

DVV-EX 560D4-XS ROOF FAN

Item no. 95416

Document type: **Product card**
 Document date: **2019-06-19**
 Generated by: **Systemair Online Catalogue**

Description

- Certified according to ATEX
- Speed-controllable via frequency converter
- Sucking side connection according EUROVENT

Roof fans DVV-Ex are designed to exhaust potentially explosive atmospheres (mixtures of air and inflammables such as gases and steam) from explosion hazardous areas. The DVV-Ex fans have impellers with backward-curved blades and IEC motor in explosion protection "flameproof enclosure" - Ex d. The casing is manufactured from seawater-resistant aluminium and the base frame from hot dip galvanised steel, with a copper inlet cone. Suitable for exhaust from zones 1 or 2, field of application II, for gases of groups A and B and temperature classes T1 to T4. The fans are classified to category 2G. Marking of the serial equipped fan (c = constructional protection): **II 2G c IIB T4**. Terminal box in explosion protection "increased safety" - II 2G Ex e IIC T5/T6 is mounted on the casing. Up to request additionally equipped and marked fans are available to achieve extended temperature respectively gas range: II 2G c IIB T3 (-20<Ta<55°C), II 2G c IIB+H2 T3 (-20<Ta<55°C), II 2Gc IIB T4 (-40<Ta<40°C). To enable protection of motor from overheating DVV-Ex fans have serial built-in thermistors (PTC) with external leads (connection to U-EK230E motor protection relay as accessorie possible). On request the fan can be factory fitted with sound attenuator HSDV (accessorie) on outlet (marking of the fan DVVI-Ex).

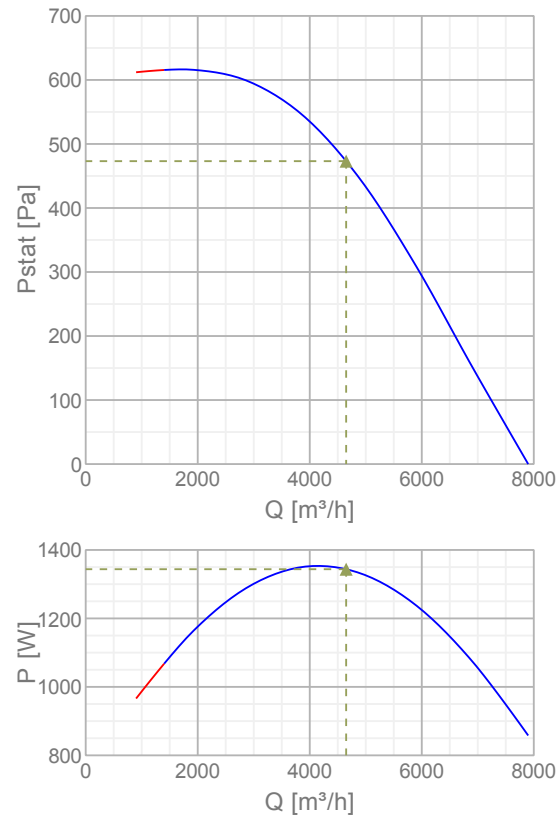


Technical parameters

Voltage	400	V
Motor circuit connection	Y	
Frequency	50	Hz
Phase	3	~
Input power (P1)	1349	W
Current	2,4	A
Starting current	11,5	A
Max. airflow	7900	m³/h
Fan impeller speed	1410	r.p.m.
Temperature range, ambient and duct	-20-40	°C
Sound pressure level at 4 m (free field)	66	dB(A)
Sound pressure level at 10 m (free field)	59	dB(A)
Weight	103	kg
Insulation class	F	
Enclosure class, motor	IP55	
Motor protection	U-EK230E	
Resistance	14,1	Ω
Certificate	SIQ 14 ATEX 143X	
Explosion proof	II 2G c IIBT4	

Performance

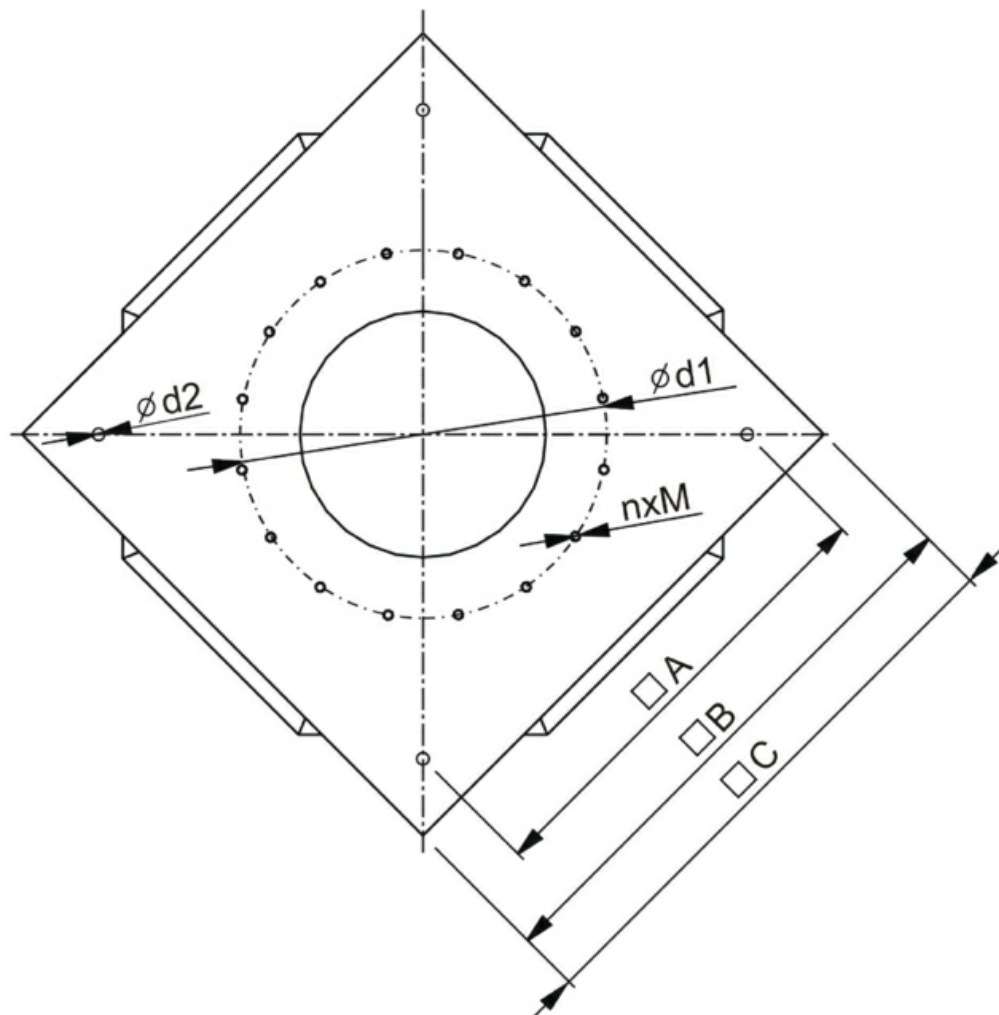
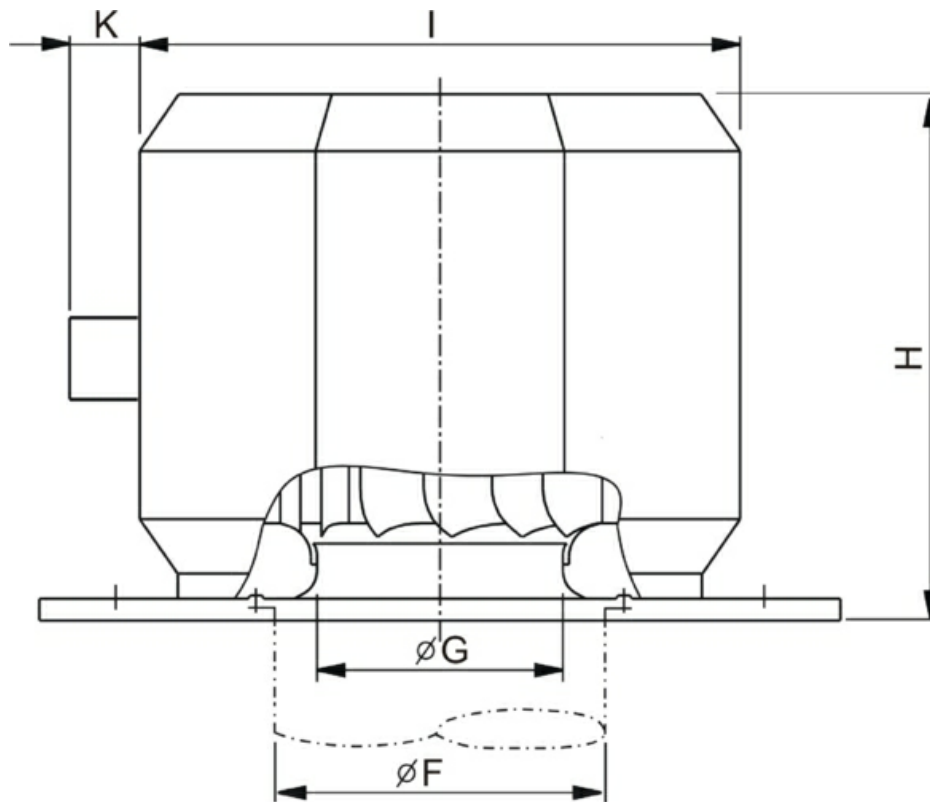
Diagrams



Max efficiency

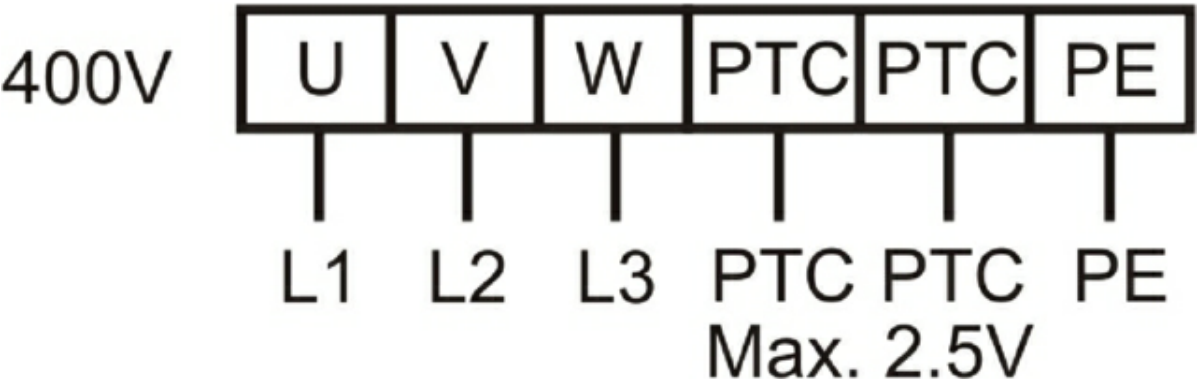
Hydraulic data	
▲ Working air flow	4650 m³/h
▲ Working static pressure	473 Pa
▲ Power	1344 W
Speed	1410 r.p.m.
Current	2,41 A
SFP	1,04 kW/(m³/s)
Voltage	400 V

Dimensions



	□A	□B	□C	øF	øG	H	I	K	ød1	ød2	nxM
DVV-EX 560	750	939	943	560	361	990	892	90	620	14	12xM8

Wiring



Acoustics

Mid-frequency band, Hz

560D4-XS	Hz	Tot	63	125	250	500	1k	2k	4k	8k
LwA Inlet	dB(A)	83	46	75	75	74	74	76	74	66
LwA Surrounding	dB(A)	84	56	66	74	78	78	79	75	67

Measuring point: qv = 1,9 m³/s, Ps = 160 Pa

DVV-EX 560D4-XL ROOF FAN

Item no. 95417

Document type: **Product card**
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Description

- Certified according to ATEX
- Speed-controllable via frequency converter
- Sucking side connection according EUROVENT

Roof fans DVV-Ex are designed to exhaust potentially explosive atmospheres (mixtures of air and inflammables such as gases and steam) from explosion hazardous areas. The DVV-Ex fans have impellers with backward-curved blades and IEC motor in explosion protection "flameproof enclosure" - Ex d. The casing is manufactured from seawater-resistant aluminium and the base frame from hot dip galvanised steel, with a copper inlet cone. Suitable for exhaust from zones 1 or 2, field of application II, for gases of groups A and B and temperature classes T1 to T4. The fans are classified to category 2G. Marking of the serial equipped fan (c = constructional protection): **II 2G c IIB T4**. Terminal box in explosion protection "increased safety" - II 2G Ex e IIC T5/T6 is mounted on the casing. Up to request additionally equipped and marked fans are available to achieve extended temperature respectively gas range: II 2G c IIB T3 (-20<Ta<55°C), II 2G c IIB+H2 T3 (-20<Ta<55°C), II 2Gc IIB T4 (-40<Ta<40°C). To enable protection of motor from overheating DVV-Ex fans have serial built-in thermistors (PTC) with external leads (connection to U-EK230E motor protection relay as accessorie possible). On request the fan can be factory fitted with sound attenuator HSDV (accessorie) on outlet (marking of the fan DVVI-Ex).

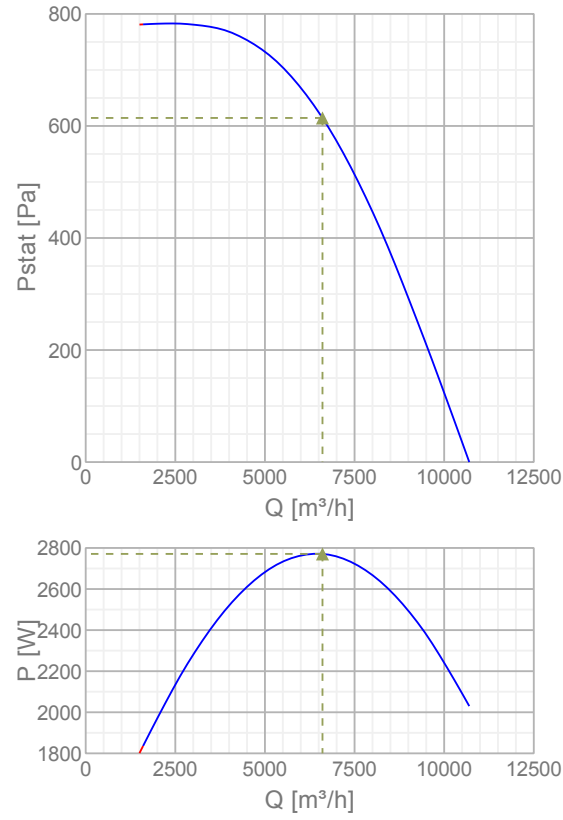


Technical parameters

Voltage	400	V
Motor circuit connection	Y	
Frequency	50	Hz
Phase	3	~
Input power (P1)	2769	W
Current	4,8	A
Starting current	21,6	A
Max. airflow	10700	m³/h
Fan impeller speed	1429	r.p.m.
Temperature range, ambient and duct	-20-40	°C
Sound pressure level at 4 m (free field)	69	dB(A)
Sound pressure level at 10 m (free field)	62	dB(A)
Weight	114	kg
Insulation class	F	
Enclosure class, motor	IP55	
Motor protection	U-EK230E	
Resistance	7,1	Ω
Certificate	SIQ 14 ATEX 143X	
Explosion proof	II 2G c IIBT4	

Performance

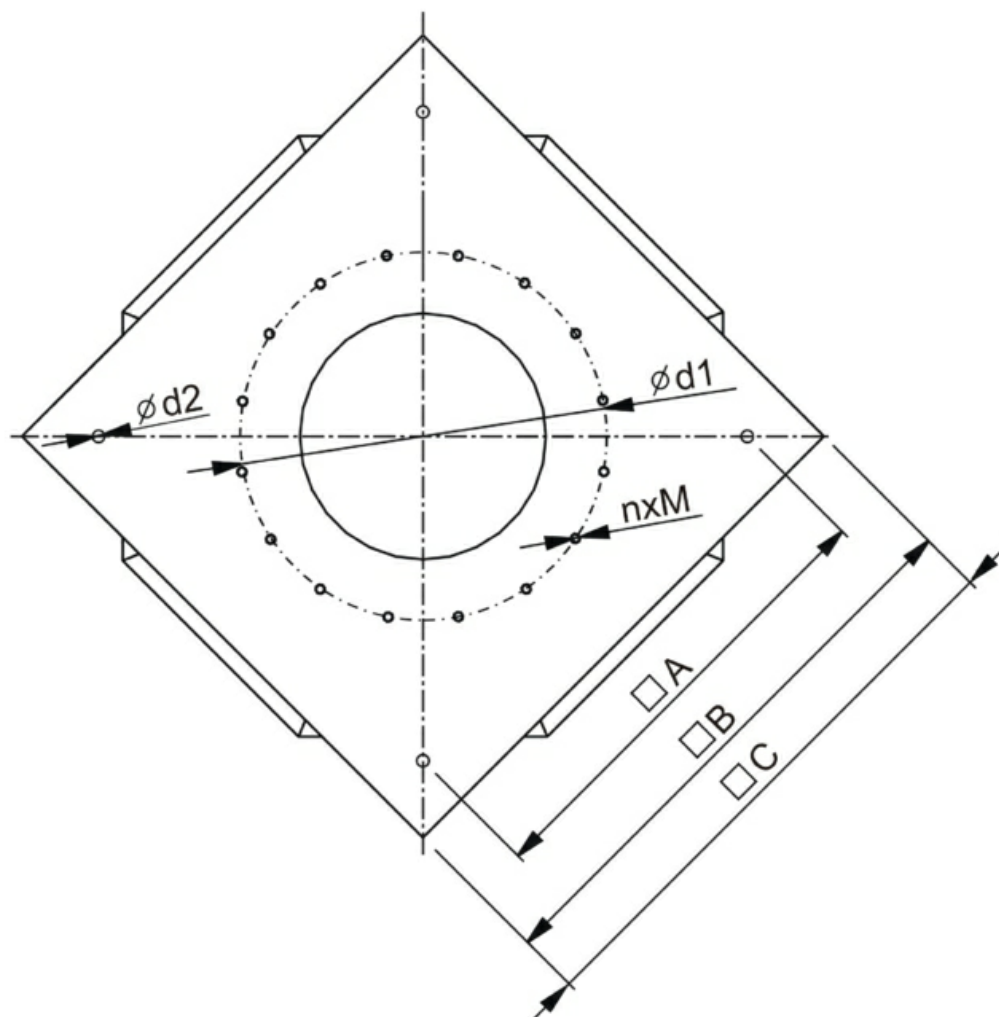
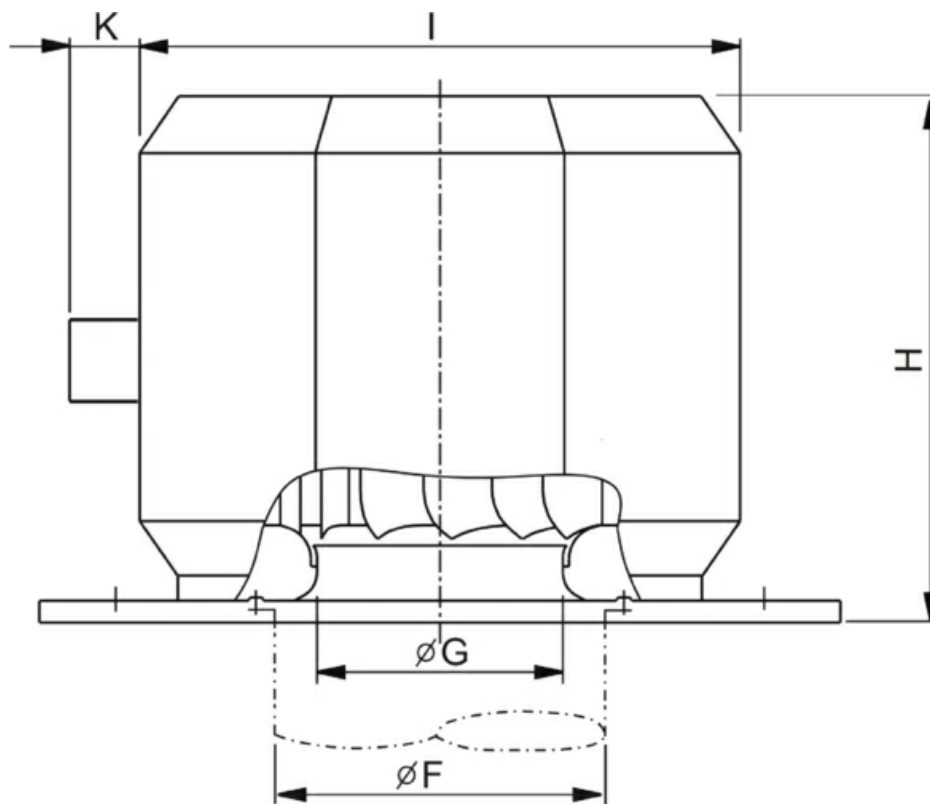
Diagrams



Max efficiency

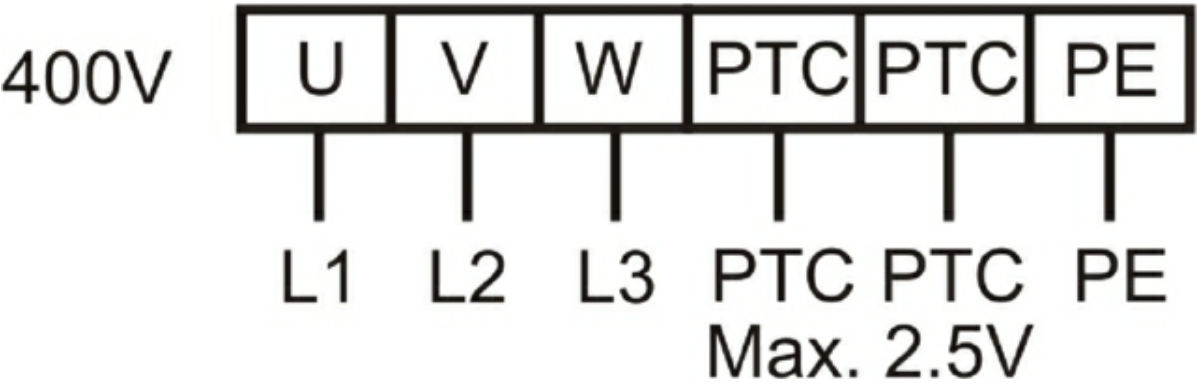
Hydraulic data	
▲ Working air flow	6605 m³/h
▲ Working static pressure	614 Pa
▲ Power	2771 W
Speed	1429 r.p.m.
Current	4,81 A
SFP	1,51 kW/(m³/s)
Voltage	400 V

Dimensions



	□A	□B	□C	øF	øG	H	I	K	ød1	ød2	nxM
DVV-EX 560	750	939	943	560	361	990	892	90	620	14	12xM8

Wiring



Acoustics

Mid-frequency band, Hz

560D4-XL	Hz	Tot	63	125	250	500	1k	2k	4k	8k
LwA Inlet	dB(A)	90	56	82	83	81	82	84	81	79
LwA Surrounding	dB(A)	90	63	80	83	83	85	81	73	66

Measuring point: qv = 2,4 m³/s, Ps = 350 Pa

DVV-EX 560D6-XL ROOF FAN

Item no. **95419**

Document type: **Product card**
 Document date: **2019-06-19**
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Description

- Certified according to ATEX
- Speed-controllable via frequency converter
- Sucking side connection according EUROVENT

Roof fans DVV-Ex are designed to exhaust potentially explosive atmospheres (mixtures of air and inflammables such as gases and steam) from explosion hazardous areas. The DVV-Ex fans have impellers with backward-curved blades and IEC motor in explosion protection "flameproof enclosure" - Ex d. The casing is manufactured from seawater-resistant aluminium and the base frame from hot dip galvanised steel, with a copper inlet cone. Suitable for exhaust from zones 1 or 2, field of application II, for gases of groups A and B and temperature classes T1 to T4. The fans are classified to category 2G. Marking of the serial equipped fan (c = constructional protection): **II 2G c IIB T4**. Terminal box in explosion protection "increased safety" - II 2G Ex e IIC T5/T6 is mounted on the casing. Up to request additionally equipped and marked fans are available to achieve extended temperature respectively gas range: II 2G c IIB T3 (-20<Ta<55°C), II 2G c IIB+H2 T3 (-20<Ta<55°C), II 2Gc IIB T4 (-40<Ta<40°C). To enable protection of motor from overheating DVV-Ex fans have serial built-in thermistors (PTC) with external leads (connection to U-EK230E motor protection relay as accessorie possible). On request the fan can be factory fitted with sound attenuator HSDV (accessorie) on outlet (marking of the fan DVVI-Ex).

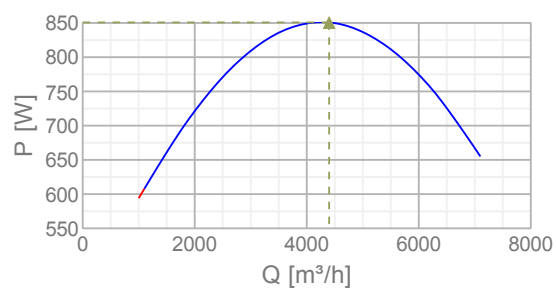
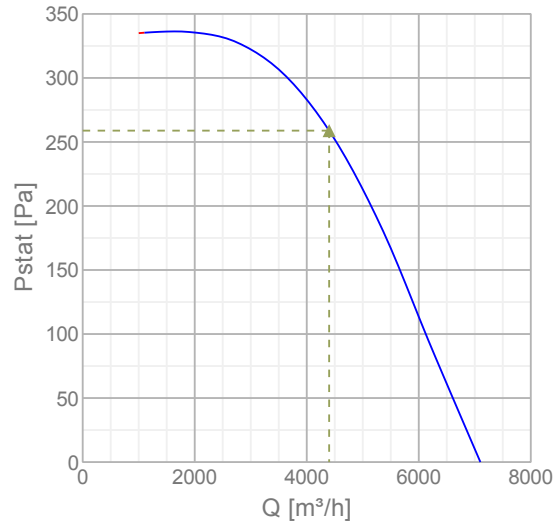


Technical parameters

Voltage	400	V
Motor circuit connection	Y	
Frequency	50	Hz
Phase	3	~
Input power (P1)	851	W
Current	1,8	A
Starting current	7,8	A
Max. airflow	7100	m³/h
Fan impeller speed	947	r.p.m.
Temperature range, ambient and duct	-20-40	°C
Sound pressure level at 4 m (free field)	59	dB(A)
Sound pressure level at 10 m (free field)	52	dB(A)
Weight	103	kg
Insulation class	F	
Enclosure class, motor	IP55	
Motor protection	U-EK230E	
Resistance	20,4	Ω
Certificate	SIQ 14 ATEX 143X	
Explosion proof	II 2G c IIBT4	

Performance

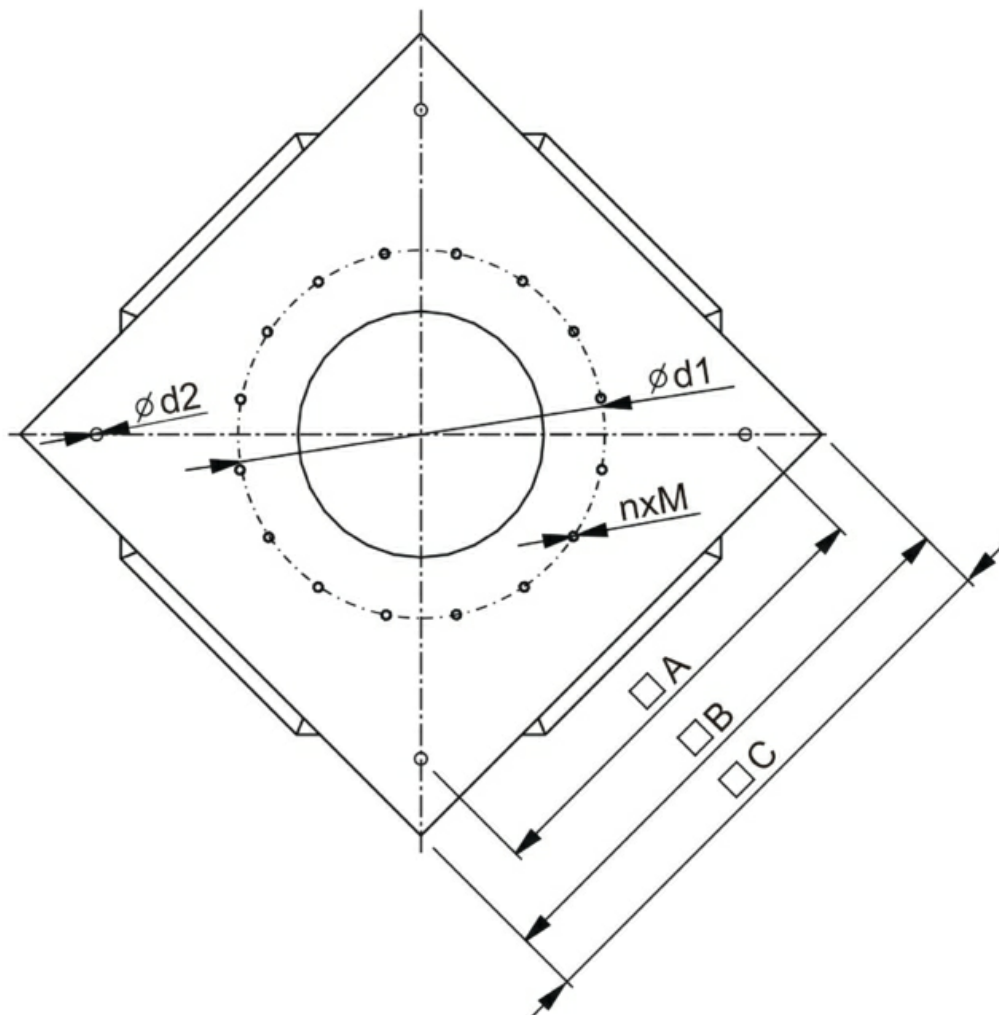
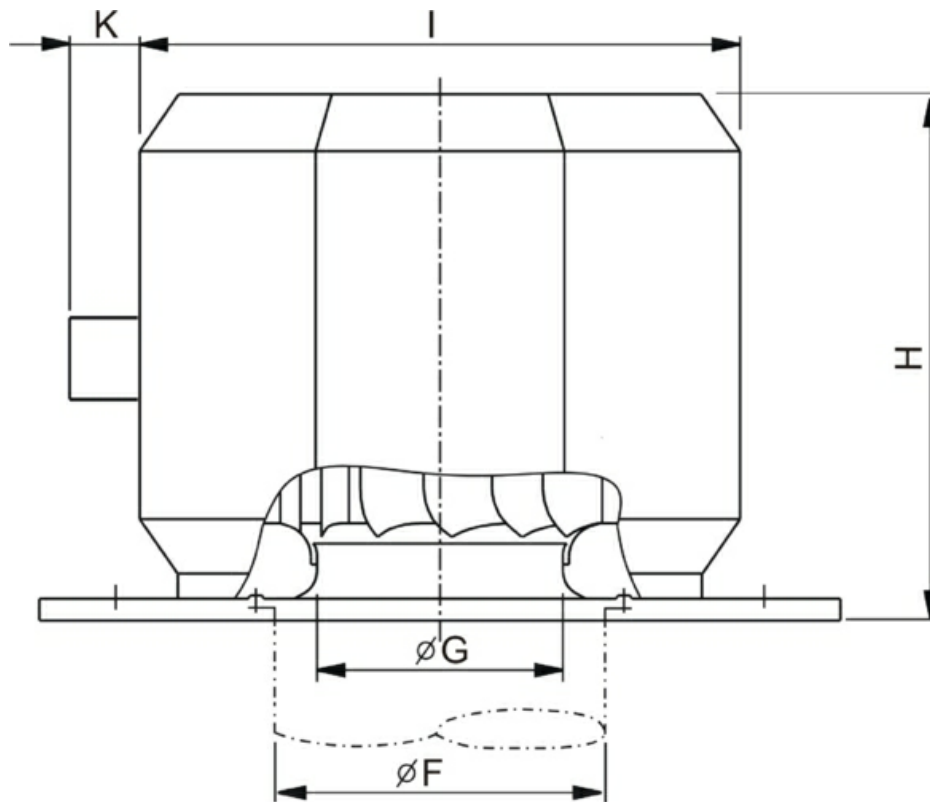
Diagrams



Max efficiency

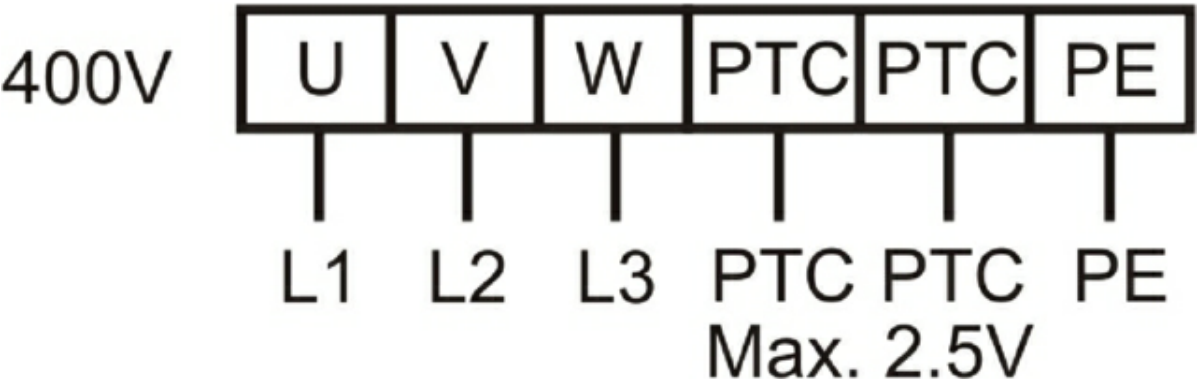
Hydraulic data	
▲ Working air flow	4400 m³/h
▲ Working static pressure	259 Pa
▲ Power	851 W
Speed	947 r.p.m.
Current	1,8 A
SFP	0,696 kW/(m³/s)
Voltage	400 V

Dimensions



	□A	□B	□C	øF	øG	H	I	K	ød1	ød2	nxM
DVV-EX 560	750	939	943	560	361	990	892	90	620	14	12xM8

Wiring



Acoustics

Mid-frequency band, Hz

560D6-XL	Hz	Tot	63	125	250	500	1k	2k	4k	8k
LwA Inlet	dB(A)	80	50	72	73	73	72	73	64	57
LwA Surrounding	dB(A)	80	56	70	73	74	75	69	55	44

Measuring point: qv = 1,65 m³/s, Ps = 122 Pa

DVV-EX 630D4-XS ROOF FAN

Item no. **95422**

Document type: **Product card**
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Description

- Certified according to ATEX
- Speed-controllable via frequency converter
- Sucking side connection according EUROVENT

Roof fans DVV-Ex are designed to exhaust potentially explosive atmospheres (mixtures of air and inflammables such as gases and steam) from explosion hazardous areas. The DVV-Ex fans have impellers with backward-curved blades and IEC motor in explosion protection "flameproof enclosure" - Ex d. The casing is manufactured from seawater-resistant aluminium and the base frame from hot dip galvanised steel, with a copper inlet cone. Suitable for exhaust from zones 1 or 2, field of application II, for gases of groups A and B and temperature classes T1 to T4. The fans are classified to category 2G. Marking of the serial equipped fan (c = constructional protection): **II 2G c IIB T4**. Terminal box in explosion protection "increased safety" - II 2G Ex e IIC T5/T6 is mounted on the casing. Up to request additionally equipped and marked fans are available to achieve extended temperature respectively gas range: II 2G c IIB T3 (-20<Ta<55°C), II 2G c IIB+H2 T3 (-20<Ta<55°C), II 2Gc IIB T4 (-40<Ta<40°C). To enable protection of motor from overheating DVV-Ex fans have serial built-in thermistors (PTC) with external leads (connection to U-EK230E motor protection relay as accessorie possible). On request the fan can be factory fitted with sound attenuator HSDV (accessorie) on outlet (marking of the fan DVVI-Ex).

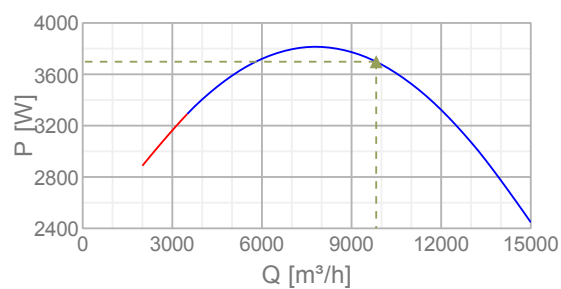
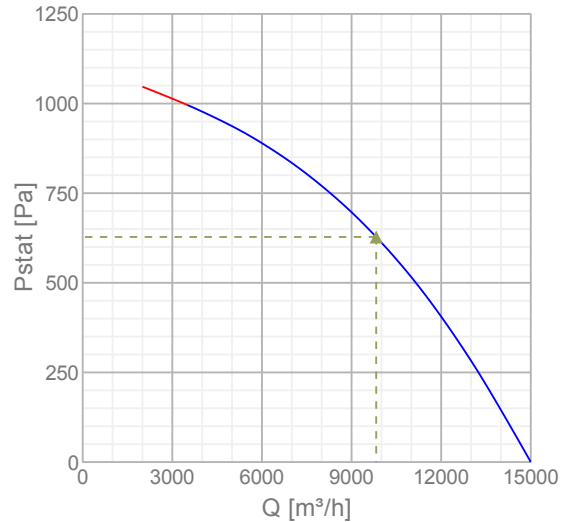


Technical parameters

Voltage	400	V
Motor circuit connection	Y	
Frequency	50	Hz
Phase	3	~
Input power (P1)	3773	W
Current	6,6	A
Starting current	32,5	A
Max. airflow	15000	m³/h
Fan impeller speed	1424	r.p.m.
Temperature range, ambient and duct	-20-40	°C
Sound pressure level at 4 m (free field)	71	dB(A)
Sound pressure level at 10 m (free field)	63	dB(A)
Weight	145	kg
Insulation class	F	
Enclosure class, motor	IP55	
Motor protection	U-EK230E	
Resistance	4,4	Ω
Certificate	SIQ 14 ATEX 143X	
Explosion proof	II 2G c IIBT4	

Performance

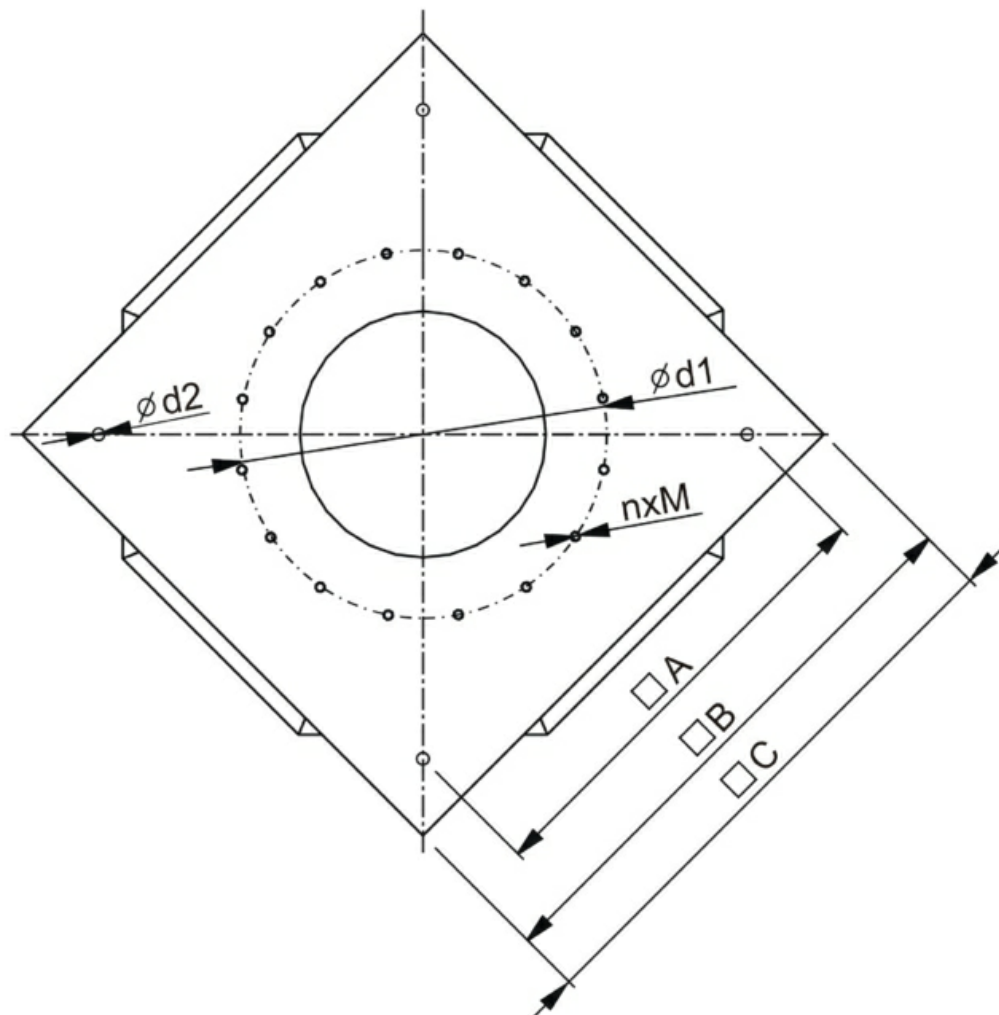
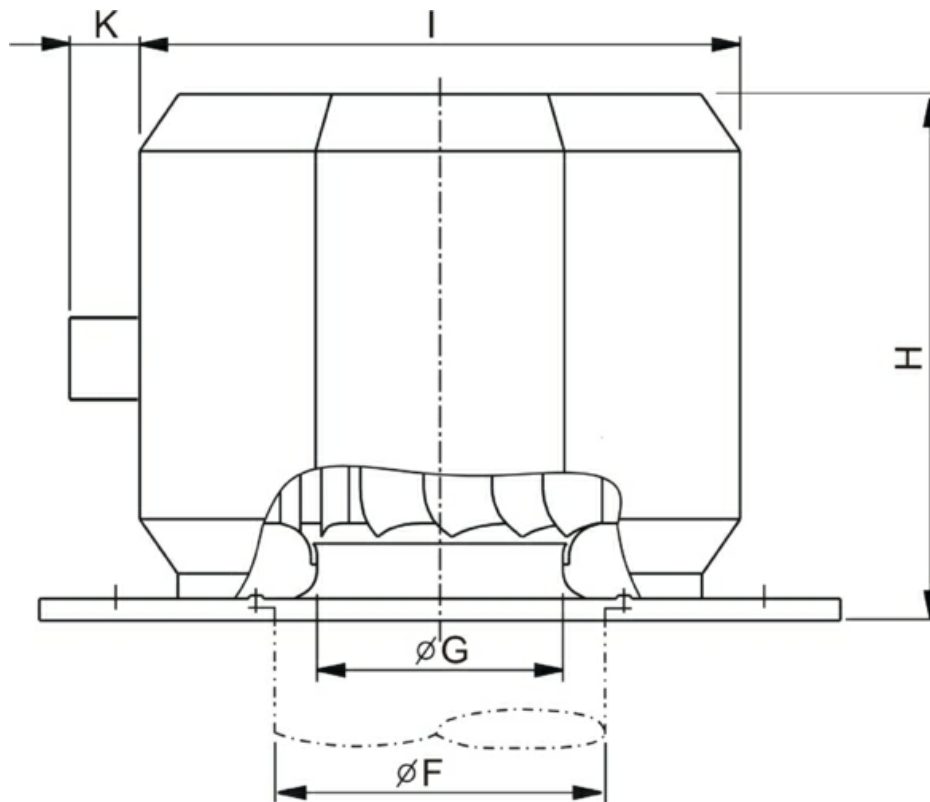
Diagrams



Max efficiency

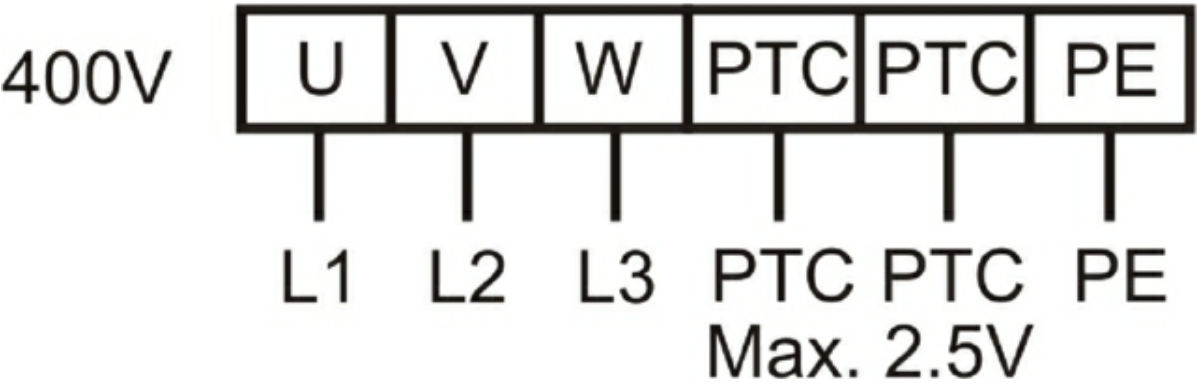
Hydraulic data	
▲ Working air flow	9825 m³/h
▲ Working static pressure	628 Pa
▲ Power	3698 W
Speed	1426 r.p.m.
Current	6,55 A
SFP	1,36 kW/(m³/s)
Voltage	400 V

Dimensions



	□A	□B	□C	øF	øG	H	I	K	ød1	ød2	nxM
DVV-EX 630	840	1035	1039	630	451	964	1100	90	690	14	12xM8

Wiring



Acoustics

Mid-frequency band, Hz											
630D4-K	Hz	Tot	63	125	250	500	1k	2k	4k	8k	
LwA Inlet	dB(A)	92	65	77	85	86	85	83	80	72	
LwA Surrounding	dB(A)	94	67	79	87	88	87	85	82	74	

Measuring point: qv = 3,11 m³/s, Ps = 495 Pa

DVV-EX 630D4-XL ROOF FAN

Item no. **95420**

Document type: **Product card**
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Description

- Certified according to ATEX
- Speed-controllable via frequency converter
- Sucking side connection according EUROVENT

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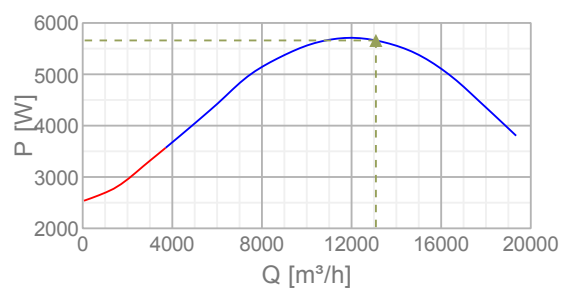
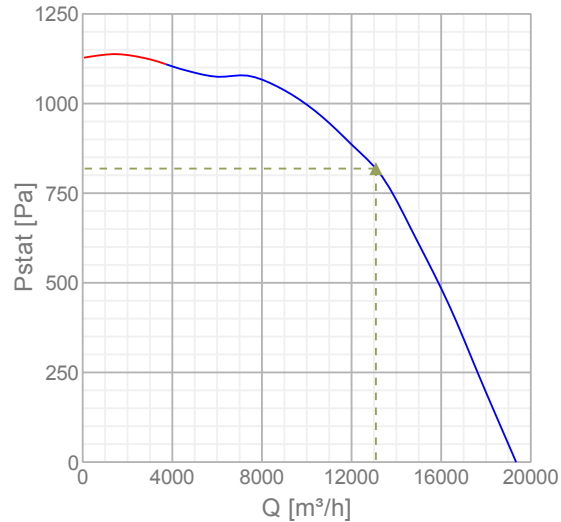


Technical parameters

Voltage	400	V
Motor circuit connection	D	
Frequency	50	Hz
Phase	3	~
Input power (P1)	5667	W
Current	9,9	A
Starting current	55,1	A
Max. airflow	19345	m³/h
Fan impeller speed	1448	r.p.m.
Temperature range, ambient and duct	-20-40	°C
Sound pressure level at 4 m (free field)	75	dB(A)
Sound pressure level at 10 m (free field)	69	dB(A)
Weight	183	kg
Insulation class	F	
Enclosure class, motor	IP55	
Motor protection	U-EK230E	
Resistance	1,9	Ω
Certificate	SIQ 14 ATEX 143X	
Explosion proof	II 2G c IIBT4	

Performance

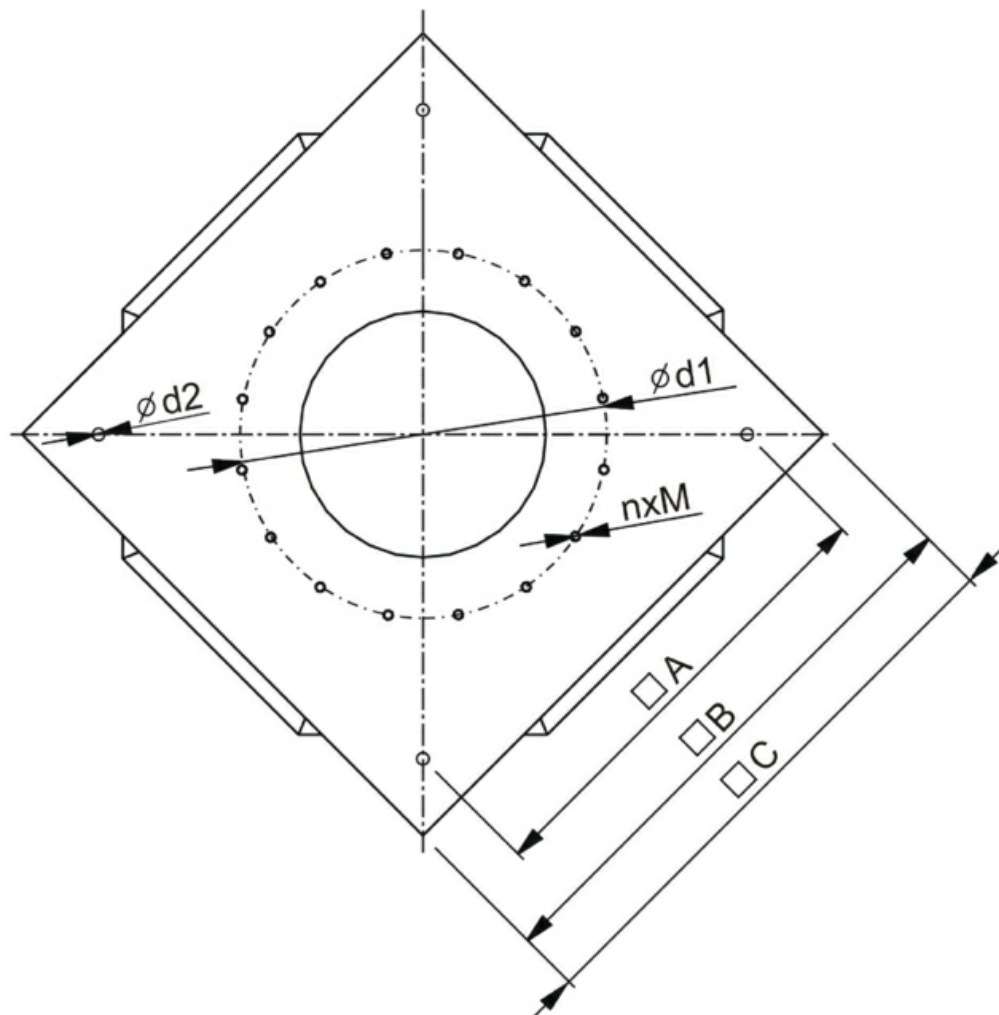
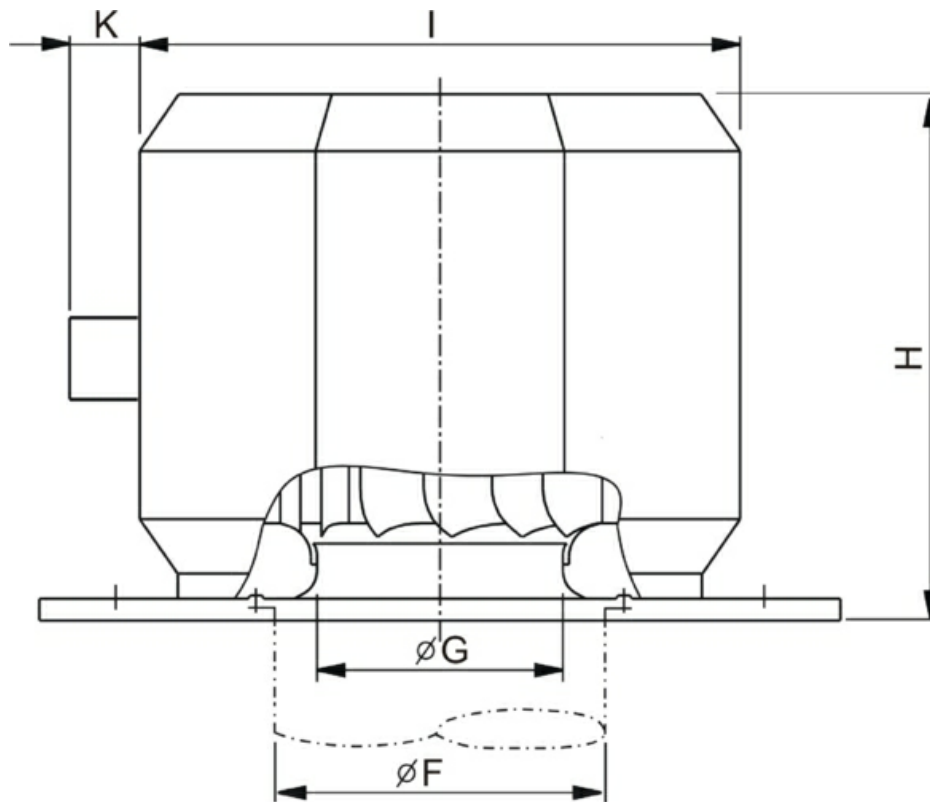
Diagrams



Max efficiency

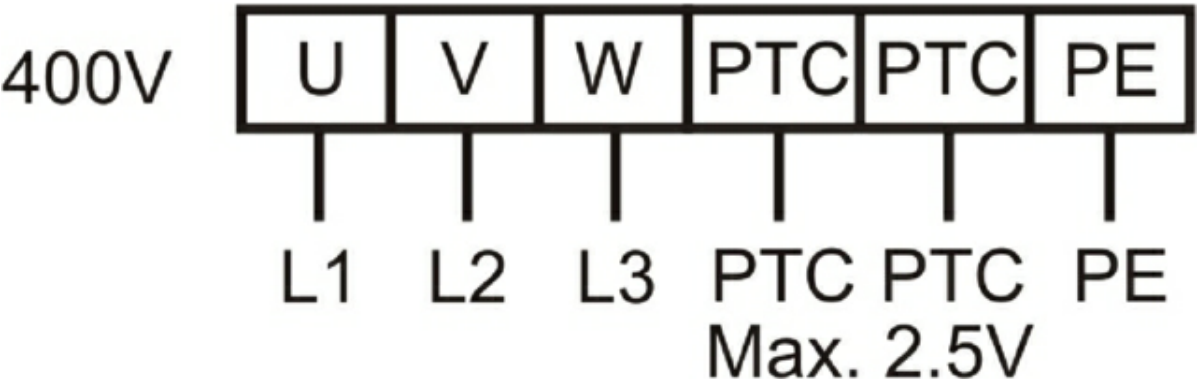
Hydraulic data	
▲ Working air flow	13087 m³/h
▲ Working static pressure	819 Pa
▲ Power	5659 W
Speed	1449 r.p.m.
Current	9,85 A
SFP	1,56 kW/(m³/s)
Voltage	400 V

Dimensions



	□A	□B	□C	øF	øG	H	I	K	ød1	ød2	nxM
DVV-EX 630	840	1035	1039	630	451	964	1100	90	690	14	12xM8

Wiring



Acoustics

Mid-frequency band, Hz

630D4	Hz	Tot	63	125	250	500	1k	2k	4k	8k
LwA Inlet	dB(A)	97	68	79	91	90	92	87	81	72
LwA Surrounding	dB(A)	98	68	87	88	91	91	91	89	79

Measuring point: qv = 4,66 m³/s, Ps = 375 Pa

DVV-EX 630D6-XS ROOF FAN

Item no. **95423**

Document type: **Product card**
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Description

- Certified according to ATEX
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- Sucking side connection according EUROVENT

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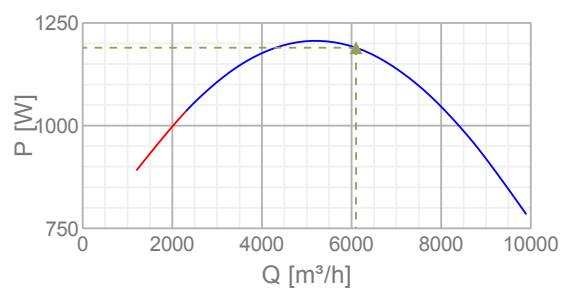
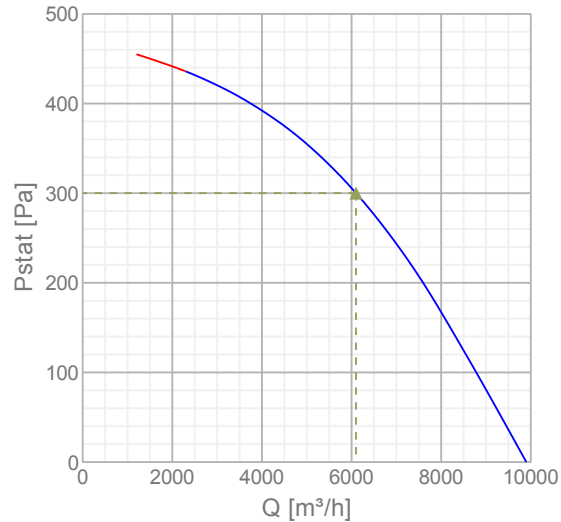


Technical parameters

Voltage	400	V
Motor circuit connection	Y	
Frequency	50	Hz
Phase	3	~
Input power (P1)	1193	W
Current	2,6	A
Starting current	12,3	A
Max. airflow	9900	m³/h
Fan impeller speed	950	r.p.m.
Temperature range, ambient and duct	-20-40	°C
Sound pressure level at 4 m (free field)	61	dB(A)
Sound pressure level at 10 m (free field)	53	dB(A)
Weight	134	kg
Insulation class	F	
Enclosure class, motor	IP55	
Motor protection	U-EK230E	
Resistance	12,8	Ω
Certificate	SIQ 14 ATEX 143X	
Explosion proof	II 2G c IIBT4	

Performance

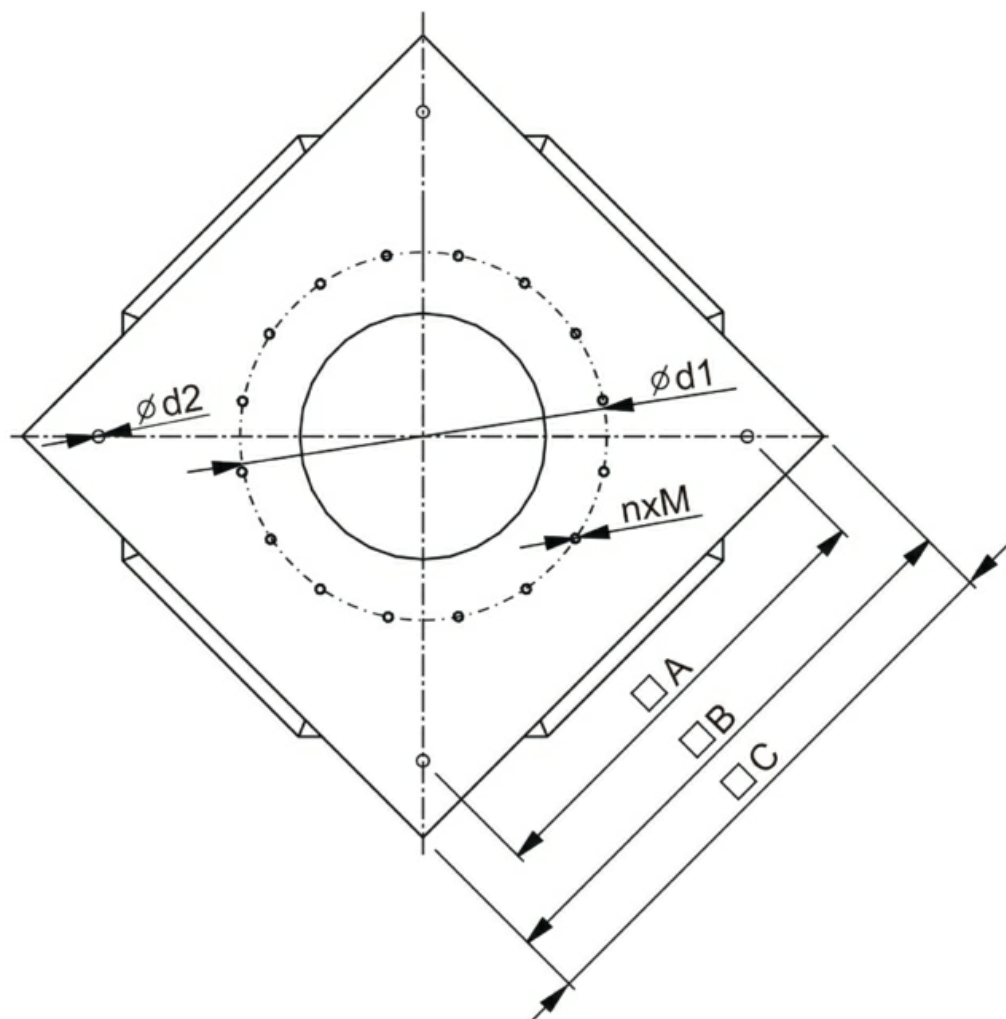
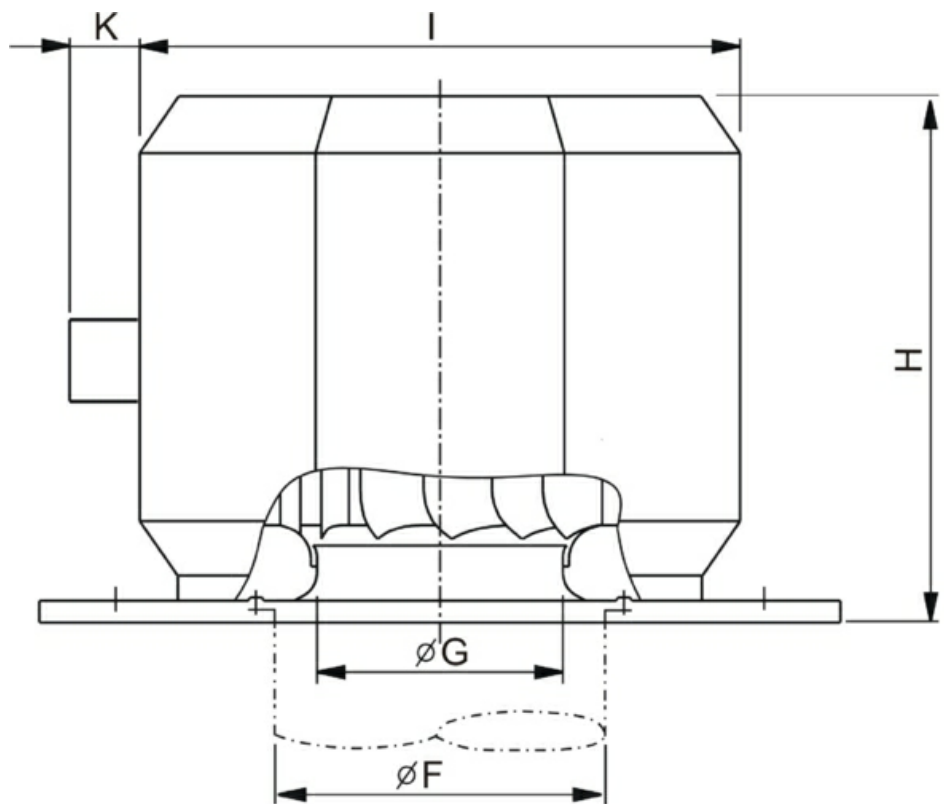
Diagrams



Max efficiency

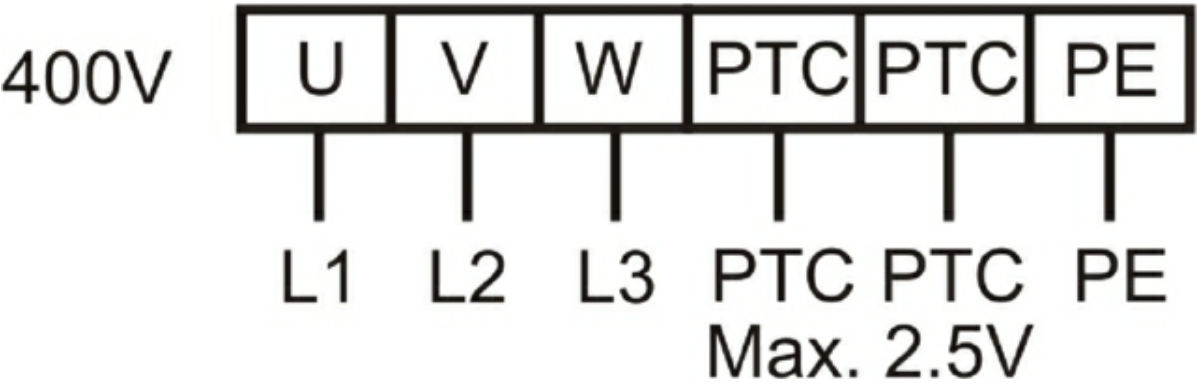
Hydraulic data	
▲ Working air flow	6100 m³/h
▲ Working static pressure	300 Pa
▲ Power	1190 W
Speed	950 r.p.m.
Current	2,6 A
SFP	0,702 kW/(m³/s)
Voltage	400 V

Dimensions



	□A	□B	□C	øF	øG	H	I	K	ød1	ød2	nxM
DVV-EX 630	840	1035	1039	630	451	964	1100	90	690	14	12xM8

Wiring



Acoustics

Mid-frequency band, Hz

630D6-K	Hz	Tot	63	125	250	500	1k	2k	4k	8k
LwA Inlet	dB(A)	82	58	69	71	78	73	72	68	55
LwA Surrounding	dB(A)	84	60	71	73	80	75	74	70	57

Measuring point: qv = 1,39 m³/s, Ps = 355 Pa

DVV-EX 800D6-XS ROOF FAN

Item no. **95425**

Document type: **Product card**
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Description

- Certified according to ATEX
- Speed-controllable via frequency converter
- Sucking side connection according EUROVENT

Roof fans DVV-Ex are designed to exhaust potentially explosive atmospheres (mixtures of air and inflammables such as gases and steam) from explosion hazardous areas. The DVV-Ex fans have impellers with backward-curved blades and IEC motor in explosion protection "flameproof enclosure" - Ex d. The casing is manufactured from seawater-resistant aluminium and the base frame from hot dip galvanised steel, with a copper inlet cone. Suitable for exhaust from zones 1 or 2, field of application II, for gases of groups A and B and temperature classes T1 to T4. The fans are classified to category 2G. Marking of the serial equipped fan (c = constructional protection): **II 2G c IIB T4**. Terminal box in explosion protection "increased safety" - II 2G Ex e IIC T5/T6 is mounted on the casing. Up to request additionally equipped and marked fans are available to achieve extended temperature respectively gas range: II 2G c IIB T3 (-20<Ta<55°C), II 2G c IIB+H2 T3 (-20<Ta<55°C), II 2Gc IIB T4 (-40<Ta<40°C). To enable protection of motor from overheating DVV-Ex fans have serial built-in thermistors (PTC) with external leads (connection to U-EK230E motor protection relay as accessorie possible). On request the fan can be factory fitted with sound attenuator HSDV (accessorie) on outlet (marking of the fan DVVI-Ex).

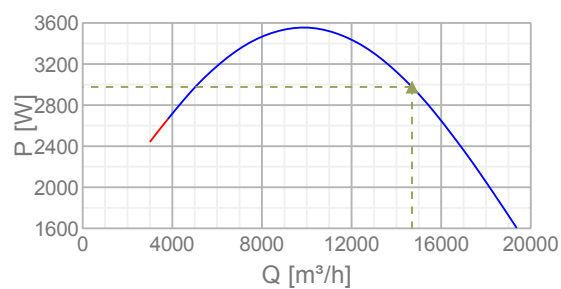
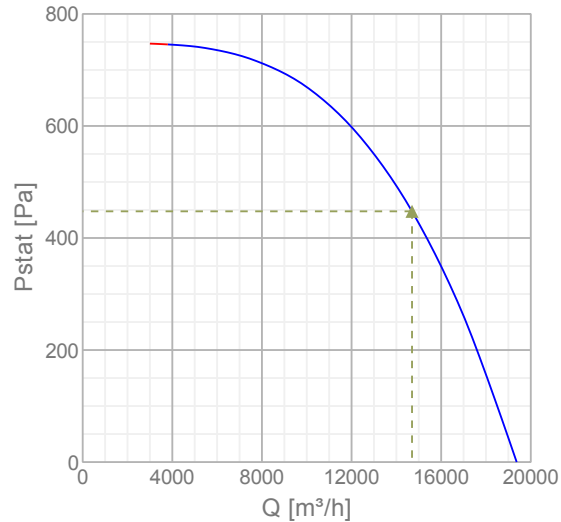


Technical parameters

Voltage	400	V
Motor circuit connection	Y	
Frequency	50	Hz
Phase	3	~
Input power (P1)	3377	W
Current	6,5	A
Starting current	41,6	A
Max. airflow	19370	m³/h
Fan impeller speed	966	r.p.m.
Temperature range, ambient and duct	-20-40	°C
Sound pressure level at 4 m (free field)	66	dB(A)
Sound pressure level at 10 m (free field)	60	dB(A)
Weight	260	kg
Insulation class	F	
Enclosure class, motor	IP55	
Motor protection	U-EK230E	
Resistance	3,1	Ω
Certificate	SIQ 14 ATEX 143X	
Explosion proof	II 2G c IIBT4	

Performance

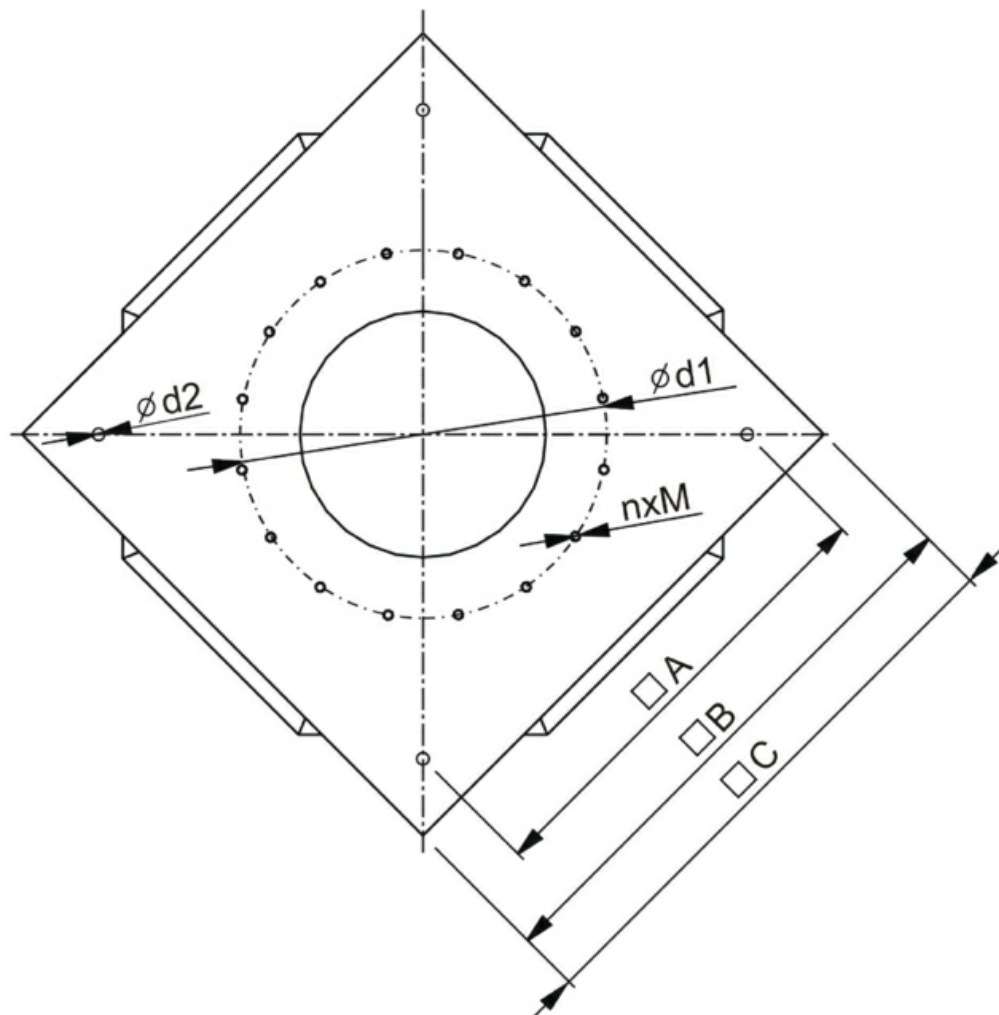
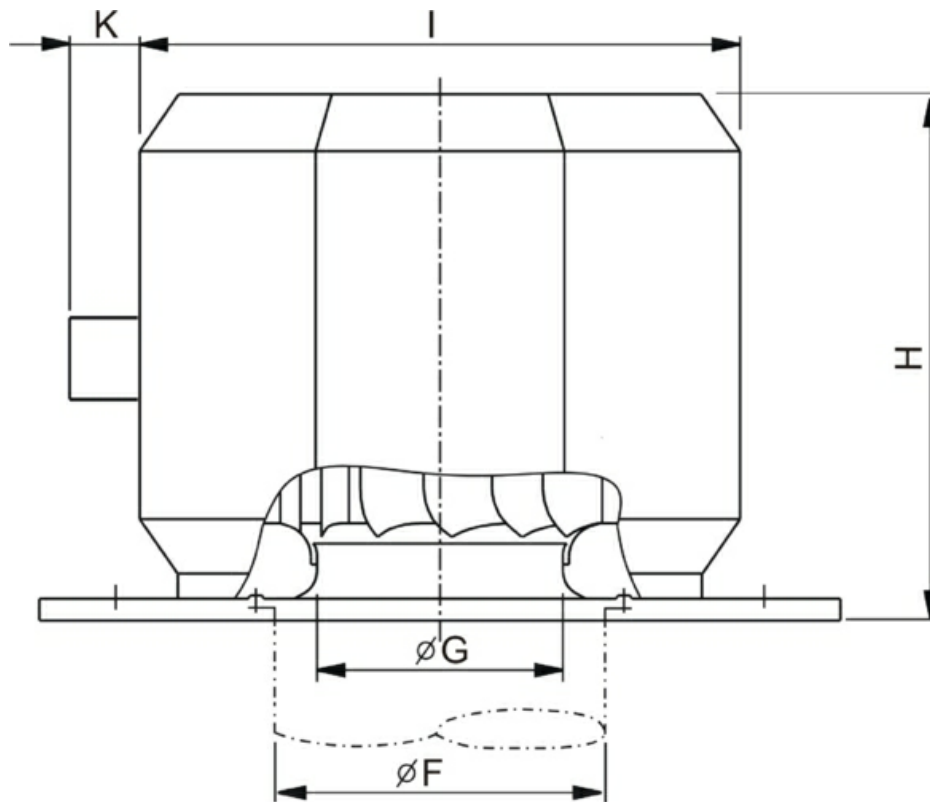
Diagrams



Max efficiency

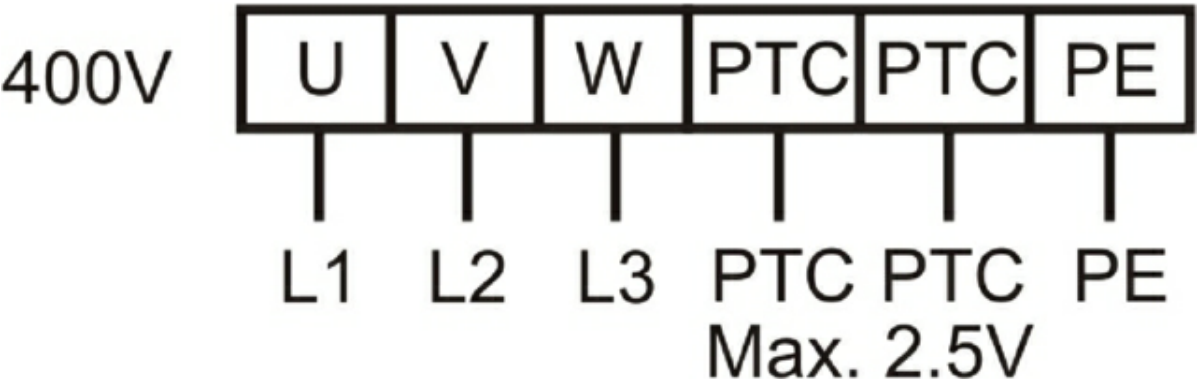
Hydraulic data	
▲ Working air flow	14699 m³/h
▲ Working static pressure	448 Pa
▲ Power	2977 W
Speed	969 r.p.m.
Current	6,1 A
SFP	0,729 kW/(m³/s)
Voltage	400 V

Dimensions



	□A	□B	□C	øF	øG	H	I	K	ød1	ød2	nxM
DVV-EX 800	1050	1251	1255	800	581	1105	1350	90	860	14	16xM8

Wiring



Acoustics

Mid-frequency band, Hz

800D6-K	Hz	Tot	63	125	250	500	1k	2k	4k	8k
LwA Inlet	dB(A)	84	60	71	73	80	75	74	70	57
LwA Surrounding	dB(A)	86	62	73	75	82	77	76	72	59

Measuring point: qv = 4,45 m³/s, Ps = 350 Pa

DVV-EX 800D6-XL ROOF FAN

Item no. 95427

Document type: **Product card**
 Document date: **2019-06-19**
 Generated by: **Systemair Online Catalogue**

Description

- Certified according to ATEX
- Speed-controllable via frequency converter
- Sucking side connection according EUROVENT

Roof fans DVV-Ex are designed to exhaust potentially explosive atmospheres (mixtures of air and inflammables such as gases and steam) from explosion hazardous areas. The DVV-Ex fans have impellers with backward-curved blades and IEC motor in explosion protection "flameproof enclosure" - Ex d. The casing is manufactured from seawater-resistant aluminium and the base frame from hot dip galvanised steel, with a copper inlet cone. Suitable for exhaust from zones 1 or 2, field of application II, for gases of groups A and B and temperature classes T1 to T4. The fans are classified to category 2G. Marking of the serial equipped fan (c = constructional protection): **II 2G c IIB T4**. Terminal box in explosion protection "increased safety" - II 2G Ex e IIC T5/T6 is mounted on the casing. Up to request additionally equipped and marked fans are available to achieve extended temperature respectively gas range: II 2G c IIB T3 (-20<Ta<55°C), II 2G c IIB+H2 T3 (-20<Ta<55°C), II 2Gc IIB T4 (-40<Ta<40°C). To enable protection of motor from overheating DVV-Ex fans have serial built-in thermistors (PTC) with external leads (connection to U-EK230E motor protection relay as accessorie possible). On request the fan can be factory fitted with sound attenuator HSDV (accessorie) on outlet (marking of the fan DVVI-Ex).

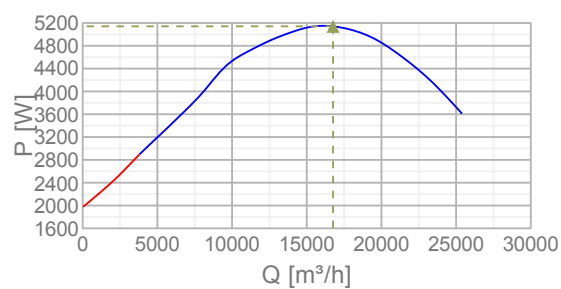
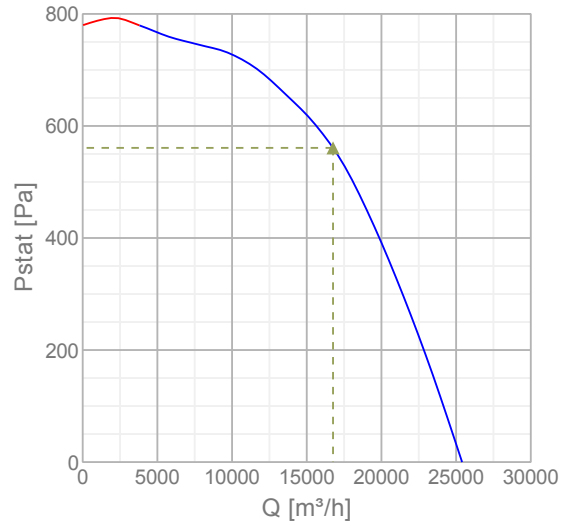


Technical parameters

Voltage	400	V
Motor circuit connection	D	
Frequency	50	Hz
Phase	3	~
Input power (P1)	5141	W
Current	9,9	A
Starting current	72	A
Max. airflow	25400	m³/h
Fan impeller speed	966	r.p.m.
Temperature range, ambient and duct	-20-40	°C
Sound pressure level at 4 m (free field)	71	dB(A)
Sound pressure level at 10 m (free field)	64	dB(A)
Weight	274	kg
Insulation class	F	
Enclosure class, motor	IP55	
Motor protection	U-EK230E	
Resistance	1,6	Ω
Certificate	SIQ 14 ATEX 143X	
Explosion proof	II 2G c IIBT4	

Performance

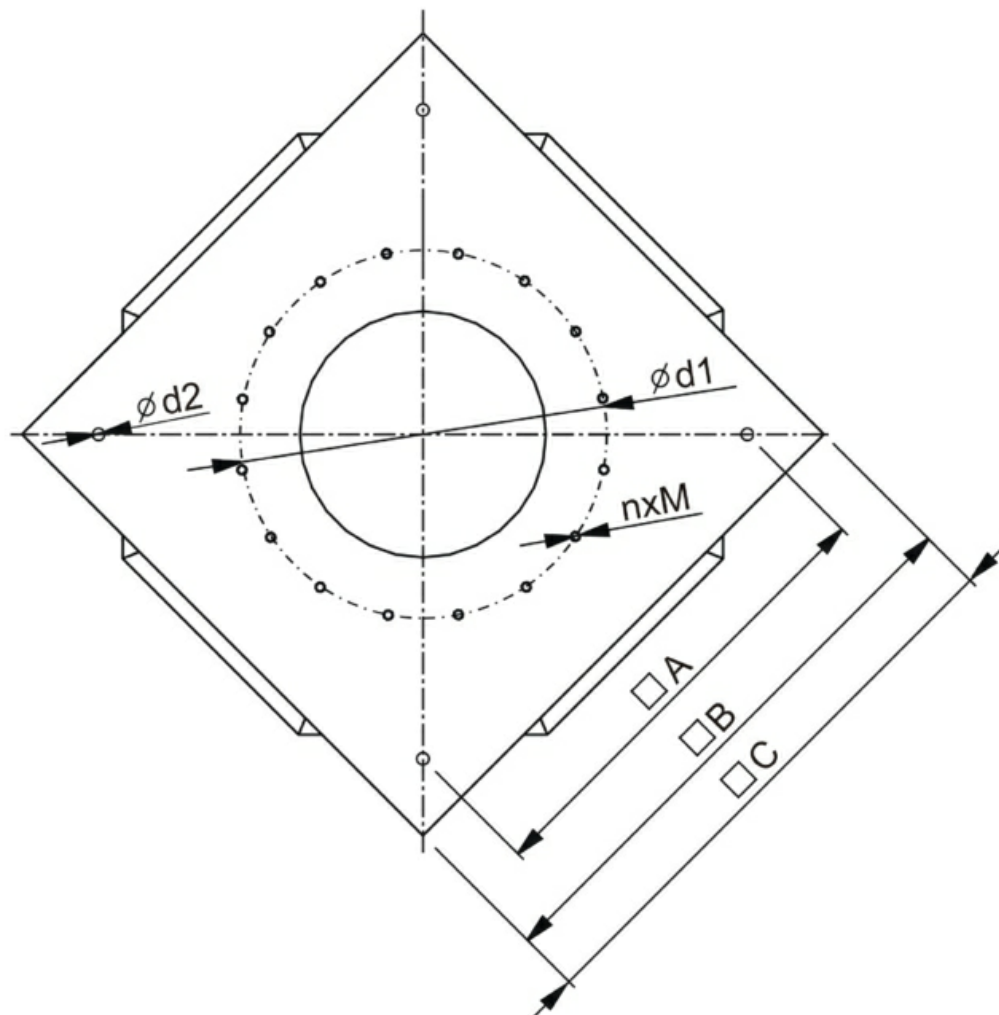
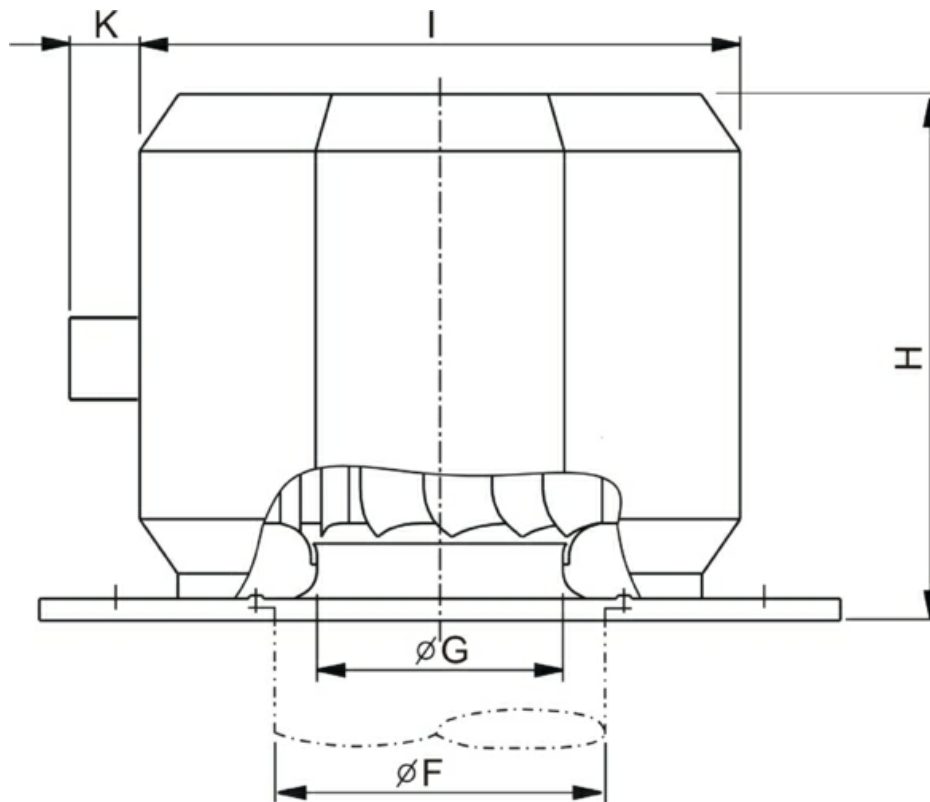
Diagrams



Max efficiency

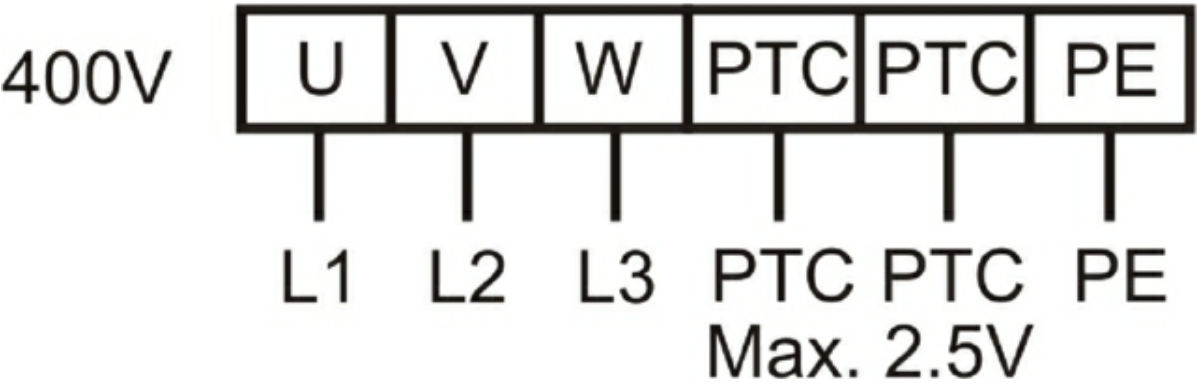
Hydraulic data	
▲ Working air flow	16760 m³/h
▲ Working static pressure	561 Pa
▲ Power	5141 W
Speed	966 r.p.m.
Current	9,86 A
SFP	1,1 kW/(m³/s)
Voltage	400 V

Dimensions



	□A	□B	□C	øF	øG	H	I	K	ød1	ød2	nxM
DVV-EX 800	1050	1251	1255	800	581	1105	1350	90	860	14	16xM8

Wiring



Acoustics

Mid-frequency band, Hz

800D6-P	Hz	Tot	63	125	250	500	1k	2k	4k	8k
LwA Inlet	dB(A)	91	67	78	80	87	82	81	77	64
LwA Surrounding	dB(A)	93	69	80	82	89	84	83	79	66

Measuring point: qv = 5,77 m³/s, Ps = 340 Pa

DVV-EX 1000D6-XM ROOF FAN

Item no. 95431

Document type: **Product card**
 Document date: **2019-06-19**
 Generated by: **Systemair Online Catalogue**

Description

- Certified according to ATEX
- Speed-controllable via frequency converter
- Sucking side connection according EUROVENT

Roof fans DVV-Ex are designed to exhaust potentially explosive atmospheres (mixtures of air and inflammables such as gases and steam) from explosion hazardous areas. The DVV-Ex fans have impellers with backward-curved blades and IEC motor in explosion protection "flameproof enclosure" - Ex d. The casing is manufactured from seawater-resistant aluminium and the base frame from hot dip galvanised steel, with a copper inlet cone. Suitable for exhaust from zones 1 or 2, field of application II, for gases of groups A and B and temperature classes T1 to T4. The fans are classified to category 2G. Marking of the serial equipped fan (c = constructional protection): **II 2G c IIB T4**. Terminal box in explosion protection "increased safety" - II 2G Ex e IIC T5/T6 is mounted on the casing. Up to request additionally equipped and marked fans are available to achieve extended temperature respectively gas range: II 2G c IIB T3 (-20<Ta<55°C), II 2G c IIB+H2 T3 (-20<Ta<55°C), II 2Gc IIB T4 (-40<Ta<40°C). To enable protection of motor from overheating DVV-Ex fans have serial built-in thermistors (PTC) with external leads (connection to U-EK230E motor protection relay as accessorie possible). On request the fan can be factory fitted with sound attenuator HSDV (accessorie) on outlet (marking of the fan DVVI-Ex).

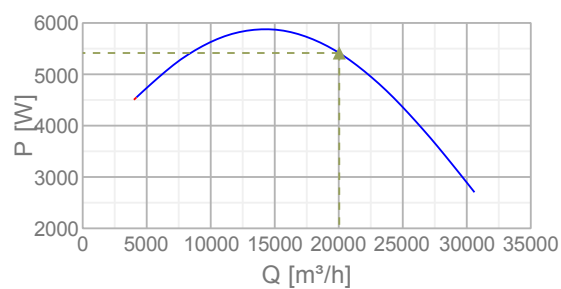
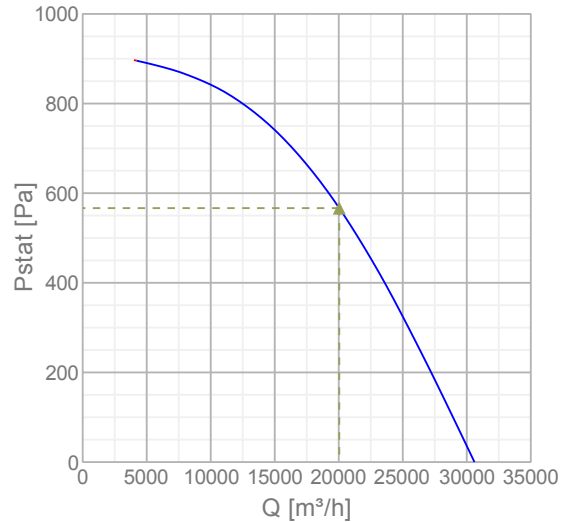


Technical parameters

Voltage	400	V
Motor circuit connection	D	
Frequency	50	Hz
Phase	3	~
Input power (P1)	5860	W
Current	12,1	A
Starting current	106	A
Max. airflow	30600	m³/h
Fan impeller speed	980	r.p.m.
Temperature range, ambient and duct	-20-40	°C
Sound pressure level at 4 m (free field)	73	dB(A)
Sound pressure level at 10 m (free field)	65	dB(A)
Weight	379	kg
Insulation class	F	
Enclosure class, motor	IP55	
Motor protection	U-EK230E	
Resistance	1	Ω
Certificate	SIQ 14 ATEX 143X	
Explosion proof	II 2G c IIBT4	

Performance

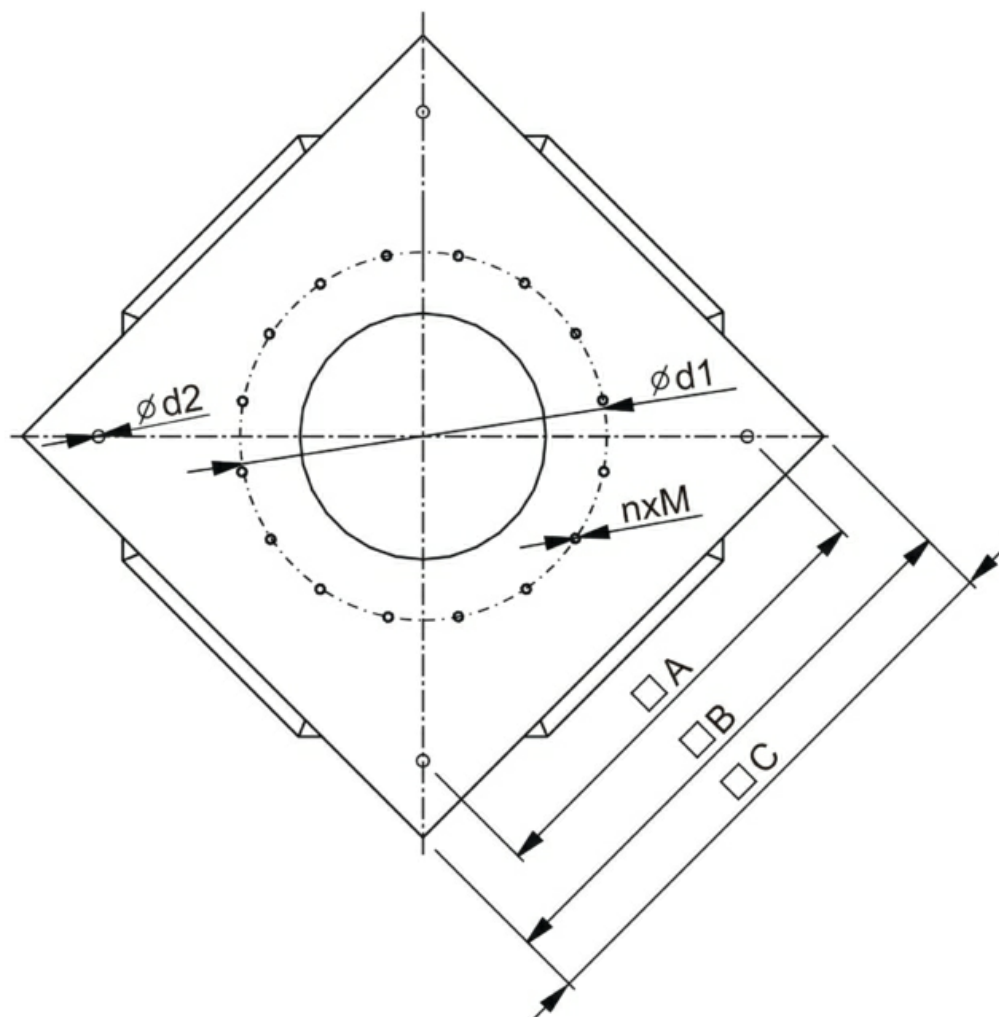
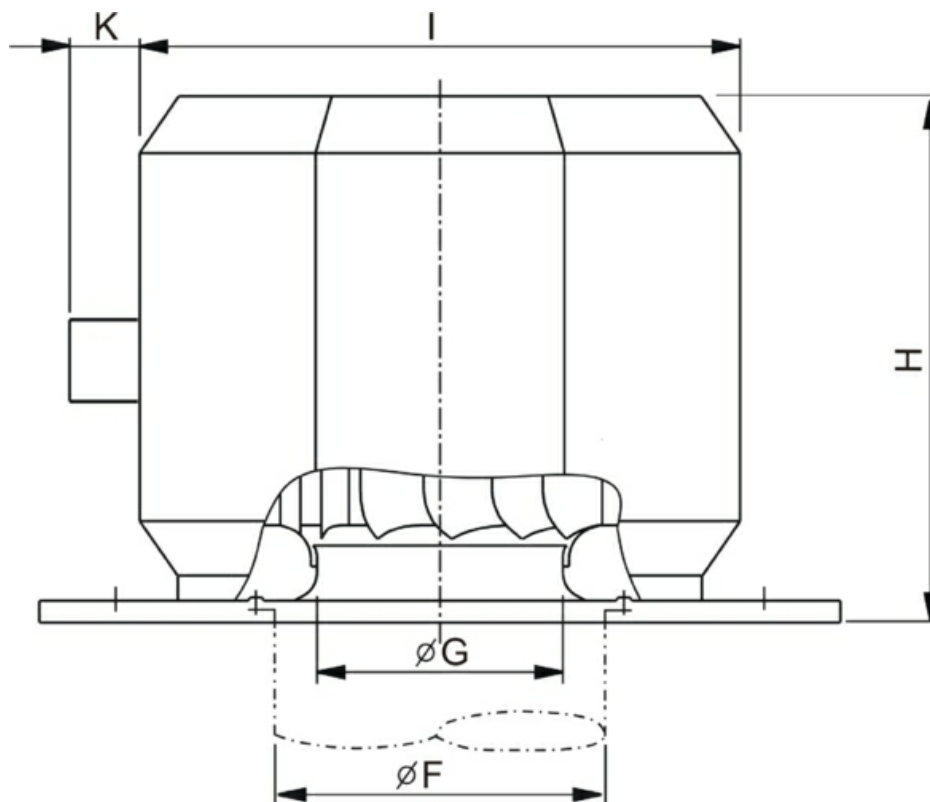
Diagrams



Max efficiency

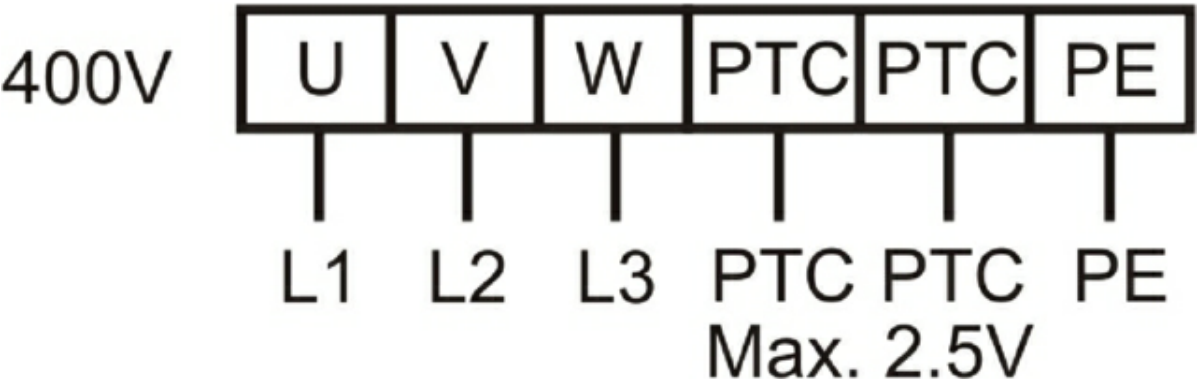
Hydraulic data	
▲ Working air flow	20040 m³/h
▲ Working static pressure	567 Pa
▲ Power	5415 W
Speed	980 r.p.m.
Current	11,8 A
SFP	0,973 kW/(m³/s)
Voltage	400 V

Dimensions



	□A	□B	□C	øF	øG	H	I	K	ød1	ød2	nxM
DVV-EX 1000	1050	1251	1255	800	675	1490	1500	90	860	14	16xM8

Wiring



Acoustics

Mid-frequency band, Hz

1000D6-XM	Hz	Tot	63	125	250	500	1k	2k	4k	8k
LwA Inlet	dB(A)	92	75	81	83	87	85	85	80	69
LwA Surrounding	dB(A)	95	78	84	86	90	88	88	83	72

Measuring point: qv = 4,8 m³/s, Ps = 670 Pa

DVV-EX 1000D8-XM ROOF FAN

Item no. 95432

Document type: **Product card**
 Document date: **2019-06-19**
 Generated by: **Systemair Online Catalogue**

Description

- Certified according to ATEX
- Speed-controllable via frequency converter
- Sucking side connection according EUROVENT

Roof fans DVV-Ex are designed to exhaust potentially explosive atmospheres (mixtures of air and inflammables such as gases and steam) from explosion hazardous areas. The DVV-Ex fans have impellers with backward-curved blades and IEC motor in explosion protection "flameproof enclosure" - Ex d. The casing is manufactured from seawater-resistant aluminium and the base frame from hot dip galvanised steel, with a copper inlet cone. Suitable for exhaust from zones 1 or 2, field of application II, for gases of groups A and B and temperature classes T1 to T4. The fans are classified to category 2G. Marking of the serial equipped fan (c = constructional protection): **II 2G c IIB T4**. Terminal box in explosion protection "increased safety" - II 2G Ex e IIC T5/T6 is mounted on the casing. Up to request additionally equipped and marked fans are available to achieve extended temperature respectively gas range: II 2G c IIB T3 (-20<Ta<55°C), II 2G c IIB+H2 T3 (-20<Ta<55°C), II 2Gc IIB T4 (-40<Ta<40°C). To enable protection of motor from overheating DVV-Ex fans have serial built-in thermistors (PTC) with external leads (connection to U-EK230E motor protection relay as accessorie possible). On request the fan can be factory fitted with sound attenuator HSDV (accessorie) on outlet (marking of the fan DVVI-Ex).

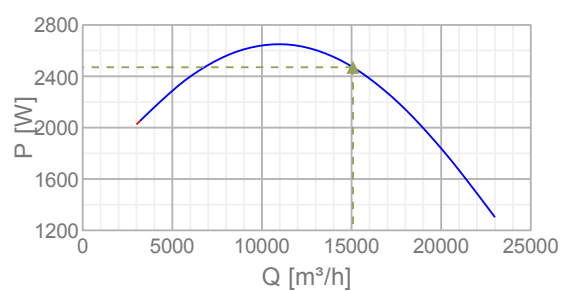
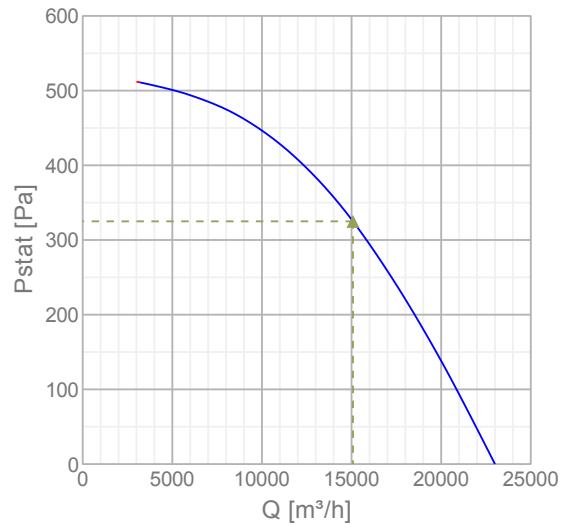


Technical parameters

Voltage	400	V
Motor circuit connection	D	
Frequency	50	Hz
Phase	3	~
Input power (P1)	2517	W
Current	6,7	A
Starting current	48	A
Max. airflow	23000	m³/h
Fan impeller speed	741	r.p.m.
Temperature range, ambient and duct	-20-40	°C
Sound pressure level at 4 m (free field)	65	dB(A)
Sound pressure level at 10 m (free field)	57	dB(A)
Weight	364	kg
Insulation class	F	
Enclosure class, motor	IP55	
Motor protection	U-EK230E	
Resistance	1,84	Ω
Certificate	SIQ 14 ATEX 143X	
Explosion proof	II 2G c IIBT4	

Performance

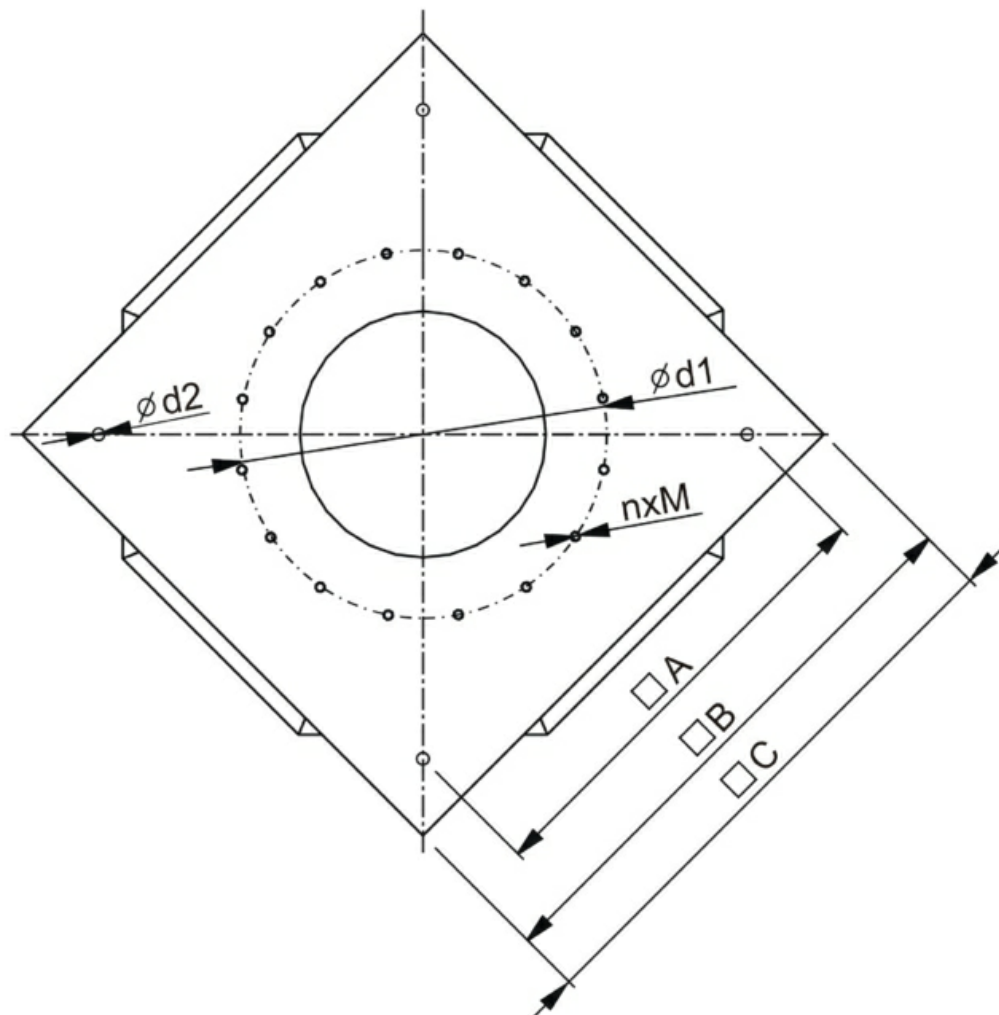
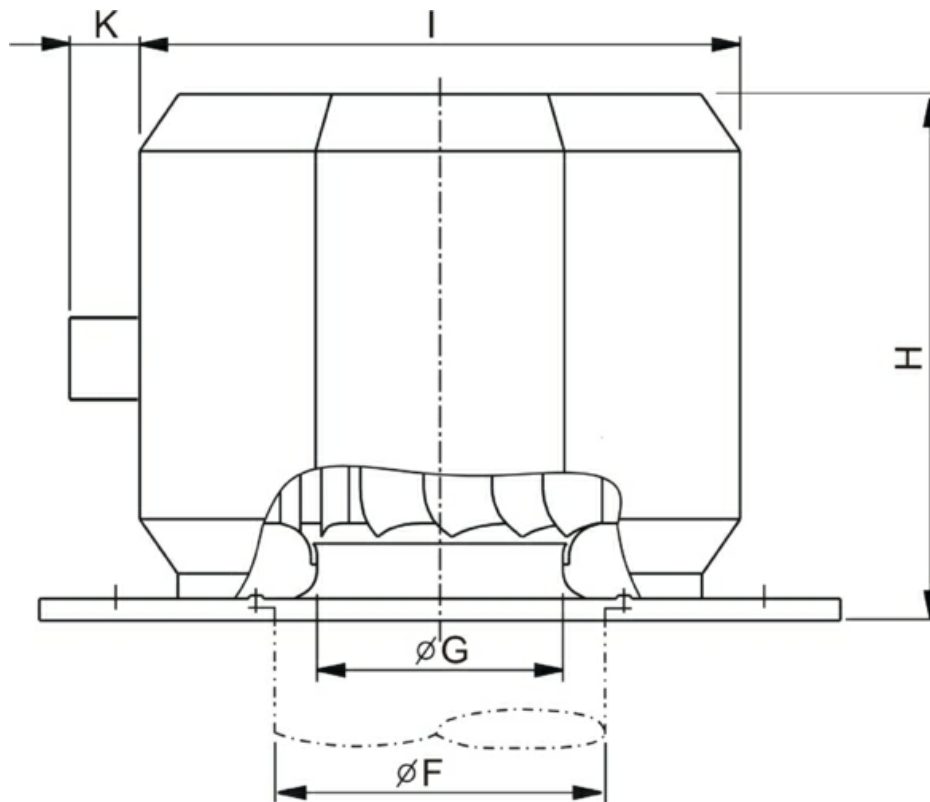
Diagrams



Max efficiency

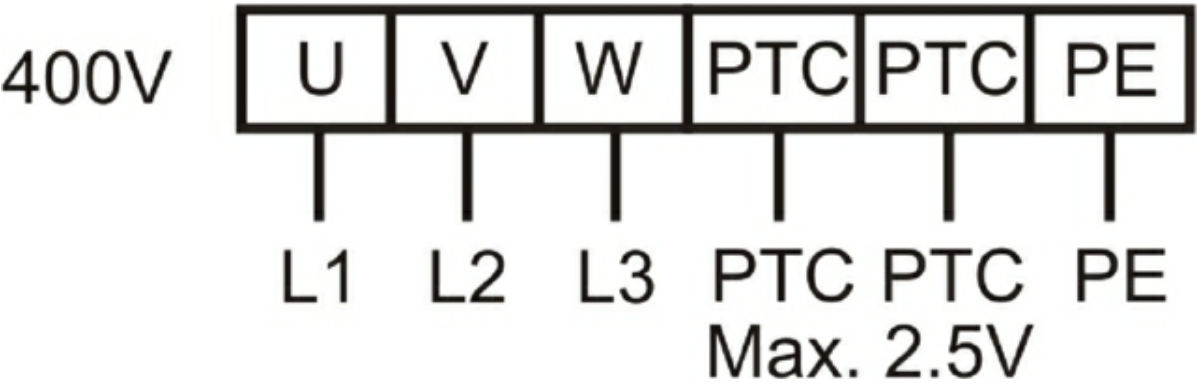
Hydraulic data	
▲ Working air flow	15080 m³/h
▲ Working static pressure	325 Pa
▲ Power	2470 W
Speed	741 r.p.m.
Current	6,65 A
SFP	0,59 kW/(m³/s)
Voltage	400 V

Dimensions



	□A	□B	□C	øF	øG	H	I	K	ød1	ød2	nxM
DVV-EX 1000	1050	1251	1255	800	675	1490	1500	90	860	14	16xM8

Wiring



Acoustics

Mid-frequency band, Hz

1000D8-XM	Hz	Tot	63	125	250	500	1k	2k	4k	8k
LwA Inlet	dB(A)	84	66	72	75	79	76	76	71	60
LwA Surrounding	dB(A)	85	67	73	76	80	77	77	72	61

Measuring point: qv = 3,1 m³/s, Ps = 425 Pa