

SPARK-CHEM/Ex – explosion proof roof fan



II 2 G c Ex e II T3

Purpose

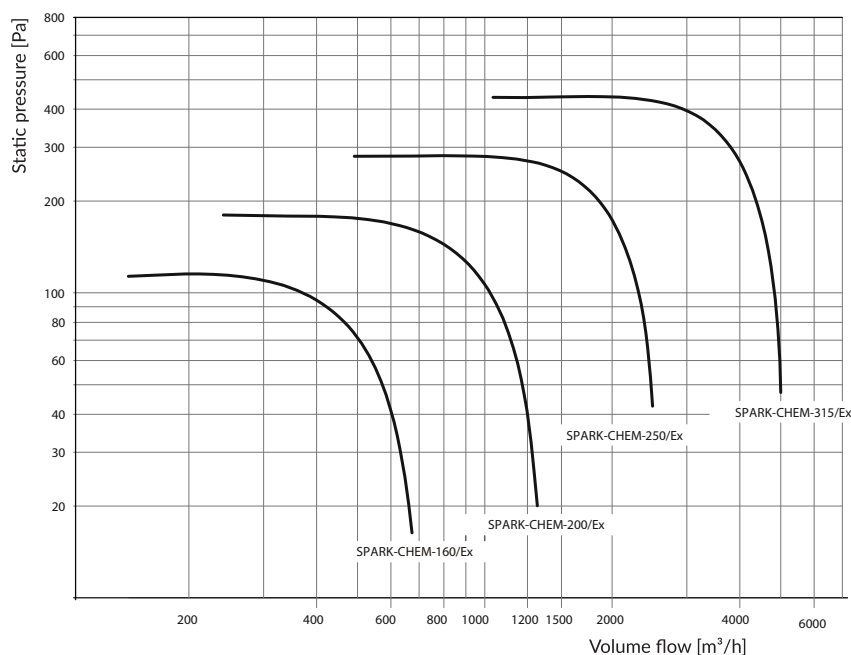
SPARK-CHEM/Ex fans have been developed for application in areas of explosion risk, where explosive atmosphere (i.e. mixture of flammable compounds in the form of gases and vapours with the air) is likely to occur. Additionally, the forwarded air can be polluted with chemically aggressive factors (see Table on page 58) of maximum dustiness concentration up to 0,3 g/m³. The SPARK-CHEM/Ex series of fans consists of four sizes of motor rates, ranging from 0,12 kW up to 0,75 kW and of maximum volume flow 5000 m³/h. The fans meet the requirements of the ErP 2009/125/EC Directive.

Structure

The fan consists of a base, supporting plate and spacing sleeves of antistatic plastic (PEEL). To the supporting plate is fastened an Ex motor with a radial impeller on its shaft. The impeller is of stainless steel acid-proof welded technology. Additionally, the protective hood and the flange (as a mounting to the roof base) are also of antistatic plastic (PEEL). The fan outlet is protected with a surrounding grill.

On demand of Customer, we deliver isolating switches to cut off the power supply during the installation activity and servicing (see catalogue card ELECTRICAL ACCESSORIES).

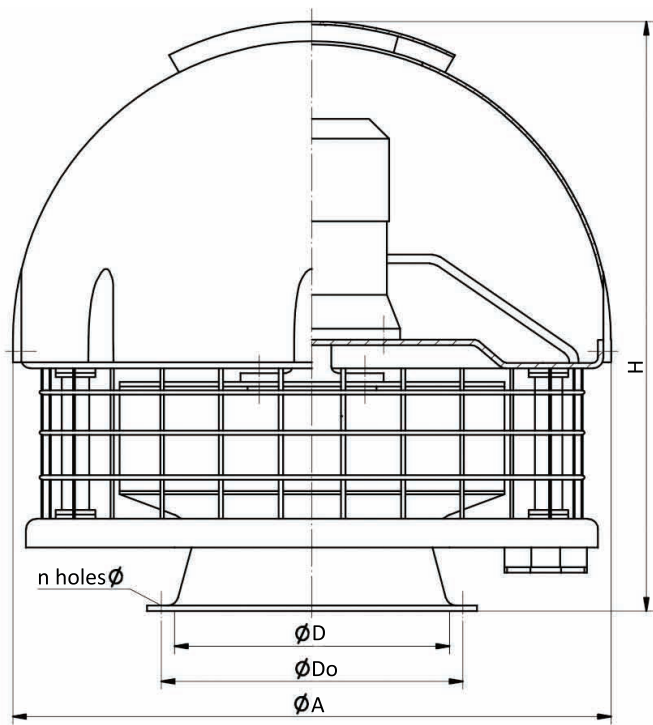
Flow Charts



Technical data

Type ¹	Part no.	Marking	Synchronous rotations [1/min]	Supply voltage [V]	Motor rate [kW]	Ingress protection IP	Maximum volume flow [m³/h]	Maximum vacuum [Pa]	Acoustic pressure level [dB(A)] from a distance of:		Weight [kg]
									1 m	5 m	
SPARK-CHEM-160/1500/Ex	808W18	II 2 G c Ex e II T3	1500	3x400	0,12	56	670	110	57	48	10,6
SPARK-CHEM-200/1500/Ex	808W19	II 2 G c Ex e II T3	1500	3x400	0,18	56	1330	180	59	50	14,2
SPARK-CHEM-250/1500/Ex	808W20	II 2 G c Ex e II T3	1500	3x400	0,37	56	2500	280	66	57	18,3
SPARK-CHEM-315/1500/Ex	808W21	II 2 G c Ex e II T3	1500	3x400	0,75	56	5000	440	69	60	27

1. On demand we offer fans of maximum temperature of the conveyed medium +60°C.



Dimensions

Type	D [mm]	Do [mm]	A [mm]	H [mm]	n [mm]	Ø [mm]
SPARK-CHEM-160/1500/Ex	160	184	420	429	8	7
SPARK-CHEM-200/1500/Ex	200	224	476	471	8	7
SPARK-CHEM-250/1500/Ex	250	274	550	523	8	7
SPARK-CHEM-315/1500/Ex	315	339	660	622	8	7