be checked that the accessory is suitable for the fan model

DIMENSIONS

A	B	C	C1	C2	ØD1	Ød	Ød1	Ød2	N	E	H	H1	L
1312	1592	1136	644	292	805	920	861	14	16x22°x3 0°	560	950	482	808
F	M	R	ØO1	P	p	V	v	X	x	x1	Y	T	J
574	543	39	19	926	862	965	862	1184	675	441	353	689	921
J2	J1	S	s	s1	s2	W	ØZ						
871	135	574	200	119	639	808	14						

Dimensions without explicitly defined units are shown in millimeters (mm). Dimensions depending on the motor are approximate



CMRS-800-4T-25 IE3

АЕЦ Козлодуй
LK14LA01; LK14LA01; R-0



Extremely robust medium pressure, single-inlet centrifugal fans fitted with a backward-curved blade impeller

Fan:

- Sheet steel casing.
- Reaction blade impeller in extremely robust sheet steel, specially designed for transporting clean or slightly dusty air.
- Motor coupled directly.
- Fitted with inspection hatch, except models 350, 400, 450, 500 and 560.

Motor:

- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400V-50Hz (up to 4kW) and 400/690V-50Hz (powers higher than 4kW).
- Maximum temperature of air to be carried: -20°C + 120°C.

Finish:

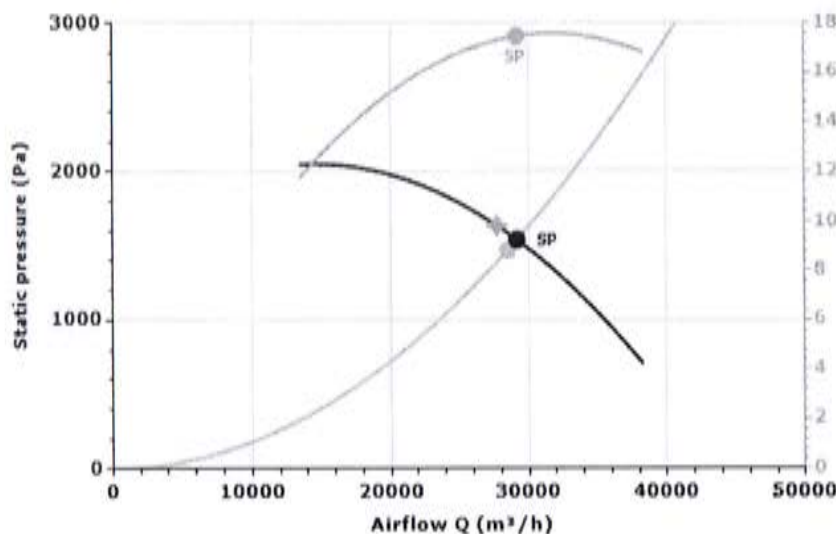
- Anti-corrosive finish of polyester resin polymerised at 190°C, previously degreased with phosphate-free nanotechnological treatment.

On request:

- Special windings for different voltages.
- Fan prepared for air transmission of up to 250°C.
- Stainless steel fan.
- ATEX-certified Category 2.
- System 8 elastic coupling.



CHARACTERISTIC CURVE AND ACOUSTICS AT 1.2KG/M³

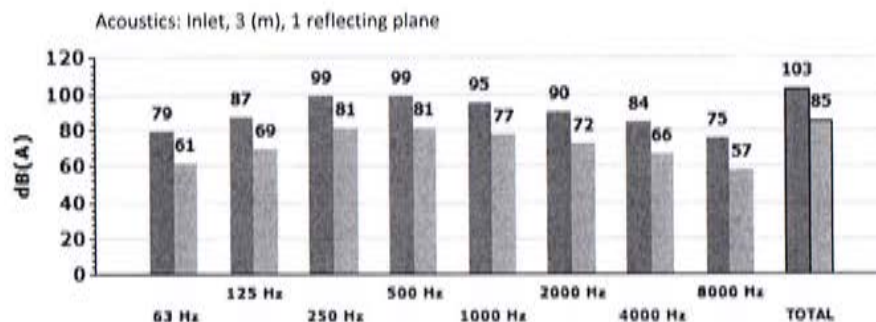


Design Point

Q (m³/h)	28500
Ps (Pa)	1471

Service Point (SP)

Q (m³/h)	29173.21
Ps (Pa)	1541.32
Pd (Pa)	189.68
Pt (Pa)	1731.00
Impeller (rpm)	1470
Max. Temp. (°C)	120
Outlet air speed (m/s)	17.78
SFP (kW/m³/s)	2.32
Mechanical Power (kW)	17.46



Band	Lw dB(A)	Lp dB(A)
63 Hz	79	61
125 Hz	87	69
250 Hz	99	81
500 Hz	99	81
1000 Hz	95	77
2000 Hz	90	72
4000 Hz	84	66
8000 Hz	75	57
TOTAL	103	85

TECHNICAL CHARACTERISTICS

Airflow maximum (m³/h)	38250
Speed (rpm)	1470
Approx. weight (kg)	480

ERP

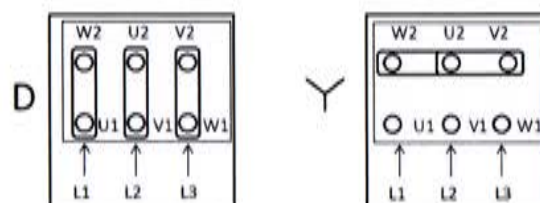
Efficiency	74.9%
Efficiency grade N	74.3
Measurement category	B
Efficiency category	Total
Specific ratio	1.02
Flowrate (m³/h)	27729

Pressure (Pa)	1809
Input power (kW)	18.598
Speed (rpm)	1472
Variable speed drive	VSD not necessary
ErP compliance	2015

* Data established at point of optimum efficiency

MOTOR DATA

Rated Mechanical Power (kW)	18.50
Hz/phases	50/3
Motor (rpm)	1470
Poles	4P
Max. current (A) 380-415 V D	35.10
Max. current (A) 660-725 V Y	20.30
Motor protection	IP55
Motor frame size	180M



Data can change, please check motor plate

AVAILABLE ACCESSORIES



It must be checked that the accessory is suitable for the fan model

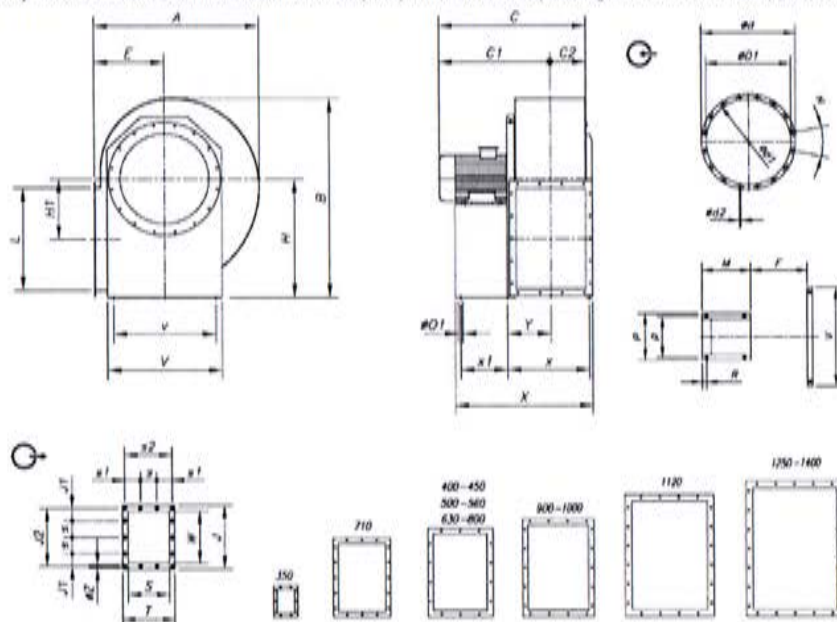
DIMENSIONS

A	B	C	C1	C2	ØD1	Ød	Ød1	Ød2	N	E	H	H1	L
1312	1592	1136	644	292	805	920	861	14	16x22°x3 0°	560	950	482	808

F	M	R	ØO1	P	p	V	v	X	x	x1	Y	T	J
574	543	39	19	926	862	965	862	1184	675	441	353	689	921

J2	J1	S	s	s1	s2	W	ØZ
871	135	574	200	119	639	808	14

Dimensions without explicitly defined units are shown in millimeters (mm). Dimensions depending on the motor are approximate



CMRS-900-4T-50 IE3

АЕЦ Козлодуй
LK21LC01; L-270



Extremely robust medium pressure, single-inlet centrifugal fans fitted with a backward-curved blade impeller

Fan:

- Sheet steel casing.
- Reaction blade impeller in extremely robust sheet steel, specially designed for transporting clean or slightly dusty air.
- Motor coupled directly.
- Fitted with inspection hatch, except models 350, 400, 450, 500 and 560.

Motor:

- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400V-50Hz (up to 4kW) and 400/690V-50Hz (powers higher than 4kW).
- Maximum temperature of air to be carried: -20°C + 120°C.

Finish:

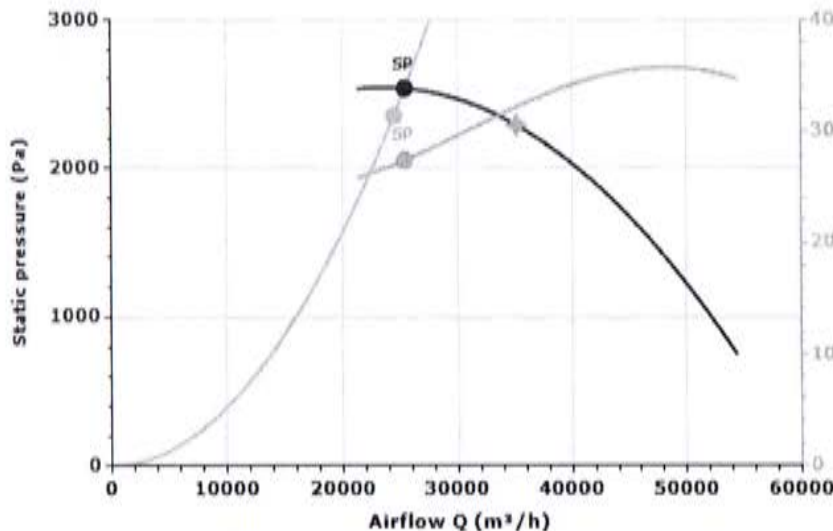
- Anti-corrosive finish of polyester resin polymerised at 190°C, previously degreased with phosphate-free nanotechnological treatment.

On request:

- Special windings for different voltages.
- Fan prepared for air transmission of up to 250°C.
- Stainless steel fan.
- ATEX-certified Category 2.
- System 8 elastic coupling.



CHARACTERISTIC CURVE AND ACOUSTICS AT 1.2KG/M³



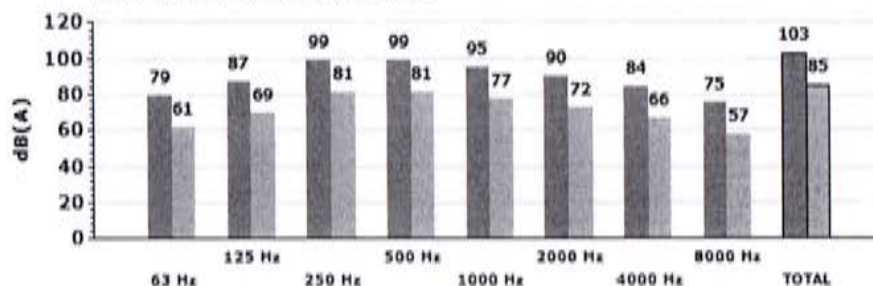
Design Point

Q (m³/h)	24500
Ps (Pa)	2354

Service Point (SP)

Q (m³/h)	25445.64
Ps (Pa)	2539.22
Pd (Pa)	91.32
Pt (Pa)	2630.55
Impeller (rpm)	1480
Max. Temp. (°C)	120
Outlet air speed (m/s)	12.34
SFP (kW/m³/s)	4.13
Mechanical Power (kW)	27.41

Acoustics: Inlet, 3 (m), 1 reflecting plane



Band	Lw dB(A)	Lp dB(A)
63 Hz	79	61
125 Hz	87	69
250 Hz	99	81
500 Hz	99	81
1000 Hz	95	77
2000 Hz	90	72
4000 Hz	84	66
8000 Hz	75	57
TOTAL	103	85

TECHNICAL CHARACTERISTICS

Airflow maximum (m³/h)	54300
Speed (rpm)	1480
Approx. weight (kg)	810

ERP

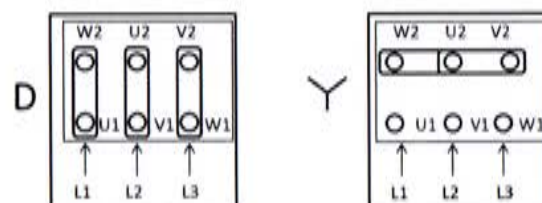
Efficiency	70.4%
Efficiency grade N	69.2
Measurement category	8
Efficiency category	Total
Specific ratio	1.02
Flowrate (m³/h)	35187

Pressure (Pa)	2466
Input power (kW)	34.237
Speed (rpm)	1483
Variable speed drive	VSD not necessary
ErP compliance	2015

* Data established at point of optimum efficiency

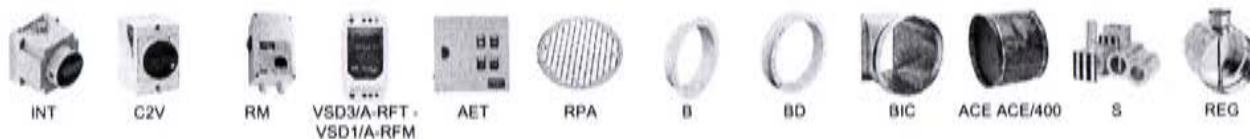
MOTOR DATA

Rated Mechanical Power (kW)	37
Hz/phases	50/3
Motor (rpm)	1480
Poles	4P
Max. current (A) 380-415 V D	66.80
Max. current (A) 660-725 V Y	38.70
Motor protection	IP55
Motor frame size	225S/M



Data can change, please check motor plate

AVAILABLE ACCESSORIES

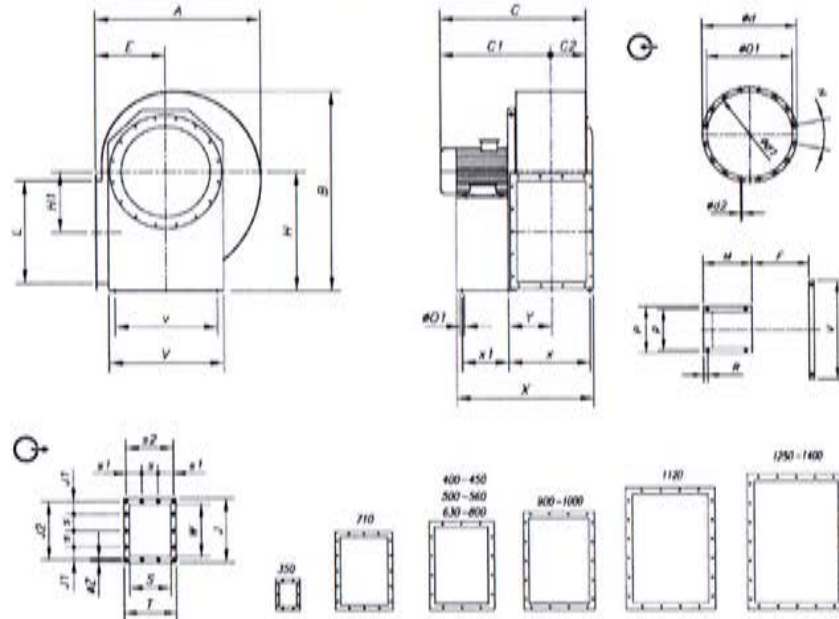


It must be checked that the accessory is suitable for the fan model

DIMENSIONS

A	B	C	C1	C2	ØD1	Ød	Ød1	Ød2	E	N	H	H1	L
1472	1777	1390	1063	327	905	1015	958	14	630	16x22°x3 0°	1060	543	905
ØO1	F	P	M	R	P1	v	V	X	x	x1	Y	T	J
19	643	1026	540	39	962	962	1095	1270	738	441	384	758	1018
J1	J2	S	s	s1	s2	W	ØZ						
84	968	643	200	54	708	905	14						

Dimensions without explicitly defined units are shown in millimeters (mm). Dimensions depending on the motor are approximate



CMRS-900-4T-50 IE3

АЕЦ Козлодуй
LK21LC02; R-270



Extremely robust medium pressure, single-inlet centrifugal fans fitted with a backward-curved blade impeller

Fan:

- Sheet steel casing.
- Reaction blade impeller in extremely robust sheet steel, specially designed for transporting clean or slightly dusty air.
- Motor coupled directly.
- Fitted with inspection hatch, except models 350, 400, 450, 500 and 560.

Motor:

- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400V-50Hz (up to 4kW) and 400/690V-50Hz (powers higher than 4kW).
- Maximum temperature of air to be carried: -20°C + 120°C.

Finish:

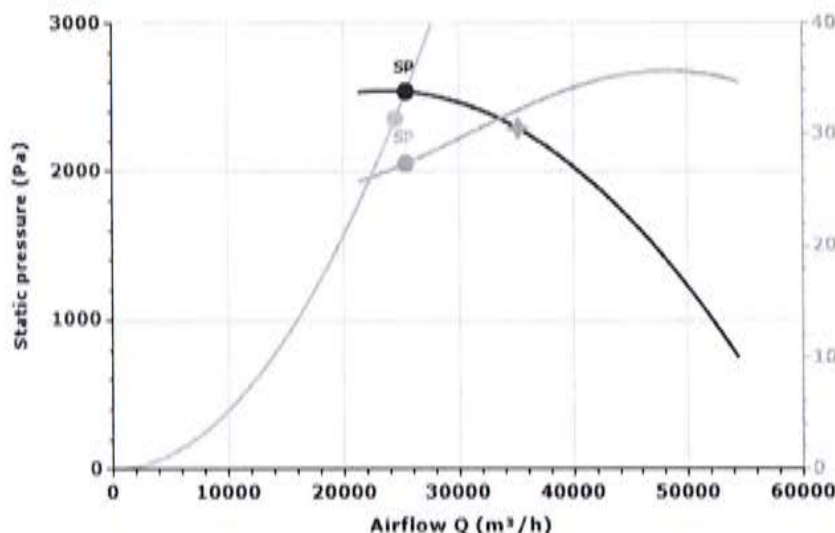
- Anti-corrosive finish of polyester resin polymerised at 190°C, previously degreased with phosphate-free nanotechnological treatment.

On request:

- Special windings for different voltages.
- Fan prepared for air transmission of up to 250°C.
- Stainless steel fan.
- ATEX-certified Category 2.
- System 8 elastic coupling.



CHARACTERISTIC CURVE AND ACOUSTICS AT 1.2KG/M³

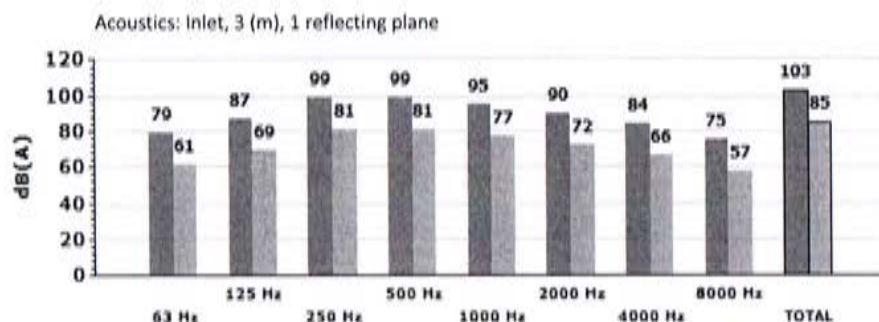


Design Point

Q (m³/h)	24500
Ps (Pa)	2354

Service Point (SP)

Q (m³/h)	25445.64
Ps (Pa)	2539.22
Pd (Pa)	91.32
Pt (Pa)	2630.55
Impeller (rpm)	1480
Max. Temp. (°C)	120
Outlet air speed (m/s)	12.34
SFP (kW/m³/s)	4.13
Mechanical Power (kW)	27.41



Band	Lw dB(A)	Lp dB(A)
63 Hz	79	61
125 Hz	87	69
250 Hz	99	81
500 Hz	99	81
1000 Hz	95	77
2000 Hz	90	72
4000 Hz	84	66
8000 Hz	75	57
TOTAL	103	85

TECHNICAL CHARACTERISTICS

Airflow maximum (m³/h)	54300
Speed (rpm)	1480
Approx. weight (kg)	810

ERP

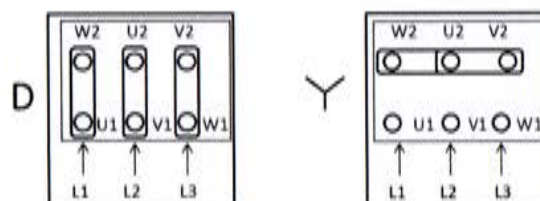
Efficiency	70.4%
Efficiency grade N	69.2
Measurement category	B
Efficiency category	Total
Specific ratio	1.02
Flowrate (m³/h)	35187

Pressure (Pa)	2466
Input power (kW)	34.237
Speed (rpm)	1483
Variable speed drive	VSD not necessary
ErP compliance	2015

* Data established at point of optimum efficiency

MOTOR DATA

Rated Mechanical Power (kW)	37
Hz/phases	50/3
Motor (rpm)	1480
Poles	4P
Max. current (A) 380-415 V D	66.80
Max. current (A) 660-725 V Y	38.70
Motor protection	IP55
Motor frame size	225S/M



Data can change, please check motor plate

AVAILABLE ACCESSORIES



It must be checked that the accessory is suitable for the fan model

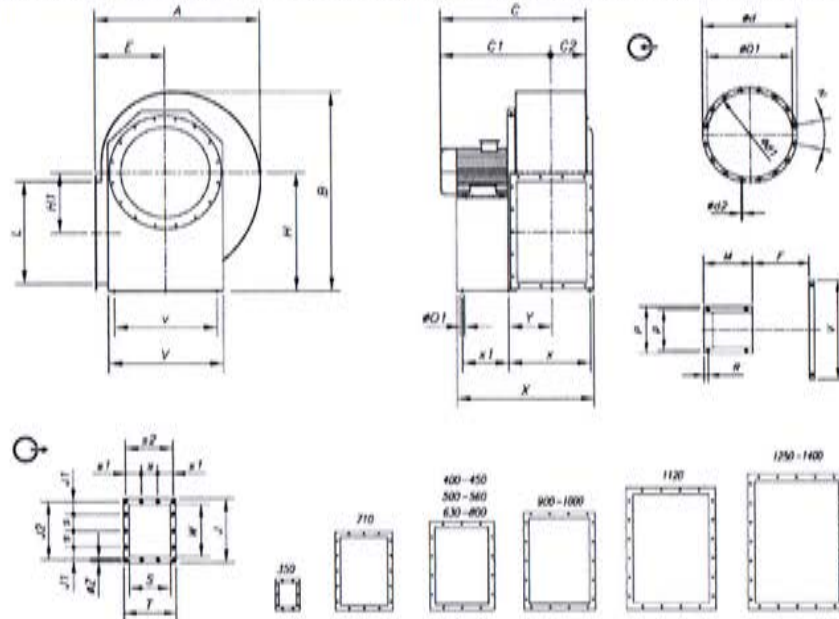
DIMENSIONS

A	B	C	C1	C2	ØD1	Ød	Ød1	Ød2	E	N	H	H1	L
1472	1777	1390	1063	327	905	1015	958	14	630	16x22°x3 0°	1060	543	905

ØO1	F	P	M	R	P1	v	V	X	x	x1	Y	T	J
19	643	1026	540	39	962	962	1095	1270	738	441	384	758	1018

J1	J2	S	s	s1	s2	W	ØZ
84	968	643	200	54	708	905	14

Dimensions without explicitly defined units are shown in millimeters (mm). Dimensions depending on the motor are approximate



CASB-800-4T-20 IE3

АЕЦ Козлодуй
LK23LC01; L-270



Extremely robust, centrifugal, high pressure, single-inlet fans with sheet steel casing and impeller

Fan:

- Sheet steel casing.
- Backward-curved blade impeller in extremely robust sheet steel, specially designed for transporting clean and dusty air or air with granulated particles.
- Motor coupled directly.

Motor:

- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400V-50Hz (up to 4kW) and 400/690V-50Hz (powers higher than 4kW).
- Maximum temperature of air to be carried: -25°C + 120°C.

Finish:

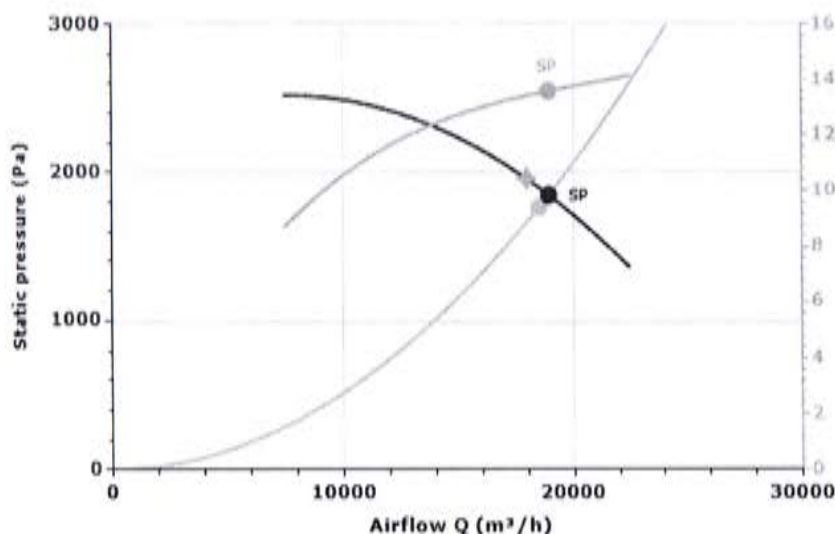
- Anti-corrosive finish of polyester resin polymerised at 190°C, previously degreased with phosphate-free nanotechnological treatment.

On request:

- Special windings for different voltages.
- Fan prepared for air transmission of up to 250°C.
- Stainless steel fan.
- ATEX-certified Category 2.
- System 8 elastic coupling.



CHARACTERISTIC CURVE AND ACOUSTICS AT 1.2KG/M³

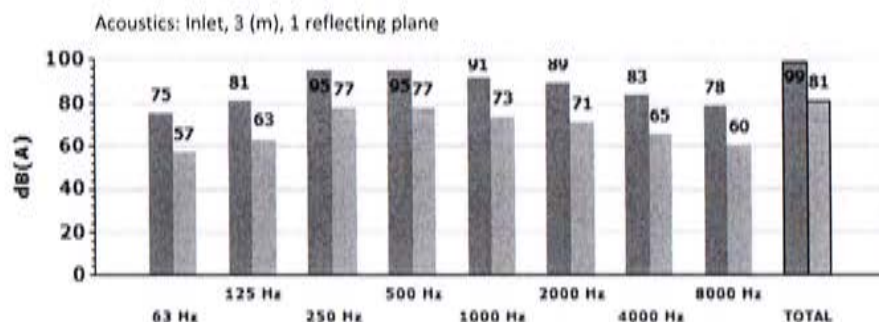


Design Point

Q (m³/h)	18500
Ps (Pa)	1765

Service Point (SP)

Q (m³/h)	18930.33
Ps (Pa)	1848.07
Pd (Pa)	198.63
Pt (Pa)	2046.69
Impeller (rpm)	1465
Max. Temp. (°C)	120
Outlet air speed (m/s)	18.19
SFP (kW/m³/s)	2.81
Mechanical Power (kW)	13.60



Band	Lw dB(A)	Lp dB(A)
63 Hz	75	57
125 Hz	81	63
250 Hz	95	77
500 Hz	95	77
1000 Hz	91	73
2000 Hz	89	71
4000 Hz	83	65
8000 Hz	78	60
TOTAL	99	81

TECHNICAL CHARACTERISTICS

Airflow maximum (m³/h)	22450
Speed (rpm)	1465
Approx. weight (kg)	396

ERP

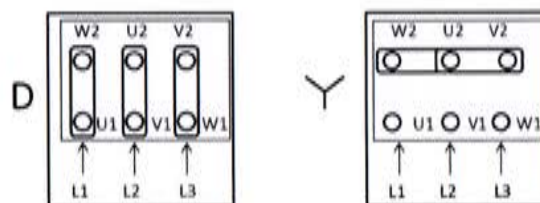
Efficiency	73.1%
Efficiency grade N	72.8
Measurement category	B
Efficiency category	Total
Specific ratio	1.02
Flowrate (m³/h)	17970

Pressure (Pa)	2137
Input power (kW)	14.594
Speed (rpm)	1469
Variable speed drive	VSD not necessary
ErP compliance	2015

✦ Data established at point of optimum efficiency

MOTOR DATA

Rated Mechanical Power (kW)	15
Hz/phases	50/3
Motor (rpm)	1465
Poles	4P
Max. current (A) 380-415 V D	27.90
Max. current (A) 660-725 V Y	16.20
Motor protection	IP55
Motor frame size	160L



Data can change, please check motor plate

AVAILABLE ACCESSORIES

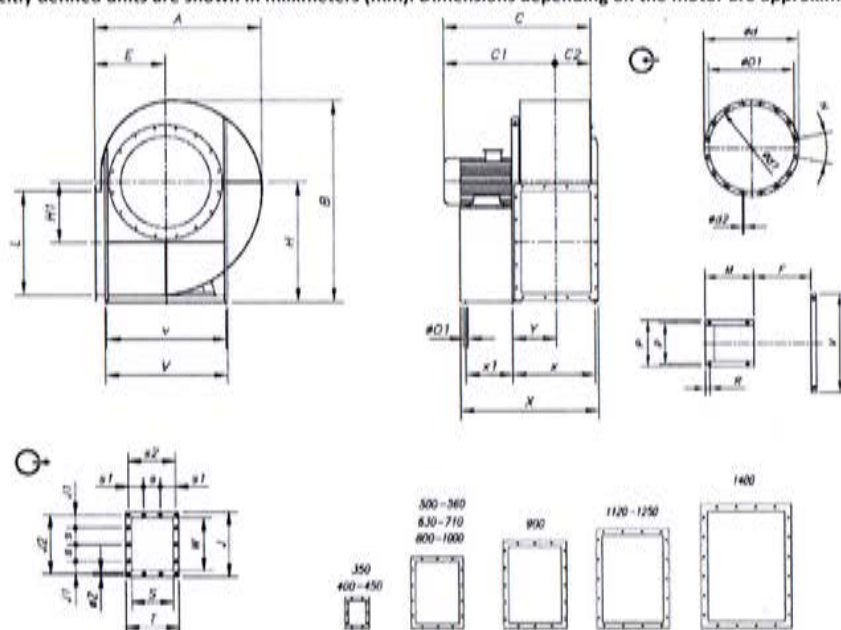


It must be checked that the accessory is suitable for the fan model

DIMENSIONS

A	B	C	C1	C2	ØD1	Ød	Ød1	Ød2	N	E	H	H1	L
1340	1591	880	634	246	635	735	698	15	12x30°	560	950	560	638
F	M	R	ØO1	P	p	V	v	X	x	x1	Y	T	J
453	435	59	20	926	862	1045	862	948	546	315	290	553	738
J1	J2	S	s	s1	s2	W	ØZ						
109	698	453	160	97	513	638	14						

Dimensions without explicitly defined units are shown in millimeters (mm). Dimensions depending on the motor are approximate



CASB-800-4T-20 IE3

АЕЦ Козлодуй
LK23LC02; R-270



Extremely robust, centrifugal, high pressure, single-inlet fans with sheet steel casing and impeller

Fan:

- Sheet steel casing.
- Backward-curved blade impeller in extremely robust sheet steel, specially designed for transporting clean and dusty air or air with granulated particles.
- Motor coupled directly.

Motor:

- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400V-50Hz (up to 4kW) and 400/690V-50Hz (powers higher than 4kW).
- Maximum temperature of air to be carried: -25°C + 120°C.

Finish:

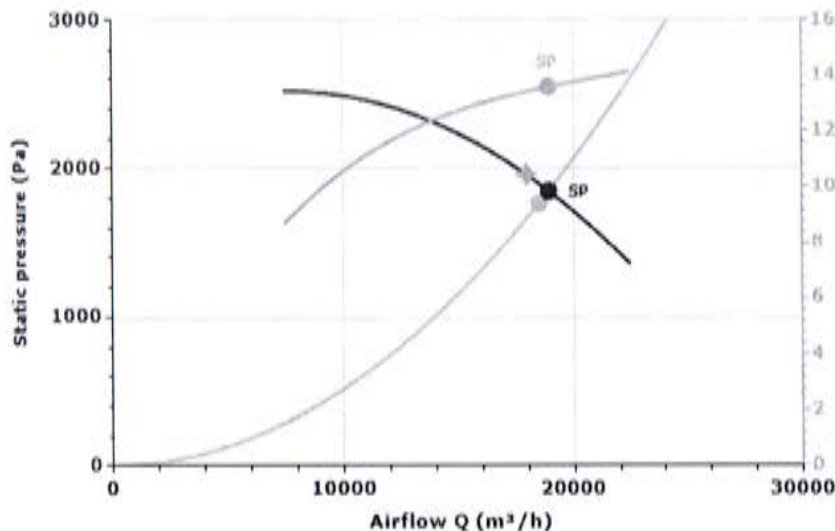
- Anti-corrosive finish of polyester resin polymerised at 190°C, previously degreased with phosphate-free nanotechnological treatment.

On request:

- Special windings for different voltages.
- Fan prepared for air transmission of up to 250°C.
- Stainless steel fan.
- ATEX-certified Category 2.
- System 8 elastic coupling.



CHARACTERISTIC CURVE AND ACOUSTICS AT 1.2KG/M³

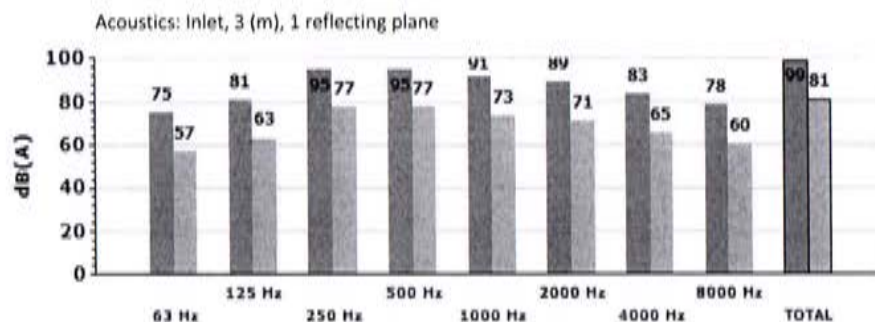


Design Point

Q (m³/h)	18500
Ps (Pa)	1765

Service Point (SP)

Q (m³/h)	18930.33
Ps (Pa)	1848.07
Pd (Pa)	198.63
Pt (Pa)	2046.69
Impeller (rpm)	1465
Max. Temp. (°C)	120
Outlet air speed (m/s)	18.19
SFP (kW/m³/s)	2.81
Mechanical Power (kW)	13.60



Band	Lw dB(A)	Lp dB(A)
63 Hz	75	57
125 Hz	81	63
250 Hz	95	77
500 Hz	95	77
1000 Hz	91	73
2000 Hz	89	71
4000 Hz	83	65
8000 Hz	78	60
TOTAL	99	81

TECHNICAL CHARACTERISTICS

Airflow maximum (m³/h)	22450
Speed (rpm)	1465
Approx. weight (kg)	396

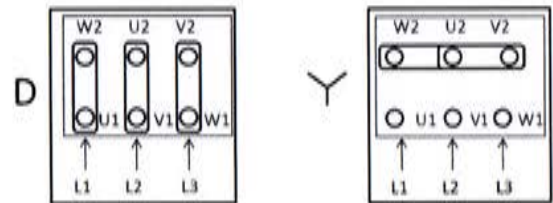
ERP

Efficiency	73.1%	Pressure (Pa)	2137
Efficiency grade N	72.8	Input power (kW)	14.594
Measurement category	8	Speed (rpm)	1469
Efficiency category	Total	Variable speed drive	VSD not necessary
Specific ratio	1.02	ErP compliance	2015
Flowrate (m³/h)	17970		

◆ Data established at point of optimum efficiency

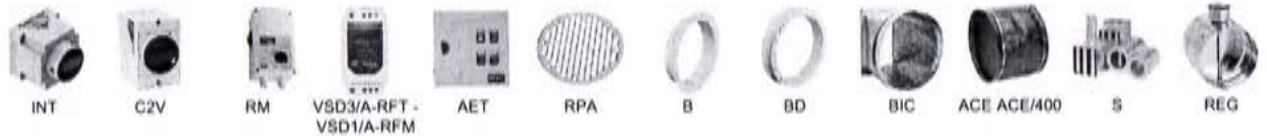
MOTOR DATA

Rated Mechanical Power (kW)	15
Hz/phases	50/3
Motor (rpm)	1465
Poles	4P
Max. current (A) 380-415 V D	27.90
Max. current (A) 660-725 V Y	16.20
Motor protection	IP55
Motor frame size	160L



Data can change, please check motor plate

AVAILABLE ACCESSORIES

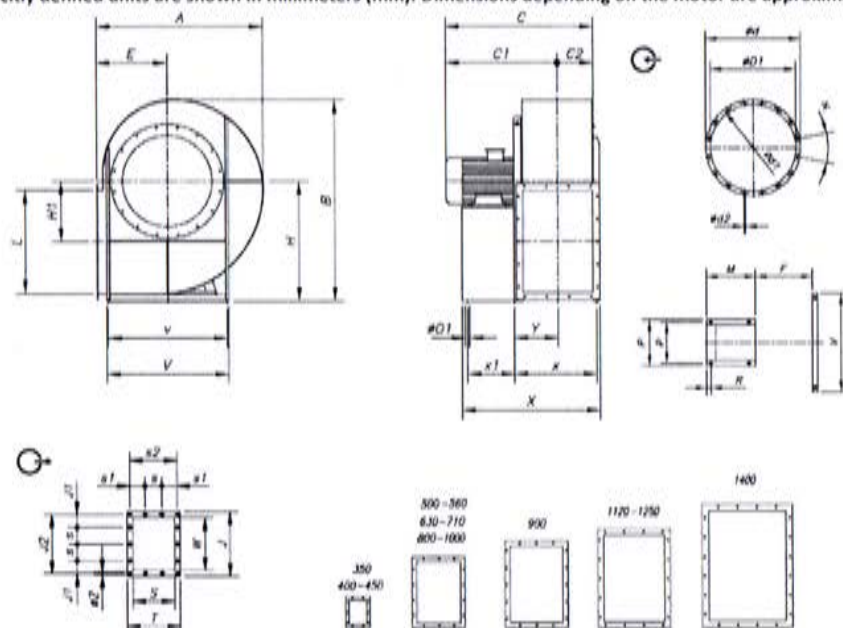


It must be checked that the accessory is suitable for the fan model

DIMENSIONS

A	B	C	C1	C2	ØD1	Ød	Ød1	Ød2	N	E	H	H1	L
1340	1591	880	634	246	635	735	698	15	12x30°	560	950	560	638
F	M	R	ØO1	P	p	V	v	X	x	x1	Y	T	J
453	435	59	20	926	862	1045	862	948	546	315	290	553	738
J1	J2	S	s	s1	s2	W	ØZ						
109	698	453	160	97	513	638	14						

Dimensions without explicitly defined units are shown in millimeters (mm). Dimensions depending on the motor are approximate



CMRS-500-2T-25 IE3

АЕЦ Козлодуй
LK24LC01; L-270



Extremely robust medium pressure, single-inlet centrifugal fans fitted with a backward-curved blade impeller

Fan:

- Sheet steel casing.
- Reaction blade impeller in extremely robust sheet steel, specially designed for transporting clean or slightly dusty air.
- Motor coupled directly.
- Fitted with inspection hatch, except models 350, 400, 450, 500 and 560.

Motor:

- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400V-50Hz (up to 4kW) and 400/690V-50Hz (powers higher than 4kW).
- Maximum temperature of air to be carried: -20°C + 120°C.

Finish:

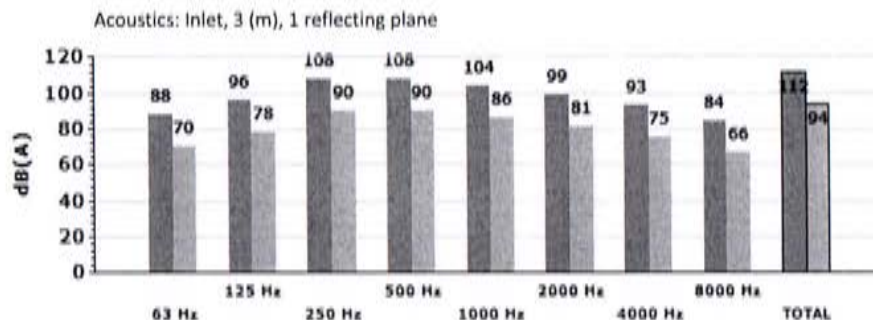
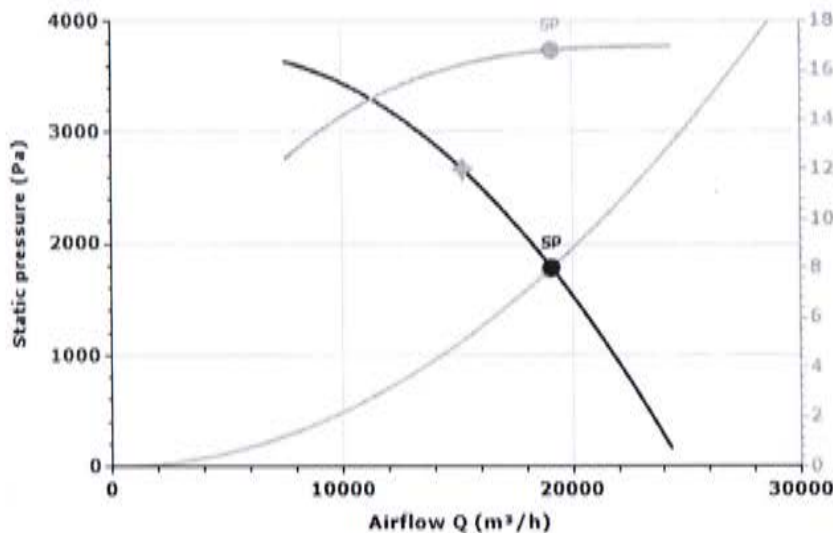
- Anti-corrosive finish of polyester resin polymerised at 190°C, previously degreased with phosphate-free nanotechnological treatment.

On request:

- Special windings for different voltages.
- Fan prepared for air transmission of up to 250°C.
- Stainless steel fan.
- ATEX-certified Category 2.
- System 8 elastic coupling.



CHARACTERISTIC CURVE AND ACOUSTICS AT 1.2KG/M³



TECHNICAL CHARACTERISTICS

Airflow maximum (m³/h)	24300
Speed (rpm)	2945
Approx. weight (kg)	250

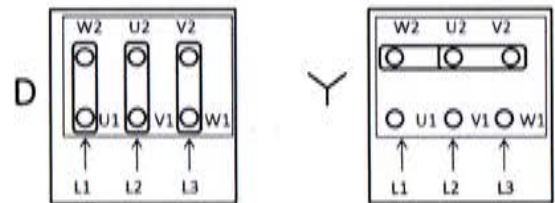
ERP

Efficiency	72.5%	Pressure (Pa)	2992
Efficiency grade N	72.0	Input power (kW)	17.468
Measurement category	B	Speed (rpm)	2952
Efficiency category	Total	Variable speed drive	VSD not necessary
Specific ratio	1.03	ErP compliance	2015
Flowrate (m³/h)	15239		

* Data established at point of optimum efficiency

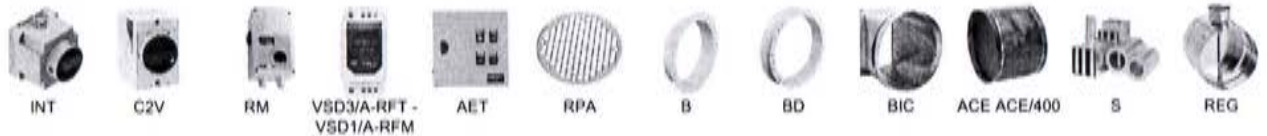
MOTOR DATA

Rated Mechanical Power (kW)	18.50
Hz/phases	50/3
Motor (rpm)	2945
Poles	2P
Max. current (A) 380-415 V D	33.90
Max. current (A) 660-725 V Y	19.70
Motor protection	IP55
Motor frame size	160L



Data can change, please check motor plate

AVAILABLE ACCESSORIES

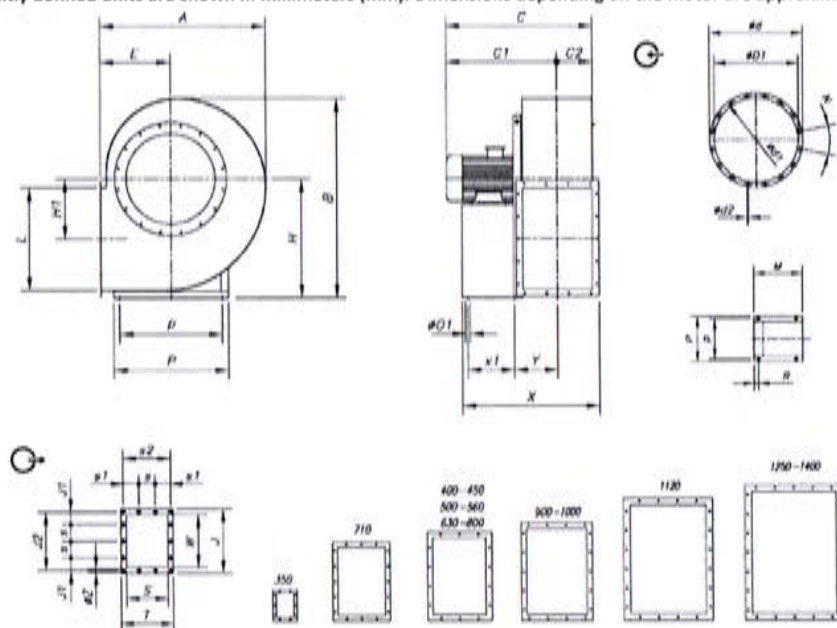


It must be checked that the accessory is suitable for the fan model

DIMENSIONS

A	B	C	C1	C2	ØD1	Ød	Ød1	Ød2	N	E	H	H1	L
831	1008	944	759	185	505	580	551	12	12X309	360	600	301	511
M	R	ØO1	P	p	X	x1	Y	T	J	J1	J2	S	s
465	28	14	440	395	872	414	210	441	587	88	551	365	125
s1	s2	W	ØZ										
77	405	511	12										

Dimensions without explicitly defined units are shown in millimeters (mm). Dimensions depending on the motor are approximate



CMRS-500-2T-25 IE3

АЕЦ Козлодуй
LK24LC02; R-270



Extremely robust medium pressure, single-inlet centrifugal fans fitted with a backward-curved blade impeller

Fan:

- Sheet steel casing.
- Reaction blade impeller in extremely robust sheet steel, specially designed for transporting clean or slightly dusty air.
- Motor coupled directly.
- Fitted with inspection hatch, except models 350, 400, 450, 500 and 560.

Motor:

- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400V-50Hz (up to 4kW) and 400/690V-50Hz (powers higher than 4kW).
- Maximum temperature of air to be carried: -20°C + 120°C.

Finish:

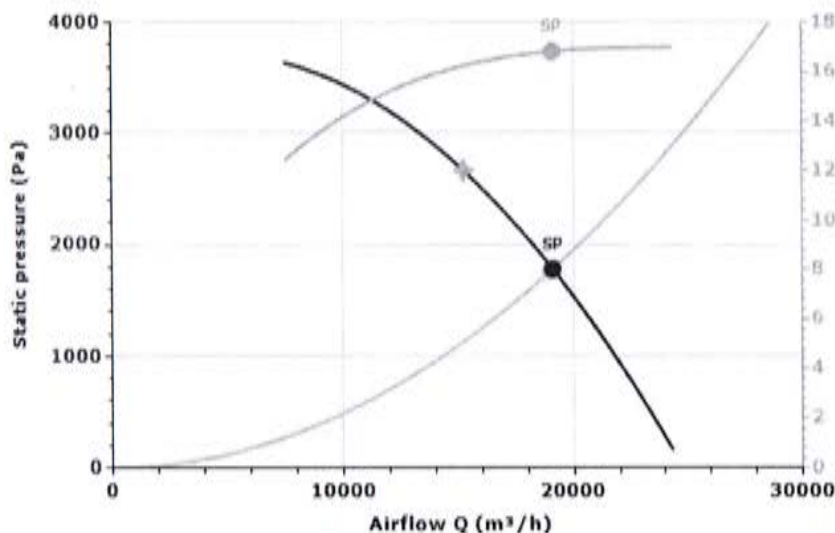
- Anti-corrosive finish of polyester resin polymerised at 190°C, previously degreased with phosphate-free nanotechnological treatment.

On request:

- Special windings for different voltages.
- Fan prepared for air transmission of up to 250°C.
- Stainless steel fan.
- ATEX-certified Category 2.
- System 8 elastic coupling.



CHARACTERISTIC CURVE AND ACOUSTICS AT 1.2KG/M³

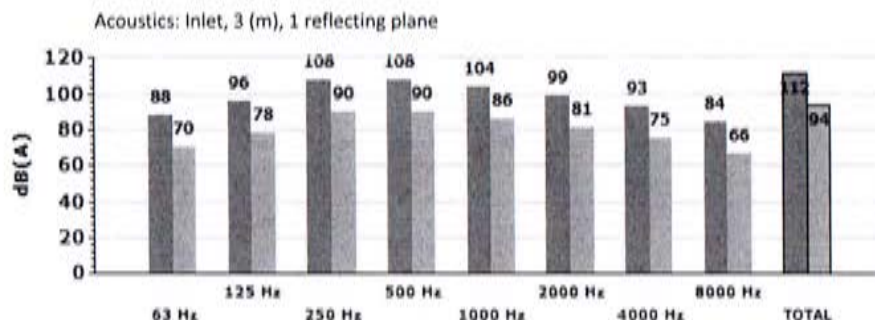


Design Point

Q (m³/h)	19000
Ps (Pa)	1765

Service Point (SP)

Q (m³/h)	19101.82
Ps (Pa)	1783.97
Pd (Pa)	504.26
Pt (Pa)	2288.22
Impeller (rpm)	2945
Max. Temp. (°C)	120
Outlet air speed (m/s)	28.99
SFP (kW/m³/s)	3.41
Mechanical Power (kW)	16.83



Band	Lw dB(A)	Lp dB(A)
63 Hz	88	70
125 Hz	96	78
250 Hz	108	90
500 Hz	108	90
1000 Hz	104	86
2000 Hz	99	81
4000 Hz	93	75
8000 Hz	84	66
TOTAL	112	94

TECHNICAL CHARACTERISTICS

Airflow maximum (m³/h)	24300
Speed (rpm)	2945
Approx. weight (kg)	250

ERP

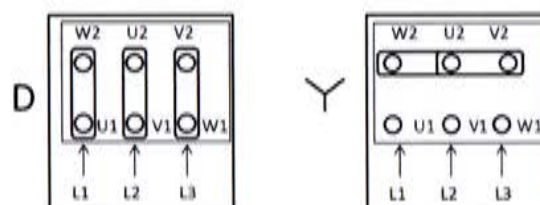
Efficiency	72.5%
Efficiency grade N	72.0
Measurement category	8
Efficiency category	Total
Specific ratio	1.03
Flowrate (m³/h)	15239

Pressure (Pa)	2992
Input power (kW)	17.468
Speed (rpm)	2952
Variable speed drive	VSD not necessary
ErP compliance	2015

* Data established at point of optimum efficiency

MOTOR DATA

Rated Mechanical Power (kW)	18.50
Hz/phases	50/3
Motor (rpm)	2945
Poles	2P
Max. current (A) 380-415 V D	33.90
Max. current (A) 660-725 V Y	19.70
Motor protection	IP55
Motor frame size	160L



Data can change, please check motor plate

AVAILABLE ACCESSORIES

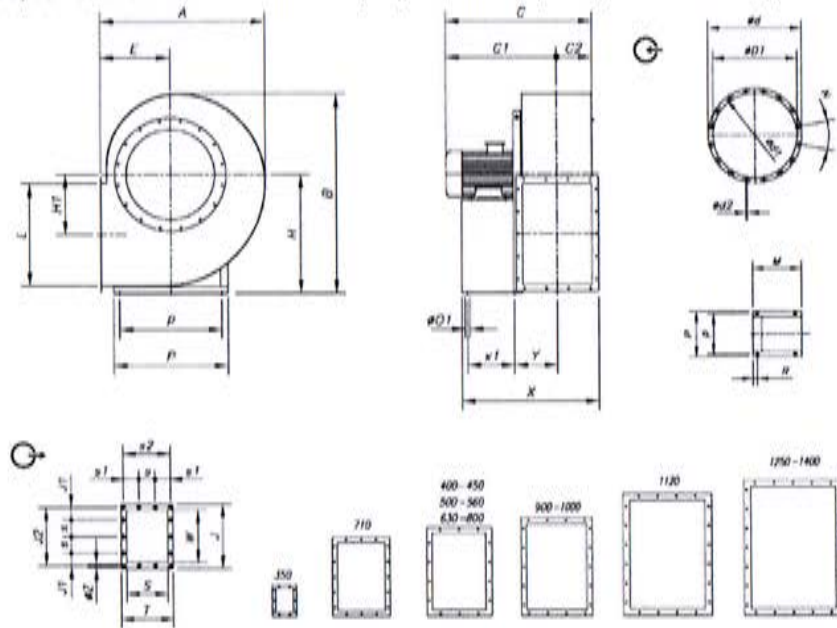


It must be checked that the accessory is suitable for the fan model

DIMENSIONS

A	B	C	C1	C2	ØD1	Ød	Ød1	Ød2	N	E	H	H1	L
831	1008	944	759	185	505	580	551	12	12X30°	360	600	301	511
M	R	ØO1	P	p	X	x1	Y	T	J	J1	J2	S	s
465	28	14	440	395	872	414	210	441	587	88	551	365	125
s1	s2	W	ØZ										
77	405	511	12										

Dimensions without explicitly defined units are shown in millimeters (mm). Dimensions depending on the motor are approximate



CMRS-400-2T-7.5 IE3

АЕЦ Козлодуй
LK31LC01; LK31LC02; L-270



Extremely robust medium pressure, single-inlet centrifugal fans fitted with a backward-curved blade impeller

Fan:

- Sheet steel casing,
- Reaction blade impeller in extremely robust sheet steel, specially designed for transporting clean or slightly dusty air.
- Motor coupled directly.
- Fitted with inspection hatch, except models 350, 400, 450, 500 and 560.

Motor:

- IE3 efficiency motors for powers equal to or greater than 0.75kW except single-phase, 2-speed and 8-pole.
- Class F motors with ball bearings and IP55 protection.
- Three-phase 230/400V-50Hz (up to 4kW) and 400/690V-50Hz (powers higher than 4kW).
- Maximum temperature of air to be carried: -20°C + 120°C.

Finish:

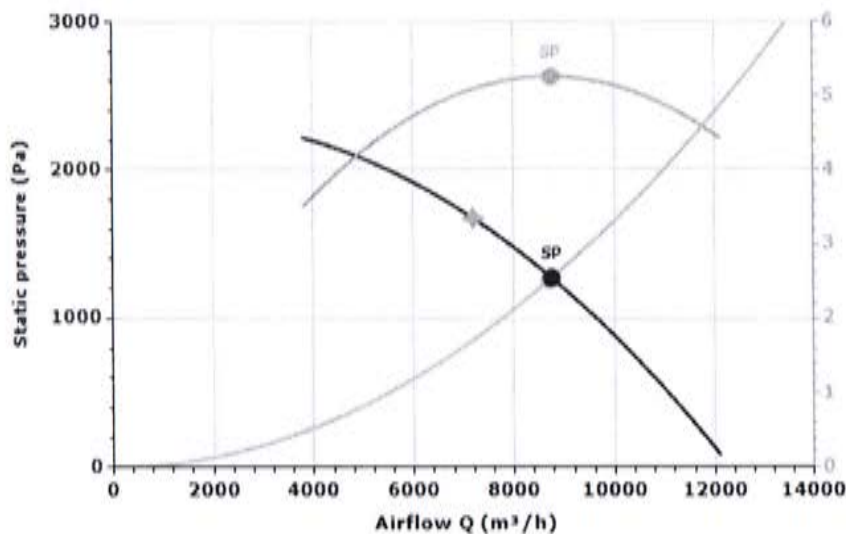
- Anti-corrosive finish of polyester resin polymerised at 190°C, previously degreased with phosphate-free nanotechnological treatment.

On request:

- Special windings for different voltages.
- Fan prepared for air transmission of up to 250°C.
- Stainless steel fan.
- ATEX-certified Category 2.
- System 8 elastic coupling.



CHARACTERISTIC CURVE AND ACOUSTICS AT 1.2KG/M³

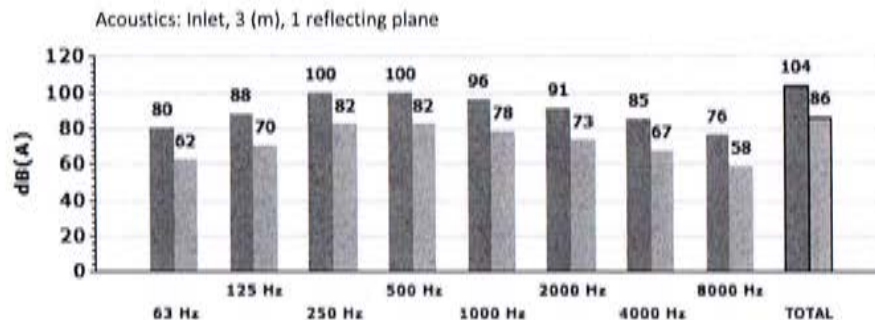


Design Point

Q (m ³ /h)	8700
Ps (Pa)	1255

Service Point (SP)

Q (m ³ /h)	8758.69
Ps (Pa)	1271.99
Pd (Pa)	262.36
Pt (Pa)	1534.35
Impeller (rpm)	2930
Max. Temp. (°C)	120
Outlet air speed (m/s)	20.91
SFP (kW/m ³ /s)	2.40
Mechanical Power (kW)	5.26



Band	Lw dB(A)	Lp dB(A)
63 Hz	80	62
125 Hz	88	70
250 Hz	100	82
500 Hz	100	82
1000 Hz	96	78
2000 Hz	91	73
4000 Hz	85	67
8000 Hz	76	58
TOTAL	104	86

TECHNICAL CHARACTERISTICS

Airflow maximum (m³/h)	12100
Speed (rpm)	2930
Approx. weight (kg)	107

ERP

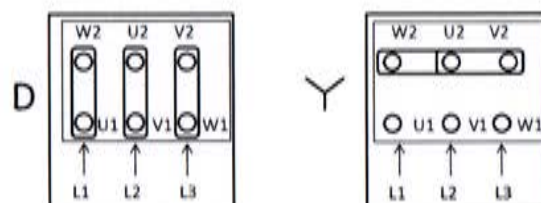
Efficiency	65.4%
Efficiency grade N	68.0
Measurement category	B
Efficiency category	Total
Specific ratio	1.02
Flowrate (m³/h)	7190

Pressure (Pa)	1853
Input power (kW)	5.659
Speed (rpm)	2935
Variable speed drive	VSD not necessary
ErP compliance	2015

† Data established at point of optimum efficiency

MOTOR DATA

Rated Mechanical Power (kW)	5.50
Hz/phases	50/3
Motor (rpm)	2930
Poles	2P
Max. current (A) 380-415 V D	10.10
Max. current (A) 660-725 V Y	5.86
Motor protection	IP55
Motor frame size	132M



Data can change, please check motor plate

AVAILABLE ACCESSORIES



It must be checked that the accessory is suitable for the fan model

DIMENSIONS

A	B	C	C1	C2	ØD1	Ød	Ød1	Ød2	N	E	H	H1	L
666	824	667	519	148	405	491	448	12	8x45°	285	500	243	408
M	R	ØO1	P	p	X	x1	Y	T	J	J1	J2	S	s
360	23	12	372	337	693	314	172	368	484	36	448	292	125
s1	s2	W	ØZ										
41	332	408	12										

Dimensions without explicitly defined units are shown in millimeters (mm). Dimensions depending on the motor are approximate

