

DVCI 225-P (1PH/230V)

Numéro prod. 93376

Document type: Carte produit

Document date: 2019-06-18

Generated by: Catalogue en ligne Systemair



Description

- Variation de la vitesse de 0 à 100 %
- Protection électronique du moteur intégrée
- Faible niveau sonore
- Sûr et sans entretien
- Économe en énergie

Les ventilateurs de toiture DVC-P sont entraînés par des moteurs EC à rotor extérieur, qui conjuguent rendement élevé et faible consommation. La tension d'alimentation peut aller de 200 à 277 volts en monophasé, et de 380 à 480 volts en triphasé. Les moteurs de la taille 355 à 630 sont montés sur plots antivibrations.

Leur électronique comprend un dispositif de protection moteur; aucun système de protection externe n'est nécessaire. Les DVC-P sont équipés avec de capteurs de pression intégrés, et leur électronique est programmée pour un fonctionnement à pression constante. Deux potentiomètres permettent de programmer 2 valeurs différentes (jour/nuit), et un contact supplémentaire est prévu pour le paramétrage externe.

Enveloppe en aluminium à l'épreuve de l'eau de mer et insonoré avec 50 mm laine minérale, châssis revêtu par poudrage. Turbines à réaction en polyamide PA 6 pour les tailles 190 et 315. De la taille 355 à 630, les turbines sont en aluminium résistant à l'eau de mer.

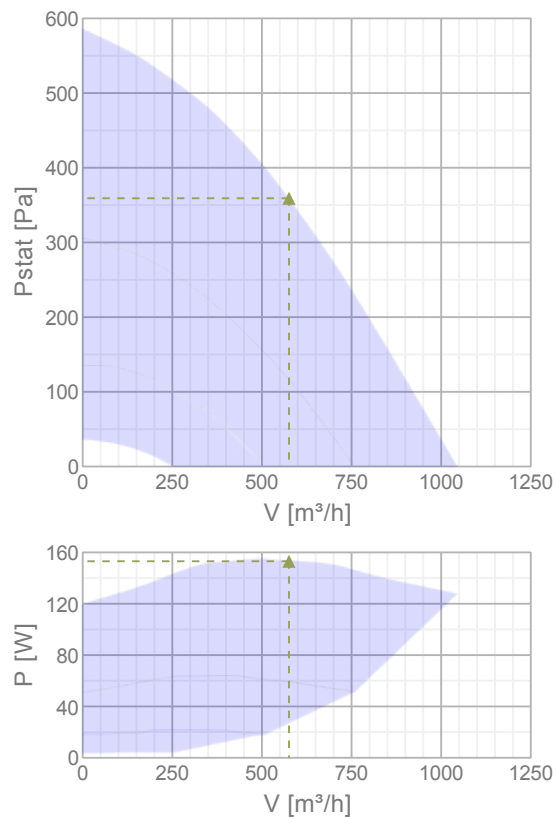


Données tech.

Nominal data		
Tension	230	V
Fréquence	50/60	Hz
Phase	1	~
Puissance installée (P1)	155	W
Courant	1,24	A
Débit max.	1048	m³/h
Vitesse de rotation	3104	1/min
Poids	9	kg
Temperature data		
Temp. max. de l'air	55	°C
Données acoustiques		
Niveau sonore à 4 m	52	dB(A)
Niveau sonore à 10 m	44	dB(A)
Protection / Classification		
Classe d'isolation	B	
Classe d'étanchéité, moteur	IP54	

Diagrammes

Diagrammes

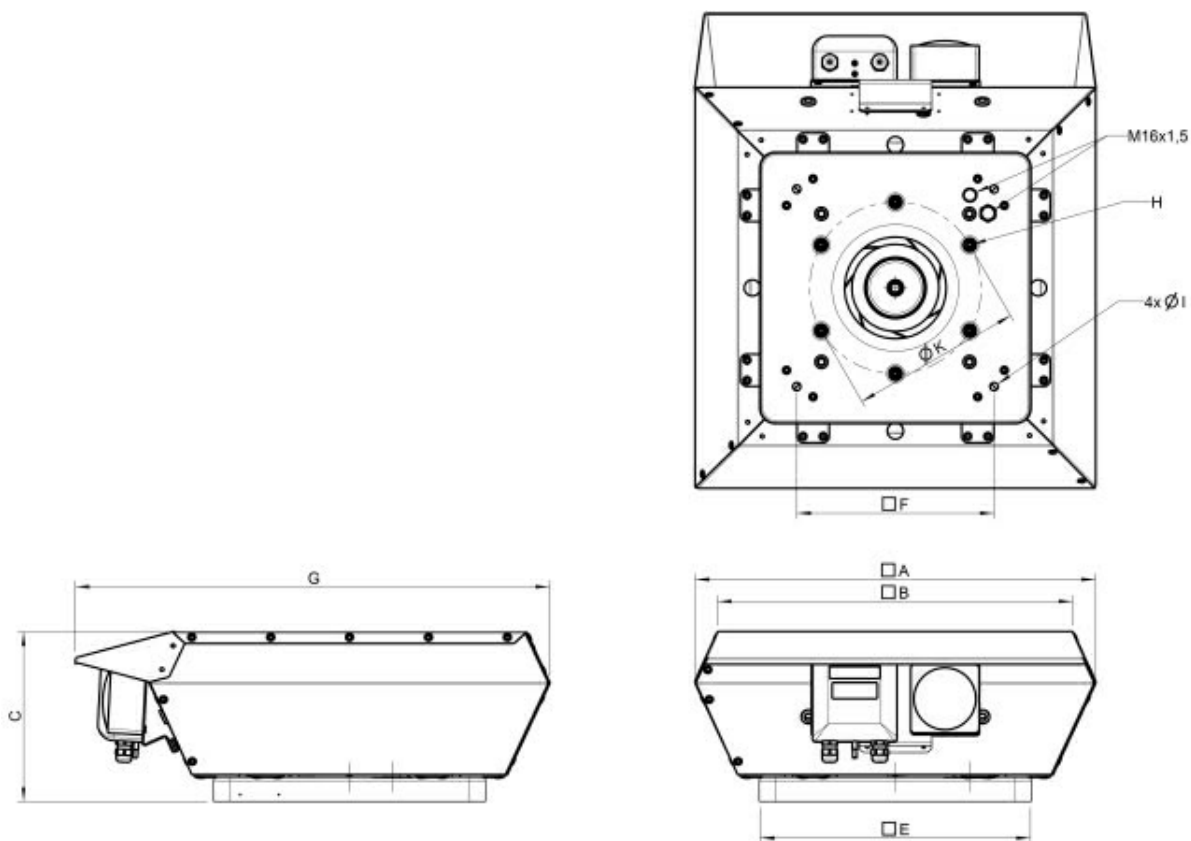


Efficacité maximum

Données aérauliques

▲ Débit au point de fonctionnement	575 m^3/h
▲ Working static pressure	359 Pa
▲ Puissance	153 W
Révolution	3109 1/min
Courant	1,23 A
SFP	0,958 $\text{kW}/\text{m}^3/\text{s}$
Tension	230 V

Dimensions



DVCI-P	$\square A$	$\square B$	$\square C$	$\square G$	$\square E$	$\square F$	$\square H$	ϕK	ϕI
225	498	441	210	589	336	245	6xM6	213	10(4x)

Cablage

 wiring_CAVVAV 1Ph Tacho_315284_[004].spl7].pdf (139,04kB)

Acoustique

Mid-frequency band, Hz

	Hz	Tot	63	125	250	500	1k	2k	4k	8k
LwA Inlet	dB(A)	76	42	55	62	70	70	69	68	59
LwA Surrounding	dB(A)	75	42	55	60	68	69	70	64	58

Measuring point: $q_v = 0,16 \text{ m}^3/\text{s}$, $P_s = 359 \text{ Pa}$

DVCI 315-P (1PH/230V)

Numéro prod. 93377

Document type: Carte produit
Document date: 2019-06-18
Generated by: Catalogue en ligne Systemair



Description

- 100 % speed controllable
- Integrated motor protection
- Low noise level
- Safe and maintenance free operation
- Energy-saving
- Integrated sensor-control module
- operation mode: Constant pressure (factory setting)
- Integrated LCD-display



The DVCI-P has Variable Air Volume (constant pressure) as standard. The system is completely pre-wired for easy operation and installation.

The DVCI-P roof fan is driven by EC- external rotor motors, so called energy saving motor with high efficiency. The input voltage can vary between 200 and 277V, for three phase units between 380 and 480V. The motor is suitable for 50Hz and 60Hz suspended on effective vibration dampers.

Motor protection is integrated in the electronics of the motor, no additional external motor protection device is needed. Casing from seawater-resistant aluminum, base frame from galvanised steel. Backward curved impeller is manufactured from polypropylen PP.

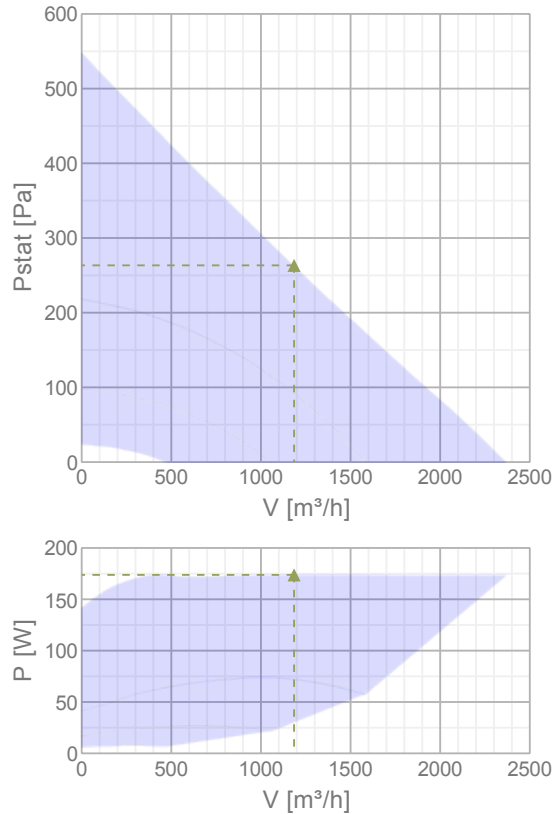
there is a possibility to have the fan with a constat air volume setup for size 315-450. This has to be mentioned with the order.

Données tech.

Nominal data		
Tension	230	V
Fréquence	50/60	Hz
Phase	1	~
Puissance installée (P1)	174	W
Courant	1,37	A
Débit max.	2369	m³/h
Vitesse de rotation	1568	1/min
Poids	20,8	kg
Temperature data		
Temp. max. de l'air	60	°C
Données acoustiques		
Niveau sonore à 4 m	39	dB(A)
Niveau sonore à 10 m	31	dB(A)
Protection / Classification		
Classe d'isolation	B	
Classe d'étanchéité, moteur	IP54	
ErP		
ErP ready	ErP 2016/ErP 2018	

Diagrammes

Diagrammes

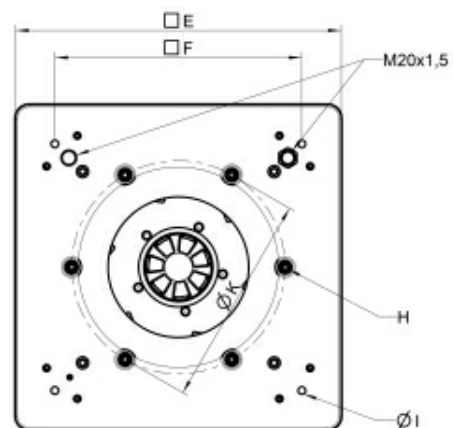
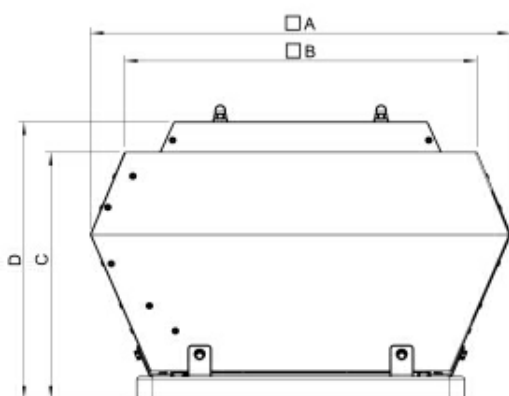


Efficacité maximum

Données aérauliques

▲ Débit au point de fonctionnement	1185 m³/h
▲ Working static pressure	263 Pa
▲ Puissance	174 W
Révolution	1575 1/min
Courant	1,37 A
SFP	0,528 kW/m³/s
Tension	230 V

Dimensions



DVCi-P	□A	□B	C	D	□E	□F	H	ØK	ØI
315	695	584	370	378	435	330	6xM8	285	10(4x)

Cablage

 wiring_CAVVAV 1Ph Tacho_315284_[004].spl7].pdf (139,04kB)

Acoustique

Mid-frequency band, Hz

	Hz	Tot	63	125	250	500	1k	2k	4k	8k
LwA Inlet	dB(A)	65	36	51	57	61	58	53	49	47
LwA Surrounding	dB(A)	62	35	51	54	58	57	50	41	39

Measuring point: qv = 0, 33 m³/s, Ps = 263 Pa

DVCI 355-P (1PH/230V)

Numéro prod. 93378

Document type: Carte produit
Document date: 2019-06-18
Generated by: Catalogue en ligne Systemair



Description

- 100 % speed controllable
- Integrated motor protection
- Low noise level
- Safe and maintenance free operation
- Energy-saving
- Integrated sensor-control module
- operation mode: Constant pressure (factory setting)
- Integrated LCD-display



The DVCI-P has Variable Air Volume (constant pressure) as standard. The system is completely pre-wired for easy operation and installation.

The DVCI-P roof fan is driven by EC- external rotor motors, so called energy saving motor with high efficiency. The input voltage can vary between 200 and 277V, for three phase units between 380 and 480V. The motor is suitable for 50Hz and 60Hz suspended on effective vibration dampers.

Motor protection is integrated in the electronics of the motor, no additional external motor protection device is needed. Casing from seawater-resistant aluminum, base frame from galvanised steel. Backward curved impeller is manufactured from polypropylen PP.

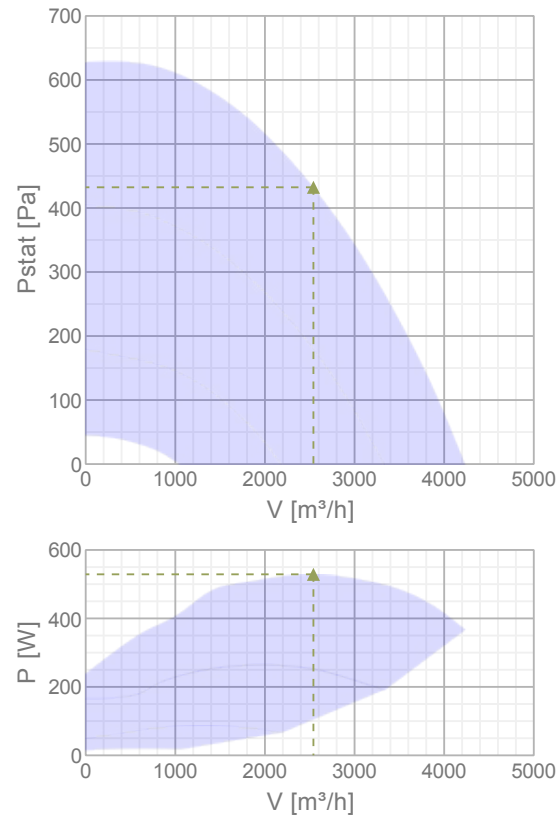
there is a possibility to have the fan with a constat air volume setup for size 315-450. This has to be mentioned with the order.

Données tech.

Nominal data		
Tension	230	V
Fréquence	50/60	Hz
Phase	1	~
Puissance installée (P1)	528	W
Courant	2,23	A
Débit max.	4234	m³/h
Vitesse de rotation	1804	1/min
Poids	38,5	kg
Temperature data		
Temp. max. de l'air	60	°C
Données acoustiques		
Niveau sonore à 4 m	51	dB(A)
Niveau sonore à 10 m	43	dB(A)
Protection / Classification		
Classe d'isolation	F	
Classe d'étanchéité, moteur	IP55	
ErP		
ErP ready	ErP 2016/ErP 2018	

Diagrammes

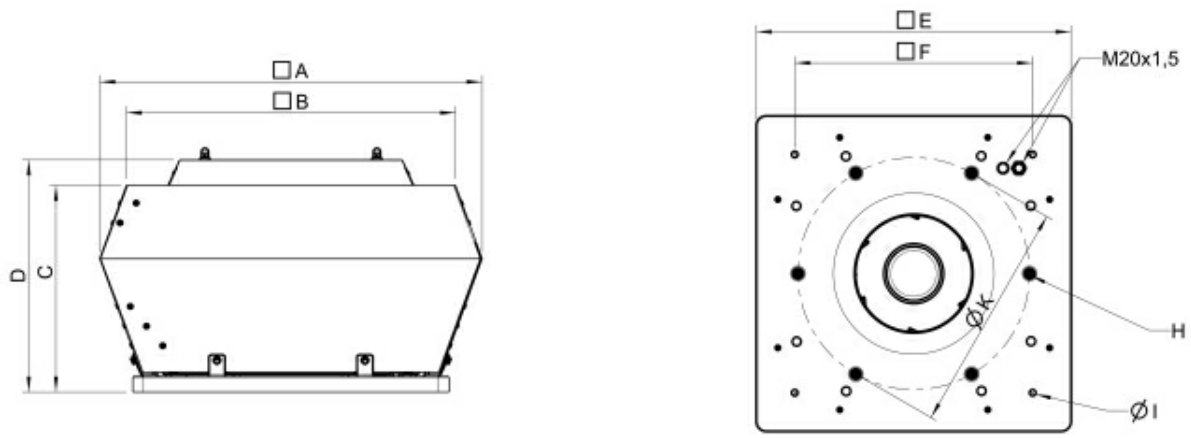
Diagrammes



Efficacité maximum

Données aérauliques										
▲ Débit au point de fonctionnement		2541 m³/h								
▲ Working static presssure		432 Pa								
▲ Puissance		529 W								
Révolution		1803 1/min								
Courant		2,23 A								
SFP		0,749 kW/m³/s								
Tension		230 V								
Niveau de puissance acoustique		63	125	250	500	1k	2k	4k	8k	Total
Entrée	dB(A)	42	49	55	58	59	54	52	47	64
Sortie	dB(A)	44	50	56	60	60	56	53	49	65

Dimensions



DVC1-P	□A	□B	C	D	□E	□F	H	ØK	ØI
355	877	745	440	439	595	450	6xM8	438	12(4x)

Cablage

 wiring_CAVVAV 1Ph_181217_[010]_313880.spl7].pdf (240,69kB)

DVCI 400-P (1PH/230V)

Numéro prod. 93379

Document type: Carte produit
Document date: 2019-06-18
Generated by: Catalogue en ligne Systemair



Description

- 100 % speed controllable
- Integrated motor protection
- Low noise level
- Safe and maintenance free operation
- Energy-saving
- Integrated sensor-control module
- operation mode: Constant pressure (factory setting)
- Integrated LCD-display



The DVCI-P has Variable Air Volume (constant pressure) as standard. The system is completely pre-wired for easy operation and installation.

The DVCI-P roof fan is driven by EC- external rotor motors, so called energy saving motor with high efficiency. The input voltage can vary between 200 and 277V, for three phase units between 380 and 480V. The motor is suitable for 50Hz and 60Hz suspended on effective vibration dampers.

Motor protection is integrated in the electronics of the motor, no additional external motor protection device is needed. Casing from seawater-resistant aluminum, base frame from galvanised steel. Backward curved impeller is manufactured from polypropylen PP.

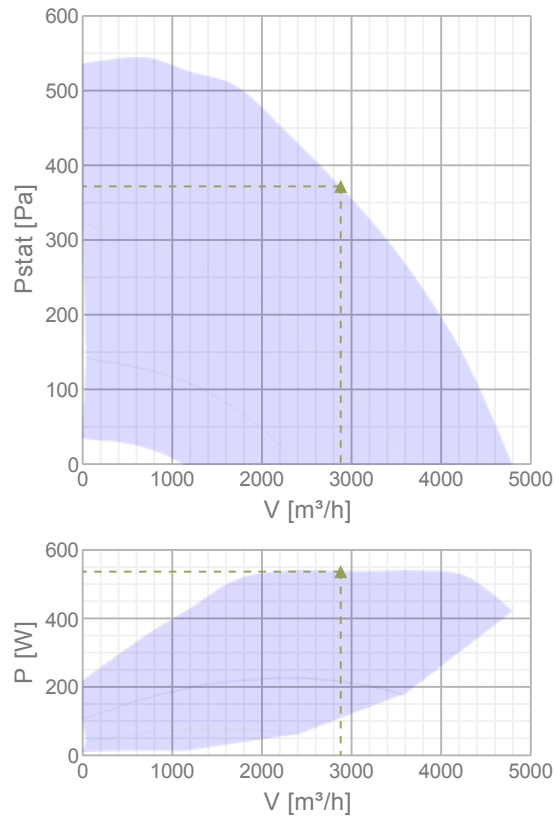
there is a possibility to have the fan with a constat air volume setup for size 315-450. This has to be mentioned with the order.

Données tech.

Nominal data		
Tension	230	V
Fréquence	50/60	Hz
Phase	1	~
Puissance installée (P1)	538	W
Courant	2,28	A
Débit max.	4799	m³/h
Vitesse de rotation	1500	1/min
Poids	33,2	kg
Temperature data		
Temp. max. de l'air	55	°C
Données acoustiques		
Niveau sonore à 4 m	41	dB(A)
Niveau sonore à 10 m	33	dB(A)
Protection / Classification		
Classe d'isolation	F	
Classe d'étanchéité, moteur	IP55	
ErP		
ErP ready	ErP 2016/ErP 2018	

Diagrammes

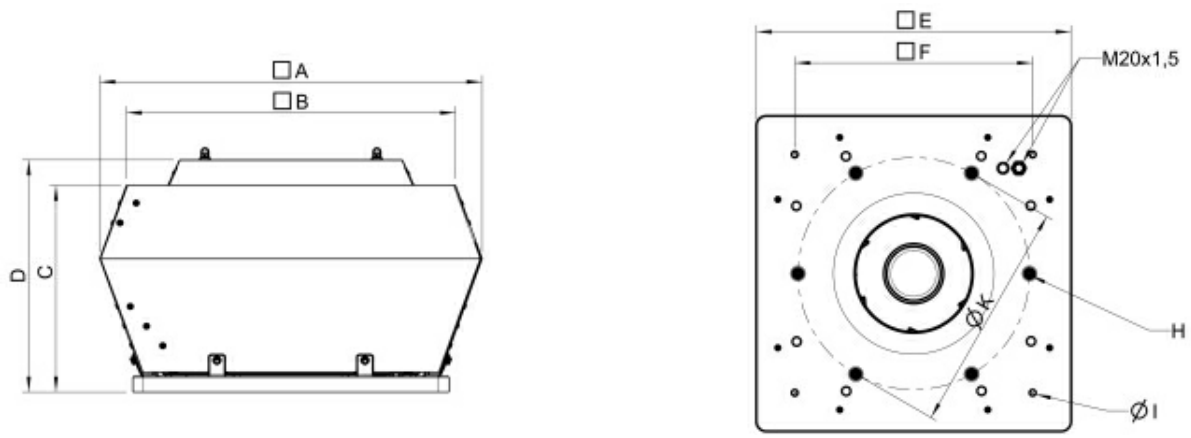
Diagrammes



Efficacité maximum

Données aérauliques										
▲ Débit au point de fonctionnement		2879 m³/h								
▲ Working static pressure		372 Pa								
▲ Puissance		537 W								
Révolution		1476 1/min								
Courant		2,28 A								
SFP		0,671 kW/m³/s								
Tension		230 V								
Niveau de puissance acoustique		63	125	250	500	1k	2k	4k	8k	Total
Entrée	dB(A)	47	55	59	61	60	53	49	50	66
Sortie	dB(A)	49	56	61	62	61	54	51	51	67

Dimensions



DVC4-P	□A	□B	C	D	□E	□F	H	ØK	ØI
400	877	744	440	454	595	450	6xM8	438	10(4x)

Cablage

 wiring_CAVVAV 1Ph_181217_[010]_313880.spl7].pdf (240,69kB)

DVCI 450-P (3PH/400V)

Numéro prod. 93381

Document type: Carte produit

Document date: 2019-06-18

Generated by: Catalogue en ligne Systemair



Description

- 100 % speed controllable
- Integrated motor protection
- Low noise level
- Safe and maintenance free operation
- Energy-saving
- Integrated sensor-control module
- operation mode: Constant pressure (factory setting)
- Integrated LCD-display



The DVCI-P has Variable Air Volume (constant pressure) as standard. The system is completely pre-wired for easy operation and installation.

The DVCI-P roof fan is driven by EC- external rotor motors, so called energy saving motor with high efficiency. The input voltage can vary between 200 and 277V, for three phase units between 380 and 480V. The motor is suitable for 50Hz and 60Hz suspended on effective vibration dampers.

Motor protection is integrated in the electronics of the motor, no additional external motor protection device is needed. Casing from seawater-resistant aluminum, base frame from galvanised steel. Backward curved impeller is manufactured from polypropylen PP.

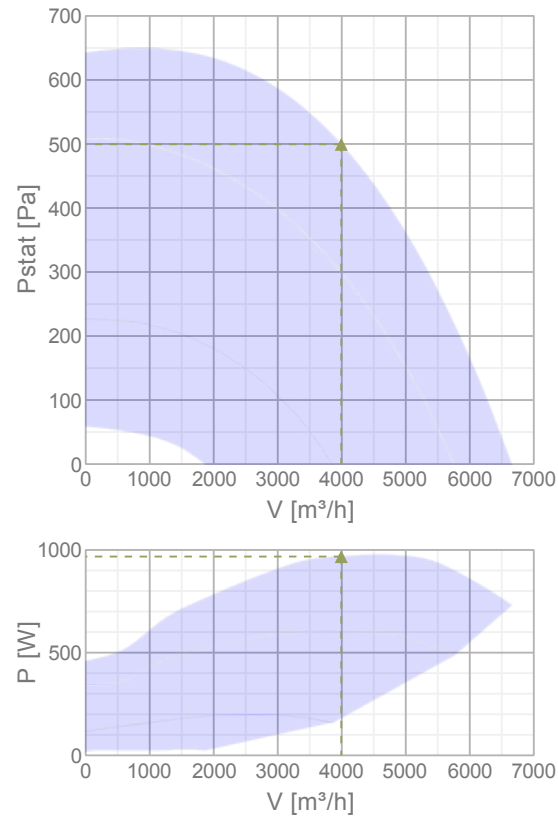
there is a possibility to have the fan with a constat air volume setup for size 315-450. This has to be mentioned with the order.

Données tech.

Nominal data		
Tension	400	V
Fréquence	50/60	Hz
Phase	3	~
Puissance installée (P1)	971	W
Courant	1,49	A
Débit max.	6653	m³/h
Vitesse de rotation	1559	1/min
Poids	50,2	kg
Temperature data		
Temp. max. de l'air	60	°C
Données acoustiques		
Niveau sonore à 4 m	48	dB(A)
Niveau sonore à 10 m	40	dB(A)
Protection / Classification		
Classe d'isolation	F	
Classe d'étanchéité, moteur	IP55	
ErP		
ErP ready	ErP 2016/ErP 2018	

Diagrammes

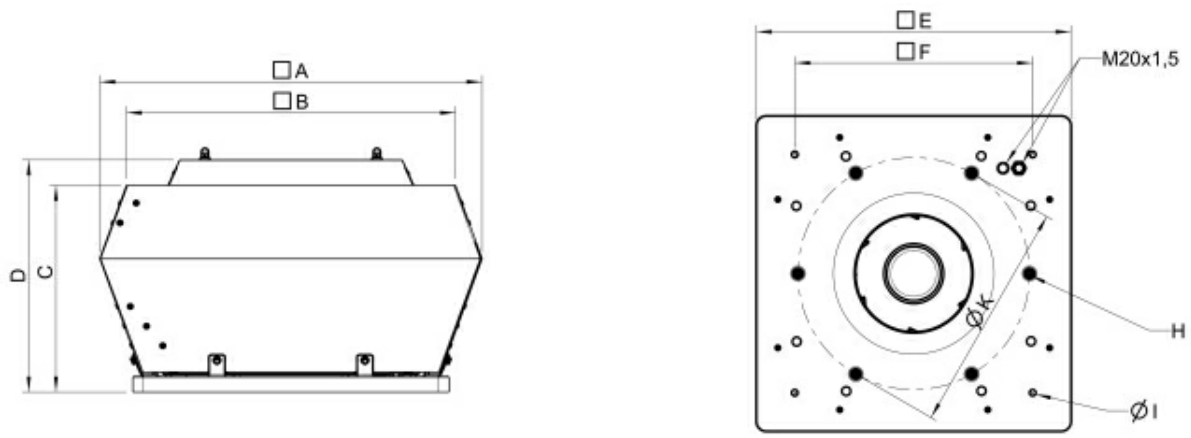
Diagrammes



Efficacité maximum

Données aérauliques										
▲ Débit au point de fonctionnement		3992 m³/h								
▲ Working static pressure		500 Pa								
▲ Puissance		968 W								
Révolution		1560 1/min								
Courant		1,48 A								
SFP		0,873 kW/m³/s								
Tension		400 V								
Niveau de puissance acoustique		63	125	250	500	1k	2k	4k	8k	Total
Entrée	dB(A)	51	59	63	63	67	66	61	53	72
Sortie	dB(A)	53	61	64	64	68	67	62	54	73

Dimensions



DVC1-P	□A	□B	C	D	□E	□F	H	øK	øI
450	970	825	479	516	665	535	6xM8	438	12(4x)

Cablage

 wiring_CAVVAV 3Ph_181217_[001]_156709.spl7].pdf (235,55kB)

DVCI 500-P (3PH/400V)

Item no. 93383

Document type: **Product card**
Document date: **2019-06-18**
Generated by: **Systemair Online Catalogue**



Description

- 100 % speed controllable
- Integrated motor protection
- Low noise level
- Safe and maintenance free operation
- Energy-saving
- Integrated sensor-control module
- operation mode: Constant pressure (factory setting)
- Integrated LCD-display



The DVCI-P has Variable Air Volume (constant pressure) as standard. The system is completely pre-wired for easy operation and installation.

The DVCI-P roof fan is driven by EC- external rotor motors, so called energy saving motor with high efficiency. The input voltage can vary between 200 and 277V, for three phase units between 380 and 480V. The motor is suitable for 50Hz and 60Hz suspended on effective vibration dampers.

Motor protection is integrated in the electronics of the motor, no additional external motor protection device is needed. Casing from seawater-resistant aluminum, base frame from galvanised steel. Backward curved impeller is manufactured from polypropylen PP.

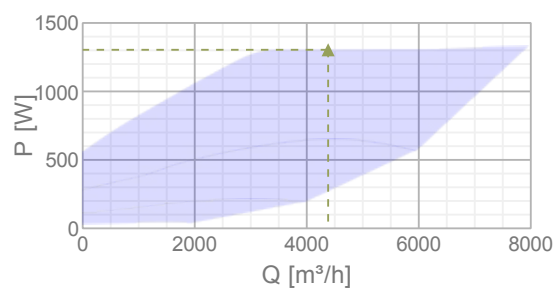
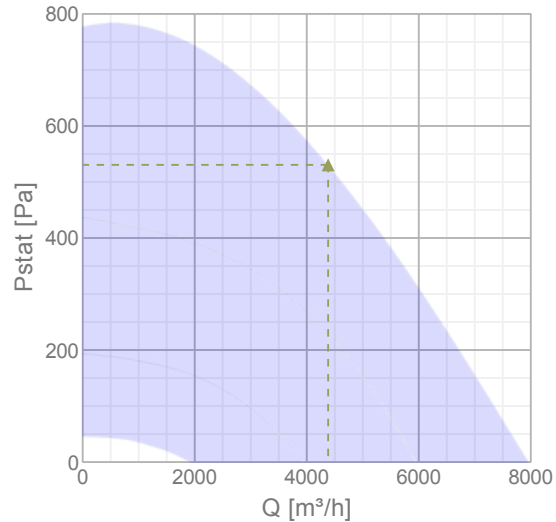
there is a possibility to have the fan with a constat air volume setup for size 315-450. This has to be mentioned with the order.

Technical parameters

Nominal data		
Voltage	400	V
Frequency	50/60	Hz
Phase	3	~
Input power (P1)	1303	W
Current	1,93	A
Max. airflow	7967	m³/h
Fan impeller speed	1356	r.p.m.
Weight	53,6	kg
Temperature data		
Max. temperature of transported air	55	°C
Sound data		
Sound pressure level at 4 m (free field)	50	dB(A)
Sound pressure level at 10 m (free field)	42	dB(A)
Protection / Classification		
Insulation class	F	
Enclosure class, motor	IP55	
ErP		
ErP ready	ErP 2016/ErP 2018	

Performance

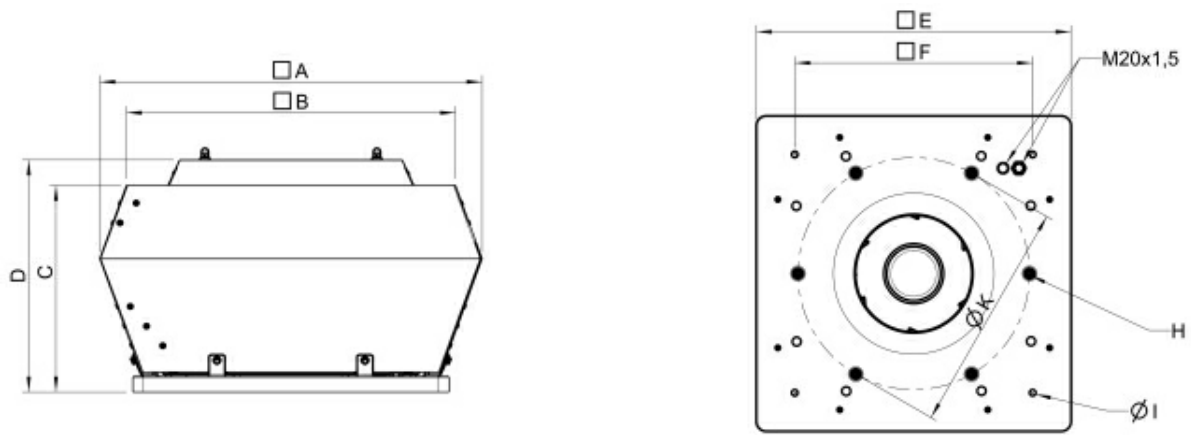
Diagrams



Max efficiency

Hydraulic data										
▲ Working air flow	4382 m^3/h									
▲ Working static pressure	531 Pa									
▲ Power	1304 W									
Speed	1341 r.p.m.									
Current	1,93 A									
SFP	1,07 $kW/(m^3/s)$									
Voltage	400 V									
Sound power level		63	125	250	500	1k	2k	4k	8k	Tot
Inlet	dB(A)	56	64	70	69	66	60	56	51	74
Outlet	dB(A)	58	65	72	70	67	62	57	52	76

Dimensions



DVCI-P	□A	□B	C	D	□E	□F	H	ØK	ØI
500	970	825	479	516	665	535	6xM8	438	12(4x)

Wiring

 wiring_CAVVAV 3Ph_181217_[001]_156709.spl7].pdf (235,55kB)

DVCI 560-P (3PH/400V)

Numéro prod. 93384

Document type: Carte produit
Document date: 2019-06-18
Generated by: Catalogue en ligne Systemair



Description

- 100 % speed controllable
- Integrated motor protection
- Low noise level
- Safe and maintenance free operation
- Energy-saving
- Integrated sensor-control module
- operation mode: Constant pressure (factory setting)
- Integrated LCD-display



The DVCI-P has Variable Air Volume (constant pressure) as standard. The system is completely pre-wired for easy operation and installation.

The DVCI-P roof fan is driven by EC- external rotor motors, so called energy saving motor with high efficiency. The input voltage can vary between 200 and 277V, for three phase units between 380 and 480V. The motor is suitable for 50Hz and 60Hz suspended on effective vibration dampers.

Motor protection is integrated in the electronics of the motor, no additional external motor protection device is needed. Casing from seawater-resistant aluminum, base frame from galvanised steel. Backward curved impeller is manufactured from polypropylen PP.

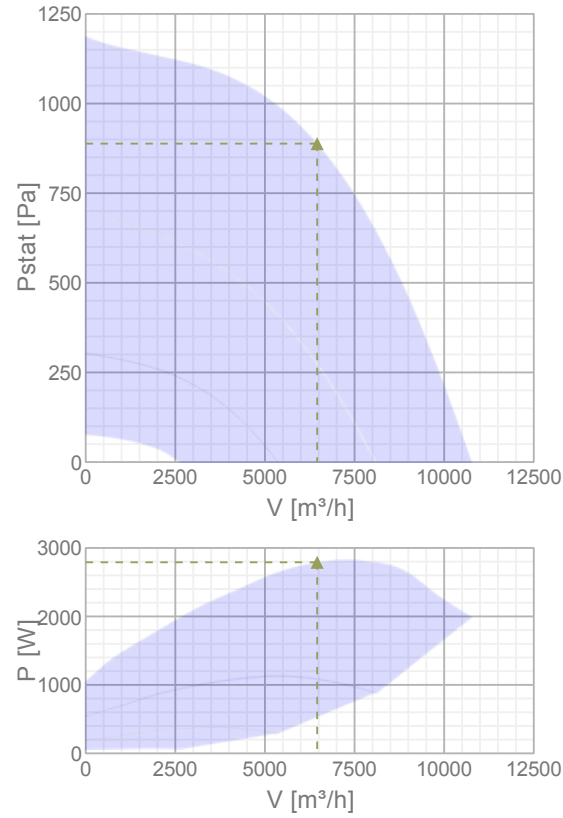
there is a possibility to have the fan with a constat air volume setup for size 315-450. This has to be mentioned with the order.

Données tech.

Nominal data		
Tension	400	V
Fréquence	50/60	Hz
Phase	3	~
Puissance installée (P1)	2819	W
Courant	4,11	A
Débit max.	10760	m³/h
Vitesse de rotation	1699	1/min
Poids	85	kg
Temperature data		
Temp. max. de l'air	60	°C
Données acoustiques		
Niveau sonore à 4 m	55	dB(A)
Niveau sonore à 10 m	47	dB(A)
Protection / Classification		
Classe d'isolation	F	
Classe d'étanchéité, moteur	IP55	
ErP		
ErP ready	ErP 2016/ErP 2018	

Diagrammes

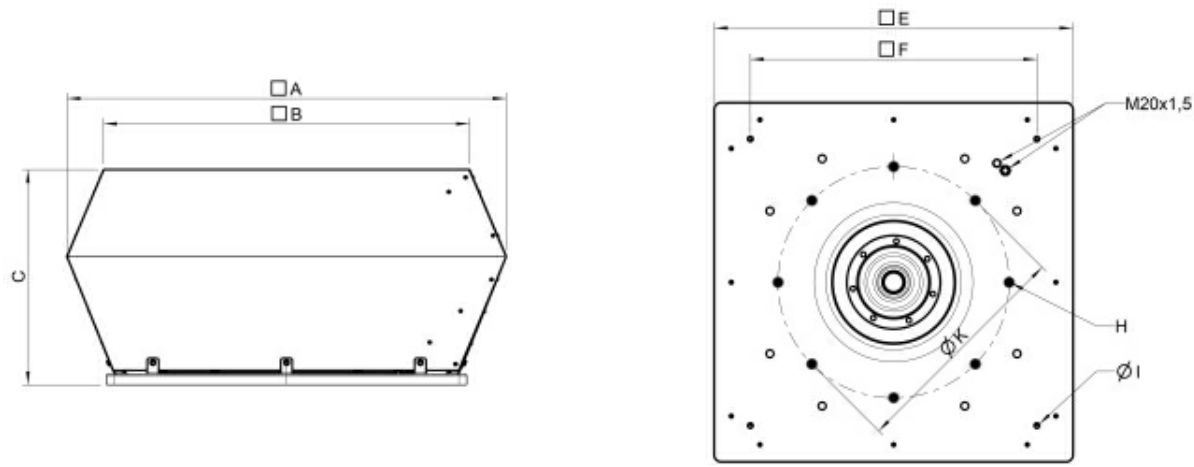
Diagrammes



Efficacité maximum

Données aérauliques										
▲ Débit au point de fonctionnement		6457 m³/h								
▲ Working static presssure		888 Pa								
▲ Puissance		2791 W								
Révolution		1709 1/min								
Courant		4,07 A								
SFP		1,56 kW/m³/s								
Tension		400 V								
Niveau de puissance acoustique		63	125	250	500	1k	2k	4k	8k	Total
Entrée	dB(A)	55	67	71	70	67	65	62	59	76
Sortie	dB(A)	56	69	73	72	69	67	64	61	78

Dimensions



*vertical panel covers controller protection plate

DVC1-P	□A	□B	C	□E	□F	H	øK	øI
560	1315	1130	600	939	750	8xM8	605	14(4x)

Cablage

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DVCI 630-P (3PH/400V)

Numéro prod. 93385

Document type: Carte produit
Document date: 2019-06-18
Generated by: Catalogue en ligne Systemair



Description

- 100 % speed controllable
- Integrated motor protection
- Low noise level
- Safe and maintenance free operation
- Energy-saving
- Integrated sensor-control module
- operation mode: Constant pressure (factory setting)
- Integrated LCD-display



The DVCI-P has Variable Air Volume (constant pressure) as standard. The system is completely pre-wired for easy operation and installation.

The DVCI-P roof fan is driven by EC- external rotor motors, so called energy saving motor with high efficiency. The input voltage can vary between 200 and 277V, for three phase units between 380 and 480V. The motor is suitable for 50Hz and 60Hz suspended on effective vibration dampers.

Motor protection is integrated in the electronics of the motor, no additional external motor protection device is needed. Casing from seawater-resistant aluminum, base frame from galvanised steel. Backward curved impeller is manufactured from polypropylen PP.

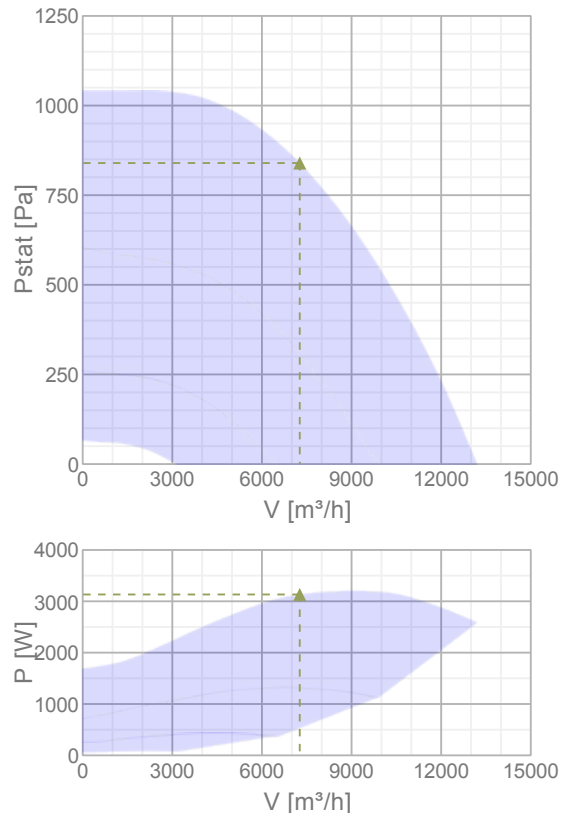
there is a possibility to have the fan with a constat air volume setup for size 315-450. This has to be mentioned with the order.

Données tech.

Nominal data		
Tension	400	V
Fréquence	50/60	Hz
Phase	3	~
Puissance installée (P1)	3152	W
Courant	4,62	A
Débit max.	13208	m³/h
Vitesse de rotation	1656	1/min
Poids	87,4	kg
Temperature data		
Temp. max. de l'air	55	°C
Données acoustiques		
Niveau sonore à 4 m	57	dB(A)
Niveau sonore à 10 m	49	dB(A)
Protection / Classification		
Classe d'isolation	F	
Classe d'étanchéité, moteur	IP55	
ErP		
ErP ready	ErP 2016/ErP 2018	

Diagrammes

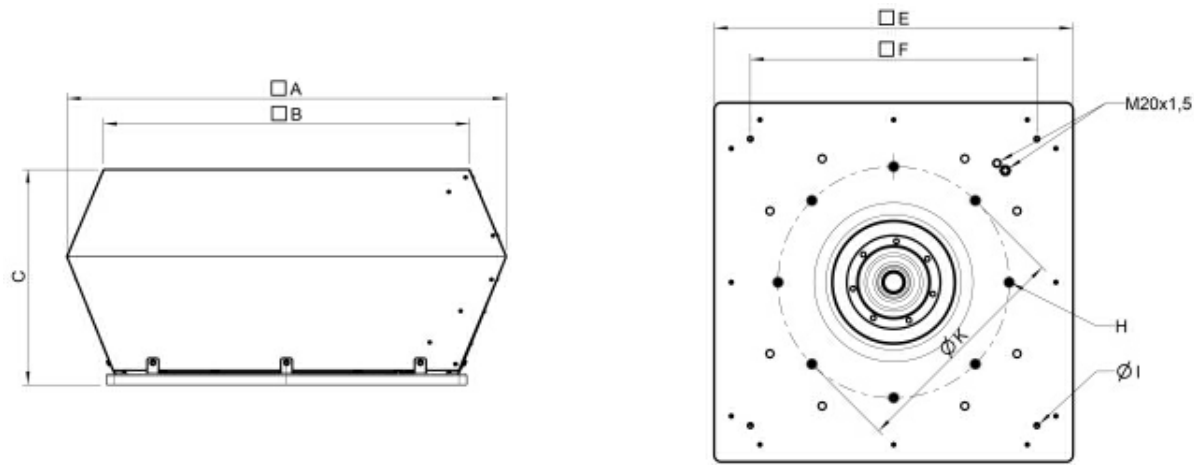
Diagrammes



Efficacité maximum

Données aérauliques										
▲ Débit au point de fonctionnement		7265 m^3/h								
▲ Working static pressure		840 Pa								
▲ Puissance		3133 W								
Révolution		1657 1/min								
Courant		4,59 A								
SFP		1,55 $\text{kW}/\text{m}^3/\text{s}$								
Tension		400 V								
Niveau de puissance acoustique		63	125	250	500	1k	2k	4k	8k	Total
Entrée	dB(A)	53	71	71	69	69	68	66	60	77
Sortie	dB(A)	55	72	73	71	70	69	67	62	79

Dimensions



*vertical panel covers controller protection plate

DVC1-P	□A	□B	C	□E	□F	H	∅K	∅I
630	1315	1130	600	939	750	8xM8	605	14(4x)

Cablage

 [wiring_CAVVAV 3PhPCA_181217_\[008\]_313883.pdf](#) (285,27kB)