

AXC 1250-12/28°-4 (55.00 kW) S

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Description

Axial fan Series AXC, suitable for operating temperatures of up to 55°C

- Aerofoil impeller with adjustable pitch angle for maximum efficiency
- Die cast aluminium hub and blades
- Long casing, hot dip galvanized steel, to DIN EN ISO 1461
- Spun flanges according Eurovent 1/2
- Terminal box in IP65 mounted at the outside of the casing for easy wiring
- three-phase motors IE2 efficiency, IP55, insulation class F, in accordance with EN 60034-5/IEC 85

The Systemair AXC range of long cased medium pressure axial fans is available in sizes from 315 up to 2.000 mm nominal diameter. The adjustable pitch angle setting offers a wide performance and maximum flexibility to match precisely individual airflow requirements. The AXC axial fans have been performance tested in accordance with DIN ISO 5801, DIN 24163 and AMCA 210-99 on the Systemair fan test rig. Three years warranty make it a safe choice. The motors are equipped with PTC thermistors for optimum motor protection. The motor is speed controllable by frequency converter.

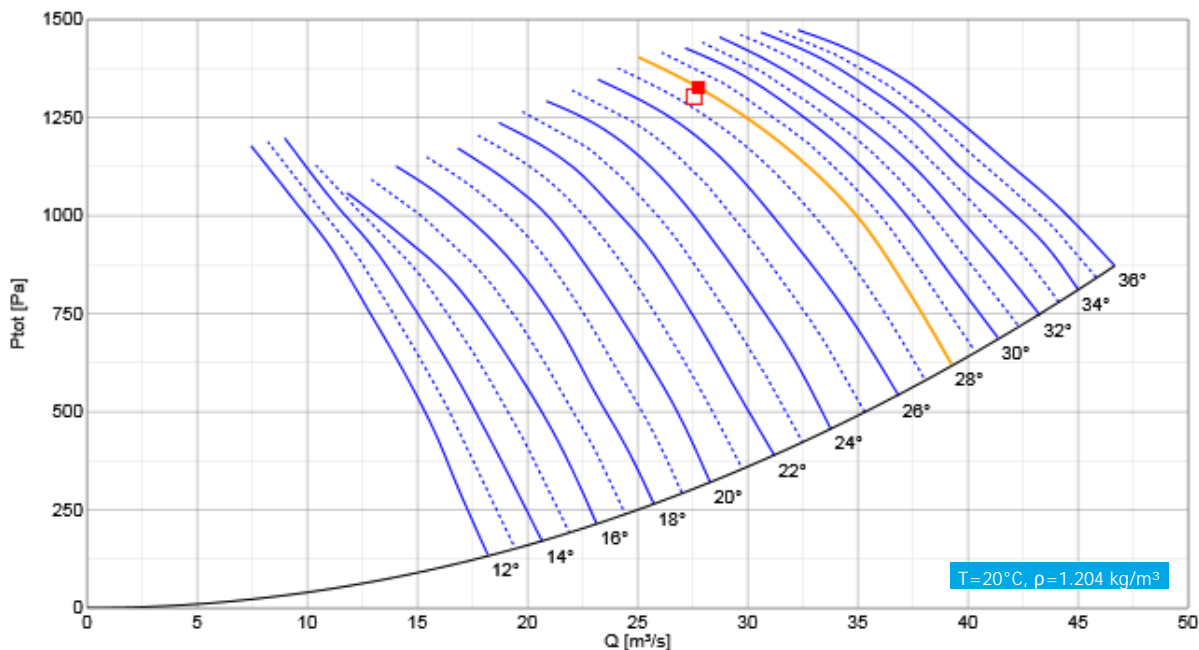
Please note: IE2 motors cannot be speed controlled by voltage, i.e. voltage transformers.

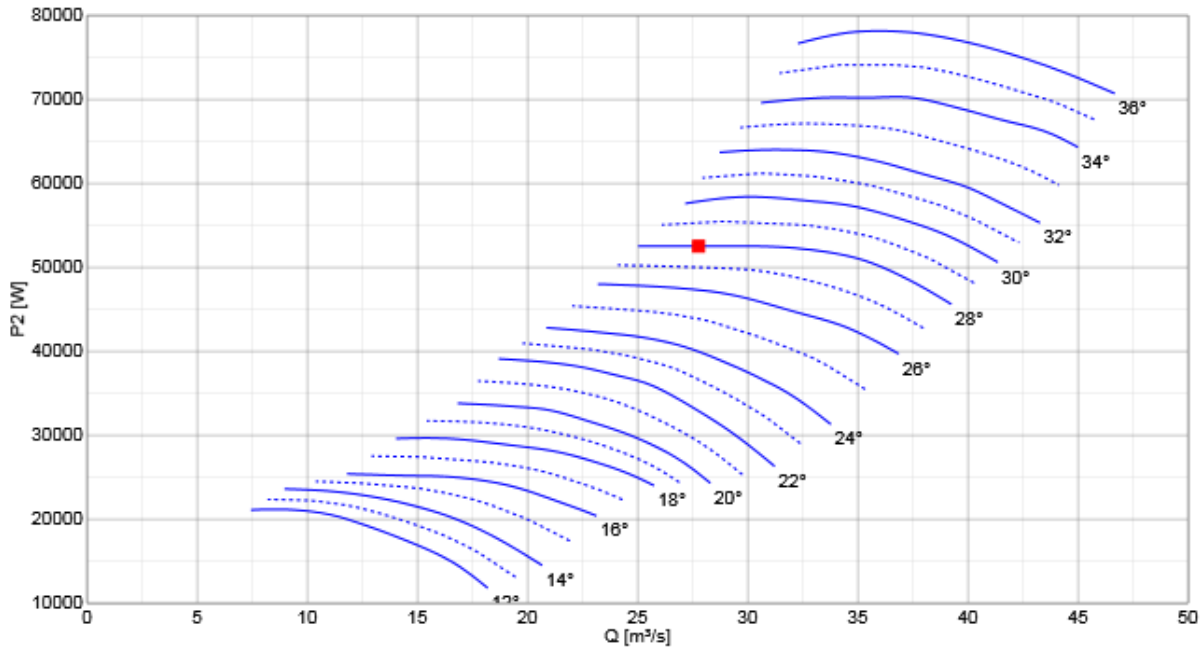
In accordance with Commission Regulation (EC) no 640/2009 of the European Parliament - eco-design requirements for electric motors - the new international efficiency classes are binding as of 16 June 2011. These guidelines defined by CEMEP and EPACK are regarded as international standard for energy-saving high-efficiency motors for frequencies of 50 or 60 Hz and make the use of IE2 motors mandatory.

With this new and more efficient technology we offer our customers many advantages such as environmentally friendly operation, reduced energy consumption and hence lower emissions. IE2 motors have a higher efficiency even in part load operation and allow optimum adjustment to the operating point. In addition, the IE2 motors generate less noise and develop less heat, which has a positive influence on the efficiency and the cooling requirement of the motor. Please note: IE2 motors cannot be speed controlled by voltage, i.e. voltage transformers.



Configurator





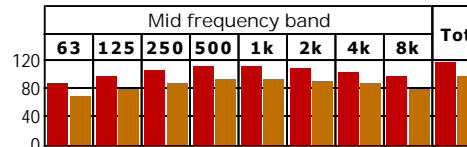
Technical data

	Required point			Working point (standard conditions)								
	Q [m³/s]	Pstat [Pa]	ρ [kg/m³]	Q [m³/s]	Pstat [Pa]	Pdyn [Pa]	Ptot [Pa]	V [m/s]	η [%]	P2 [W]	P2 max [W]	α [°]
Selection	27.6	1000	1.2	27.8	1018	308	1327	22.6	70.2	52511	52500	28

Nominal data												
Blades	Voltage	P2 nominal [W]	Pol	n [r.p.m.]	I [A]	I _A /I _N	Frame	IP	Protection class	Wiring	Weight [kg]	
Selection	12	400V/50Hz	55000	4	1480	97.5	7.3	250M IE2	IP55	F	Y/D	742

Acoustic data

Selection Speed 1	Mid frequency band								Tot
	63	125	250	500	1k	2k	4k	8k	
Surrounding Lw [dB(A)]	85	95	104	108	108	106	101	94	113
Surrounding Lp [dB(A)]	68	78	86	91	91	88	84	77	96



Lw: in ducted conditions Lp: in free field conditions | Sound pressure level (Lp) distance: 3 m

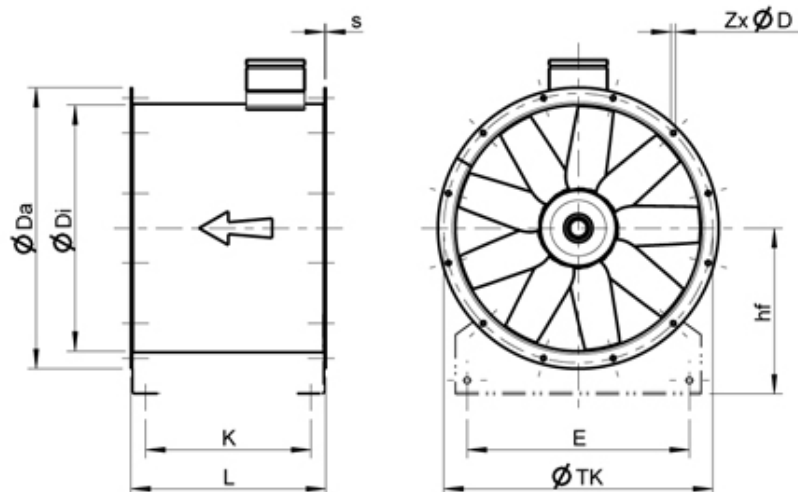
Quotation

PL: 1

Item no.	Name	Qty
C1250AXC	AXC 1250-12/28°-4 (55.00 kW) S	1
311295	MFA AXC/AM 1250 mounting foot	2
8387	GFL-AXC 1250 counter flange	2

Dimensions

Air direction: S



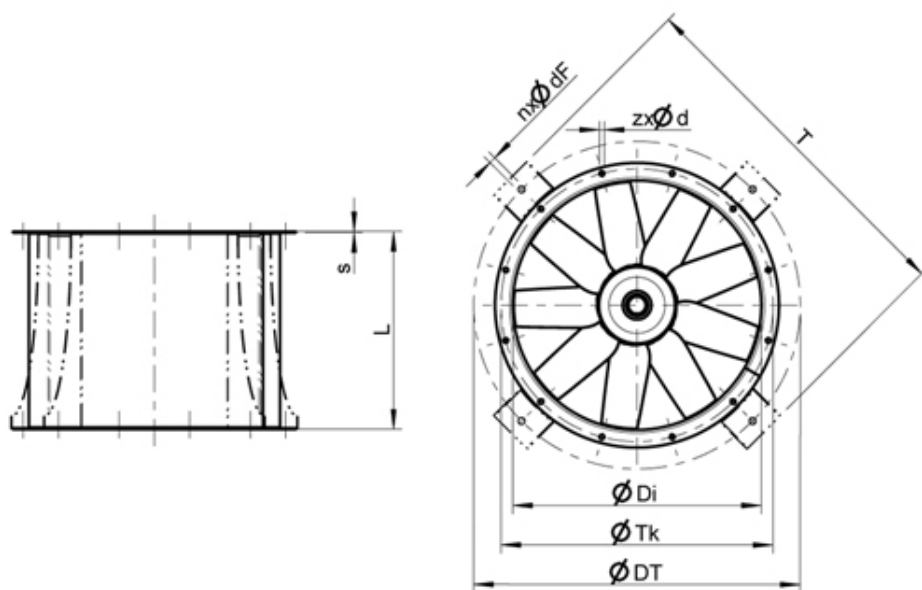
ØDa	ØDi	hF	ØTk	E	ZxØd	Motor	L	K	s
1390	1250	800	1320	1180	20x 15	132-200	850	740	5,0
						225-250	1050	938	6,0

Air direction: SO/SU (vertical).

(SO = air direction upwards; SU = air direction downwards)

Please add this information with the order,

because assembling of mounting brackets must be done accordingly during production!



ØDi	ØTk	ZxØd	ØDT	T	nxØdF	Motor	L	s
1250	1320	20x 15	1495	1575	4x 17	132-200	850	5,0
						225-250	1050	6,0