

SMART-CHEM – roof fan



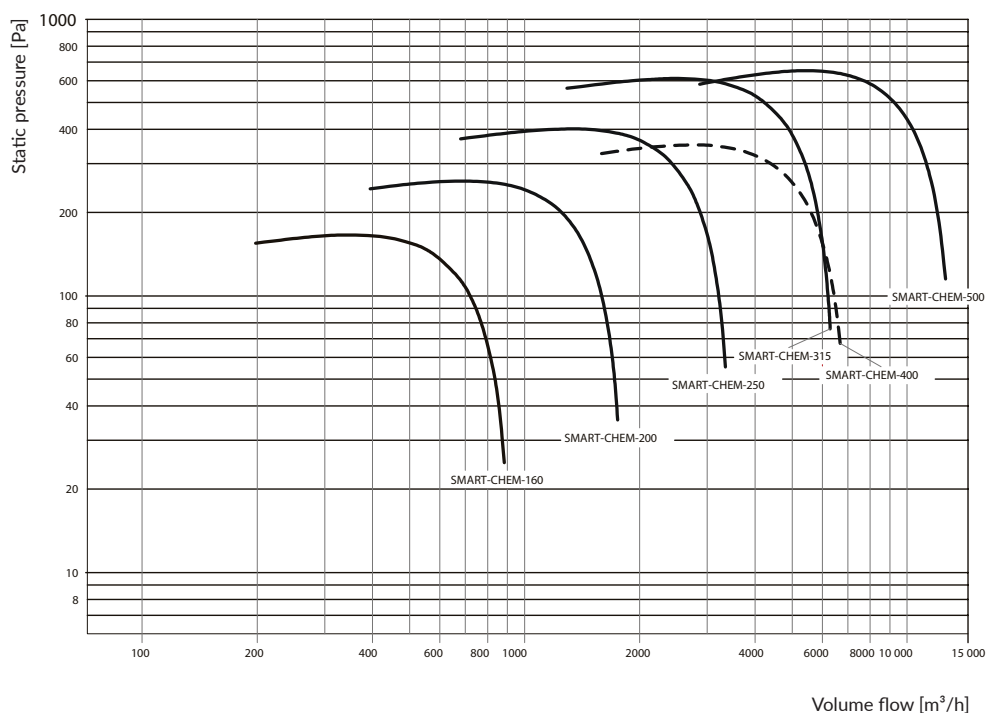
Purpose

SMART-CHEM fans have been developed for conveying the air, polluted with chemically aggressive media (see table on pages 66–67) of maximum dustiness concentration up to $0,3 \text{ g/m}^3$ and maximum temperature $+40^\circ\text{C}$. The fan cannot transport explosive mixtures. Their application range is general ventilation of rooms and they are applied in ventilation systems in industry, agriculture, building construction, as well as in buildings of public services as: laboratories, store houses, hospitals, schools, canteens, swimming pools, sewage treatment plants etc. Within the SMART-CHEM series, there are six sizes of motor rates: from $0,12 \text{ kW}$ up to $1,5 \text{ kW}$ and of maximum volume flow $12\,400 \text{ m}^3/\text{h}$. The fans meet the requirements of the ErP 2009/125/EC Directive.

Structure

Construction: a base, supporting plate and spacing sleeves of non-plasticised polyvinylchloride. To the supporting plate is fastened a motor with radial impeller on its shaft. The impeller is a welded construction of non-plasticised polyvinylchloride. Additionally, the protective hood and the flange (as a mounting to the roof base) are also of non-plasticised polyvinylchloride. The fan outlet is shielded with a surrounding grill.

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

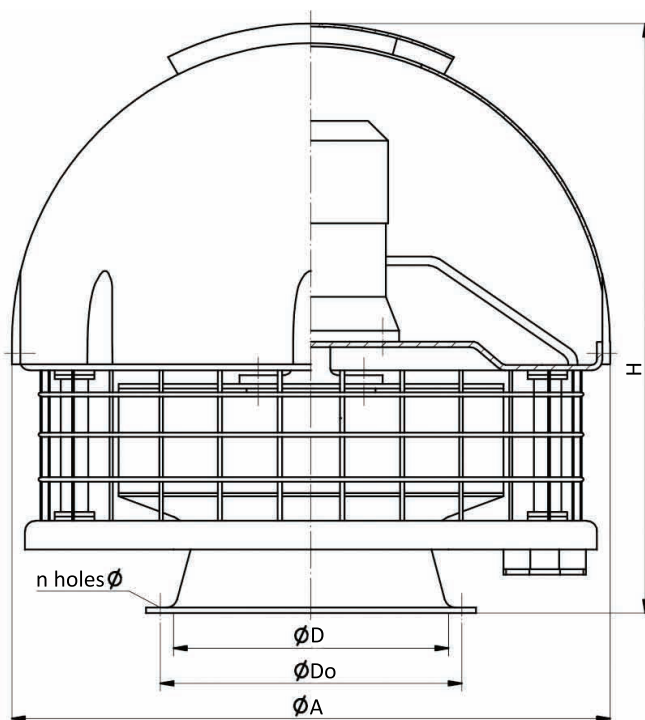


Technical data

Type ¹	Part no.	Synchronous rotations [1/min]	Supply voltage ² [V]	Motor rate [kW]	Ingress protection IP	Maximum volume flow [m ³ /h]	Maximum vacuum [Pa]	Acoustic pressure level [dB(A)] from a distance of:		Weight [kg]
								1 m	5 m	
SMART-CHEM-160/1500	802W00	1500	3x400	0,12	54	880	160	59	50	9,2
SMART-CHEM-200/1500	802W01	1500	3x400	0,18	54	1650	250	66	57	10,8
SMART-CHEM-250/1500	802W02	1500	3x400	0,37	54	3300	380	72	63	14,1
SMART-CHEM-315/1500	802W03	1500	3x400	0,75	54	6250	580	75	66	22,8
SMART-CHEM-400/1000	802W04	1000	3x400	0,55	54	6600	330	70	61	33
SMART-CHEM-500/1000	802W05	1000	3x400	1,5	54	12 400	590	76	67	70

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

2. On demand we offer fans of supply voltage 230 V.



Dimensions

Type	D [mm]	Do [mm]	A [mm]	H [mm]	n [mm]	Ø [mm]
SMART-CHEM-160/1500	160	184	418	421	8	7
SMART-CHEM-200/1500	200	224	476	460	8	7
SMART-CHEM-250/1500	250	274	548	506	8	7
SMART-CHEM-315/1500	315	339	660	615	8	7
SMART-CHEM-400/1000	400	432	802	667	12	10
SMART-CHEM-500/1000	500	573	976	837	16	15