



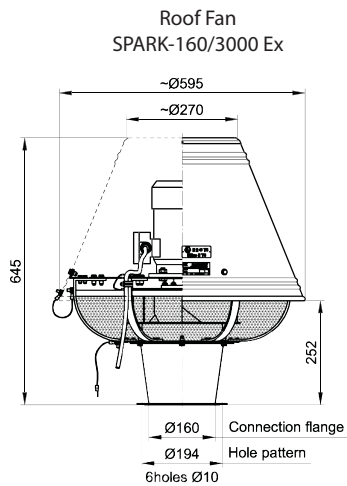
Structure

Bent steel profiles make up a frame structure of the fan. The motor along with a directly mounted radial brass impeller is of Ex execution. As protection against the atmospheric factors is a steel sheet hood with additives ensuring the discharge of the electrostatic loads. Fan housing is equipped with a clamp with cooper cable to lead the electrostatic charges away. The lower part of the fan is equipped with a steel flange as a mounting element to the roof base. Impeller of the whole SPARK/Ex series have been designed within the aspect of low noise. After testing of several impellers in the KLIMAWENT Research Development Laboratory optimal examples of the lowest noise level were finally selected. In order to reduce further the noise entering the room, it is recommended to install the fan on a sound absorbing roof base TPD or TPDC. As standard, the steel parts, i.e. supporting structure, openwork outlet and the mounting flange and the hood are powder painted in bright-grey colouring (RAL 7035).

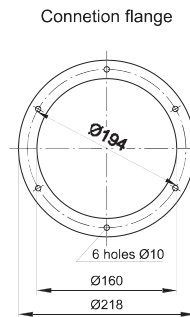
Caution

1. Maximum work temperature of the motor +40°C.
2. Fans can be applied for conveying the dry air of maximum dustiness 0,3 g/m³.
3. Fans cannot be used for conveying the air containing viscous impurities, that would deposit on the structure elements, (especially on the impeller), neither including aggressive compounds, which could have destructive effect on the construction.

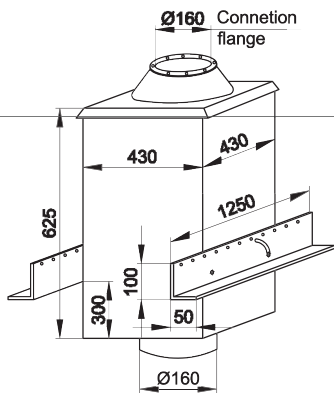
SPARK-160 Ex



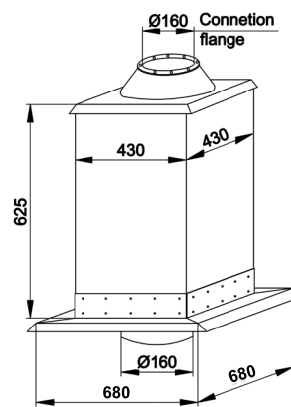
Connection flange



Sound absorbing
roof base
TPD-160-N

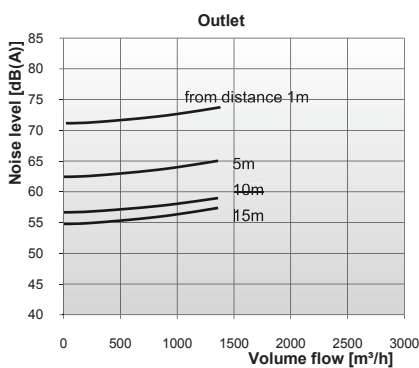


Sound absorbing
roof base
TPDC-160-N

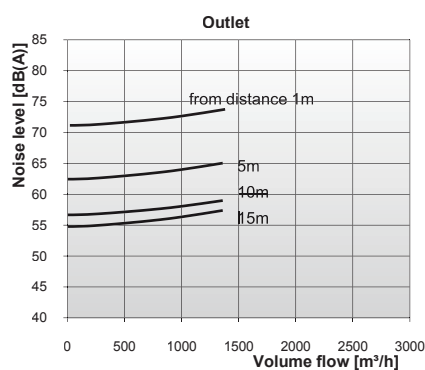


SPARK-160/3000 Ex

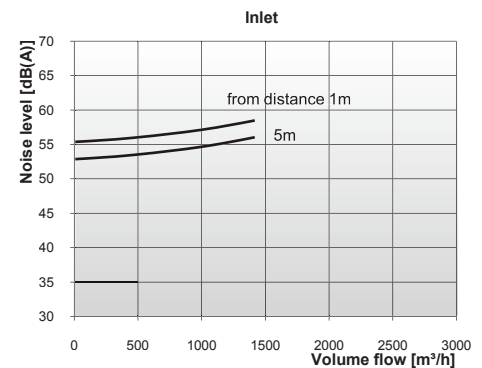
Acoustic characteristics



Acoustic characteristics



Acoustic characteristics



Technical data

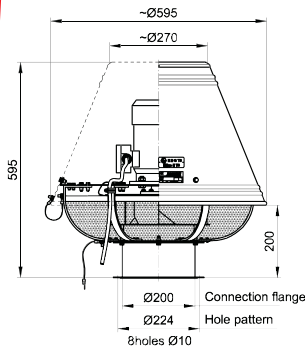
Type	Part No.	Synchronous rotations [1/min]	Supply voltage [V]	Motor rate [kW]	Ingress protection IP	Maximum volume flow [m³/h]	Maximum underpressure [Pa]	Weight [kg]
SPARK- 160/3000/Ex II 2 GT3	808W60	3000	3×400	0,55	55	1400	760	22
Sound absorbing roof base TPD-160-N	843P40	–	–	–	–	–	–	28
Sound absorbing roof base TPDC-160-N	843P50	–	–	–	–	–	–	30

Caution:

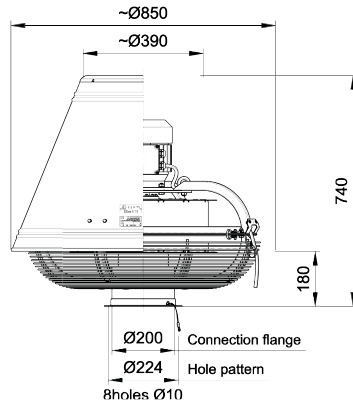
These above characteristics have been carried out for the fans installed on a TPD-N or TDPC-N sound absorbing roof base. In order to reduce the noise level additionally a TK silencer can be suspended under the TPD-N or TPDC-N roof base.

SPARK-200 Ex

Roof Fan
SPARK-200/3000 Ex



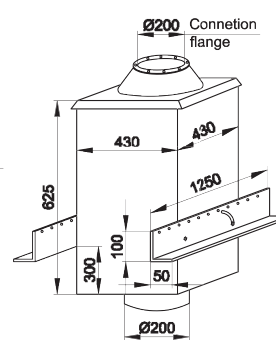
Roof Fan
SPARK-200/1500 Ex



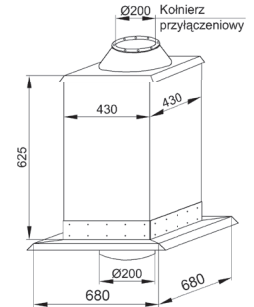
Connection flange



Sound absorbing
roof base
TPD-200-N

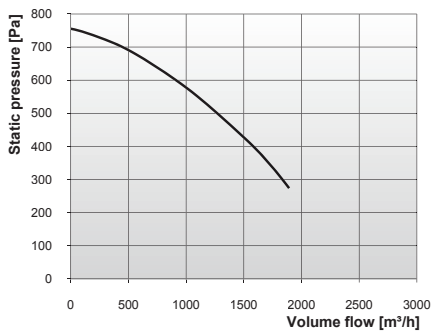


Sound absorbing
roof base
TPDC-200-N

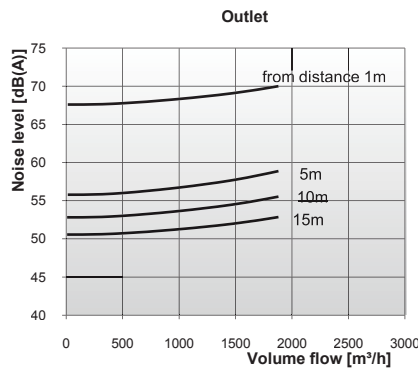


SPARK-200/3000 Ex

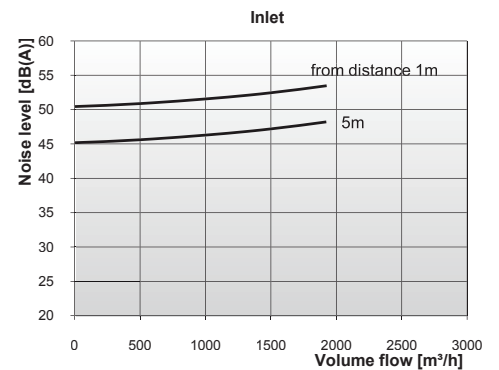
Flow characteristics



Acoustic characteristics

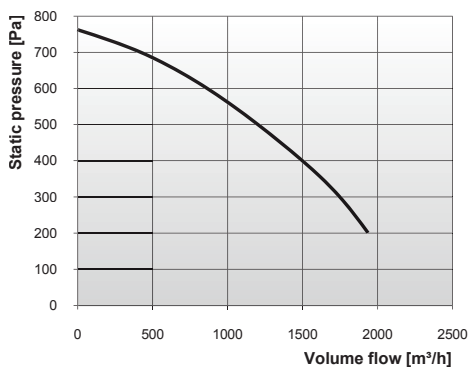


Acoustic characteristics

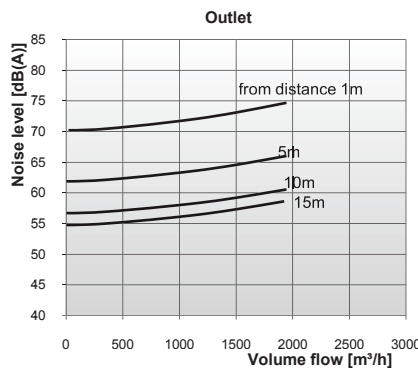


SPARK-200/1500 Ex

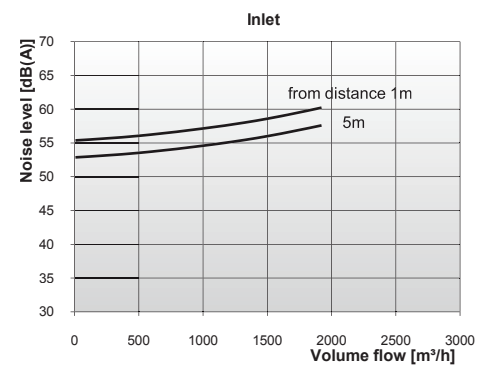
Flow characteristics



Acoustic characteristics



Acoustic characteristics



Technical data

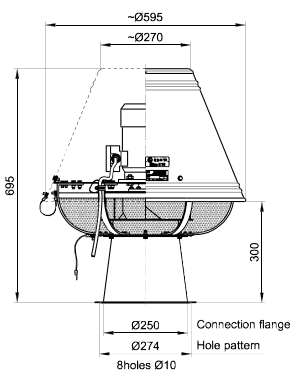
Type	Part No.	Synchronous rotations [1/min]	Supply voltage [V]	Motor rate [kW]	Ingress protection IP	Maximum volume flow [m³/h]	Maximum underpressure [Pa]	Weight [kg]
SPARK-200/3000/Ex II 2G T3	808W62	3000	3×400	0,55	55	1920	760	22
SPARK-200/1500/Ex II 2G T3	808W63	1500	3×400	0,55	55	1870	740	53
Sound absorbing roof base TPD-200-N	843P41	–	–	–	–	–	–	28
Sound absorbing roof base TPDC-200-N	843P51	–	–	–	–	–	–	30

Caution:

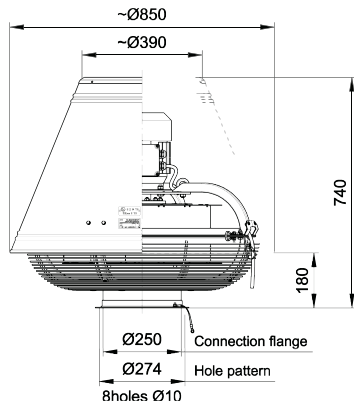
These above characteristics have been carried out for the fans installed on a TPD-N or TPDC-N sound absorbing roof base. In order to reduce the noise level additionally a TK silencer can be suspended under the TPD-N or TPDC-N roof base.

SPARK-250 Ex

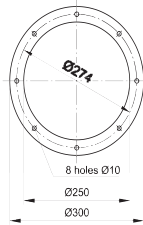
Roof Fan
SPARK-250/3000 Ex



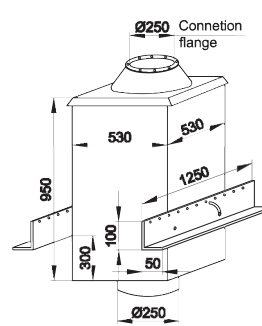
Roof Fan
SPARK-250/1500 Ex



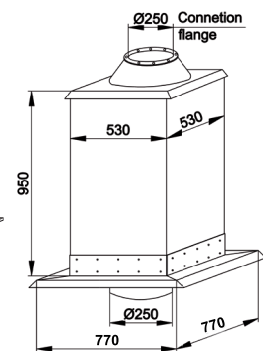
Connection flange



Sound absorbing
roof base
TPD-250-N

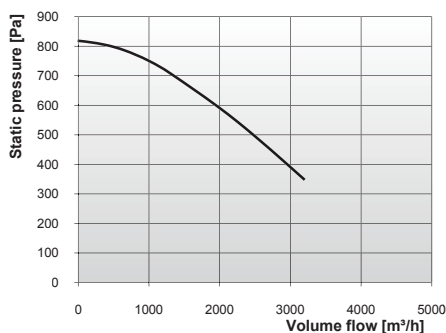


Sound absorbing
roof base
TPDC-250-N

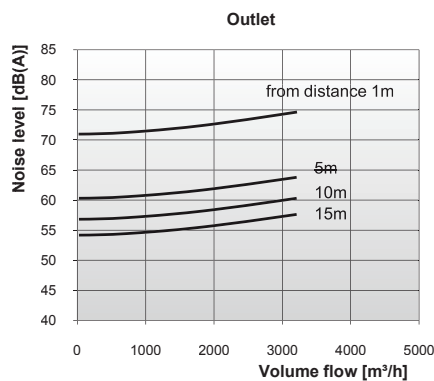


SPARK-250/3000 Ex

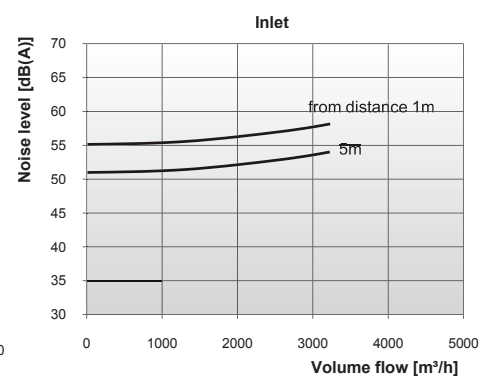
Flow characteristics



Acoustic characteristics

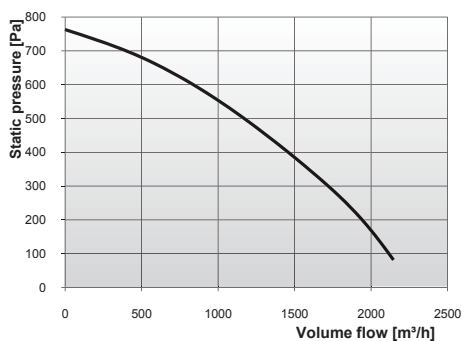


Acoustic characteristics

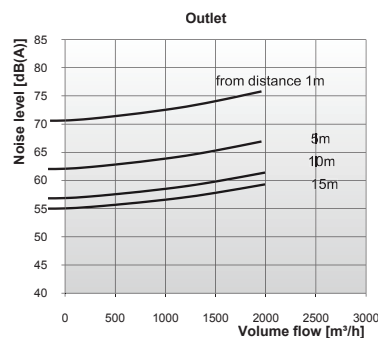


SPARK-250/1500 Ex

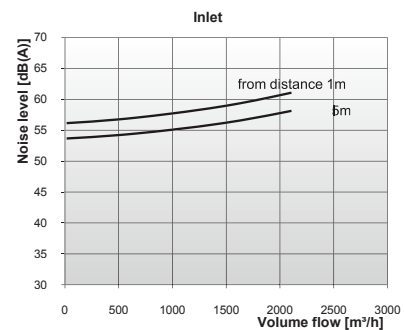
Flow characteristics



Acoustic characteristics



Acoustic characteristics



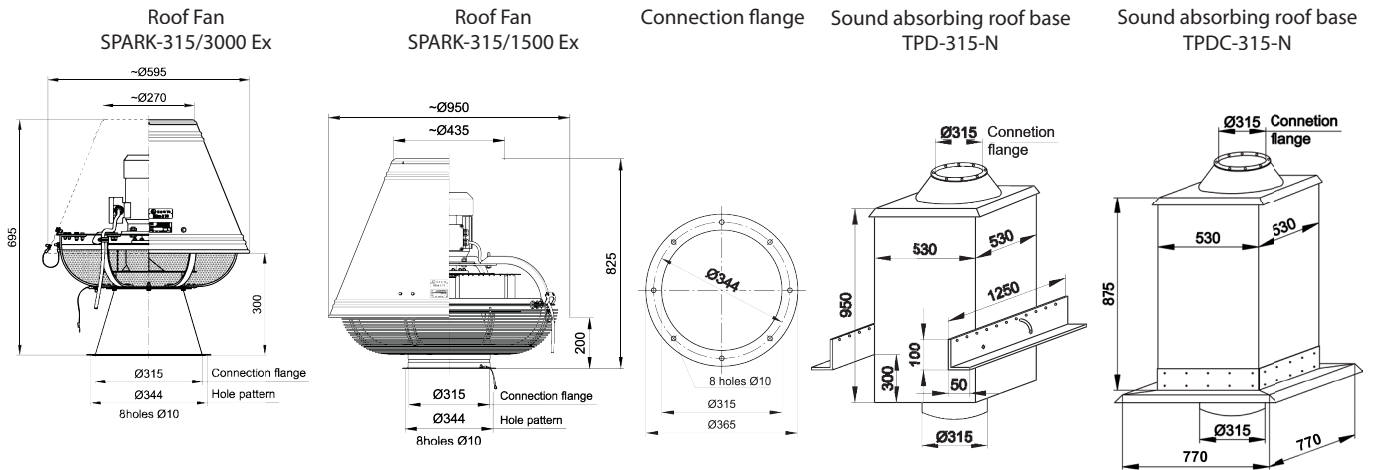
Technical data

Type	Part No.	Synchronous rotations [1/min]	Supply voltage [V]	Motor rate [kW]	Ingress protection IP	Maximum volume flow [m³/h]	Maximum underpressure [Pa]	Weight [kg]
SPARK-250/3000/Ex II 2G T3	808W64	3000	3×400	0,55	55	2170	760	22
SPARK-250/1500/Ex II 2G T3	808W65	1500	3×400	1,1	55	3130	820	60
Sound absorbing roof base TPD-250-N	843P42	—	—	—	—	—	—	41
Sound absorbing roof base TPDC-250-N	843P52	—	—	—	—	—	—	46

Caution:

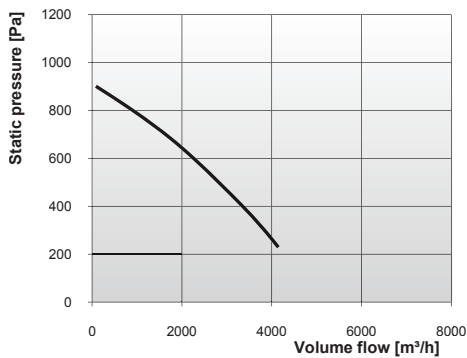
These above characteristics have been carried out for the fans installed on a TPD-N or TDPC-N sound absorbing roof base. In order to reduce the noise level additionally a TK silencer can be suspended under the TPD-N or TPDC-N roof base.

SPARK-315 Ex

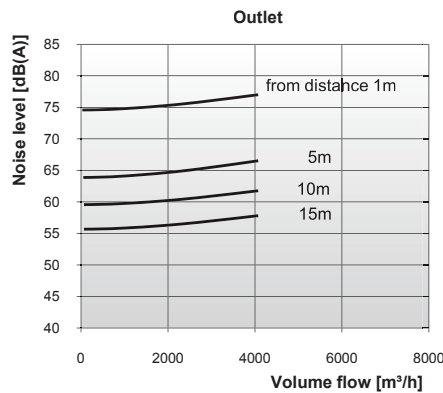


SPARK-315/3000 Ex

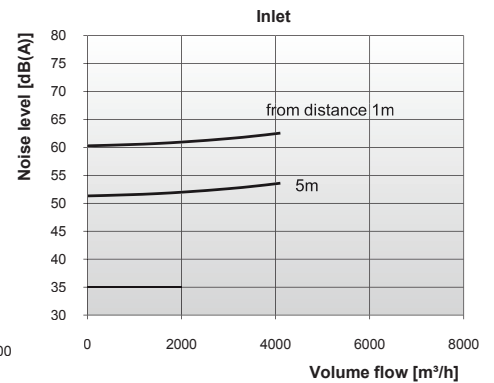
Flow characteristics



Acoustic characteristics

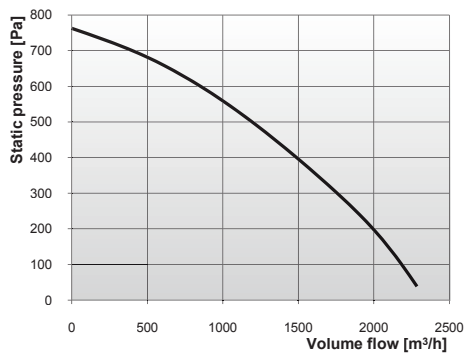


Acoustic characteristics

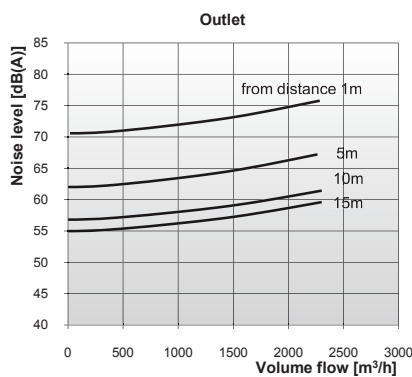


SPARK-315/1500 Ex

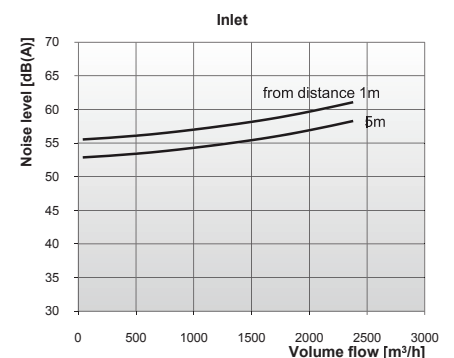
Flow characteristics



Acoustic characteristics



Acoustic characteristics



Technical data

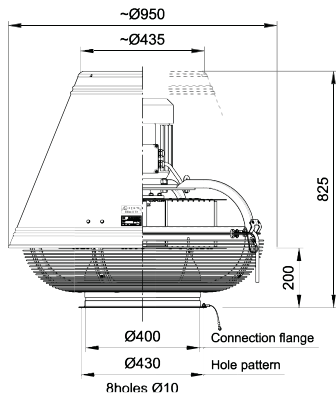
Type	Part No.	Synchronous rotations [1/min]	Supply voltage [V]	Motor rate [kW]	Ingress protection IP	Maximum volume flow [m³/h]	Maximum underpressure [Pa]	Weight [kg]
SPARK-315/3000/Ex II 2 GT3	808W66	3000	3×400	0,55	55	2300	760	22
SPARK-315/1500/Ex II 2 GT3	808W67	1500	3×400	1,5	55	4100	910	73
Sound absorbing roof base TPD-315-N	843P43	–	–	–	–	–	–	41
Sound absorbing roof base TPDC-315-N	843P53	–	–	–	–	–	–	46

Caution:

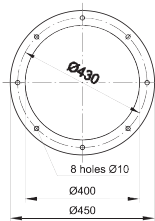
These above characteristics have been carried out for the fans installed on a TPD-N or TPDC-N sound absorbing roof base. In order to reduce the noise level additionally a TK silencer can be suspended under the TPD-N or TPDC-N roof base.

SPARK-400 Ex

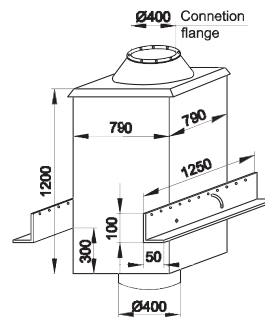
Roof Fan
SPARK-400/1000 Ex
SPARK-400/1500 Ex



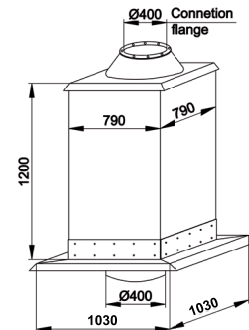
Connection flange



Sound absorbing roof base
TPD-400-N

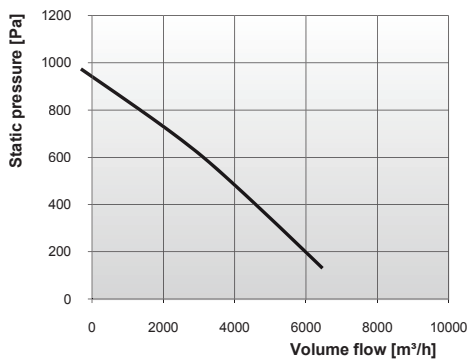


Sound absorbing roof base
TPDC-400-N

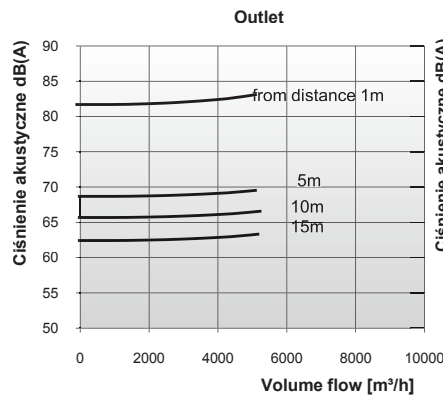


SPARK-400/1500 Ex

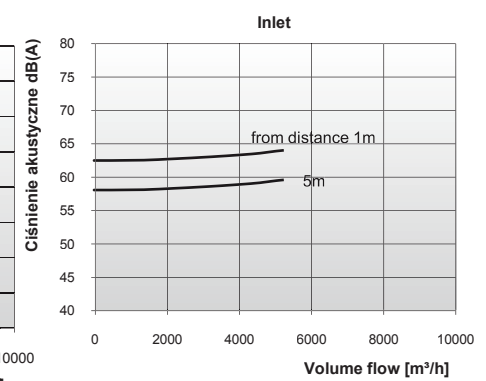
Flow characteristics



Acoustic characteristics

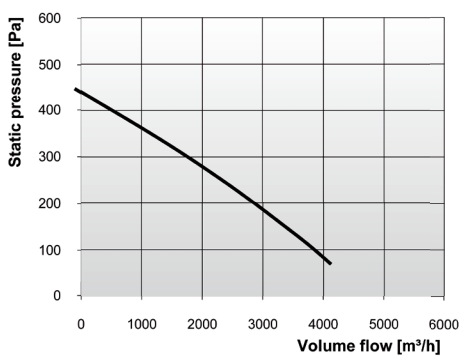


Acoustic characteristics

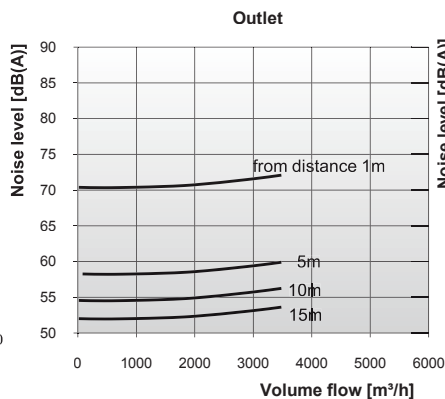


SPARK-400/1000 Ex

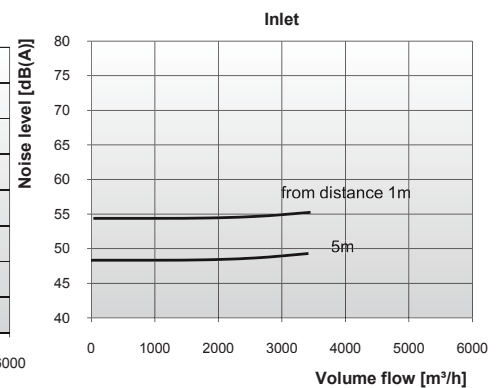
Flow characteristics



Acoustic characteristics



Acoustic characteristics



Technical data

Type	Part No.	Synchronous rotations [1/min]	Supply voltage [V]	Motor rate [kW]	Ingress protection IP	Maximum volume flow [m³/h]	Maximum underpressure [Pa]	Weight [kg]
SPARK-400/1500/Ex II 2 GT3	808W70	1500	3x400	3,0	55	5200	990	84
SPARK-400/1000/Ex II 2 GT3	808W69	1000	3x400	0,75	55	3390	440	71
Sound absorbing roof base TPD-400-N	843P27	-	-	-	-	-	-	41
Sound absorbing roof base TPDC-400-N	843P54	-	-	-	-	-	-	46

Caution:

These above characteristics have been carried out for the fans installed on a TPD-N or TDPC-N sound absorbing roof base. In order to reduce the noise level additionally a TK silencer can be suspended under the TPD-N or TPDC-N roof base.