



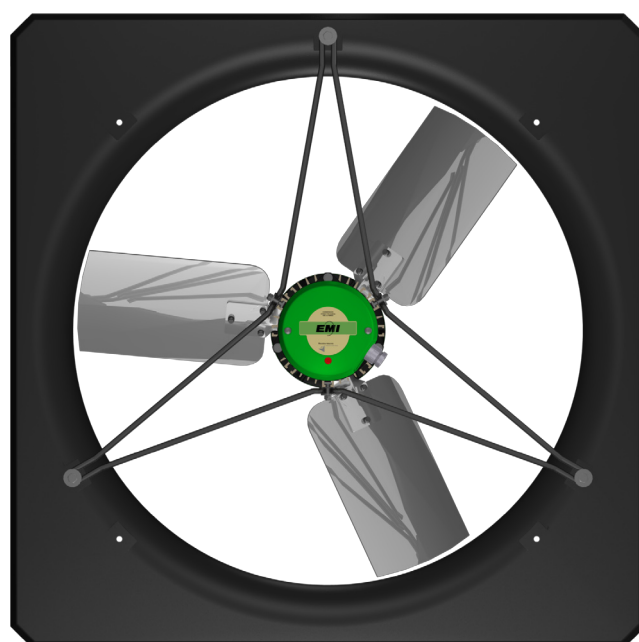
**Vostermans**  
Ventilation



*EMI Axial Flow Fans*

*Catalogue 2009*

*standard series 50 Hz*



# **Vostermans** Ventilation



## **Vostermans Ventilation B.V.**

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### Disclaimer

#### NL

Wijzigingen voorbehouden. Druk- en zetfouten voorbehouden.

#### EN

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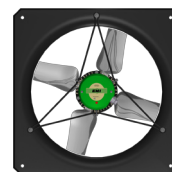


# Fan features and design

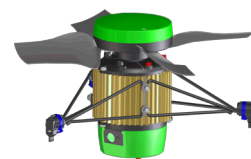
## WLV and DLV series

The EMI WLV and DLV range consists of axial fans from Ø 30—92 cm.

The standard range fans are available with a wall frame, or as a kit with mounting brackets to mount the fan in a chimney, tube or duct.



Panel fan



Tube fan

## EMI Fan characteristics

### Electric Motors:

- aluminum housing (extrusion or die-cast)
- heat class F insulation
- deep groove ball bearings with purpose-developed grease (maintenance-free)
- IP55 protection rating
- single phase motors fitted with built-in thermal overload protection

### Fan supports:

- galvanized steel wire
- powder coat finish

### Impellers:

- Aluminum central hub
- Stainless steel impeller blades

### Wire guards:

- galvanized steel
- powder coated finish

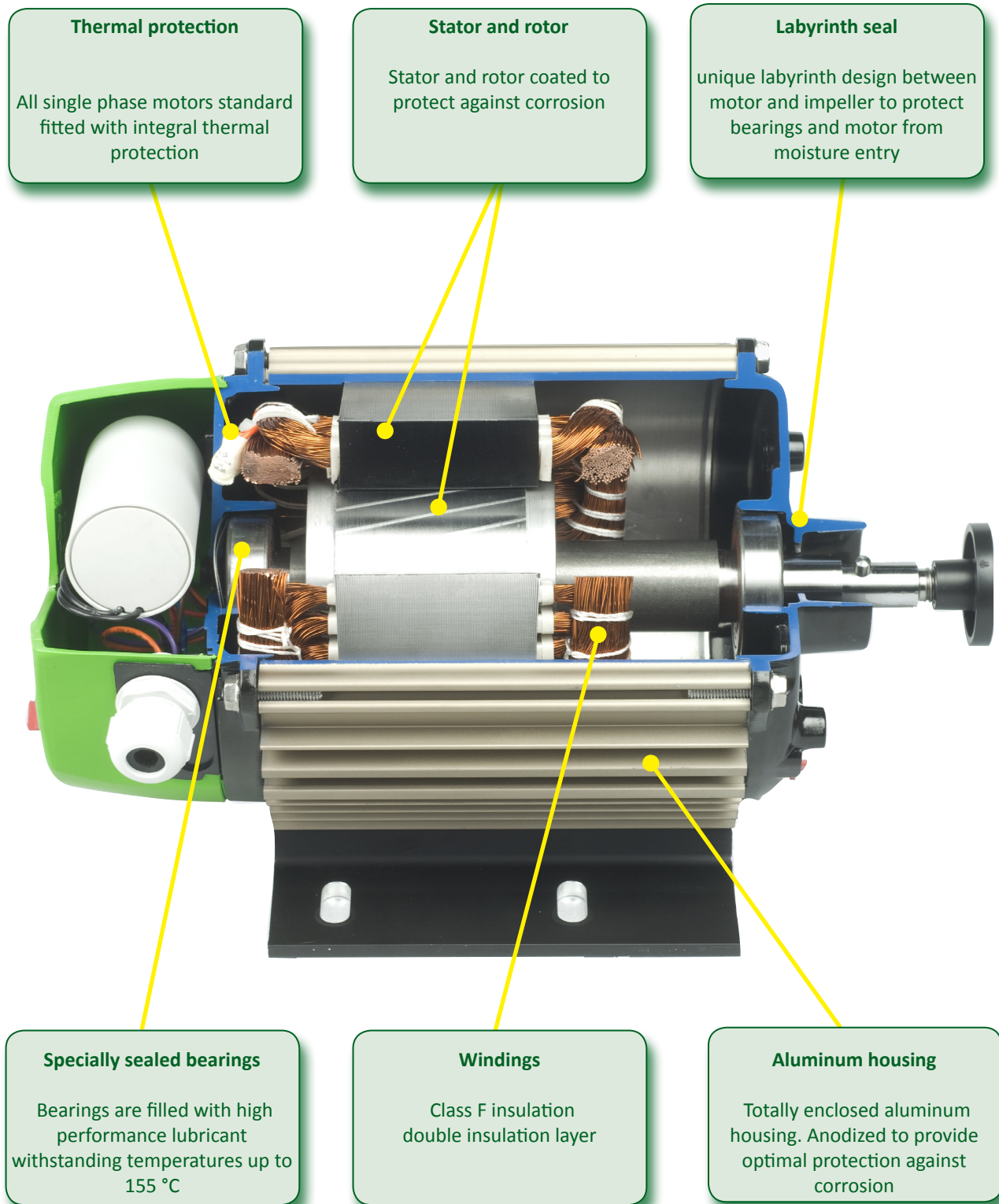
### Fasteners:

- All fasteners used are stainless steel

### Fan frames:

- Polypropylene colored black
- or
- Steel, powder coated black

## Electric motors





# Fan selection

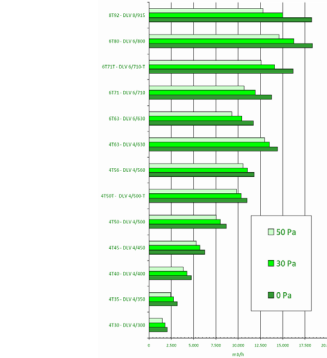
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How to select the needed fan?

Quickly select the desired fan based on m<sup>3</sup>/h versus Pa using the Quick Select graphs

or

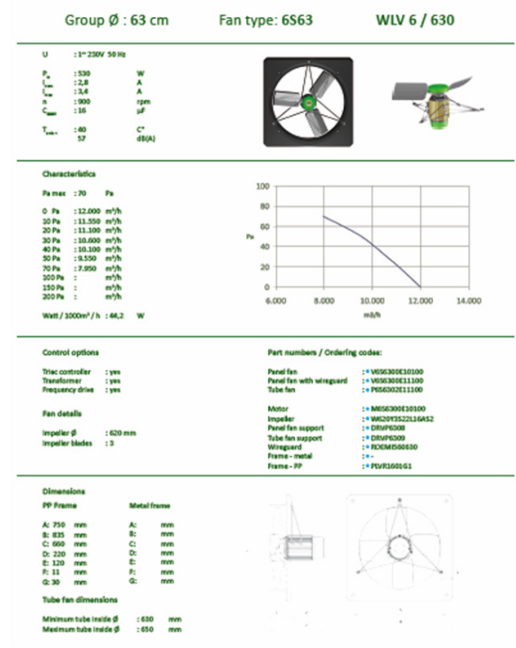
Select the desired fan from the main overview of the fan technical data.



EMI Technical data 1" 230V 50Hz										EMI Fan capacities 1" 230V 50Hz (m³/h)									
Model	Impeller Ø	Impeller blades	Impeller material	Impeller shape	Impeller speed	Impeller diameter	Impeller thickness	Impeller width	Impeller height	Model	Q 0 Pa	Q 30 Pa	Q 50 Pa	Q 70 Pa	Q 100 Pa	Q 150 Pa	Q 200 Pa	Q 300 Pa	Q 400 Pa
EMI 1000	100	5	Al	1	1400	100	10	10	10	EMI 1000	12000	11000	10000	9000	8000	7000	6000	5000	4000
EMI 1000	100	5	Al	1	1400	100	10	10	10	EMI 1000	11000	10000	9000	8000	7000	6000	5000	4000	3000
EMI 1000	100	5	Al	1	1400	100	10	10	10	EMI 1000	10000	9000	8000	7000	6000	5000	4000	3000	2000
EMI 1000	100	5	Al	1	1400	100	10	10	10	EMI 1000	9000	8000	7000	6000	5000	4000	3000	2000	1000
EMI 1000	100	5	Al	1	1400	100	10	10	10	EMI 1000	8000	7000	6000	5000	4000	3000	2000	1000	500
EMI 1000	100	5	Al	1	1400	100	10	10	10	EMI 1000	7000	6000	5000	4000	3000	2000	1000	500	0
EMI 1000	100	5	Al	1	1400	100	10	10	10	EMI 1000	6000	5000	4000	3000	2000	1000	500	0	0
EMI 1000	100	5	Al	1	1400	100	10	10	10	EMI 1000	5000	4000	3000	2000	1000	500	0	0	0
EMI 1000	100	5	Al	1	1400	100	10	10	10	EMI 1000	4000	3000	2000	1000	500	0	0	0	0
EMI 1000	100	5	Al	1	1400	100	10	10	10	EMI 1000	3000	2000	1000	500	0	0	0	0	0
EMI 1000	100	5	Al	1	1400	100	10	10	10	EMI 1000	2000	1000	500	0	0	0	0	0	0
EMI 1000	100	5	Al	1	1400	100	10	10	10	EMI 1000	1000	500	0	0	0	0	0	0	0
EMI 1000	100	5	Al	1	1400	100	10	10	10	EMI 1000	0	0	0	0	0	0	0	0	0

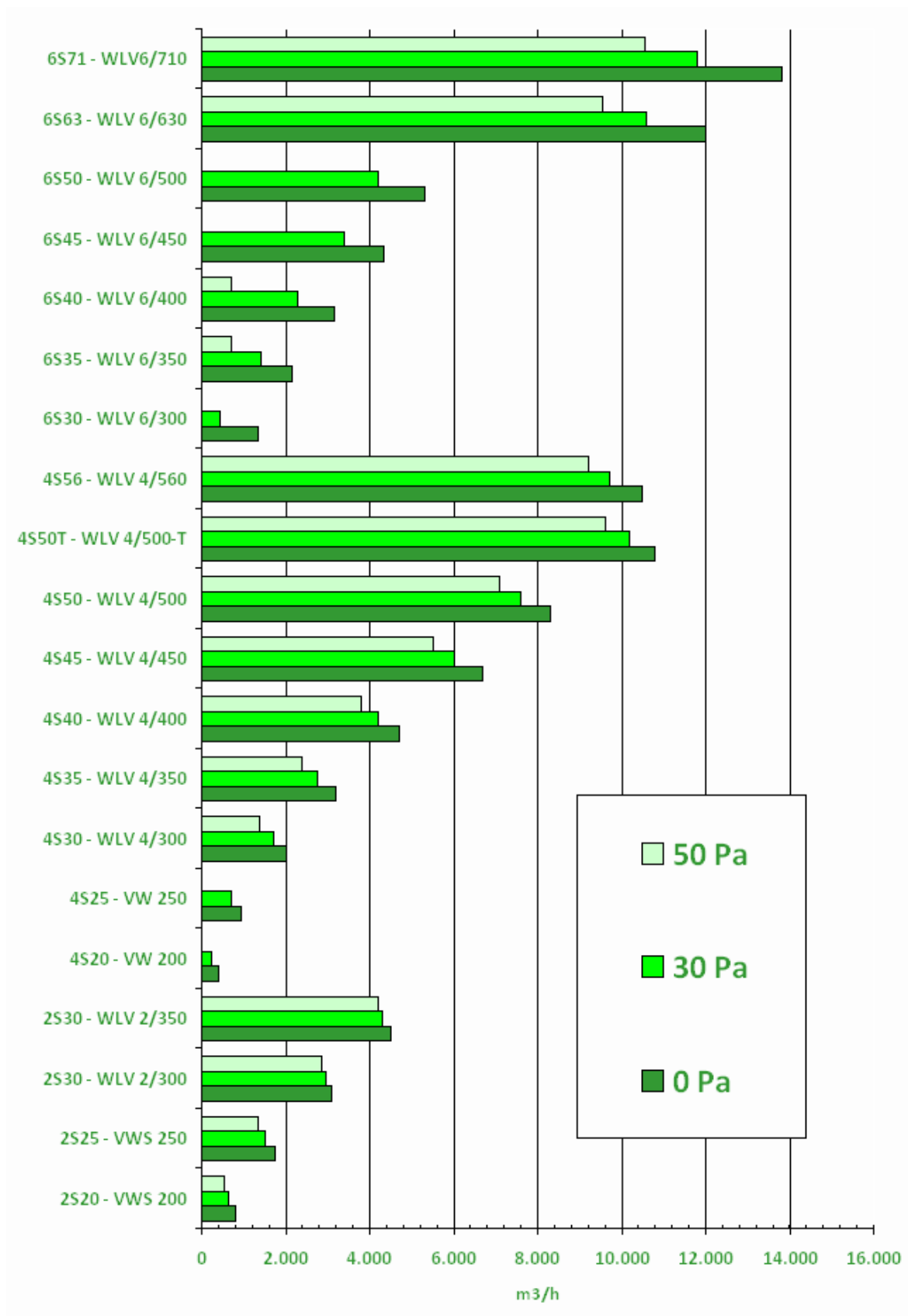
2

Then look up all the fan details in the datasheets



## Quick select

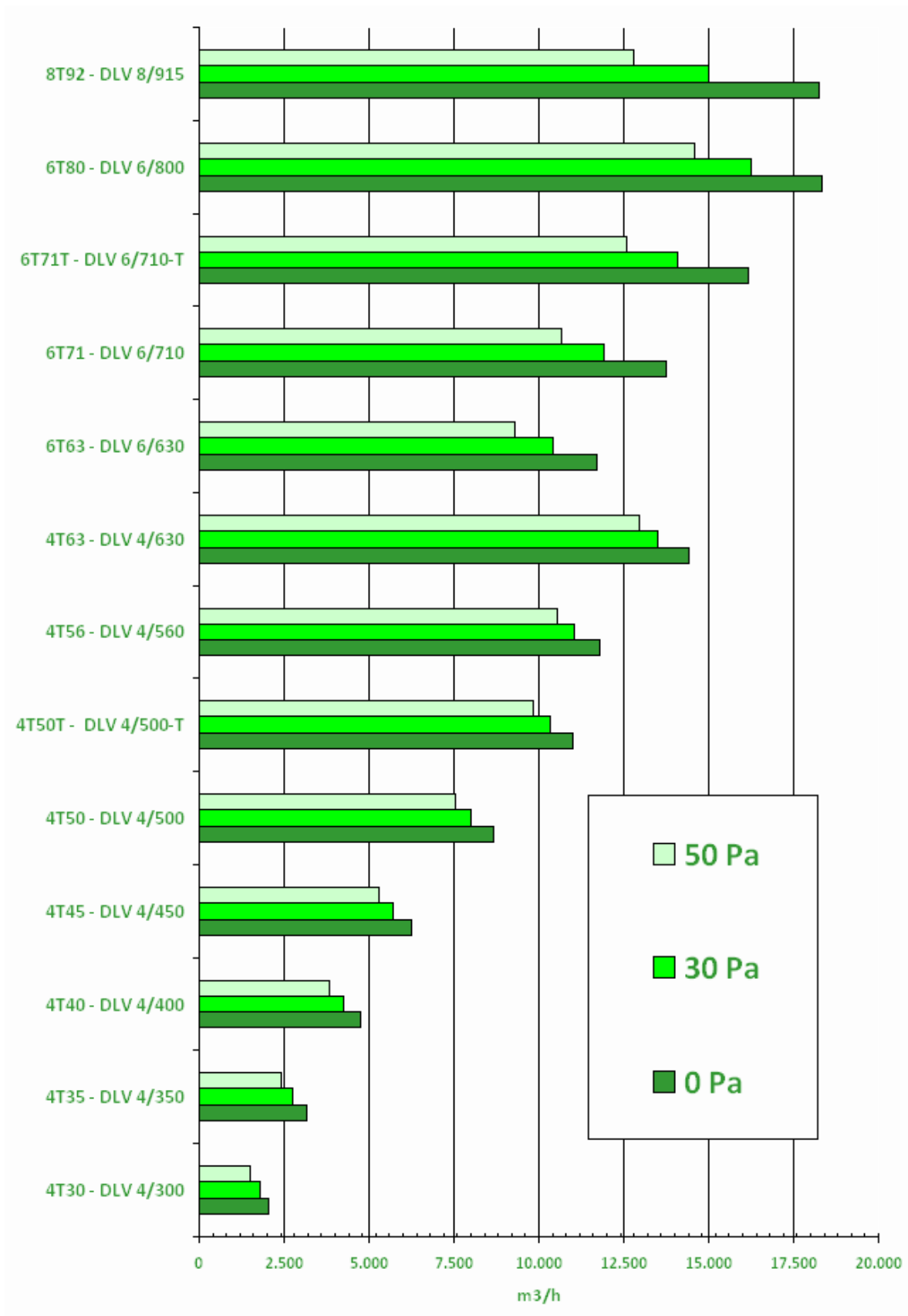
Quick Select 1 ~ 50 Hz models





## Quick select

Quick Select 3~ 50 hz models





## Technical data 1~ 230V 50Hz

RPM	Type	EMI Code	Ø (cm)	I <sub>nom</sub> (A)	I <sub>max</sub> (A)	Watt	W/1000m³/h	Capacitor uF/V	dB(A)	Controllability
2800	2S20	VWS 200	20	0,2	0,3	50	63,3	1,5 / 400	65	-
2800	2S25	VWS 250	25	0,5	0,6	115	66,7	3 / 450	72	-
2800	2S30	WLV 2/300	30	1,4	1,7	270	87	6 / 400	63	E / T / FC
2800	2S35	WLV 2 / 350	35	2,2	2,6	415	92,3	10 / 400	67	E / T / FC
1400	4S20	VW 200	20	0,2	0,2	35	83,3	1,5 / 450	51	-
1400	4S25	VW 250	25	0,1	0,2	30	31,6	1 / 450	58	-
1400	4S30	WLV 4 / 300	30	0,5	0,6	95	47,5	3 / 400	48	E / T / FC
1400	4S35	WLV 4 / 350	35	0,6	0,8	120	37,5	3 / 400	49	E / T / FC
1400	4S40	WLV 4 / 400	40	1,1	1,3	220	46,8	6 / 400	52	E / T / FC
1400	4S45	WLV 4 / 450	45	1,3	1,6	280	41,8	6 / 400	54	E / T / FC
1400	4S50	WLV 4 / 500	50	1,9	2,6	385	46,4	10 / 400	56	E / T / FC
1400	4S50T	WLV 4 / 500-T	50	4,0	5,8	880	80,5	16 / 400	61	E / T / FC
1400	4S56	WLV 4 / 560	56	2,8	3,9	530	50,5	12 / 400	65	E / T / FC
900	6S30	WLV 6 / 300	30	0,2	0,3	50	38,4	2 / 400	34	E / T / FC
900	6S35	WLV 6 / 350	35	0,3	0,3	65	30,5	2 / 400	36	E / T / FC
900	6S40	WLV 6 / 400	40	0,4	0,5	80	25,4	2 / 400	38	E / T / FC
900	6S45	WLV 6 / 450	45	0,6	0,8	120	28,3	4 / 400	40	E / T / FC
900	6S50	WLV 6 / 500	50	0,7	0,9	140	28,4	4 / 400	42	E / T / FC
900	6S63	WLV 6 / 630	63	2,8	3,4	530	44,2	16 / 400	57	E / T / FC
900	6S71	WLV 6 / 710	71	2,7	3,3	490	35,5	16 / 400	63	E / T / FC



## Technical data 3~ 230/400V 50Hz

RPM	Type	EMI Code	Ø (cm)	I <sub>nom</sub> Δ/Y (A)	I <sub>max</sub> Δ/Y (A)	Watt	W/1000m³/h	dB(A)	Controllability
1400	4T30	DLV 4 / 300	30	0,3 / 0,2	0,4 / 0,2	85	40,5	48	T / FC
1400	4T35	DLV 4 / 350	35	0,5 / 0,3	0,6 / 0,4	140	43,8	49	T / FC
1400	4T40	DLV 4 / 400	40	1,0 / 0,6	1,1 / 0,7	220	45,5	52	T / FC
1400	4T45	DLV 4 / 450	45	1,2 / 0,7	1,3 / 0,8	300	47,3	54	T / FC
1400	4T50	DLV 4 / 500	50	1,9 / 1,1	2,1 / 1,2	405	46,6	56	T / FC
1400	4T50T	DLV 4 / 500-T	50	2,9 / 1,7	3,2 / 1,9	850	77,3	61	T / FC
1400	4T56	DLV 4 / 560	56	2,4 / 1,4	2,4 / 1,4	670	56,8	65	T / FC
1400	4T63	DLV 4 / 630	63	2,9 / 1,7	3,2 / 1,9	735	51,1	67	FC
900	6T63	DLV 6 / 630	63	2,2 / 1,3	2,4 / 1,4	475	40,4	57	T / FC
900	6T71	DLV 6 / 710	71	2,2 / 1,3	2,4 / 1,4	465	33,7	60	T / FC
900	6T71T	DLV 6 / 710-T	71	3,1 / 1,8	3,4 / 2,0	750	46,6	61	T / FC
900	6T80	DLV 6 / 800	80	3,2 / 1,8	3,6 / 2,1	820	44,7	66	T / FC
700	8T92	DLV 8 / 915	92	4,2 / 2,4	4,6 / 2,4	620	33,8	62	T / FC

### Controllability:

E = Electronic / Triac  
T = Transformer  
FC = Frequency drive

All motors are IP55 and have Class F insulation

All air capacities listed are for fans without protective wireguards installed



## Fan capacities 1~ 230V 50Hz (m³/h)

RPM	Type	EMI Code	Pa max	0 Pa	10 Pa	20 Pa	30 Pa	40 Pa	50 Pa	60 Pa	70Pa	80 Pa	90 Pa	100 Pa	150 Pa	200 Pa
2800	2S20	VWS 200	100	790	750	700	650	600	550	500	450	350	325	250	-	-
2800	2S25	VWS 250	120	1.750	1.670	1.600	1.500	1.400	1.350	1.250	1.200	1.150	1.100	1.050	-	-
2800	2S30	WLV 2/300	180	3.100	3.050	3.000	2.950	2.900	2.850	2.825	2.800	2.750	2.700	2.650	2.350	-
2800	2S35	WLV 2 / 350	220	4.500	4.400	4.350	4.300	4.250	4.200	4.150	4.100	4.050	3.950	3.900	3.550	3.150
1400	4S20	VW 200	30	420	360	300	250	-	-	-	-	-	-	-	-	-
1400	4S25	VW 250	40	950	870	790	690	590	-	-	-	-	-	-	-	-
1400	4S30	WLV 4 / 300	50	2.000	1.900	1.800	1.700	1.600	1.380	-	-	-	-	-	-	-
1400	4S35	WLV 4 / 350	50	3.200	3.040	2.900	2.750	2.550	2.400	-	-	-	-	-	-	-
1400	4S40	WLV 4 / 400	70	4.700	4.550	4.400	4.200	4.000	3.800	3.600	3.350	-	-	-	-	-
1400	4S45	WLV 4 / 450	70	6.700	6.500	6.250	6.000	5.800	5.550	5.300	4.950	-	-	-	-	-
1400	4S50	WLV 4 / 500	100	8.300	8.100	7.850	7.610	7.400	7.100	6.900	6.600	6.300	5.950	5.500	-	-
1400	4S50T	WLV 4 / 500-T	90	10.800	10.550	10.300	10.100	9.850	9.550	9.300	8.900	8.200	7.600	-	-	-
1400	4S56	WLV 4 / 560	100	10.500	10.200	9.950	9.700	9.450	9.200	8.900	8.600	8.300	7.950	7.600	-	-
900	6S30	WLV 6 / 300	25	1.350	1.250	1.050	450	-	-	-	-	-	-	-	-	-
900	6S35	WLV 6 / 350	30	2.150	2.000	1.750	1.400	-	-	-	-	-	-	-	-	-
900	6S40	WLV 6 / 400	55	3.150	2.850	2.600	2.300	1.050	710	-	-	-	-	-	-	-
900	6S45	WLV 6 / 450	35	4.350	4.050	3.750	3.400	2.900	-	-	-	-	-	-	-	-
900	6S50	WLV 6 / 500	40	5.300	4.900	4.550	4.200	-	-	-	-	-	-	-	-	-
900	6S63	WLV 6 / 630	70	12.000	11.550	11.100	10.600	10.100	9.550	8.800	7.950	-	-	-	-	-
900	6S71	WLV 6 / 710	70	13.800	13.100	12.450	11.800	11.150	10.550	9.700	8.900	-	-	-	-	-



## Fan capacities 3~ 230/400V 50Hz (m³/h)

RPM	Type	EMI Code	Pa max	0 Pa	10 Pa	20 Pa	30 Pa	40 Pa	50 Pa	60 Pa	70Pa	80 Pa	90 Pa	100 Pa	150 Pa
1400	4T30	DLV 4 / 300	50	2.050	1.950	1.900	1.800	1.650	1.500	-	-	-	-	-	-
1400	4T35	DLV 4 / 350	50	3.200	3.035	2.890	2.750	2.580	2.400	-	-	-	-	-	-
1400	4T40	DLV 4 / 400	70	4.750	4.550	4.400	4.250	4.050	3.850	3.650	3.400	-	-	-	-
1400	4T45	DLV 4 / 450	70	6.250	6.100	5.950	5.700	5.500	5.300	5.000	4.750	-	-	-	-
1400	4T50	DLV 4 / 500	100	8.650	8.400	8.200	8.000	7.750	7.550	7.300	7.050	6.800	6.550	6.200	-
1400	4T50T	DLV 4 / 500-T	100	10.950	10.750	10.500	10.300	10.050	9.850	9.600	9.250	8.750	8.100	7.250	-
1400	4T56	DLV 4 / 560	100	11.800	11.500	11.350	11.050	10.800	10.550	10.300	10.000	9.700	9.350	9.000	-
1400	4T63	DLV 4 / 630	150	14.400	14.100	13.800	13.500	13.250	12.950	12.650	12.300	12.000	11.650	11.300	9.300
900	6T63	DLV 6 / 630	70	11.700	11.250	10.850	10.400	9.850	9.300	8.650	7.950	-	-	-	-
900	6T71	DLV 6 / 710	70	13.750	13.150	12.550	11.900	11.300	10.650	9.900	9.200	-	-	-	-
900	6T71T	DLV 6 / 710-T	70	16.150	15.500	14.800	14.100	13.400	12.600	11.700	10.700	-	-	-	-
900	6T80	DLV 6 / 800	80	18.350	17.700	17.000	16.250	15.450	14.600	13.650	12.700	11.400	-	-	-
700	8T92	DLV 8 / 915	60	18.250	17.200	16.200	15.000	14.000	12.800	11.450	-	-	-	-	-





# Technical data sheets

VWS Series

WLV Series

DLV Series



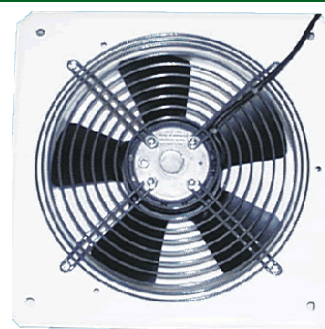
Group Ø : **20 cm**

Fan type: **2S20**

**VWS 200**

U : **1~ 230V 50 Hz**

**P<sub>in</sub> : 50**      **W**  
**I<sub>nom</sub> : 0,24**      **A**  
**I<sub>max</sub> : 0,29**      **A**  
**n : 2800**      **rpm**  
**C<sub>450V</sub> : 1,5**      **µF**  
  
**T<sub>amb</sub> < : 40**      **°C**  
**65**      **dB(A)**

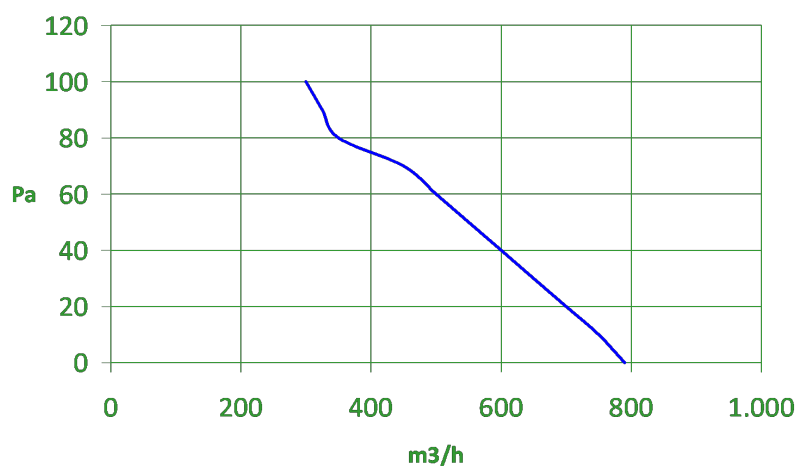


### Characteristics

Pa max : **100**      Pa

**0 Pa : 790**      **m³/h**  
**10 Pa : 750**      **m³/h**  
**20 Pa : 700**      **m³/h**  
**30 Pa : 650**      **m³/h**  
**40 Pa : 600**      **m³/h**  
**50 Pa : 550**      **m³/h**  
**70 Pa : 450**      **m³/h**  
**100 Pa : 250**      **m³/h**  
**150 Pa :**      **m³/h**  
**200 Pa :**      **m³/h**

Watt / 1000m³ / h : **63,3**      W



### Control options

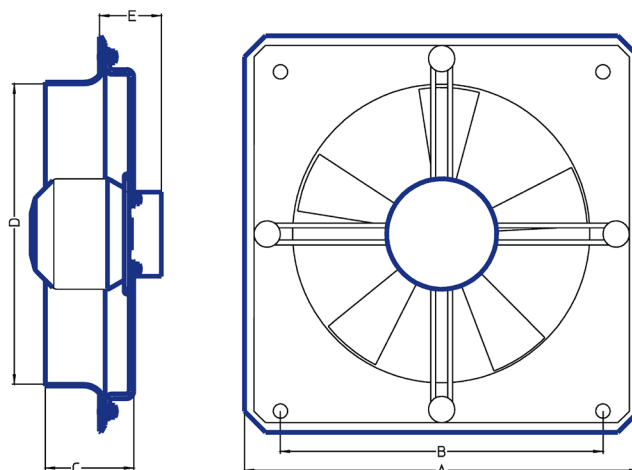
Triac controller : **no**  
 Transformer : **no**  
 Frequency drive : **no**

### Part numbers / ordering codes:

Panel fan : **• V2S2000E10100**  
 panel fan with wireguard : **• V2S2000E11100**

### Dimensions

	A	B	C	D	E
VW 200	280	230	63	200	23
VWS 200					
VW 250	330	280	68	250	23
VWS 250					



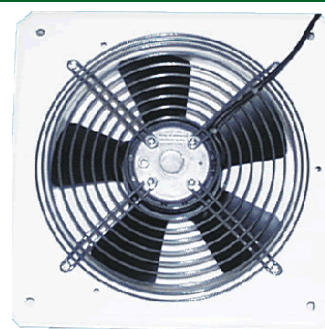
Group Ø : 25 cm

Fan type: 2S25

VWS 250

U : 1~ 230V 50 Hz

$P_{in}$  : 115 W  
 $I_{nom}$  : 0,5 A  
 $I_{max}$  : 0,6 A  
 $n$  : 2800 rpm  
 $C_{450V}$  : 3  $\mu F$   
 $T_{amb <}$  : 40 C°  
72 dB(A)

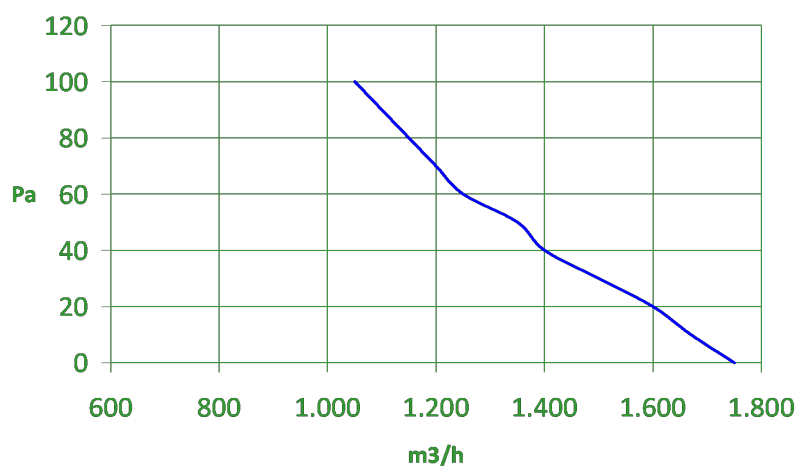


### Characteristics

Pa max : 120 Pa

0 Pa : 1.750 m<sup>3</sup>/h  
10 Pa : 1.670 m<sup>3</sup>/h  
20 Pa : 1.600 m<sup>3</sup>/h  
30 Pa : 1.500 m<sup>3</sup>/h  
40 Pa : 1.400 m<sup>3</sup>/h  
50 Pa : 1.350 m<sup>3</sup>/h  
70 Pa : 1.200 m<sup>3</sup>/h  
100 Pa : 1.050 m<sup>3</sup>/h  
150 Pa : m<sup>3</sup>/h  
200 Pa : m<sup>3</sup>/h

Watt / 1000m<sup>3</sup> / h : 66,7 W



### Control options

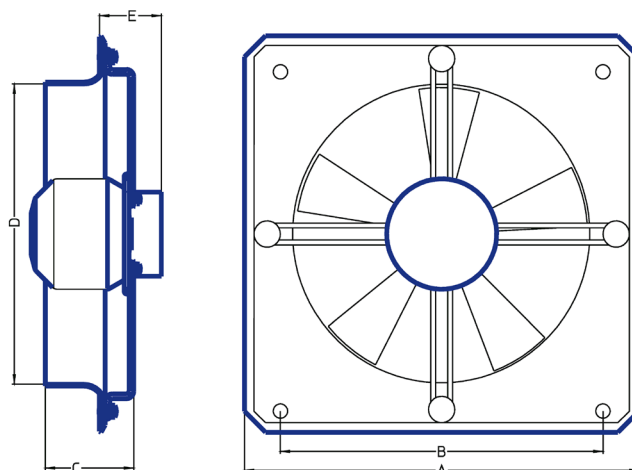
Triac controller : no  
Transformer : no  
Frequency drive : no

### Part numbers / ordering codes:

Panel fan : • V2S2500E10100  
panel fan with wireguard : • V2S2500E11100

### Dimensions

	A	B	C	D	E
VW 200	280	230	63	200	23
VWS 200					
VW 250	330	280	68	250	23
VWS 250					



Group Ø : **20 cm**

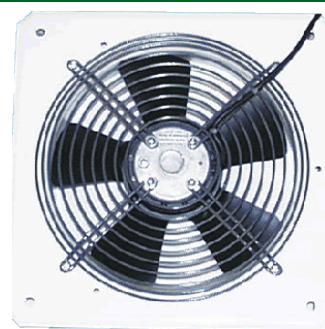
Fan type: **4S20**

**VW 200**

U : **1~ 230V 50 Hz**

**P<sub>in</sub> : 35**  
**I<sub>nom</sub> : 0,18**  
**I<sub>max</sub> : 0,22**  
**n : 1400**  
**C<sub>450V</sub> : 1,5**  
**T<sub>amb</sub> < : 40**  
**51**

**W**  
**A**  
**A**  
**rpm**  
**µF**  
**°C**  
**dB(A)**

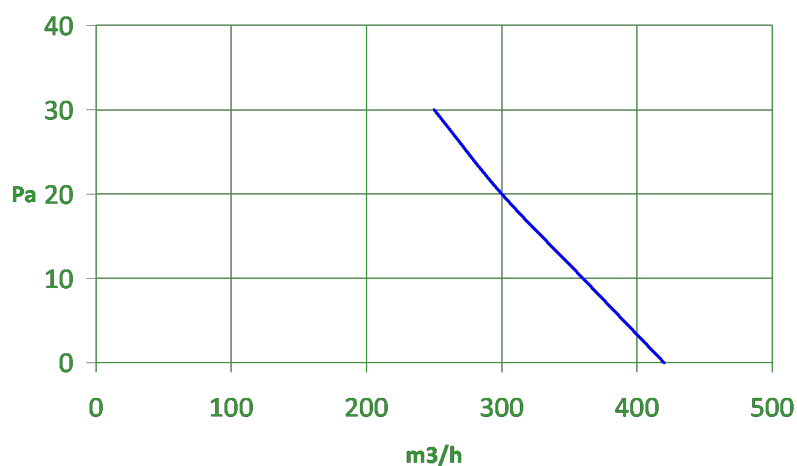


### Characteristics

Pa max : **30** Pa

**0 Pa : 420** m³/h  
**10 Pa : 360** m³/h  
**20 Pa : 300** m³/h  
**30 Pa : 250** m³/h  
**40 Pa :** m³/h  
**50 Pa :** m³/h  
**70 Pa :** m³/h  
**100 Pa :** m³/h  
**150 Pa :** m³/h  
**200 Pa :** m³/h

Watt / 1000m³ / h : **83,3** W



### Control options

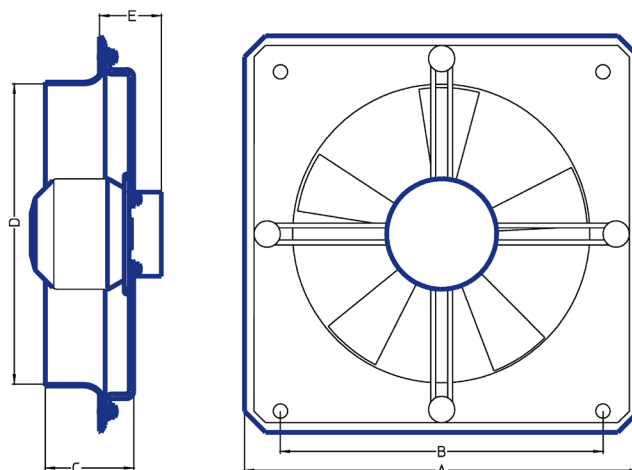
Triac controller : **no**  
 Transformer : **no**  
 Frequency drive : **no**

### Part numbers / ordering codes:

Panel fan : **• V4S2000E10100**  
 panel fan with wireguard : **• V4S2000E11100**

### Dimensions

	A	B	C	D	E
VW 200	280	230	63	200	23
VWS 200					
VW 250	330	280	68	250	23
VWS 250					





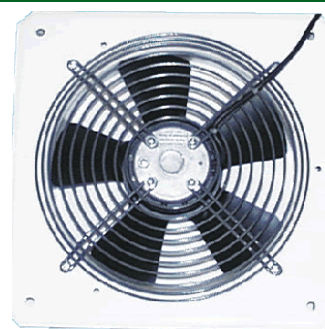
Group Ø : 25 cm

Fan type: 4S25

VW 250

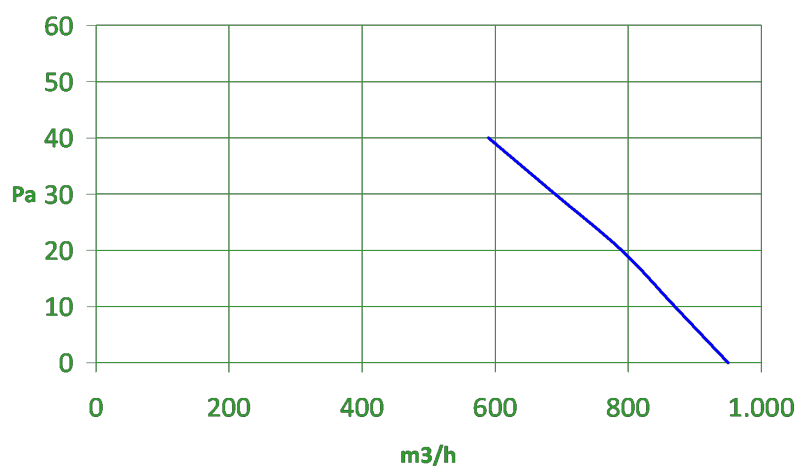
U : 1~ 230V 50 Hz

$P_{in}$  : 30 W  
 $I_{nom}$  : 0,14 A  
 $I_{max}$  : 0,17 A  
 $n$  : 1400 rpm  
 $C_{450V}$  : 1  $\mu F$   
 $T_{amb <}$  : 40 C°  
               58 dB(A)



### Characteristics

Pa max : 40 Pa  
 0 Pa : 950 m³/h  
 10 Pa : 870 m³/h  
 20 Pa : 790 m³/h  
 30 Pa : 690 m³/h  
 40 Pa : 590 m³/h  
 50 Pa : m³/h  
 70 Pa : m³/h  
 100 Pa : m³/h  
 150 Pa : m³/h  
 200 Pa : m³/h  
 Watt / 1000m³ / h : 31,6 W



### Control options

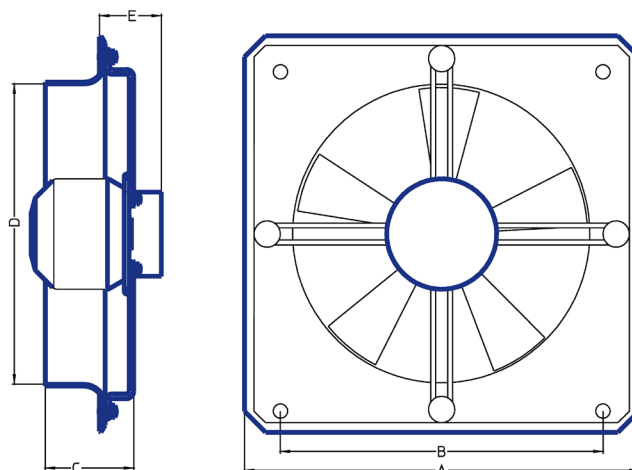
Triac controller : no  
 Transformer : no  
 Frequency drive : no

### Part numbers / ordering codes:

Panel fan : • V4S2500E10100  
 panel fan with wireguard : • V4S2500E11100

### Dimensions

	A	B	C	D	E
VW 200	280	230	63	200	23
VWS 200					
VW 250	330	280	68	250	23
VWS 250					



Group Ø : 30 cm

Fan type: 2S30

WLV 2 / 300

U : 1~ 230V 50 Hz

P<sub>in</sub> : 270

I<sub>nom</sub> : 1,4

I<sub>max</sub> : 1,7

n : 2800

C<sub>400V</sub> : 6

T<sub>amb <</sub> : 40

63

W

A

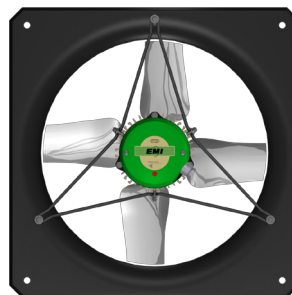
A

rpm

μF

C°

dB(A)



### Characteristics

Pa max : 180 Pa

0 Pa : 3.100 m³/h

10 Pa : 3.050 m³/h

20 Pa : 3.000 m³/h

30 Pa : 2.950 m³/h

40 Pa : 2.900 m³/h

50 Pa : 2.850 m³/h

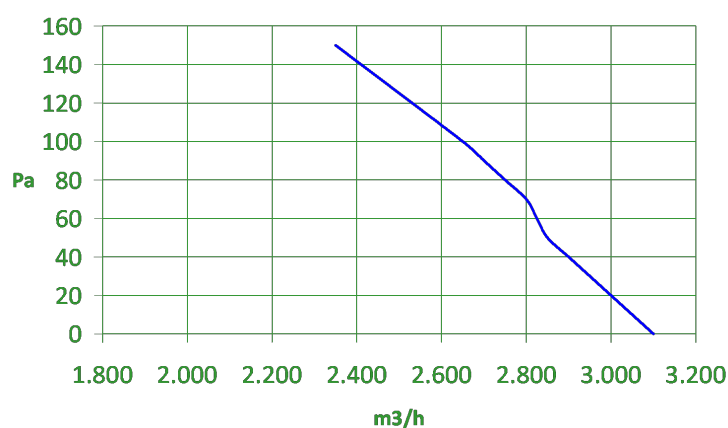
70 Pa : 2.800 m³/h

100 Pa : 2.650 m³/h

150 Pa : 2.350 m³/h

200 Pa : m³/h

Watt / 1000m³ / h : 87 W



### Control options

Triac controller : yes

Transformer : yes

Frequency drive : yes

### Fan details

Impeller Ø : 293 mm

Impeller blades : 4

### Part numbers / Ordering codes:

Panel fan : • V2S3000E10100

Panel fan with wireguard : • V2S3000E11100

Tube fan : • -

Motor : • M2S3000E10100

Impeller : • W293Y4S21L12AS2

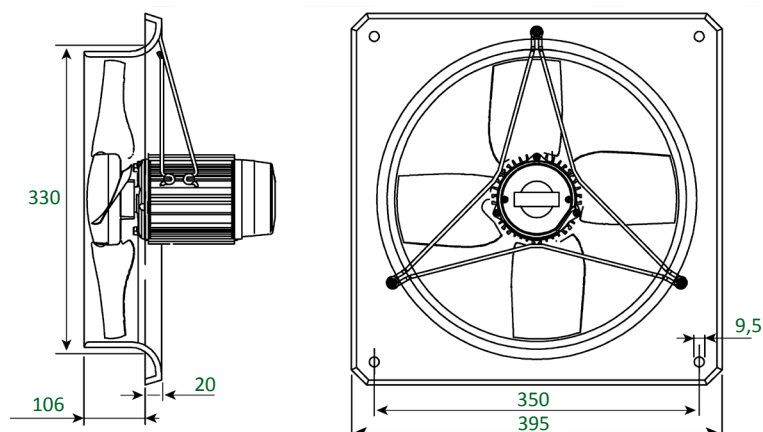
Panel fan support : • DRVP3010

Tube fan support : • -

Wireguard : • ROEMI300

Frame / Panel : • PLVR1308G1

### Panel fan dimensions (mm)



Group Ø : 35 cm

Fan type: 2S35

WLV 2 / 350

U : 1~ 230V 50 Hz

P<sub>in</sub> : 415

I<sub>nom</sub> : 2,2

I<sub>max</sub> : 2,6

n : 2800

C<sub>400V</sub> : 10

T<sub>amb <</sub> : 40

67

W

A

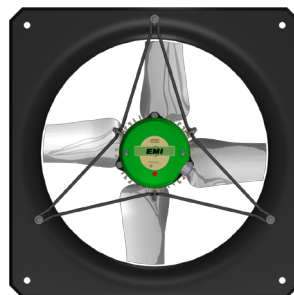
A

rpm

µF

C°

dB(A)



### Characteristics

Pa max : 220 Pa

0 Pa : 4.500 m³/h

10 Pa : 4.400 m³/h

20 Pa : 4.350 m³/h

30 Pa : 4.300 m³/h

40 Pa : 4.250 m³/h

50 Pa : 4.200 m³/h

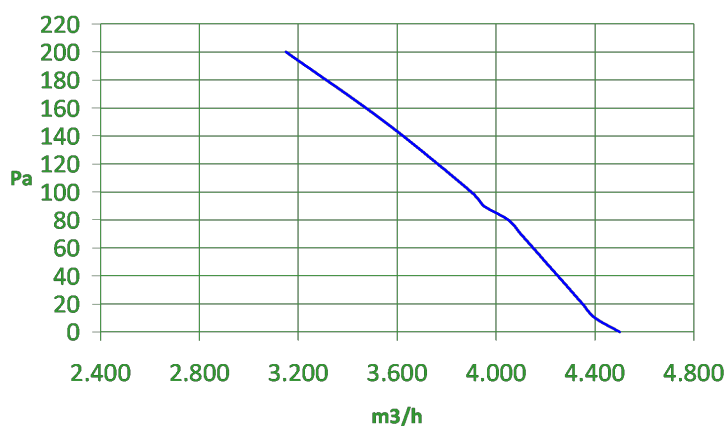
70 Pa : 4.100 m³/h

100 Pa : 3.900 m³/h

150 Pa : 3.550 m³/h

200 Pa : 3.150 m³/h

Watt / 1000m³ / h : 92,3 W



### Control options

Triac controller : yes

Transformer : yes

Frequency drive : yes

### Fan details

Impeller Ø : 339 mm

Impeller blades : 4

### Part numbers / Ordering codes:

Panel fan : • V2S3500E10100

Panel fan with wireguard : • V2S3500E11100

Tube fan : • -

Motor : • M2S3500E10100

Impeller : • W339Y4S21L16AS1

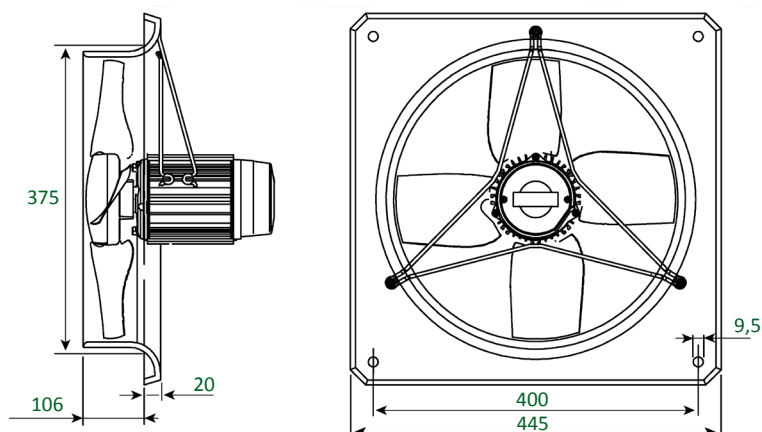
Panel fan support : • DRVP3511

Tube fan support : • -

Wireguard : • ROEMI350

Frame / Panel : • PLVR1359G1

### Panel fan dimensions (mm)



Group Ø : 30 cm

Fan type: 4S30

WLV 4 / 300

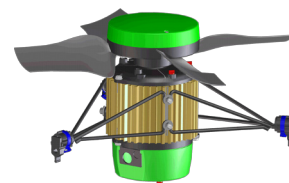
U : 1~ 230V 50 Hz

P<sub>in</sub> : 95  
I<sub>nom</sub> : 0,45  
I<sub>max</sub> : 0,6  
n : 1400  
C<sub>400V</sub> : 3

W  
A  
A  
rpm  
µF

T<sub>amb <</sub> : 40  
48

C°  
dB(A)

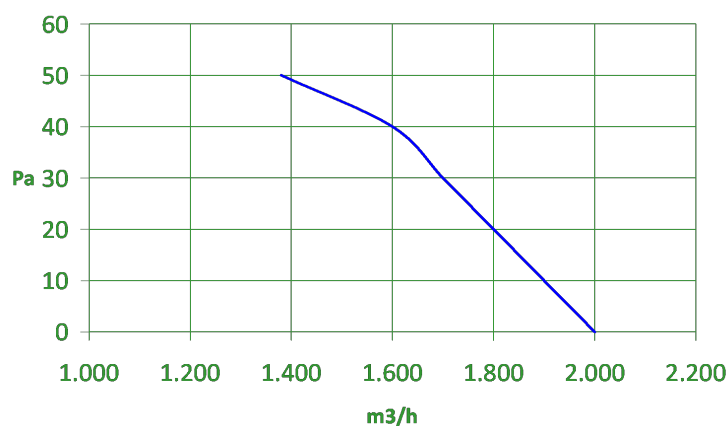


## Characteristics

Pa max : 50 Pa

0 Pa : 2.000 m³/h  
10 Pa : 1.900 m³/h  
20 Pa : 1.800 m³/h  
30 Pa : 1.700 m³/h  
40 Pa : 1.600 m³/h  
50 Pa : 1.380 m³/h  
70 Pa : m³/h  
100 Pa : m³/h  
150 Pa : m³/h  
200 Pa : m³/h

Watt / 1000m³ / h : 47,5 W



## Control options

Triac controller : yes  
Transformer : yes  
Frequency drive : yes

## Fan details

Impeller Ø : 293 mm  
Impeller blades : 4

## Part numbers / Ordering codes:

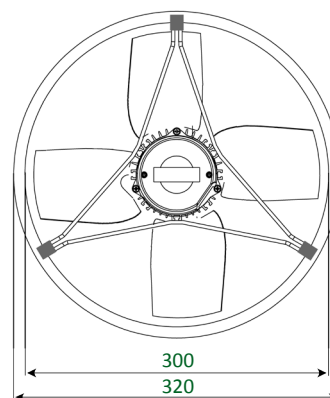
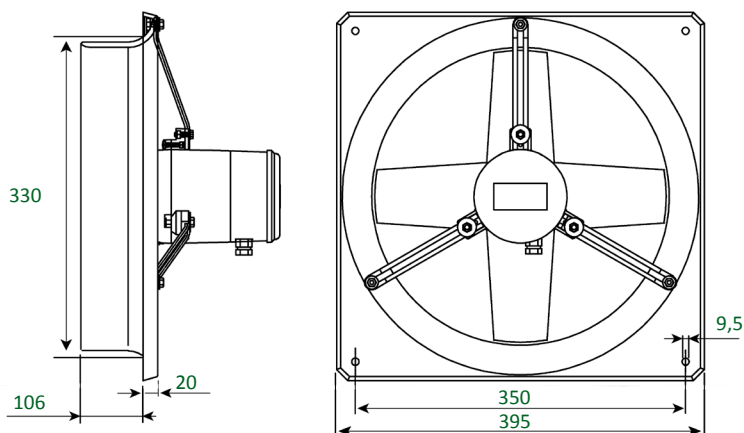
Panel fan : • V4S3000E10100  
Panel fan with wireguard : • V4S3000E11100  
Tube fan : • P4S3000E11100

Motor : • M4S3000E10100  
Impeller : • W293Y4S21L12AS1  
Panel fan support : • DRVP3009  
Tube fan support : • DRVP3008  
Wireguard : • ROEMI300  
Frame / Panel : • PLVR1308G1

## Panel fan dimensions (mm)

## Tube fan dimensions (mm)

Minimum tube inside Ø : 300 mm  
Maximum tube inside Ø : 320 mm



Group Ø : 35 cm

Fan type: 4S35

WLV 4 / 350

U : 1~ 230V 50 Hz

P<sub>in</sub> : 120

I<sub>nom</sub> : 0,6

I<sub>max</sub> : 0,8

n : 1400

C<sub>400V</sub> : 3

T<sub>amb <</sub> : 40

49

W

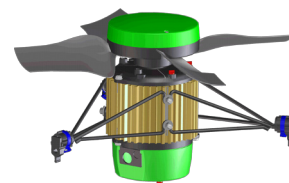
A

A

rpm

µF

C°  
dB(A)



### Characteristics

Pa max : 50 Pa

0 Pa : 3.200 m³/h

10 Pa : 3.040 m³/h

20 Pa : 2.900 m³/h

30 Pa : 2.750 m³/h

40 Pa : 2.550 m³/h

50 Pa : 2.400 m³/h

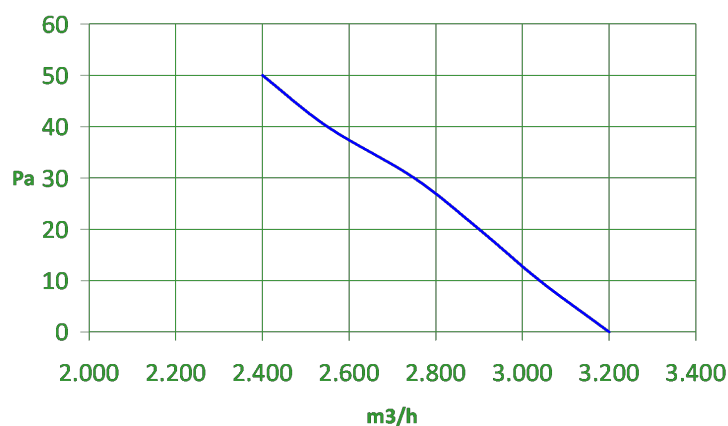
70 Pa : m³/h

100 Pa : m³/h

150 Pa : m³/h

200 Pa : m³/h

Watt / 1000m³ / h : 37,5 W



### Control options

Triac controller : yes

Transformer : yes

Frequency drive : yes

### Fan details

Impeller Ø : 343 mm

Impeller blades : 4

### Part numbers / Ordering codes:

Panel fan : • V4S3500E10100

Panel fan with wireguard : • V4S3500E11100

Tube fan : • P4S3500E11100

Motor : • M4S3500E10100

Impeller : • W343Y4S21L12AS1

Panel fan support : • DRVP3513

Tube fan support : • DRVP3503

Wireguard : • ROEMI350

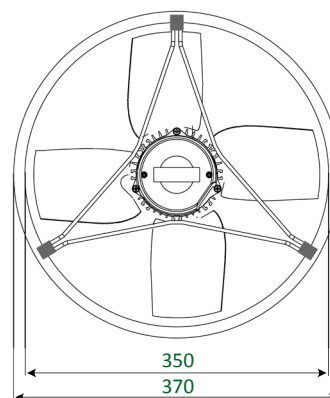
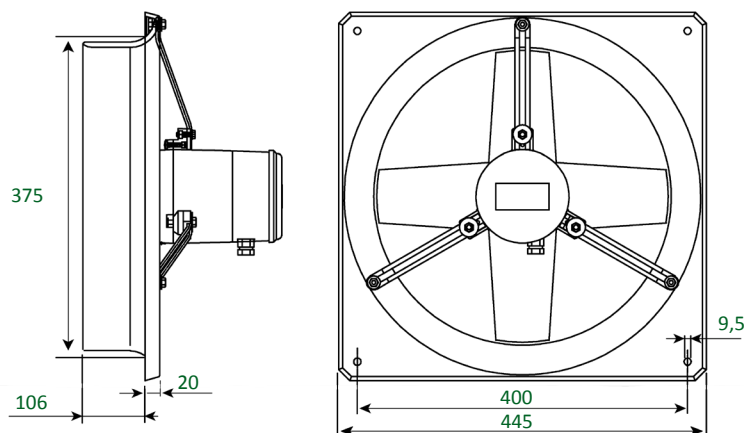
Frame / Panel : • PLVR1359G1

### Panel fan dimensions (mm)

### Tube fan dimensions (mm)

Minimum tube inside Ø : 350 mm

Maximum tube inside Ø : 370 mm



Group Ø : **40 cm**

Fan type: **4S40**

**WLV 4 / 400**

U : 1~ 230V 50 Hz

P<sub>in</sub> : **220**

I<sub>nom</sub> : **1,1**

I<sub>max</sub> : **1,3**

n : **1400**

C<sub>400V</sub> : **6**

T<sub>amb <</sub> : **40**

**52**

W

A

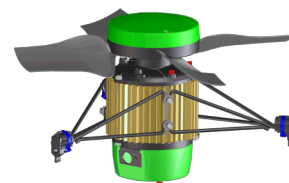
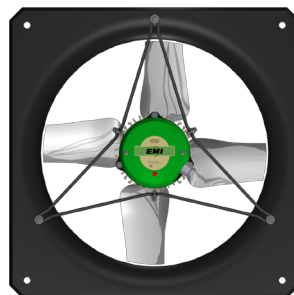
A

rpm

µF

C°

dB(A)



## Characteristics

Pa max : **70** Pa

0 Pa : **4.700** m³/h

10 Pa : **4.550** m³/h

20 Pa : **4.400** m³/h

30 Pa : **4.200** m³/h

40 Pa : **4.000** m³/h

50 Pa : **3.800** m³/h

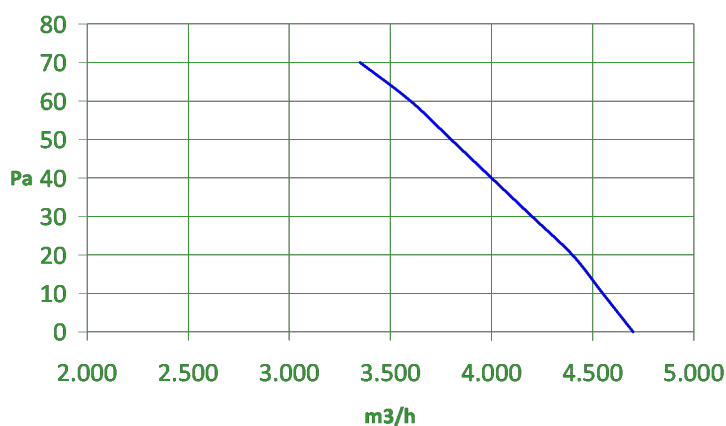
70 Pa : **3.350** m³/h

100 Pa : m³/h

150 Pa : m³/h

200 Pa : m³/h

Watt / 1000m³ / h : **46,8** W



## Control options

Triac controller : **yes**

Transformer : **yes**

Frequency drive : **yes**

## Fan details

Impeller Ø : **393 mm**

Impeller blades : **4**

## Part numbers / Ordering codes:

Panel fan : • **V4S4000E10100**

Panel fan with wireguard : • **V4S4000E11100**

Tube fan : • **P4S4000E11100**

Motor : • **M4S4000E10100**

Impeller : • **W393Y4S21L12AS2**

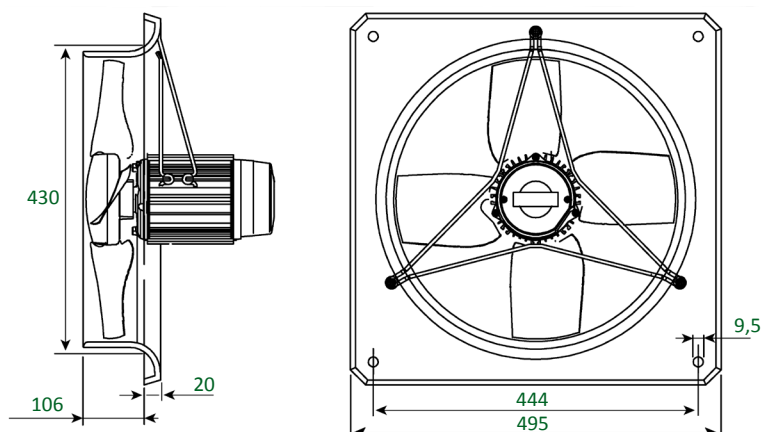
Panel fan support : • **DRVP4012**

Tube fan support : • **DRVP4014**

Wireguard : • **ROEMI400**

Frame / Panel : • **PLVR1402G1**

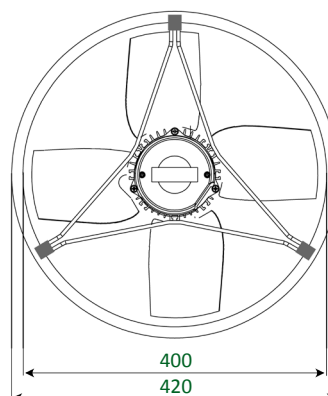
## Panel fan dimensions (mm)



## Tube fan dimensions (mm)

Minimum tube inside Ø : **400** mm

Maximum tube inside Ø : **420** mm



Group Ø : 45 cm

Fan type: 4S45

WLV 4 / 450

U : 1~ 230V 50 Hz

P<sub>in</sub> : 280

I<sub>nom</sub> : 1,3

I<sub>max</sub> : 1,6

n : 1400

C<sub>400V</sub> : 6

T<sub>amb <</sub> : 40

54

W

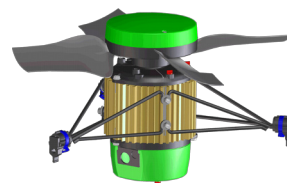
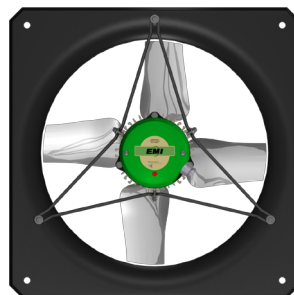
A

A

rpm

µF

C°  
dB(A)



### Characteristics

Pa max : 70 Pa

0 Pa : 6.700 m³/h

10 Pa : 6.500 m³/h

20 Pa : 6.250 m³/h

30 Pa : 6.000 m³/h

40 Pa : 5.800 m³/h

50 Pa : 5.550 m³/h

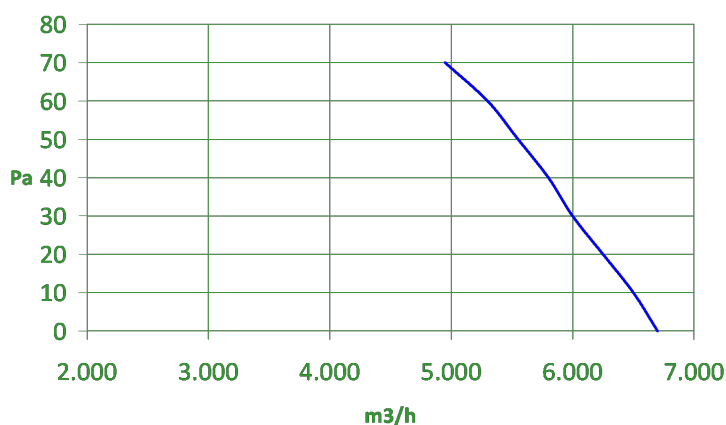
70 Pa : 4.950 m³/h

100 Pa : m³/h

150 Pa : m³/h

200 Pa : m³/h

Watt / 1000m³ / h : 41,8 W



### Control options

Triac controller : yes

Transformer : yes

Frequency drive : yes

### Fan details

Impeller Ø : 443 mm

Impeller blades : 4

### Part numbers / Ordering codes:

Panel fan : • V4S4500E10100

Panel fan with wireguard : • V4S4500E11100

Tube fan : • P4S4500E11100

Motor : • M4S4500E10100

Impeller : • W443Y4S21L12AS2

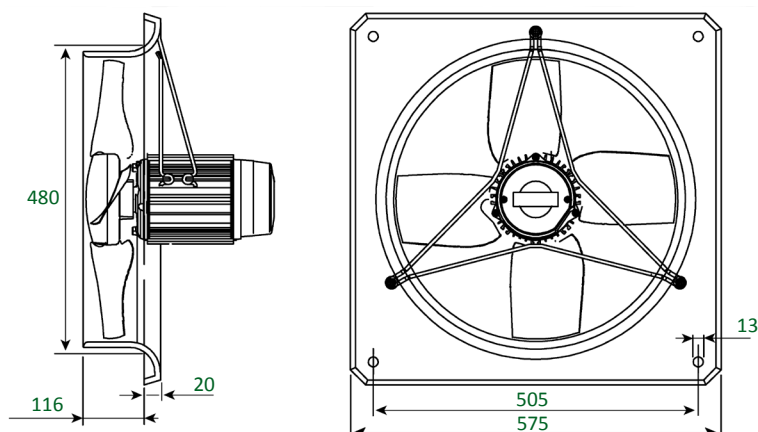
Panel fan support : • DRVP4512

Tube fan support : • DRVP4514

Wireguard : • ROEMI450

Frame / Panel : • PLVR1451G1

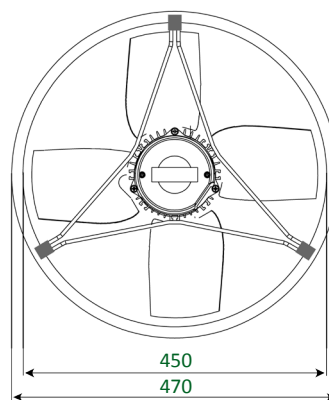
### Panel fan dimensions (mm)



### Tube fan dimensions (mm)

Minimum tube inside Ø : 450 mm

Maximum tube inside Ø : 470 mm



Group Ø : 50 cm

Fan type: 4S50

WLV 4 / 500

U : 1~ 230V 50 Hz

P<sub>in</sub> : 385

I<sub>nom</sub> : 1,9

I<sub>max</sub> : 2,6

n : 1400

C<sub>400V</sub> : 10

T<sub>amb <</sub>

: 40

56

W

A

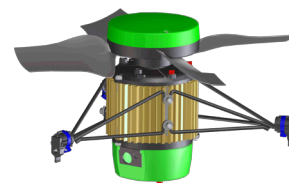
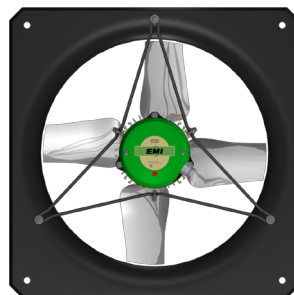
A

rpm

µF

C°

dB(A)



## Characteristics

Pa max : 100 Pa

0 Pa : 8.300 m³/h

10 Pa : 8.100 m³/h

20 Pa : 7.850 m³/h

30 Pa : 7.610 m³/h

40 Pa : 7.400 m³/h

50 Pa : 7.100 m³/h

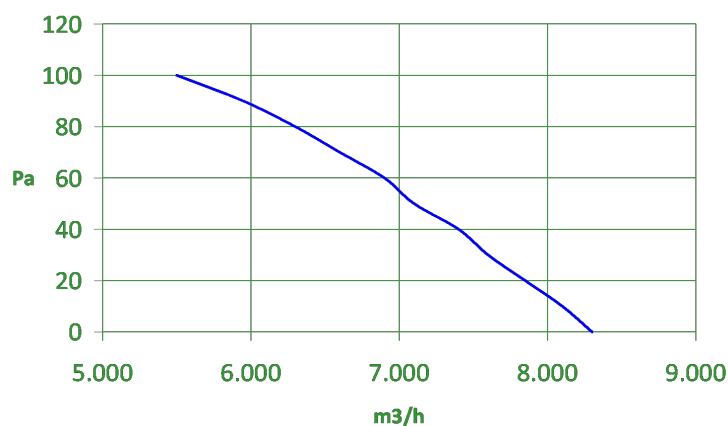
70 Pa : 6.600 m³/h

100 Pa : 5.500 m³/h

150 Pa : m³/h

200 Pa : m³/h

Watt / 1000m³ / h : 46,4 W



## Control options

Triac controller : yes

Transformer : yes

Frequency drive : yes

## Fan details

Impeller Ø : 493 mm

Impeller blades : 4

## Part numbers / Ordering codes:

Panel fan : • V4S5000E10100

Panel fan with wireguard : • V4S5000E11100

Tube fan : • P4S5000E11100

Motor : • M4S5000E10100

Impeller : • W493Y4S21L16AS1

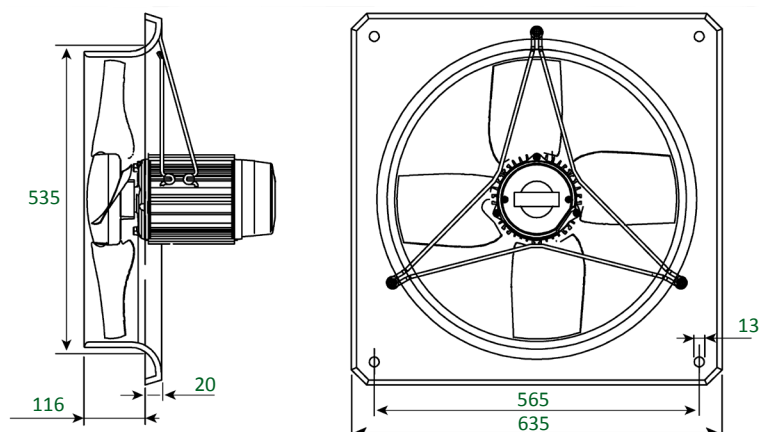
Panel fan support : • DRVP5007

Tube fan support : • DRVP5009

Wireguard : • ROEMI500

Frame / Panel : • PLVR1501G1

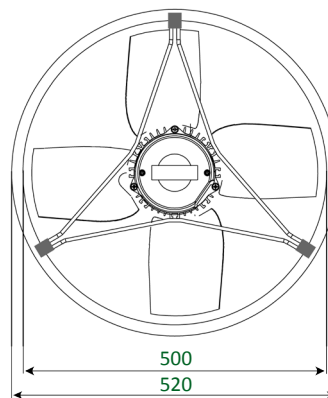
## Panel fan dimensions (mm)



## Tube fan dimensions (mm)

Minimum tube inside Ø : 500 mm

Maximum tube inside Ø : 520 mm





Group Ø : 50 cm

Fan type: 4S50T

WLV 4 / 500-T

U : 1~ 230V 50 Hz

P<sub>in</sub> : 880

I<sub>nom</sub> : 4,0

I<sub>max</sub> : 5,8

n : 1400

C<sub>400V</sub> : 16

T<sub>amb <</sub> : 40

61

W

A

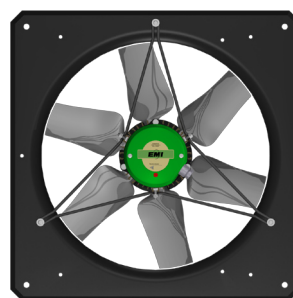
A

rpm

µF

C°

dB(A)



### Characteristics

Pa max : 90 Pa

0 Pa : 10.800 m³/h

10 Pa : 10.550 m³/h

20 Pa : 10.300 m³/h

30 Pa : 10.100 m³/h

40 Pa : 9.850 m³/h

50 Pa : 9.550 m³/h

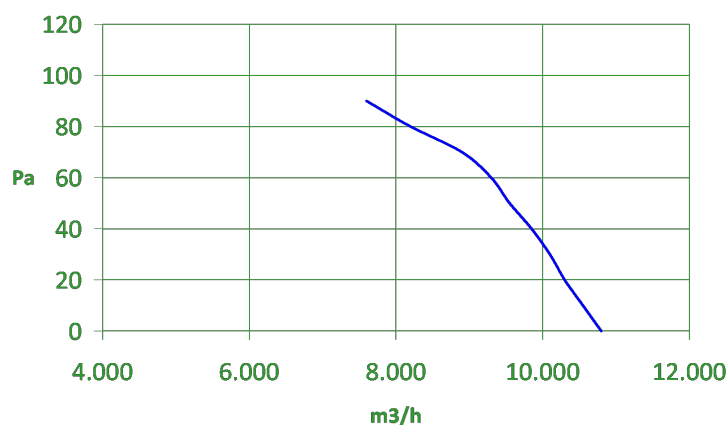
70 Pa : 8.900 m³/h

100 Pa : m³/h

150 Pa : m³/h

200 Pa : m³/h

Watt / 1000m³ / h : 80,5 W



### Control options

Triac controller : yes

Transformer : yes

Frequency drive : yes

### Fan details

Impeller Ø : 493 mm

Impeller blades : 6

### Part numbers / Ordering codes:

Panel fan : • V4S5006E10100

Panel fan with wireguard : • V4S5006E11100

Tube fan : • -

Motor : • M4S5006E10100

Impeller : • W493Y6S21L16AS2

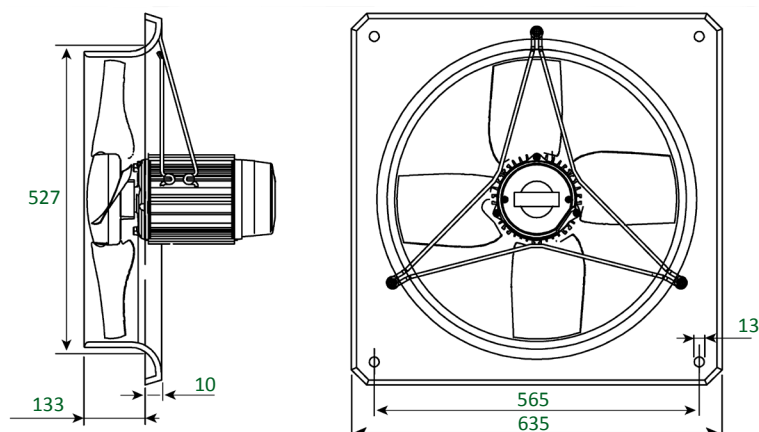
Panel fan support : • DRVP5007

Tube fan support : • -

Wireguard : • ROEMI500

Frame / Panel : • PLVR1502G1

### Panel fan dimensions (mm)



Group Ø : 56 cm

Fan type: 4S56

WLV 4 / 560

U : 1~ 230V 50 Hz

P<sub>in</sub> : 530

I<sub>nom</sub> : 2,8

I<sub>max</sub> : 3,9

n : 1400

C<sub>400V</sub> : 12

T<sub>amb <</sub> : 40

65

W

A

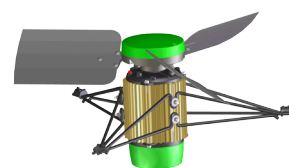
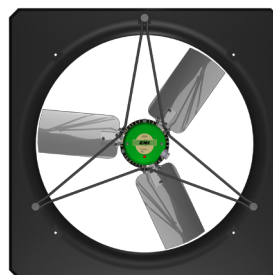
A

rpm

µF

C°

dB(A)



## Characteristics

Pa max : 100 Pa

0 Pa : 10.500 m³/h

10 Pa : 10.200 m³/h

20 Pa : 9.950 m³/h

30 Pa : 9.700 m³/h

40 Pa : 9.450 m³/h

50 Pa : 9.200 m³/h

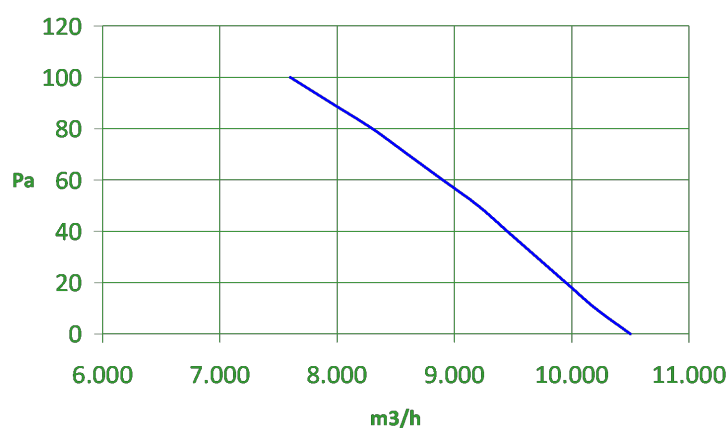
70 Pa : 8.600 m³/h

100 Pa : 7.600 m³/h

150 Pa : m³/h

200 Pa : m³/h

Watt / 1000m³ / h : 50,5 W



## Control options

Triac controller : yes

Transformer : yes

Frequency drive : yes

## Fan details

Impeller Ø : 552 mm

Impeller blades : 3

## Part numbers / Ordering codes:

Panel fan : • V4S5600E10100

Panel fan with wireguard : • V4S5600E11100

Tube fan : • P4S5600E11100

Motor : • M4S5600E10100

Impeller : • W552Y3S22L16AS2

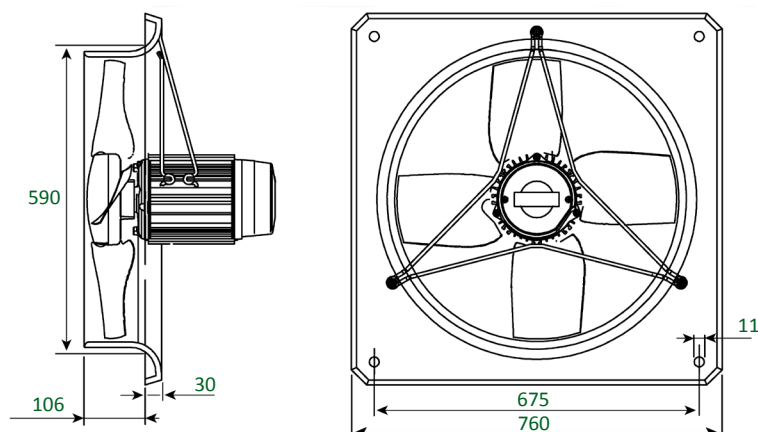
Panel fan support : • DRVP5604

Tube fan support : • DRVP5605

Wireguard : • ROEMI560630

Frame / Panel : • PLVR1561G1

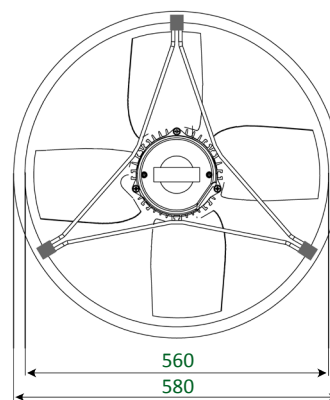
## Panel fan dimensions (mm)



## Tube fan dimensions (mm)

Minimum tube inside Ø : 560 mm

Maximum tube inside Ø : 580 mm



Group Ø : 30 cm

Fan type: 6S30

WLV 6 / 300

U : 1~ 230V 50 Hz

P<sub>in</sub> : 50

I<sub>nom</sub> : 0,22

I<sub>max</sub> : 0,26

n : 900

C<sub>400V</sub> : 2

T<sub>amb <</sub> : 40

34

W

A

A

rpm

µF

C°

dB(A)



### Characteristics

Pa max : 25 Pa

0 Pa : 1.350 m³/h

10 Pa : 1.250 m³/h

20 Pa : 1.050 m³/h

30 Pa : 450 m³/h

40 Pa : m³/h

50 Pa : m³/h

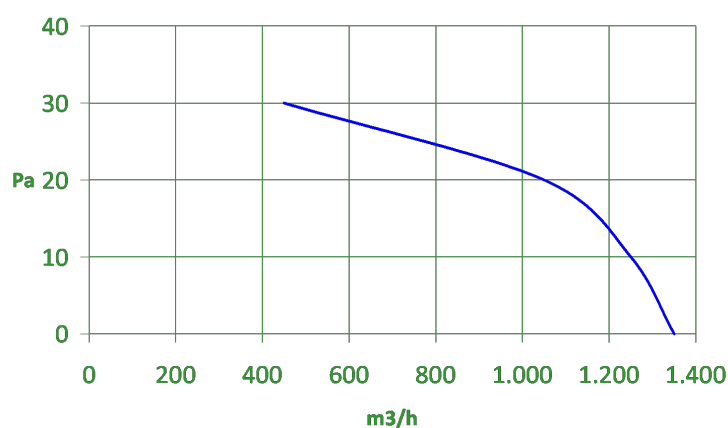
70 Pa : m³/h

100 Pa : m³/h

150 Pa : m³/h

200 Pa : m³/h

Watt / 1000m³ / h : 38,4 W



### Control options

Triac controller : yes

Transformer : yes

Frequency drive : yes

### Fan details

Impeller Ø : 293 mm

Impeller blades : 4

### Part numbers / Ordering codes:

Panel fan : • V6S3000E10100

Panel fan with wireguard : • V6S3000E11100

Tube fan : • -

Motor : • M6S3000E10100

Impeller : • W293Y4S21L12AS1

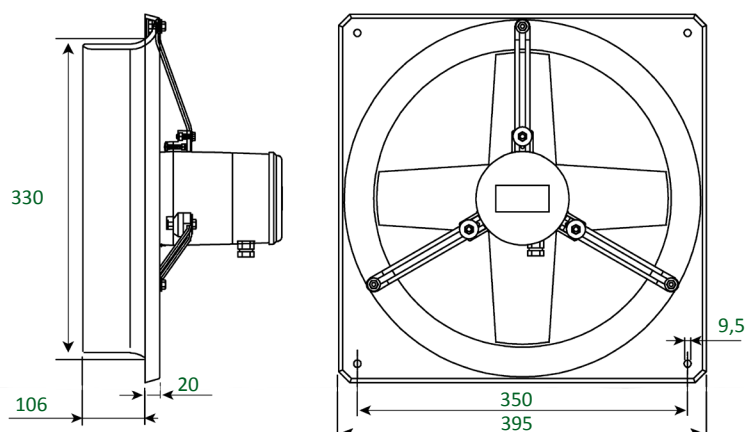
Panel fan support : • DRVP3009

Tube fan support : • -

Wireguard : • ROEMI300

Frame / Panel : • PLVR1308G1

### Panel fan dimensions (mm)



Group Ø : 35 cm

Fan type: 6S35

WLV 6 / 350

U : 1~ 230V 50 Hz

P<sub>in</sub> : 65

I<sub>nom</sub> : 0,27

I<sub>max</sub> : 0,32

n : 900

C<sub>400V</sub> : 2

T<sub>amb <</sub> : 40

36

W

A

A

rpm

μF

C°

dB(A)



### Characteristics

Pa max : 30 Pa

0 Pa : 2.150 m³/h

10 Pa : 2.000 m³/h

20 Pa : 1.750 m³/h

30 Pa : 1.400 m³/h

40 Pa : m³/h

50 Pa : m³/h

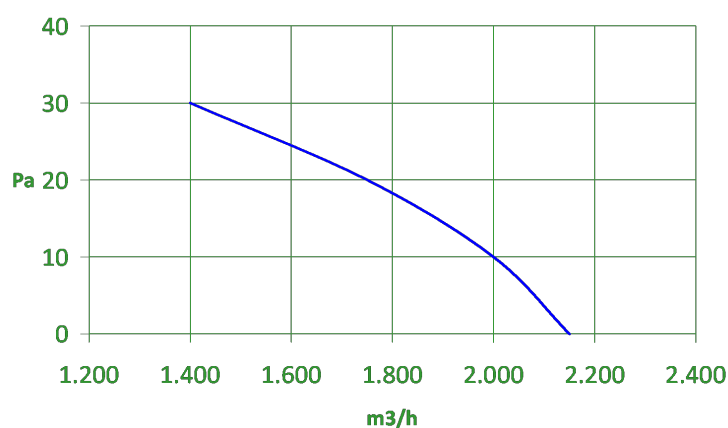
70 Pa : m³/h

100 Pa : m³/h

150 Pa : m³/h

200 Pa : m³/h

Watt / 1000m³ / h : 30,5 W



### Control options

Triac controller : yes

Transformer : yes

Frequency drive : yes

### Fan details

Impeller Ø : 343 mm

Impeller blades : 4

### Part numbers / Ordering codes:

Panel fan : • V6S3500E10100

Panel fan with wireguard : • V6S3500E11100

Tube fan : • -

Motor : • M6S3500E10100

Impeller : • W343Y4S21L12AS1

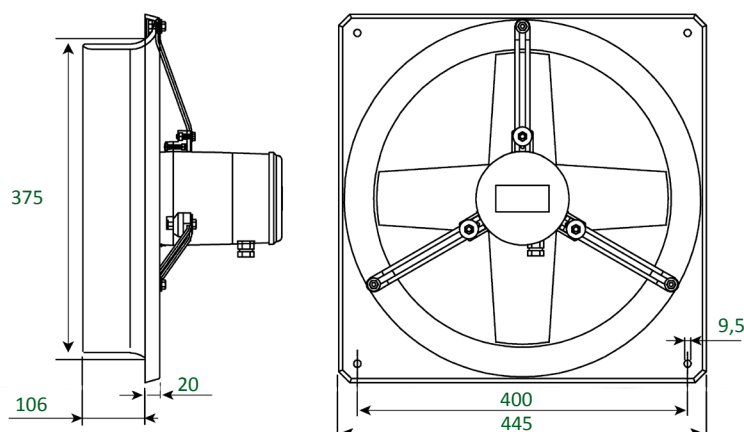
Panel fan support : • DRVP3513

Tube fan support : • -

Wireguard : • ROEMI350

Frame / Panel : • PLVR1359G1

### Panel fan dimensions (mm)



Group Ø : **40 cm**

Fan type: **6S40**

**WLV 6 / 400**

U : **1~ 230V 50 Hz**

P<sub>in</sub> : **80**

I<sub>nom</sub> : **0,38**

I<sub>max</sub> : **0,46**

n : **900**

C<sub>400V</sub> : **2**

T<sub>amb <</sub> : **40**

**38**

W

A

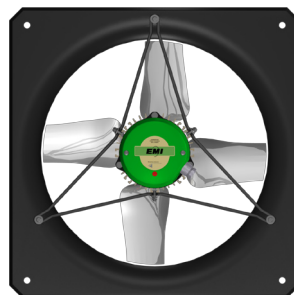
A

rpm

µF

C°

dB(A)



### Characteristics

Pa max : **55** Pa

0 Pa : **3.150** m³/h

10 Pa : **2.850** m³/h

20 Pa : **2.600** m³/h

30 Pa : **2.300** m³/h

40 Pa : **1.050** m³/h

50 Pa : **710** m³/h

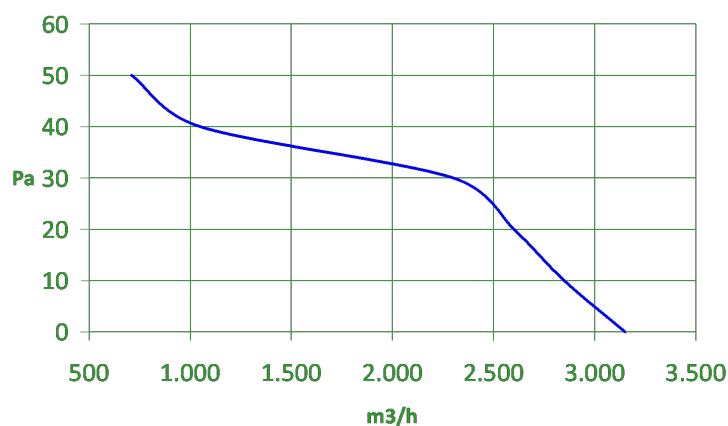
70 Pa : m³/h

100 Pa : m³/h

150 Pa : m³/h

200 Pa : m³/h

Watt / 1000m³ / h : **25,4** W



### Control options

Triac controller : **yes**

Transformer : **yes**

Frequency drive : **yes**

### Fan details

Impeller Ø : **393 mm**

Impeller blades : **4**

### Part numbers / Ordering codes:

Panel fan : • **V6S4000E10100**

Panel fan with wireguard : • **V6S4000E11100**

Tube fan : • -

Motor : • **M6S4000E10100**

Impeller : • **W393Y4S21L12AS1**

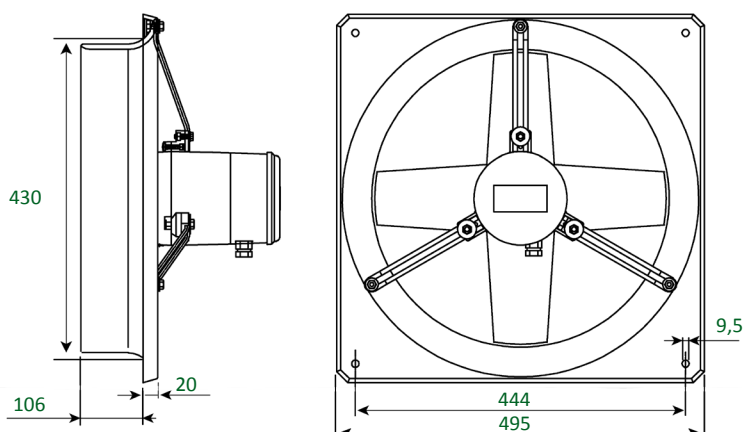
Panel fan support : • **DRVP4019**

Tube fan support : • -

Wireguard : • **ROEMI400**

Frame / Panel : • **PLVR1402G1**

### Panel fan dimensions (mm)



Group Ø : 45 cm

Fan type: 6S45

WLV 6 / 450

U : 1~ 230V 50 Hz

P<sub>in</sub> : 120

I<sub>nom</sub> : 0,63

I<sub>max</sub> : 0,75

n : 900

C<sub>400V</sub> : 4

T<sub>amb <</sub> : 40

40

W

A

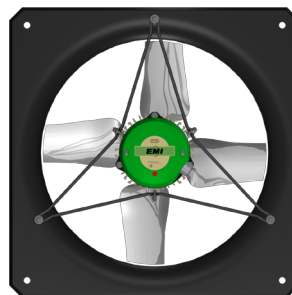
A

rpm

μF

C°

dB(A)



### Characteristics

Pa max : 35 Pa

0 Pa : 4.350 m³/h

10 Pa : 4.050 m³/h

20 Pa : 3.750 m³/h

30 Pa : 3.400 m³/h

40 Pa : 2.900 m³/h

50 Pa : m³/h

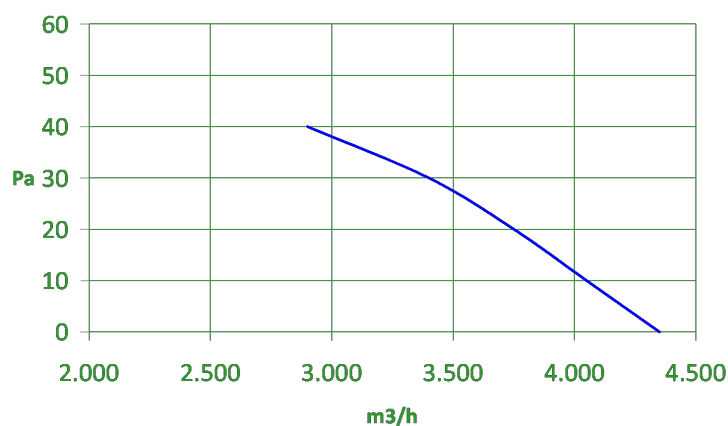
70 Pa : m³/h

100 Pa : m³/h

150 Pa : m³/h

200 Pa : m³/h

Watt / 1000m³ / h : 28,3 W



### Control options

Triac controller : yes

Transformer : yes

Frequency drive : yes

### Fan details

Impeller Ø : 443 mm

Impeller blades : 4

### Part numbers / Ordering codes:

Panel fan : • V6S4500E10100

Panel fan with wireguard : • V6S4500E11100

Tube fan : • -

Motor : • M6S4500E10100

Impeller : • W443Y4S21L12AS1

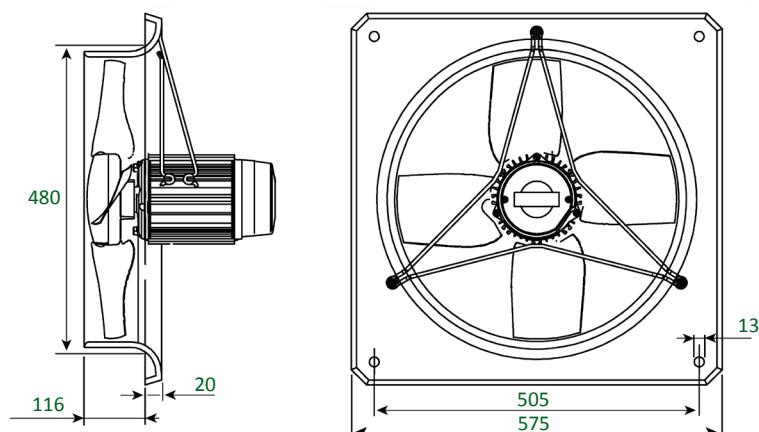
Panel fan support : • DRVP4512

Tube fan support : • -

Wireguard : • ROEMI450

Frame / Panel : • PLVR1451G1

### Panel fan dimensions (mm)



Group Ø : 50 cm

Fan type: 6S50

WLV 6 / 500

U : 1~ 230V 50 Hz

P<sub>in</sub> : 140

I<sub>nom</sub> : 0,71

I<sub>max</sub> : 0,85

n : 900

C<sub>400V</sub> : 4

T<sub>amb <</sub> : 40

42

W

A

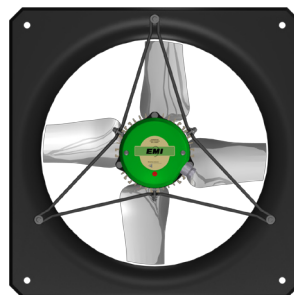
A

rpm

μF

C°

dB(A)



### Characteristics

Pa max : 40 Pa

0 Pa : 5.300 m<sup>3</sup>/h

10 Pa : 4.900 m<sup>3</sup>/h

20 Pa : 4.550 m<sup>3</sup>/h

30 Pa : 4.200 m<sup>3</sup>/h

40 Pa : m<sup>3</sup>/h

50 Pa : m<sup>3</sup>/h

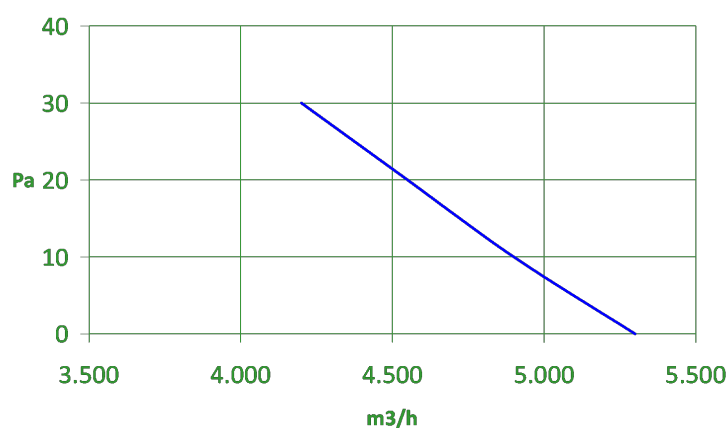
70 Pa : m<sup>3</sup>/h

100 Pa : m<sup>3</sup>/h

150 Pa : m<sup>3</sup>/h

200 Pa : m<sup>3</sup>/h

Watt / 1000m<sup>3</sup> / h : 28,4 W



### Control options

Triac controller : yes

Transformer : yes

Frequency drive : yes

### Fan details

Impeller Ø : 493 mm

Impeller blades : 4

### Part numbers / Ordering codes:

Panel fan : • V6S5000E10100

Panel fan with wireguard : • V6S5000E11100

Tube fan : • -

Motor : • M6S5000E10100

Impeller : • W493Y4S21L16AS1

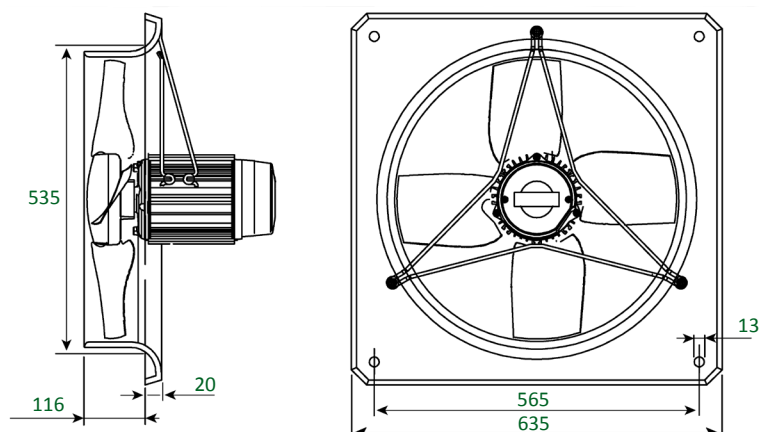
Panel fan support : • DRV5007

Tube fan support : • -

Wireguard : • ROEMI500

Frame / Panel : • PLVR1501G1

### Panel fan dimensions (mm)



Group Ø : 63 cm

Fan type: 6S63

WLV 6 / 630

U : 1~ 230V 50 Hz

P<sub>in</sub> : 530

I<sub>nom</sub> : 2,8

I<sub>max</sub> : 3,4

n : 900

C<sub>400V</sub> : 16

T<sub>amb <</sub> : 40

57

W

A

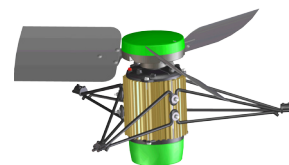
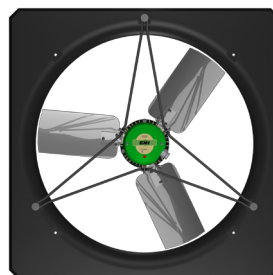
A

rpm

µF

C°

dB(A)



## Characteristics

Pa max : 70 Pa

0 Pa : 12.000 m³/h

10 Pa : 11.550 m³/h

20 Pa : 11.100 m³/h

30 Pa : 10.600 m³/h

40 Pa : 10.100 m³/h

50 Pa : 9.550 m³/h

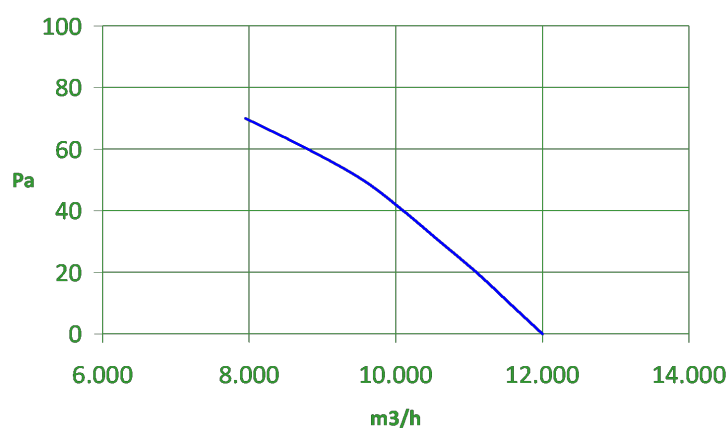
70 Pa : 7.950 m³/h

100 Pa : m³/h

150 Pa : m³/h

200 Pa : m³/h

Watt / 1000m³ / h : 44,2 W



## Control options

Triac controller : yes

Transformer : yes

Frequency drive : yes

## Fan details

Impeller Ø : 620 mm

Impeller blades : 3

## Part numbers / Ordering codes:

Panel fan : • V6S6300E10100

Panel fan with wireguard : • V6S6300E11100

Tube fan : • P6S6302E11100

Motor : • M6S6300E10100

Impeller : • W620Y3S22L16AS2

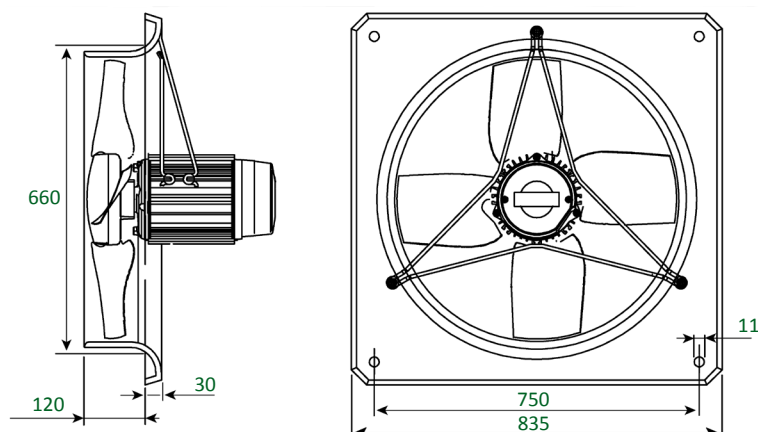
Panel fan support : • DRVP6308

Tube fan support : • DRVP6309

Wireguard : • ROEMI560630

Frame / Panel : • PLVR1601G1

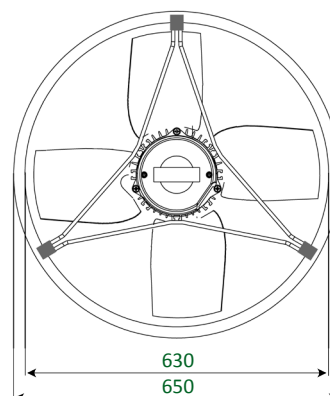
## Panel fan dimensions (mm)



## Tube fan dimensions (mm)

Minimum tube inside Ø : 630 mm

Maximum tube inside Ø : 650 mm





Group Ø : **71 cm**

Fan type: **6S71**

**WLV 6 / 710**

U : **1~ 230V 50 Hz**

P<sub>in</sub> : **490**

I<sub>nom</sub> : **2,7**

I<sub>max</sub> : **3,3**

n : **900**

C<sub>400V</sub> : **16**

T<sub>amb <</sub> : **40**

**63**

W

A

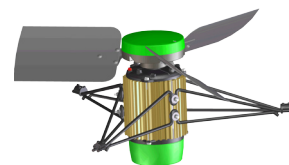
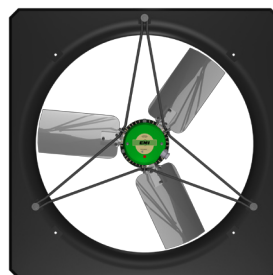
A

rpm

µF

C°

dB(A)



## Characteristics

Pa max : **70** Pa

0 Pa : **13.800** m<sup>3</sup>/h

10 Pa : **13.100** m<sup>3</sup>/h

20 Pa : **12.450** m<sup>3</sup>/h

30 Pa : **11.800** m<sup>3</sup>/h

40 Pa : **11.150** m<sup>3</sup>/h

50 Pa : **10.550** m<sup>3</sup>/h

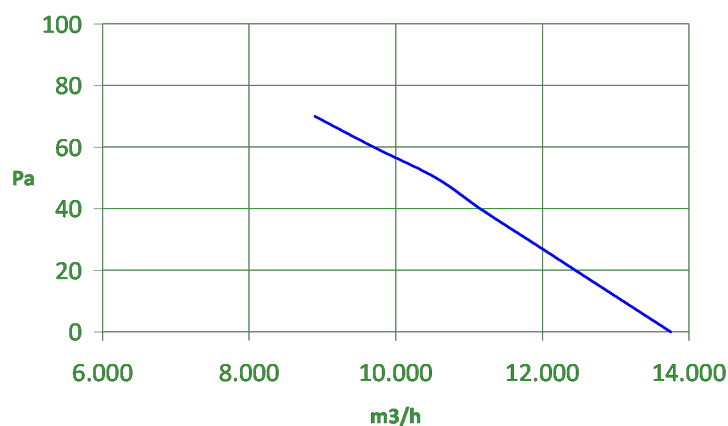
70 Pa : **8.900** m<sup>3</sup>/h

100 Pa : m<sup>3</sup>/h

150 Pa : m<sup>3</sup>/h

200 Pa : m<sup>3</sup>/h

Watt / 1000m<sup>3</sup> / h : **35,5** W



## Control options

Triac controller : **yes**

Transformer : **yes**

Frequency drive : **yes**

## Fan details

Impeller Ø : **700** mm

Impeller blades : **3**

## Part numbers / Ordering codes:

Panel fan : • **V6S7100E10100**

Panel fan with wireguard : • **V6S7100E11100**

Tube fan : • **P6S7100E11200**

Motor : • **M6S7100E10100**

Impeller : • **W700Y3S22L16AS2**

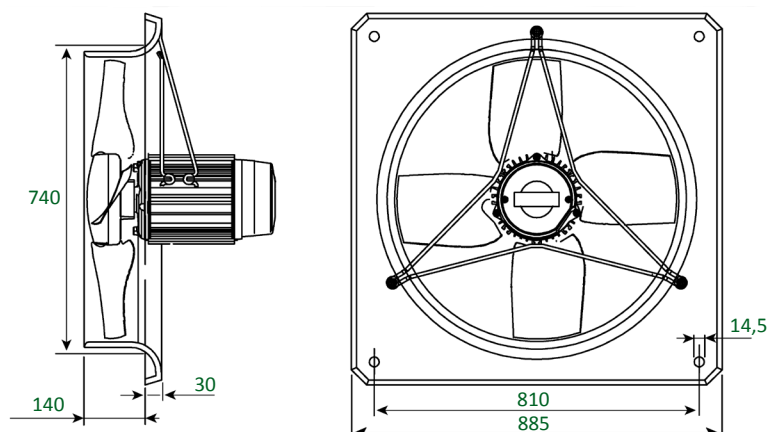
Panel fan support : • **DRVP7107**

Tube fan support : • **DRVP7108**

Wireguard : • **ROEMI710**

Frame / Panel : • **PLVR1711G1**

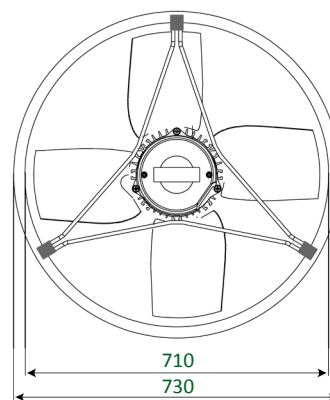
## Panel fan dimensions (mm)



## Tube fan dimensions (mm)

Minimum tube inside Ø : **710** mm

Maximum tube inside Ø : **730** mm



Group Ø : 30 cm

Fan type: 4T30

DLV 4 / 300

U : 3~ 230V Δ / 400V Y 50 Hz

P<sub>in</sub> : 85 W  
I<sub>nom</sub> : 0,34 Δ / 0,21 Y A  
I<sub>max</sub> : 0,4 Δ / 0,2 Y A  
n : 1400 rpm

T<sub>amb <</sub> : 40 °C  
48 dB(A)

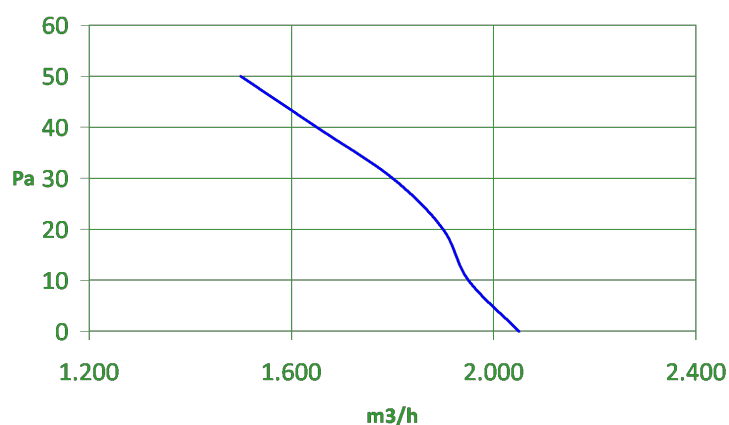


### Characteristics

Pa max : 50 Pa

0 Pa	: 2.050	m³/h
10 Pa	: 1.950	m³/h
20 Pa	: 1.900	m³/h
30 Pa	: 1.800	m³/h
40 Pa	: 1.650	m³/h
50 Pa	: 1.500	m³/h
70 Pa	:	m³/h
100 Pa	:	m³/h
150 Pa	:	m³/h
200 Pa	:	m³/h

Watt / 1000m³ / h : 40,5 W



### Fan details

Impeller Ø : 293 mm  
Impeller blades : 4

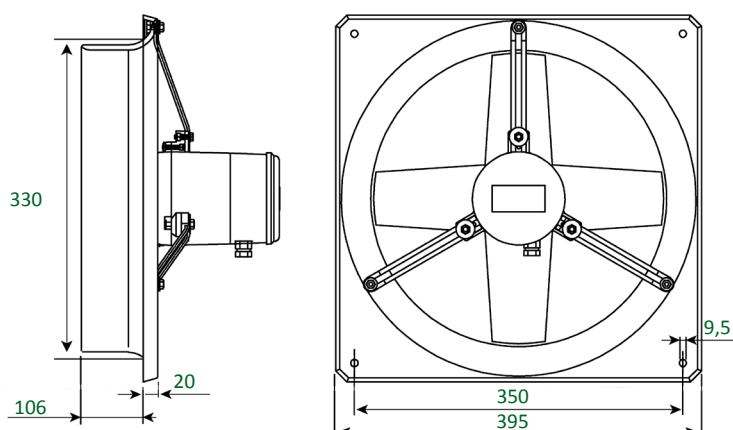
### Control options

Triac controller : no  
Transformer : yes  
Frequency drive : yes

### Part numbers / ordering codes :

Panel fan	: • V4T3000E10100
Panel fan with wireguard	: • V4T3000E11100
Tube fan	: • -
Motor	: • M4T3000E10100
Impeller	: • W293Y4S21L12AS1
Panel fan support	: • DRVP3009
Tube fan support	: • -
Wireguard	: • ROEMI300
Frame / Panel	: • PLVR1308G1

### Dimensions panel fan (mm)



Group Ø : 35 cm

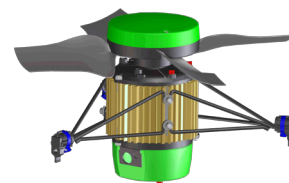
Fan type: 4T35

DLV 4 / 350

U : 3~ 230V Δ / 400V Y 50 Hz

P<sub>in</sub> : 140 W  
I<sub>nom</sub> : 0,5 Δ / 0,3 Y A  
I<sub>max</sub> : 0,6 Δ / 0,4 Y A  
n : 1400 rpm

T<sub>amb <</sub> : 40 C°  
49 dB(A)

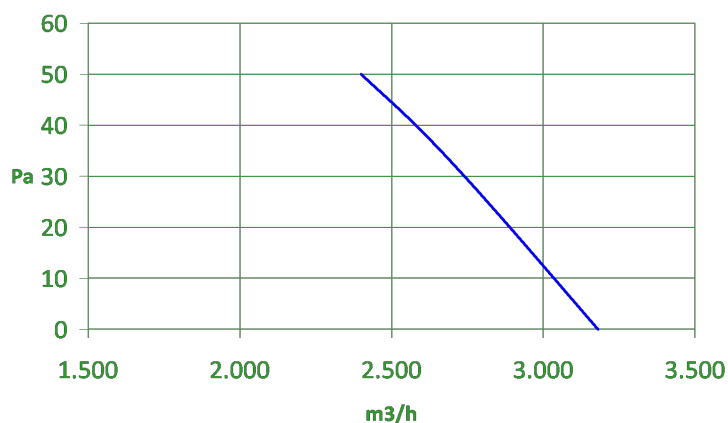


### Characteristics

Pa max : 50 Pa

0 Pa : 3.200 m³/h  
10 Pa : 3.035 m³/h  
20 Pa : 2.890 m³/h  
30 Pa : 2.750 m³/h  
40 Pa : 2.580 m³/h  
50 Pa : 2.400 m³/h  
70 Pa : m³/h  
100 Pa : m³/h  
150 Pa : m³/h  
200 Pa : m³/h

Watt / 1000m³ / h : 43,8 W



### Fan details

Impeller Ø : 343 mm  
Impeller blades : 4

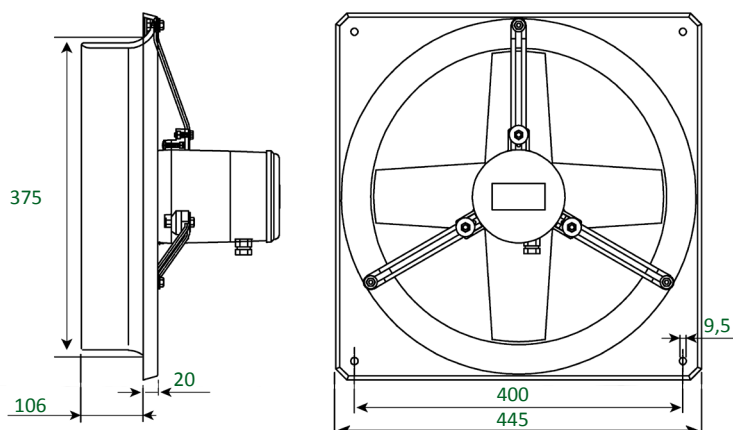
### Control options

Triac controller : no  
Transformer : yes  
Frequency drive : yes

### Part numbers / ordering codes :

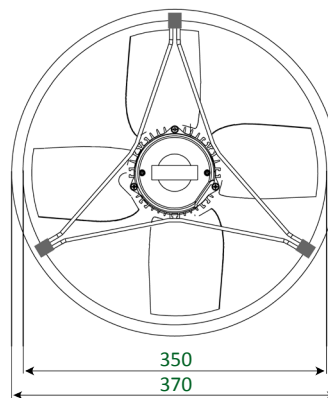
Panel fan : • V4T3500E10100  
Panel fan with wireguard : • V4T3500E11100  
Tube fan : • P4T3500E11100  
  
Motor : • M4T3500E10100  
Impeller : • W343Y4S21L12AS1  
Panel fan support : • DRVP3513  
Tube fan support : • DRVP3503  
Wireguard : • ROEMI350  
Frame / Panel : • PLVR1359G1

### Dimensions panel fan (mm)



### Tube fan dimensions (mm)

Minimum tube inside Ø : 350 mm  
Maximum tube inside Ø : 370 mm



Group Ø : **40 cm**

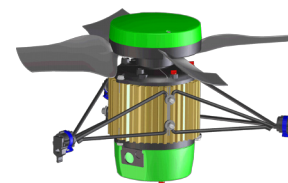
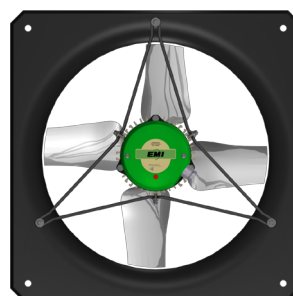
Fan type: **4T40**

**DLV 4 / 400**

U : 3~ 230V Δ / 400V Y 50 Hz

P<sub>in</sub> : 220 W  
I<sub>nom</sub> : 1,0 Δ / 0,6 Y A  
I<sub>max</sub> : 1,1 Δ / 0,7 Y A  
n : 1400 rpm

T<sub>amb <</sub> : 40 C°  
52 dB(A)

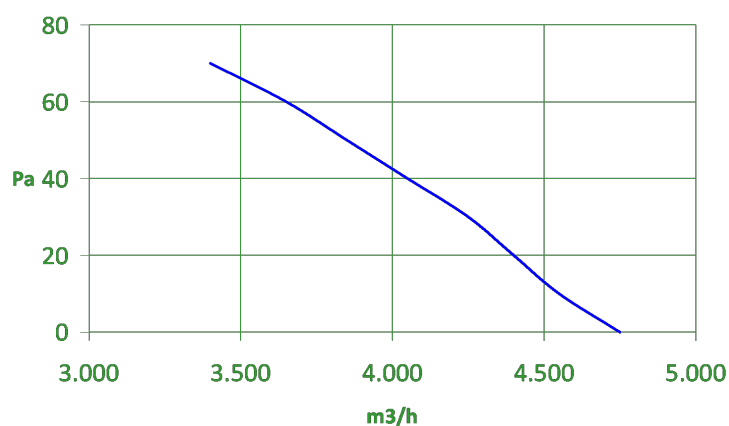


### Characteristics

Pa max : 70 Pa

0 Pa	: 4.750	m³/h
10 Pa	: 4.550	m³/h
20 Pa	: 4.400	m³/h
30 Pa	: 4.250	m³/h
40 Pa	: 4.050	m³/h
50 Pa	: 3.850	m³/h
70 Pa	: 3.400	m³/h
100 Pa	:	m³/h
150 Pa	:	m³/h
200 Pa	:	m³/h

Watt / 1000m³ / h : 45,5 W



### Fan details

Impeller Ø : 393 mm  
Impeller blades : 4

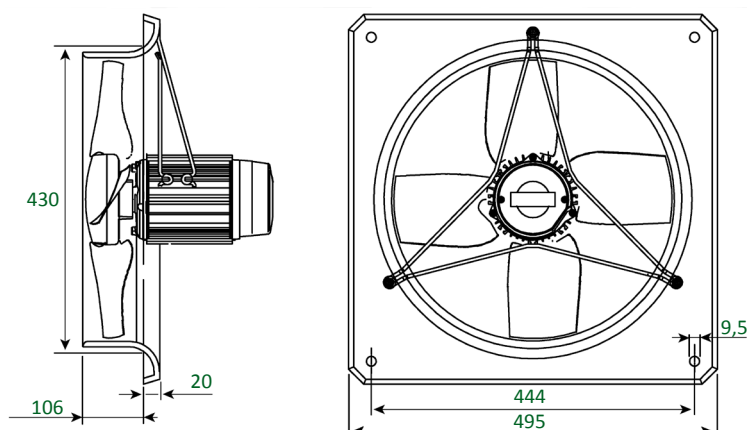
### Control options

Triac controller : no  
Transformer : yes  
Frequency drive : yes

### Part numbers / ordering codes :

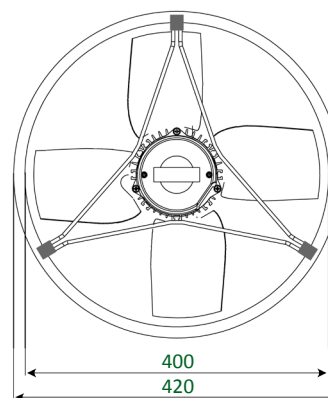
Panel fan	: • V4T4000E10100
Panel fan with wireguard	: • V4T4000E11100
Tube fan	: • P4T4000E11100
Motor	: • M4T4000E10100
Impeller	: • W393Y4S21L12AS2
Panel fan support	: • DRVP4012
Tube fan support	: • DRVP4014
Wireguard	: • ROEMI400
Frame / Panel	: • PLVR1402G1

### Dimensions panel fan (mm)



### Tube fan dimensions (mm)

Minimum tube inside Ø : 400 mm  
Maximum tube inside Ø : 420 mm



Group Ø : 45 cm

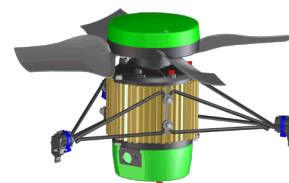
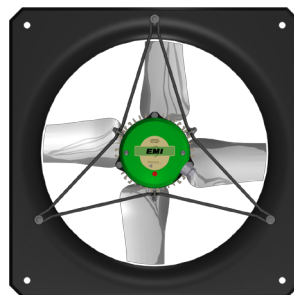
Fan type: 4T45

DLV 4 / 450

U : 3~ 230V Δ / 400V Y 50 Hz

P<sub>in</sub> : 300 W  
I<sub>nom</sub> : 1,2 Δ / 0,7 Y A  
I<sub>max</sub> : 1,3 Δ / 0,8 Y A  
n : 1400 rpm

T<sub>amb <</sub> : 40 C°  
54 dB(A)

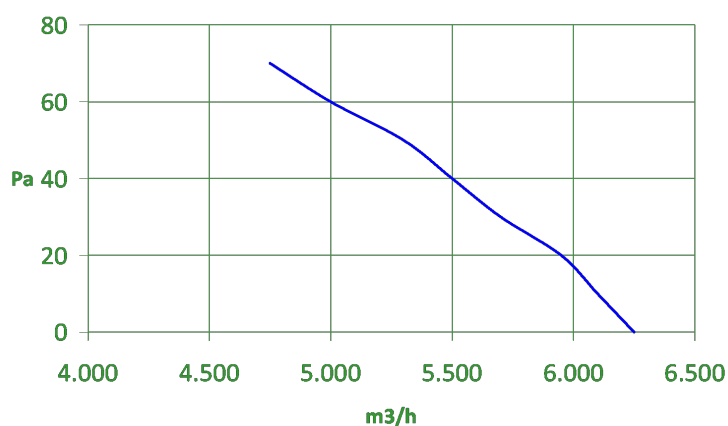


### Characteristics

Pa max : 70 Pa

0 Pa	: 6.250	m³/h
10 Pa	: 6.100	m³/h
20 Pa	: 5.950	m³/h
30 Pa	: 5.700	m³/h
40 Pa	: 5.500	m³/h
50 Pa	: 5.300	m³/h
70 Pa	: 4.750	m³/h
100 Pa	:	m³/h
150 Pa	:	m³/h
200 Pa	:	m³/h

Watt / 1000m³ / h : 47,3 W



### Fan details

Impeller Ø : 443 mm  
Impeller blades : 4

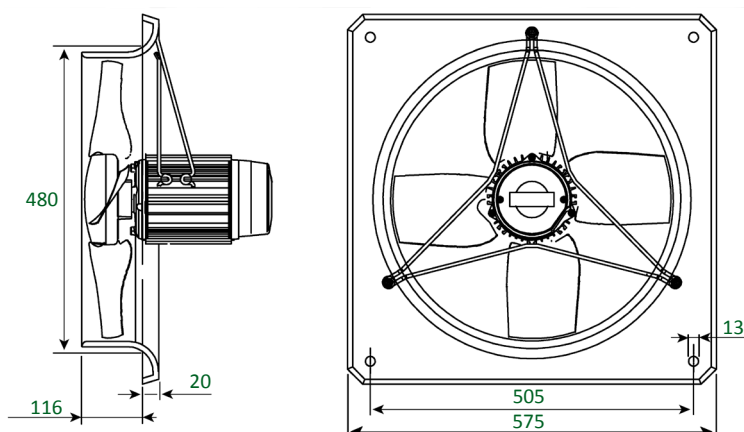
### Control options

Triac controller : no  
Transformer : yes  
Frequency drive : yes

### Part numbers / ordering codes :

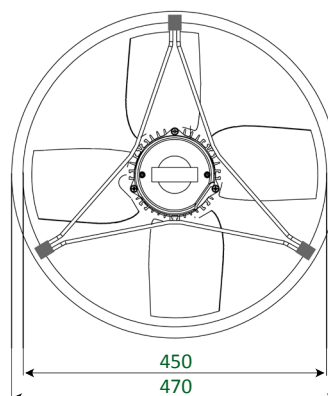
Panel fan	: • V4T4500E10100
Panel fan with wireguard	: • V4T4500E11100
Tube fan	: • P4T4500E11100
Motor	: • M4T4500E10100
Impeller	: • W443Y4S21L12AS1
Panel fan support	: • DRVP4512
Tube fan support	: • DRVP4514
Wireguard	: • ROEMI450
Frame / Panel	: • PLVR1451G1

### Dimensions panel fan (mm)



### Tube fan dimensions (mm)

Minimum tube inside Ø : 450 mm  
Maximum tube inside Ø : 470 mm



Group Ø : 50 cm

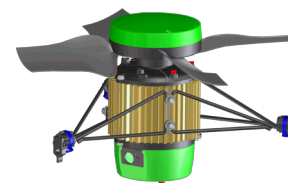
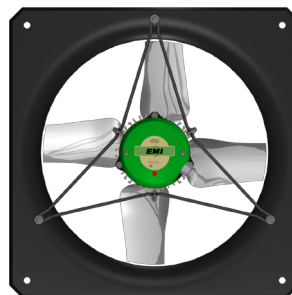
Fan type: 4T50

DLV 4 / 500

U : 3~ 230V Δ / 400V Y 50 Hz

P<sub>in</sub> : 405 W  
I<sub>nom</sub> : 1,9 Δ / 1,1 Y A  
I<sub>max</sub> : 2,1 Δ / 1,2 Y A  
n : 1400 rpm

T<sub>amb <</sub> : 40 °C  
56 dB(A)

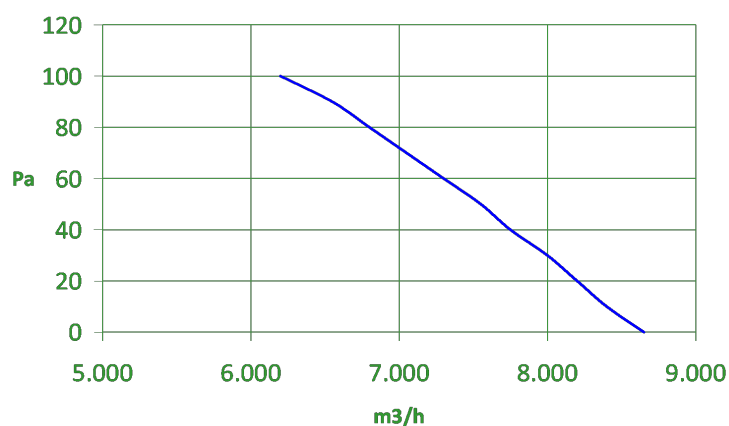


### Characteristics

Pa max : 100 Pa

0 Pa : 8.650 m³/h  
10 Pa : 8.400 m³/h  
20 Pa : 8.200 m³/h  
30 Pa : 8.000 m³/h  
40 Pa : 7.750 m³/h  
50 Pa : 7.550 m³/h  
70 Pa : 7.050 m³/h  
100 Pa : 6.200 m³/h  
150 Pa : m³/h  
200 Pa : m³/h

Watt / 1000m³ / h : 46,6 W



### Fan details

Impeller Ø : 493 mm  
Impeller blades : 4

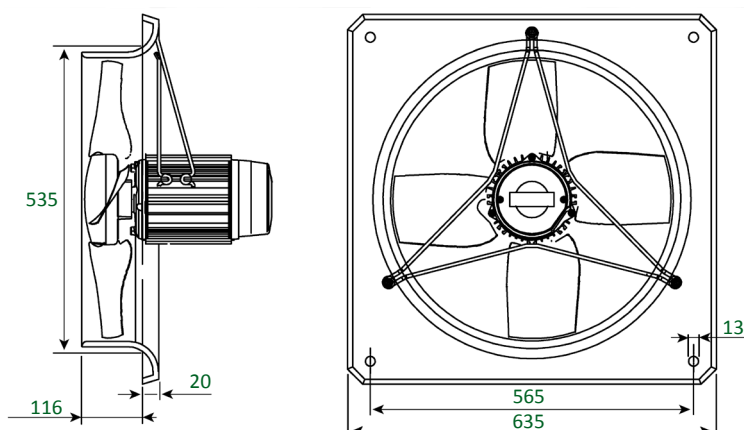
### Control options

Triac controller : no  
Transformer : yes  
Frequency drive : yes

### Part numbers / ordering codes :

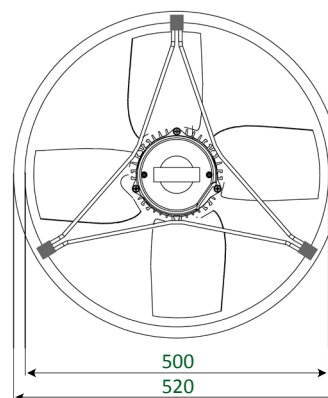
Panel fan : • V4T5000E10100  
Panel fan with wireguard : • V4T5000E11100  
Tube fan : • P4T5000E11100  
  
Motor : • M4T5000E10100  
Impeller : • W493Y4S21L16AS1  
Panel fan support : • DRVP5007  
Tube fan support : • DRVP5009  
Wireguard : • ROEMI500  
Frame / Panel : • PLVR1501G1

### Dimensions panel fan (mm)



### Tube fan dimensions (mm)

Minimum tube inside Ø : 500 mm  
Maximum tube inside Ø : 520 mm



Group Ø : 50 cm

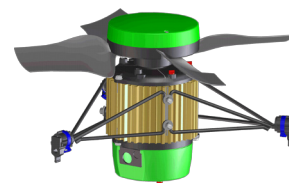
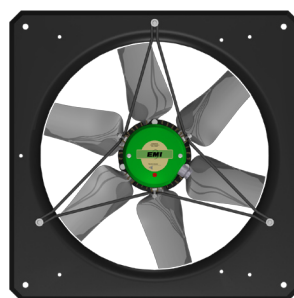
Fan type: 4T50T

DLV 4 / 500-T

U : 3~ 230V Δ / 400V Y 50 Hz

P<sub>in</sub> : 850 W  
I<sub>nom</sub> : 2,9 Δ / 1,7 Y A  
I<sub>max</sub> : 3,2 Δ / 1,9 Y A  
n : 1400 rpm

T<sub>amb <</sub> : 40 C°  
61 dB(A)

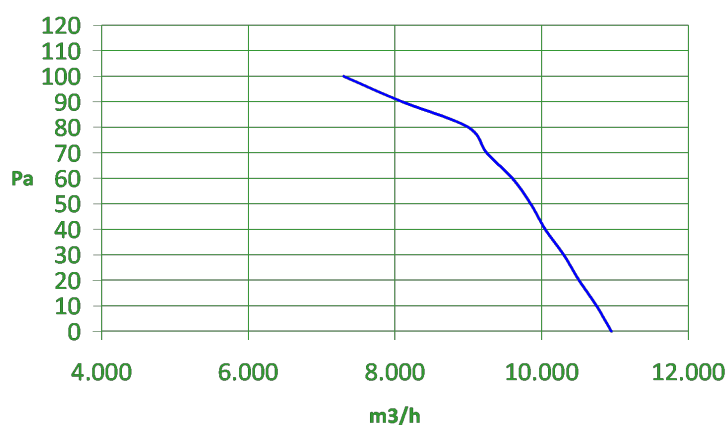


### Characteristics

Pa max : 100 Pa

0 Pa : 10.950 m³/h  
10 Pa : 10.750 m³/h  
20 Pa : 10.500 m³/h  
30 Pa : 10.300 m³/h  
40 Pa : 10.050 m³/h  
50 Pa : 9.850 m³/h  
70 Pa : 9.250 m³/h  
100 Pa : 7.250 m³/h  
150 Pa : m³/h  
200 Pa : m³/h

Watt / 1000m³ / h : 77,3 W



### Fan details

Impeller Ø : 493 mm  
Impeller blades : 6

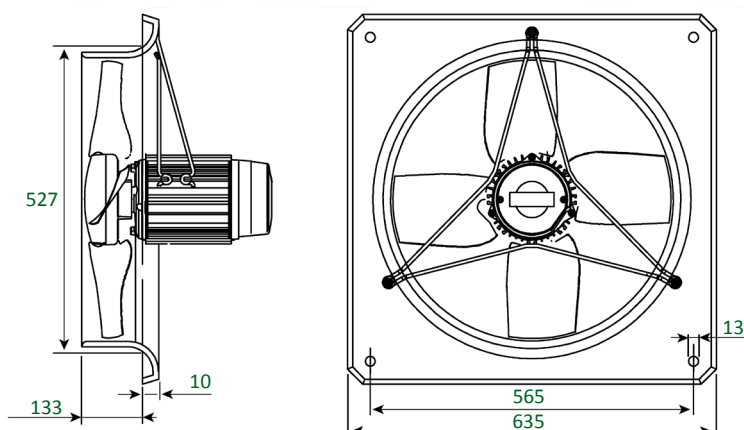
### Control options

Triac controller : no  
Transformer : yes  
Frequency drive : yes

### Part numbers / ordering codes :

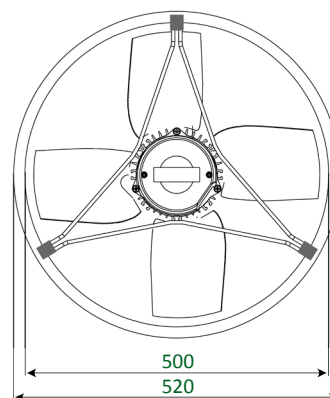
Panel fan : • V4T5006E10100  
Panel fan with wireguard : • V4T5006E11100  
Tube fan : • P4T5006E11100  
  
Motor : • M4T5006E10100  
Impeller : • W493Y6S21L16AS2  
Panel fan support : • DRVP5007  
Tube fan support : • DRVP5009  
Wireguard : • ROEMI500  
Frame / Panel : • PLVR1502G1

### Dimensions panel fan (mm)



### Tube fan dimensions (mm)

Minimum tube inside Ø : 500 mm  
Maximum tube inside Ø : 520 mm





Group Ø : 56 cm

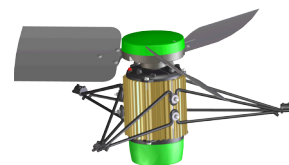
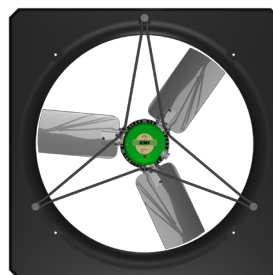
Fan type: 4T56

DLV 4 / 560

U : 3~ 230V Δ / 400V Y 50 Hz

P<sub>in</sub> : 670 W  
I<sub>nom</sub> : 2,4 Δ / 1,4 Y A  
I<sub>max</sub> : 2,4 Δ / 1,4 Y A  
n : 1400 rpm

T<sub>amb <</sub> : 40 C°  
65 dB(A)

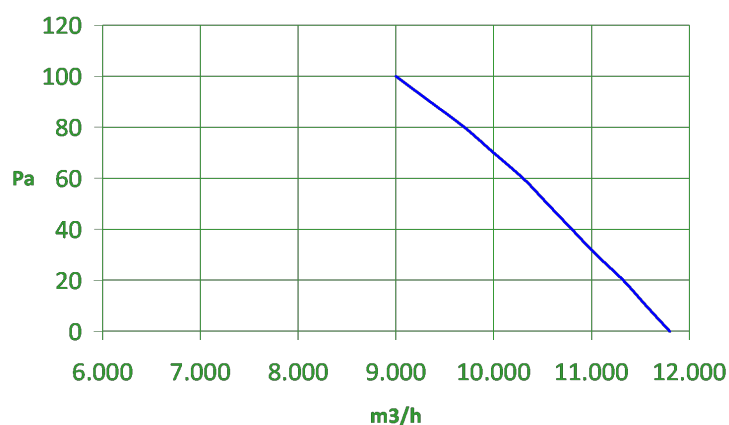


### Characteristics

Pa max : 100 Pa

0 Pa : 11.800 m³/h  
10 Pa : 11.500 m³/h  
20 Pa : 11.350 m³/h  
30 Pa : 11.050 m³/h  
40 Pa : 10.800 m³/h  
50 Pa : 10.550 m³/h  
70 Pa : 10.000 m³/h  
100 Pa : 9.000 m³/h  
150 Pa : m³/h  
200 Pa : m³/h

Watt / 1000m³ / h : 56,8 W



### Fan details

Impeller Ø : 552 mm  
Impeller blades : 3

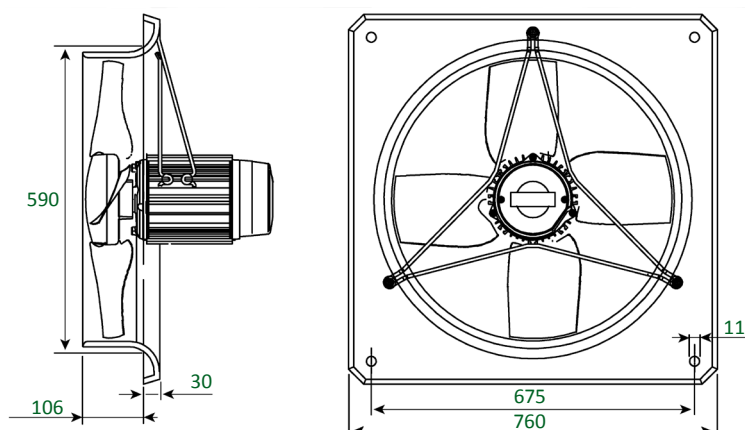
### Control options

Triac controller : no  
Transformer : yes  
Frequency drive : yes

### Part numbers / ordering codes :

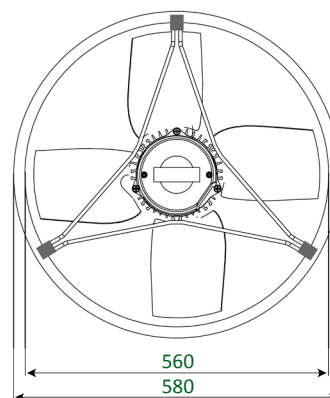
Panel fan : • V4T5600E10100  
Panel fan with wireguard : • V4T5600E11100  
Tube fan : • P4T5600E11100  
  
Motor : • M4T5600E10100  
Impeller : • W552Y3S22L16AS3  
Panel fan support : • DRVP5604  
Tube fan support : • DRVP5605  
Wireguard : • ROEMI560630  
Frame / Panel : • PLVR1561G1

### Dimensions panel fan (mm)



### Tube fan dimensions (mm)

Minimum tube inside Ø : 560 mm  
Maximum tube inside Ø : 580 mm





Group Ø : 63 cm

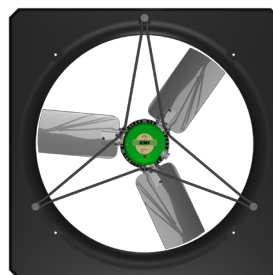
Fan type: 4T63

DLV 4 / 630

U : 3~ 230V Δ / 400V Y 50 Hz

P<sub>in</sub> : 735 W  
I<sub>nom</sub> : 2,9 Δ / 1,7 Y A  
I<sub>max</sub> : 3,2 Δ / 1,9 Y A  
n : 1400 rpm

T<sub>amb <</sub> : 40 C°  
67 dB(A)

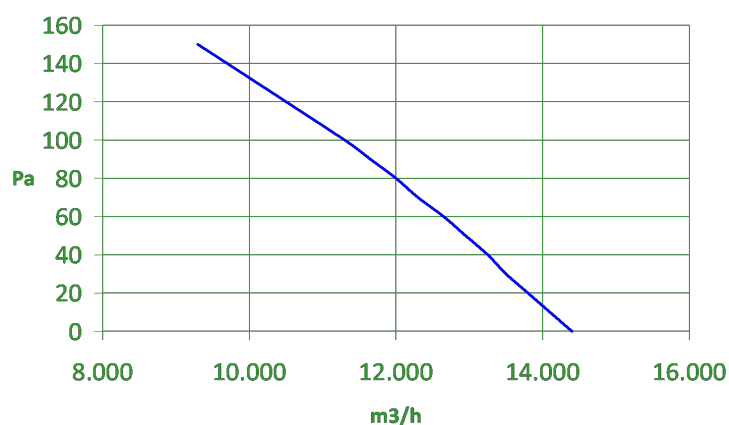


### Characteristics

Pa max : 150 Pa

0 Pa : 14.400 m³/h  
10 Pa : 14.100 m³/h  
20 Pa : 13.800 m³/h  
30 Pa : 13.500 m³/h  
40 Pa : 13.250 m³/h  
50 Pa : 12.950 m³/h  
70 Pa : 12.300 m³/h  
100 Pa : 11.300 m³/h  
150 Pa : 9.300 m³/h  
200 Pa : m³/h

Watt / 1000m³ / h : 51,1 W



### Fan details

Impeller Ø : 620 mm  
Impeller blades : 3

### Control options

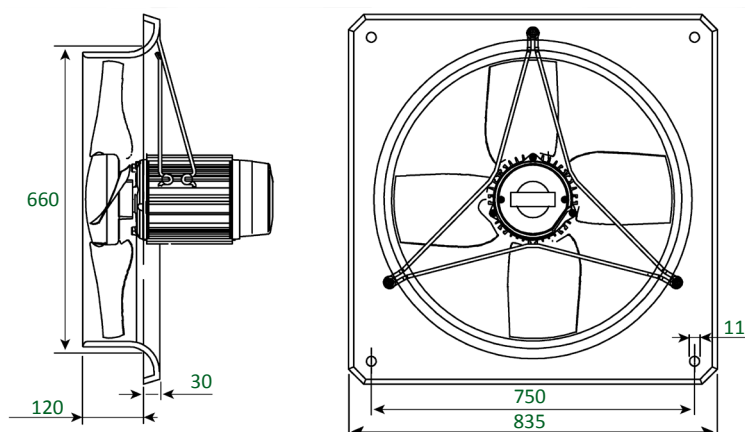
Triac controller : no  
Transformer : no  
Frequency drive : yes

### Part numbers / ordering codes :

Panel fan : • V4T6300E10100  
Panel fan with wireguard : • V4T6300E11100  
Tube fan : • -

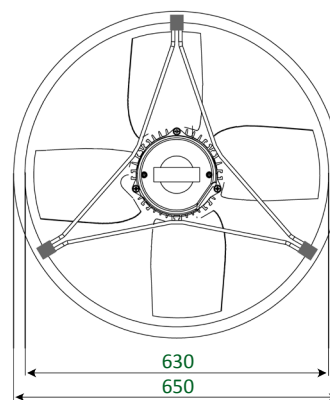
Motor : • M4T6300E10100  
Impeller : • W620Y3S22L16AS3  
Panel fan support : • DRVP6308  
Tube fan support : • DRVP6309  
Wireguard : • ROEMI560630  
Frame / Panel : • PLVR1601G1

### Dimensions panel fan (mm)



### Tube fan dimensions (mm)

Minimum tube inside Ø : 630 mm  
Maximum tube inside Ø : 650 mm



Group Ø : 63 cm

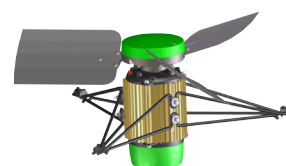
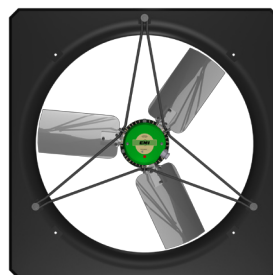
Fan type: 6T63

DLV 6 / 630

U : 3~ 230V Δ / 400V Y 50 Hz

P<sub>in</sub> : 475 W  
I<sub>nom</sub> : 2,2 Δ / 1,3 Y A  
I<sub>max</sub> : 2,4 Δ / 1,4 Y A  
n : 900 rpm

T<sub>amb <</sub> : 40 °C  
57 dB(A)

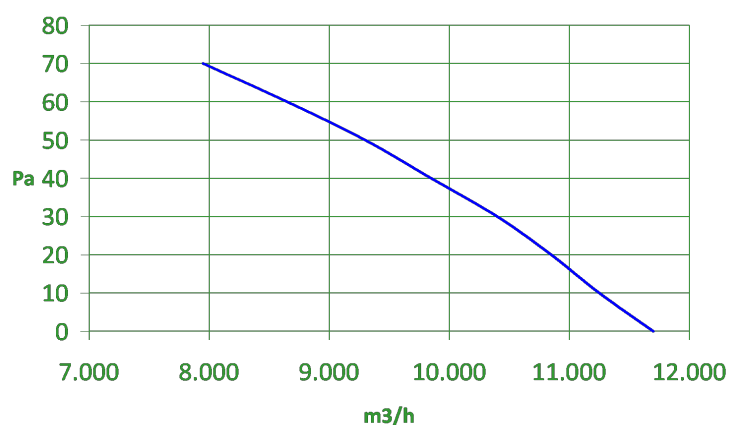


### Characteristics

Pa max : 70 Pa

0 Pa : 11.700 m³/h  
10 Pa : 11.250 m³/h  
20 Pa : 10.850 m³/h  
30 Pa : 10.400 m³/h  
40 Pa : 9.850 m³/h  
50 Pa : 9.300 m³/h  
70 Pa : 7.950 m³/h  
100 Pa : m³/h  
150 Pa : m³/h  
200 Pa : m³/h

Watt / 1000m³ / h : 40,4 W



### Fan details

Impeller Ø : 620 mm  
Impeller blades : 3

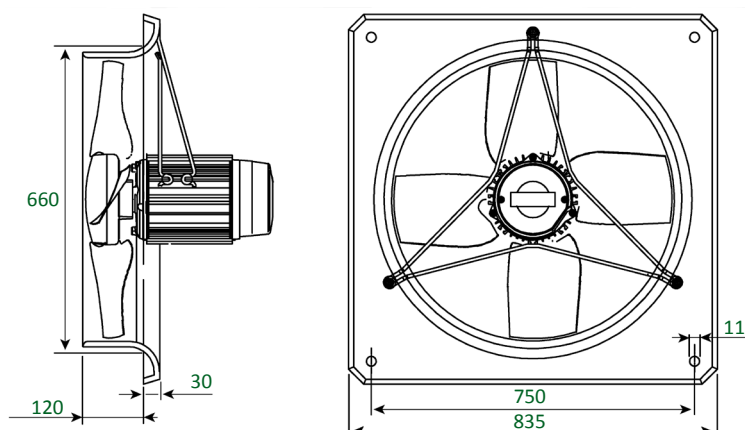
### Control options

Triac controller : no  
Transformer : yes  
Frequency drive : yes

### Part numbers / ordering codes :

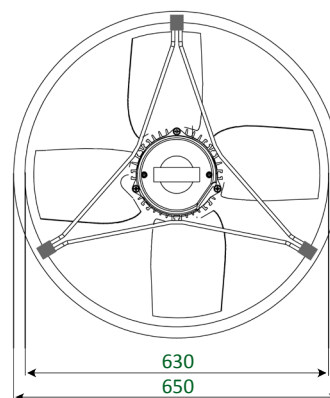
Panel fan : • V6T6300E10100  
Panel fan with wireguard : • V6T6300E11100  
Tube fan : • P6T6302E11100  
  
Motor : • M6T6302E10100  
Impeller : • W620Y3S22L16AS2  
Panel fan support : • DRVP6308  
Tube fan support : • DRVP6309  
Wireguard : • ROEMI560630  
Frame / Panel : • PLVR1601G1

### Dimensions panel fan (mm)



### Tube fan dimensions (mm)

Minimum tube inside Ø : 630 mm  
Maximum tube inside Ø : 650 mm



Group Ø : **71 cm**

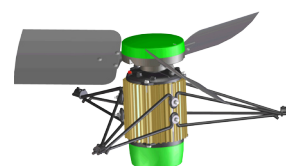
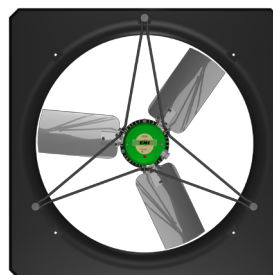
Fan type: **6T71**

**DLV 6 / 710**

U : 3~ 230V Δ / 400V Y 50 Hz

P<sub>in</sub> : **465** W  
I<sub>nom</sub> : **2,2 Δ / 1,3 Y** A  
I<sub>max</sub> : **2,4 Δ / 1,4 Y** A  
n : **900** rpm

T<sub>amb <</sub> : **40** °C  
**60** dB(A)

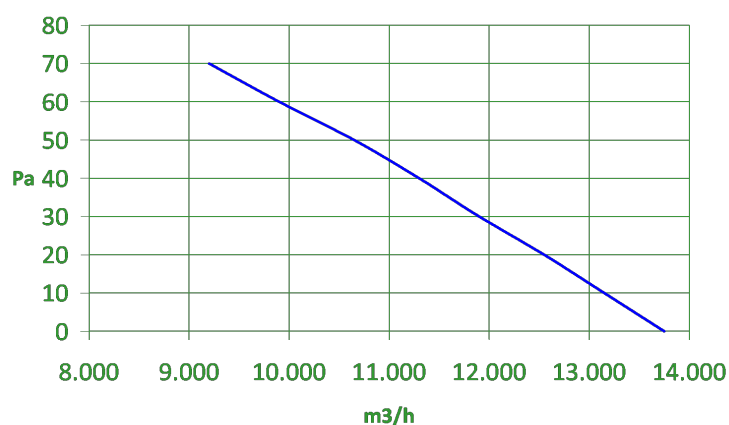


### Characteristics

Pa max : **70** Pa

0 Pa : **13.750** m<sup>3</sup>/h  
10 Pa : **13.150** m<sup>3</sup>/h  
20 Pa : **12.550** m<sup>3</sup>/h  
30 Pa : **11.900** m<sup>3</sup>/h  
40 Pa : **11.300** m<sup>3</sup>/h  
50 Pa : **10.650** m<sup>3</sup>/h  
70 Pa : **9.200** m<sup>3</sup>/h  
100 Pa : m<sup>3</sup>/h  
150 Pa : m<sup>3</sup>/h  
200 Pa : m<sup>3</sup>/h

Watt / 1000m<sup>3</sup> / h : **33,7** W



### Fan details

Impeller Ø : **700** mm  
Impeller blades : **3**

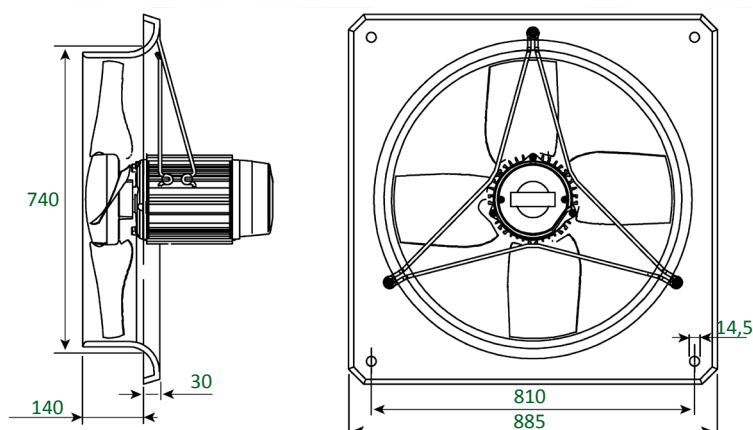
### Control options

Triac controller : **no**  
Transformer : **yes**  
Frequency drive : **yes**

### Part numbers / ordering codes :

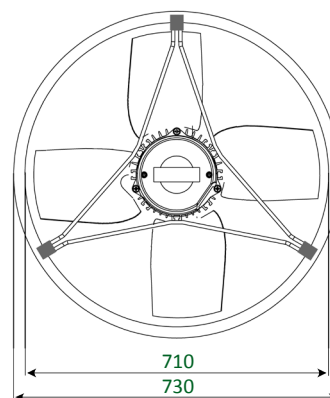
Panel fan : • **V6T7100E10200**  
Panel fan with wireguard : • **V6T7100E11200**  
Tube fan : • **P6T7100E11200**  
  
Motor : • **M6T7100E10100**  
Impeller : • **W700Y3S22L16AS2**  
Panel fan support : • **DRVP7107**  
Tube fan support : • **DRVP7108**  
Wireguard : • **ROEMI710**  
Frame / Panel : • **PLVR1711G1**

### Dimensions panel fan (mm)



### Tube fan dimensions (mm)

Minimum tube inside Ø : **710** mm  
Maximum tube inside Ø : **730** mm



Group Ø : **71 cm**

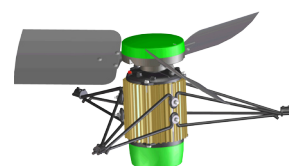
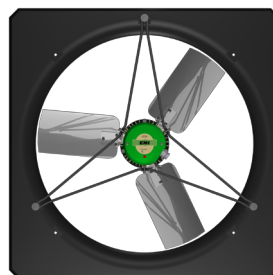
Fan type: **6T71T**

**DLV 6 / 710-T**

U : 3~ 230V Δ / 400V Y 50 Hz

P<sub>in</sub> : **750** W  
I<sub>nom</sub> : **3,1 Δ / 1,8 Y** A  
I<sub>max</sub> : **3,4 Δ / 2,0 Y** A  
n : **900** rpm

T<sub>amb <</sub> : **40** °C  
**61** dB(A)

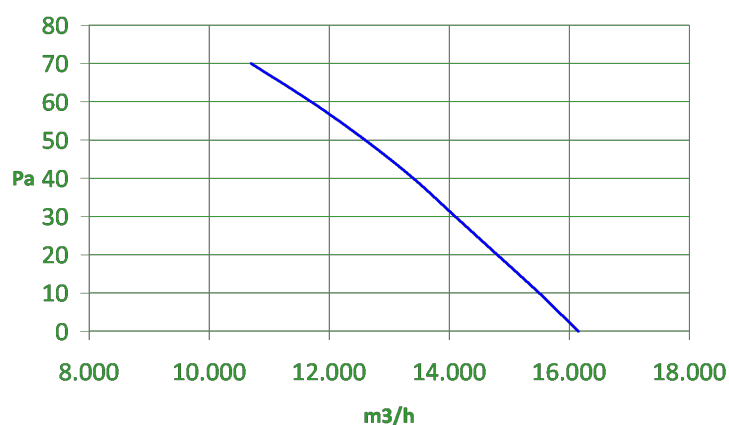


### Characteristics

Pa max : **70** Pa

0 Pa : **16.150** m<sup>3</sup>/h  
10 Pa : **15.500** m<sup>3</sup>/h  
20 Pa : **14.800** m<sup>3</sup>/h  
30 Pa : **14.100** m<sup>3</sup>/h  
40 Pa : **13.400** m<sup>3</sup>/h  
50 Pa : **12.600** m<sup>3</sup>/h  
70 Pa : **10.700** m<sup>3</sup>/h  
100 Pa : m<sup>3</sup>/h  
150 Pa : m<sup>3</sup>/h  
200 Pa : m<sup>3</sup>/h

Watt / 1000m<sup>3</sup> / h : **46,6** W



### Fan details

Impeller Ø : **700** mm  
Impeller blades : **3**

### Control options

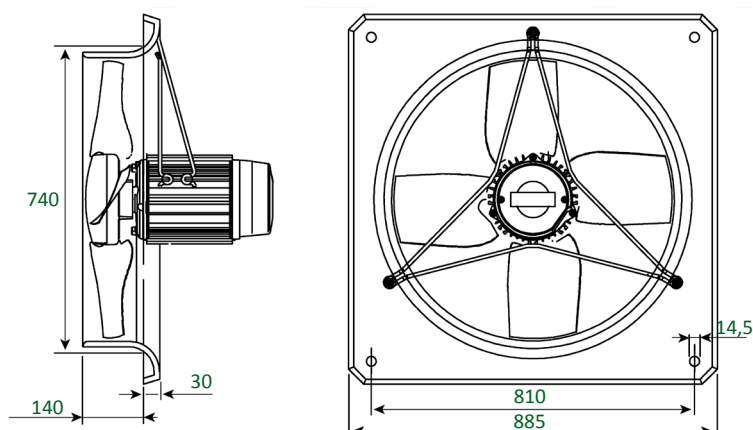
Triac controller : **no**  
Transformer : **yes**  
Frequency drive : **yes**

### Part numbers / ordering codes :

Panel fan : • **V6T7106E10200**  
Panel fan with wireguard : • **V6T7106E11200**  
Tube fan : • **P6T7106E11200**

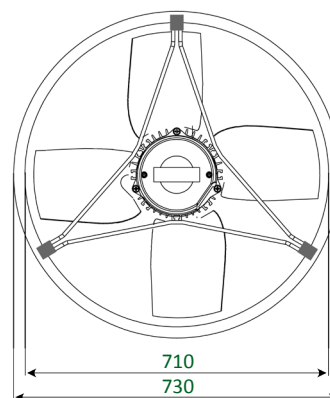
Motor : • **M6T7106E10100**  
Impeller : • **W700Y3S22L16AS1**  
Panel fan support : • **DRVP7107**  
Tube fan support : • **DRVP7108**  
Wireguard : • **ROEMI710**  
Frame / Panel : • **PLVR1711G1**

### Dimensions panel fan (mm)



### Tube fan dimensions (mm)

Minimum tube inside Ø : **710** mm  
Maximum tube inside Ø : **730** mm



Group Ø : 80 cm

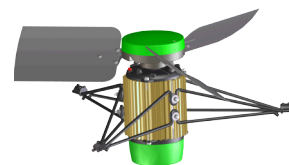
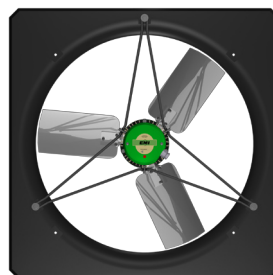
Fan type: 6T80

DLV 6 / 800

U : 3~ 230V Δ / 400V Y 50 Hz

P<sub>in</sub> : 820 W  
I<sub>nom</sub> : 3,2 Δ / 1,8 Y A  
I<sub>max</sub> : 3,6 Δ / 2,1 Y A  
n : 900 rpm

T<sub>amb <</sub> : 40 °C  
66 dB(A)

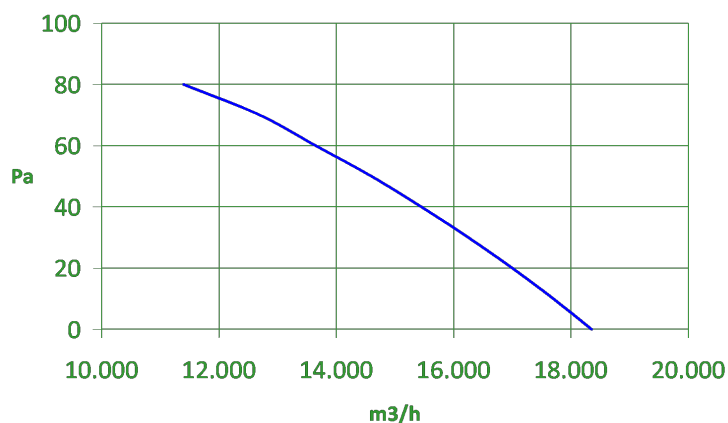


### Characteristics

Pa max : 80 Pa

0 Pa : 18.350 m³/h  
10 Pa : 17.700 m³/h  
20 Pa : 17.000 m³/h  
30 Pa : 16.250 m³/h  
40 Pa : 15.450 m³/h  
50 Pa : 14.600 m³/h  
70 Pa : 12.700 m³/h  
100 Pa : m³/h  
150 Pa : m³/h  
200 Pa : m³/h

Watt / 1000m³ / h : 44,7 W



### Fan details

Impeller Ø : 786 mm  
Impeller blades : 3

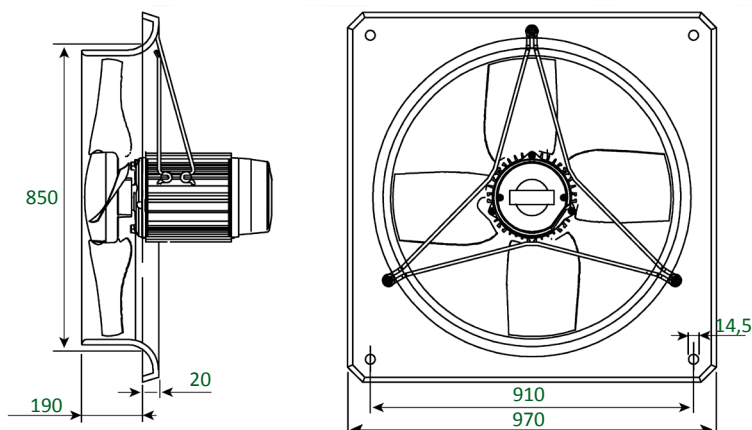
### Control options

Triac controller : no  
Transformer : yes  
Frequency drive : yes

### Part numbers / ordering codes :

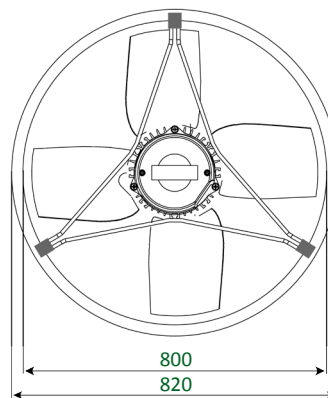
Panel fan : • V6T8000E10200  
Panel fan with wireguard : • V6T8000E11200  
Tube fan : • P6T8000E11200  
  
Motor : • M6T8000E10100  
Impeller : • W786W3S22L16AS1  
Panel fan support : • DRVP8002  
Tube fan support : • DRVP8003  
Wireguard : • -  
Frame / Panel : • PLVR1851G1

### Dimensions panel fan (mm)



### Tube fan dimensions (mm)

Minimum tube inside Ø : 800 mm  
Maximum tube inside Ø : 820 mm



Group Ø : 92 cm

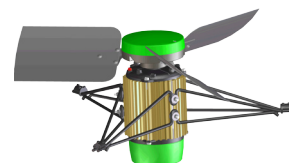
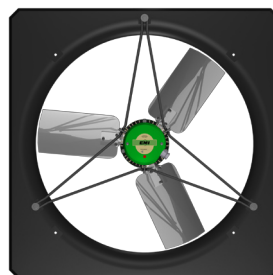
Fan type: 8T92

DLV 8 / 915

U : 3~ 230V Δ / 400V Y 50 Hz

P<sub>in</sub> : 620 W  
I<sub>nom</sub> : 4,2 Δ / 2,4 Y A  
I<sub>max</sub> : 4,6 Δ / 2,6 Y A  
n : 700 rpm

T<sub>amb <</sub> : 40 C°  
62 dB(A)

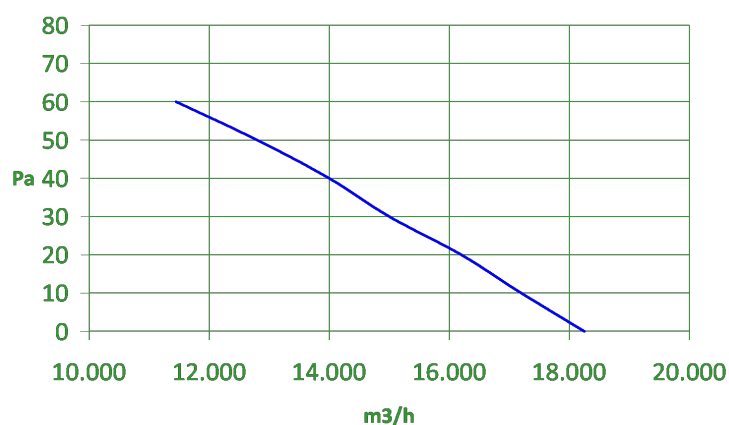


### Characteristics

Pa max : 60 Pa

0 Pa : 18.250 m³/h  
10 Pa : 17.200 m³/h  
20 Pa : 16.200 m³/h  
30 Pa : 15.000 m³/h  
40 Pa : 14.000 m³/h  
50 Pa : 12.800 m³/h  
70 Pa : m³/h  
100 Pa : m³/h  
150 Pa : m³/h  
200 Pa : m³/h

Watt / 1000m³ / h : 33,8 W



### Fan details

Impeller Ø : 902 mm  
Impeller blades : 3

### Control options

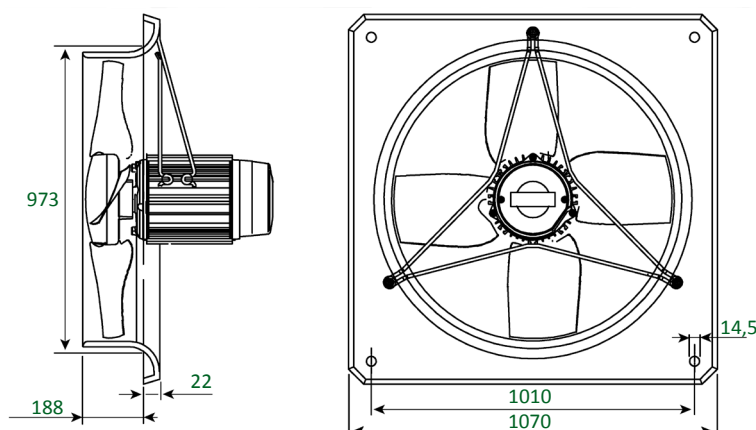
Triac controller : no  
Transformer : yes  
Frequency drive : yes

### Part numbers / ordering codes :

Panel fan : • V8T9200E10200  
Panel fan with wireguard : • V8T9200E11200  
Tube fan : • P8T9200E11200

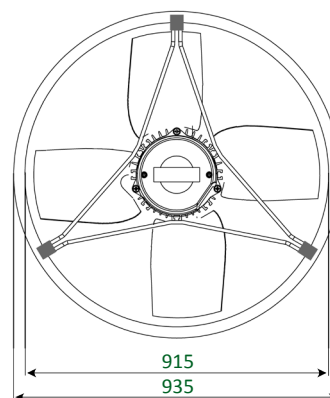
Motor : • M8T9200E10100  
Impeller : • W902W3S22L16AS2  
Panel fan support : • DRVP9206  
Tube fan support : • DRVP9205  
Wireguard : • -  
Frame / Panel : • PLVR1923G1

### Dimensions panel fan (mm)



### Tube fan dimensions (mm)

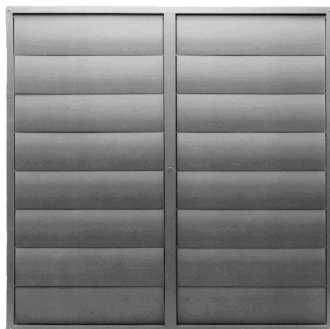
Minimum tube inside Ø : 915 mm  
Maximum tube inside Ø : 935 mm



## Accessories

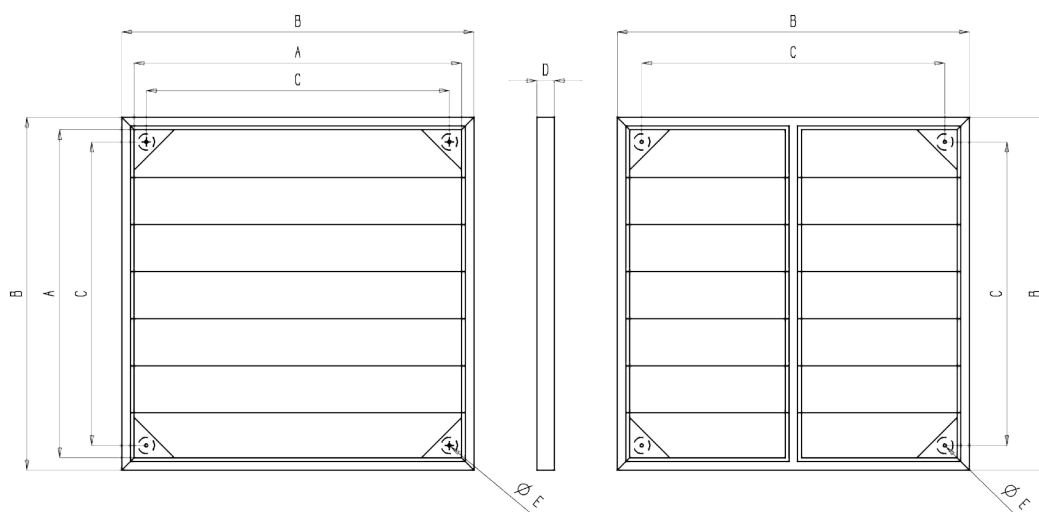


## Shutters



Models Ø 20-50 cm

Models Ø 56-92 cm



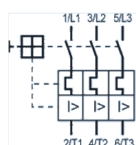
Group	Size in mm					Part number / ordering code
Ø	A	B	C	D	E	
20 cm	205	244	166	27,5	5	• JALOVK200
25 cm	255	294	216	27,5	5	• JALOVK250
30 cm	308	347	269	27,5	5	• JALOVK300
35 cm	358	397	319	27,5	5	• JALOVK350
40 cm	418	457	379	27,5	5	• JALOVK400
45 cm	462	501	423	27,5	5	• JALOVK450
50 cm	510	549	471	27,5	5	• JALOVK500
56 cm	566	605	527	27,5	5	• JALOVK560
63 cm	650/657 *	689/696	611/618	27,5	5	• JALOVK630
71 cm	721	760	679	41	5	• JALOVK710
92 cm	897	940	859	41	5	• JALOVK920

\* the Ø 63 cm shutter is not completely square, the height is 7 mm longer than the width. (Reason: this shutter is also used in a modular system (System-1) in which these dimensions are needed)



# Motor protective circuit breakers

## Series MS / ESM



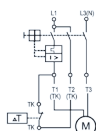
The motor protective circuit breakers offer optimal protection for motors due to their high breaking capacity with strongly limited current.

They are equipped with phase failure sensitivity, isolating and main switch functions. The available range covers nominal rated currents from 0,4 up to 10 A.

The motor protective circuit breakers are VDE-tested and UL-approved.

Rated current			Maximum rated operating power (kW)				Operating current short circuit trip (A)	Part number / ordering code:
(A)			400/415V	500V	690V			
0,4	-	0,63	0,12	0,18	0,25	7,6	• MBSESM063	
0,63	-	1	0,25	0,37	0,55	12	• MBSESM1	
1	-	1,6	0,55	0,75	1,1	19,2	• MBSESM116	
1,6	-	2,5	0,75	1,1	1,5	30	• MBSESM125	
2,5	-	4	1,5	2,2	3	48	• MBSESM4	
4	-	6,3	2,2	3	4	75,6	• MBSESM463	
6,3	-	10	4	5,5	7,5	120	• MBSESM10	

## Series MWC10 / ESC10



The MWC 10 is a multi-polar circuit breaker which allows a thermal contact (klixon), which is built into the motor (directly into the coil), to be analyzed. For example, if the motor is hindered due to dirt, the coil will heat up more than normal and the thermal contact (NC contact) in the coil will break the circuit.

The bimetal built into the circuit breaker recognizes the opening of the thermal contact in the motor coil and, with the smallest motor rated current, switches off all poles completely within max. 40 s.

The motor protective circuit breakers are VDE-tested and UL-approved.

Current operating range (A)	Part number / ordering code:
0,4-10	• MBSESC10ZK



Insulated enclosure IP 55 for motor protective circuit breakers

The enclosures are fitted with integrated PE(N) terminal. On top and bottom are each 2 metric M20 knock-outs (total 4).

Part number / ordering code:
• MBSESMGE1



Auxiliary contact for side mounting

Auxiliary contacts e.g. for use as alarm contact.

Max current (A)	Contacts	Part number / ordering code:
6,0	1 NO + 1 NC	• MBSHS11



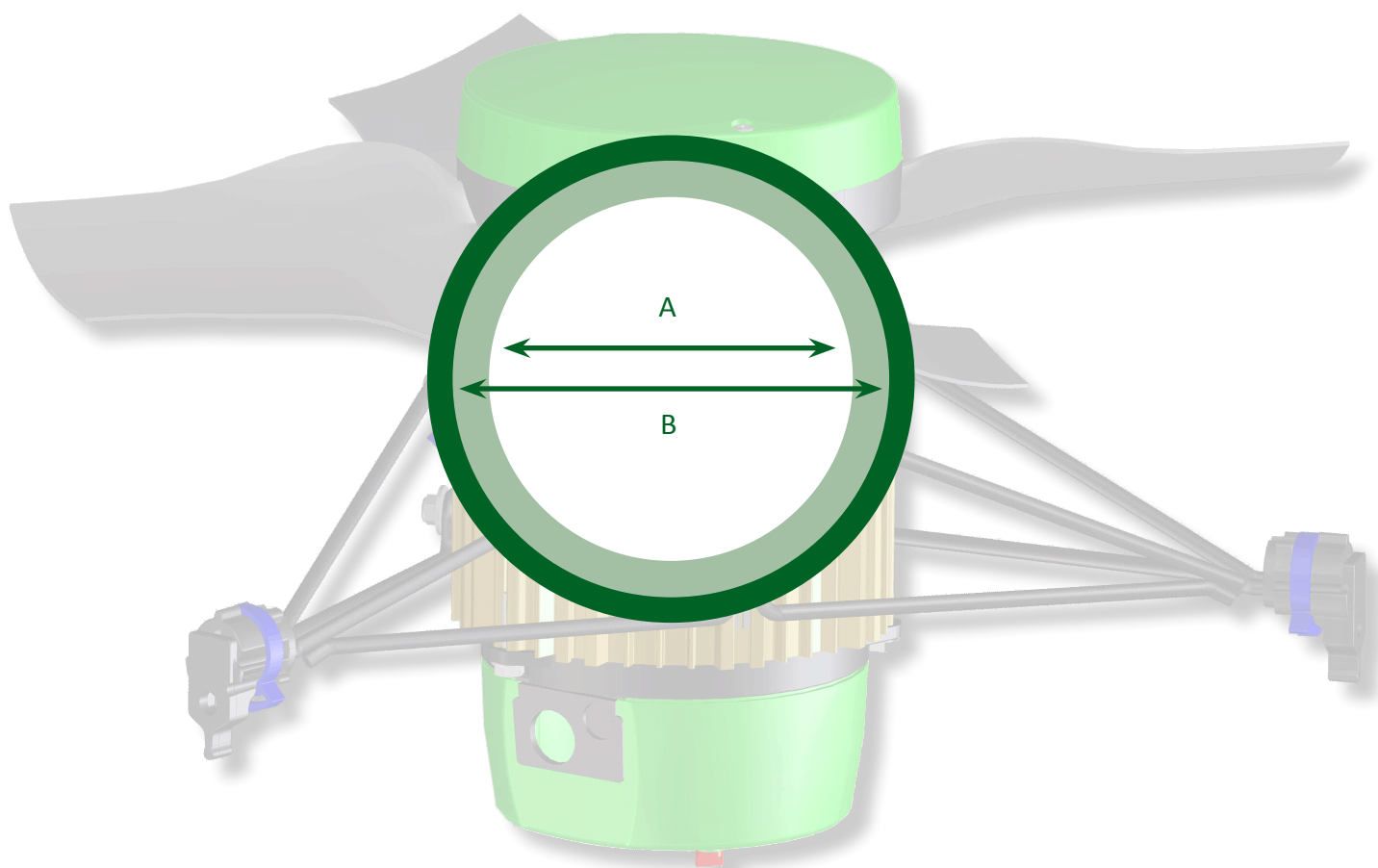


# General Information

The EMI logo is centered in the lower half of the page. It consists of the letters 'EMI' in a bold, sans-serif font. The 'E' is white with a green outline, while the 'M' and 'I' are solid green. The logo is surrounded by stylized green lines that represent sound waves or a vinyl record's grooves, radiating outwards from the center.

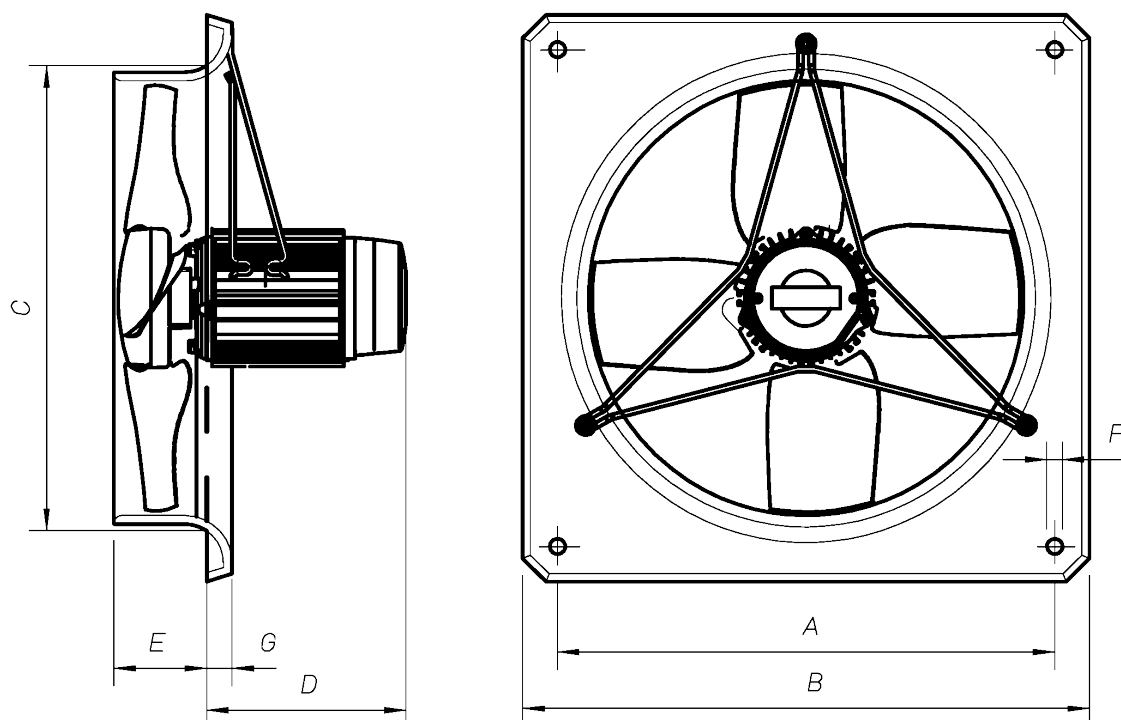
**EMI**

## Tube fan dimensions WLV / DLV Series



Impeller range (cm)	Minimum tube inside diameter	Maximum tube inside diameter
	( mm) A	(mm) B
35	350	370
40	400	420
45	450	470
50	500	520
56	560	580
63	630	650
71	710	730
80	800	820
92	915	935

## Panel fan dimensions WLV and DLV series



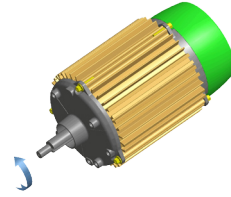
Impeller range		Size in mm						Frame
(cm)	A	B	C	D max	E	F	G	Metal or PP *
30	350	395	330	186	106	9,5	20	PP
35	400	445	375	186	106	9,5	20	PP
40	444	495	430	186	106	9,5	20	PP
45	505	575	480	176	116	13	20	PP
50	565	635	535	176	116	13	20	PP
50T	565	635	527	213	133	13	10	M
56	675	760	590	230	106	11	30	PP
63	750	835	660	220	120	11	30	PP
71	810	885	740	230	140	14,5	30	PP
80	910	970	850	212	190	14,5	20	M
92	1010	1070	973	215	188	14,5	22	M

\* The frames mentioned are the frames in which the standard panel fans are supplied. Certain models can be supplied with different frames upon request.

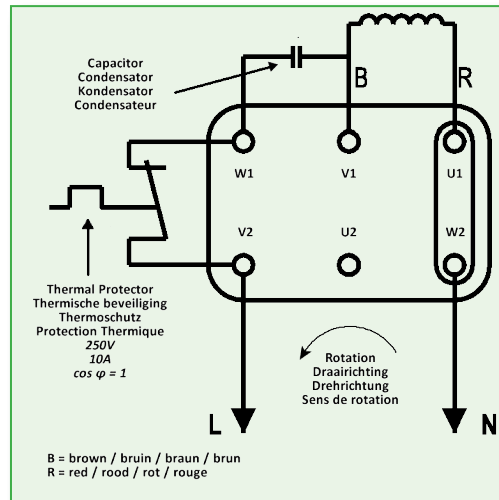


## Wiring diagrams

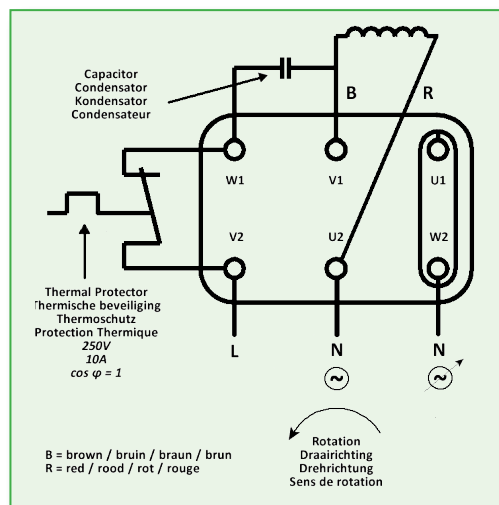
All EMI fans WLV and DLV fans have by default Counter Clockwise (CCW) rotating motors.



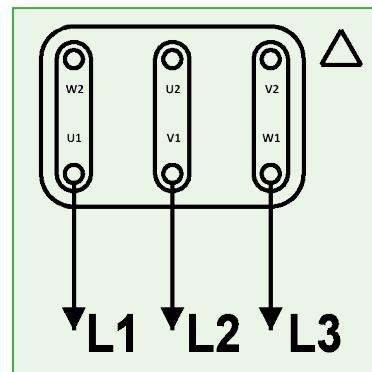
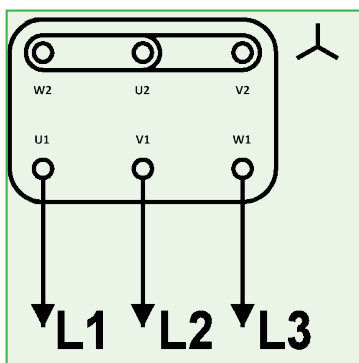
WLV series - Single phase fan motor wiring diagram



WLV series - Single phase “Three wire connection” fan motor wiring diagram



DLV series - Three phase fan motor wiring diagrams



# IP Ratings







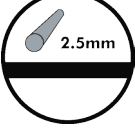
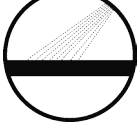
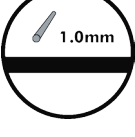
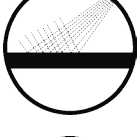
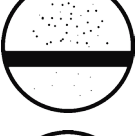
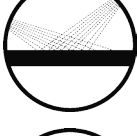
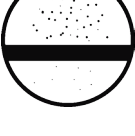
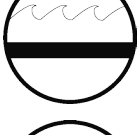
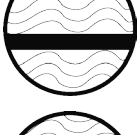

## Degree of protection according to IEC 60529 / DIN 0470

The IP Code defined in the international standard IEC 60529 classifies the degrees of protection provided against the intrusion of solid objects (including body parts like hands and fingers), dust, accidental contact, and water in electrical enclosures.

The first digit indicates the level of protection that the enclosure provides against access to hazardous parts (e.g., electrical conductors, moving parts) and the ingress of solid foreign objects.

The second digit indicates the level of protection of the equipment inside the enclosure against harmful ingress of water.

## IP x x

First digit		Second digit	
Degree of protection against solid objects		Degree of protection against water	
	0 No protection against contact and ingress of objects		0 No protection.
	1 Protected against solid objects greater than 50mm, such as a hand.		1 Protected against dripping water
	2 Protected against solid objects greater than 12.5 mm, such as a finger.		2 Protected against dripping water when tilted up to 15°
	3 Protected against solid objects greater than 2.5 mm, such as a wire or a tool.		3 Protected against spraying water at an angle of up to 60°.
	4 Protected against solid objects greater than 1.0 mm, such as a wire or thin strips.		4 Protected against splashing water from any direction.
	5 Dust-protected. Prevents ingress of dust sufficient to cause harm.		5 Protected against jets of water from any direction
	6 Dust-tight. No ingress of dust.		6 Protected against heavy seas or powerful jets of water. Prevents ingress sufficient to cause harm.
			7 Protected against the effects of temporary immersion in water.
			8 Protected against the effects of continuous immersion in water.



# Ventilation frequency

## Determining the quantity of air

The standards for determining the quantity of ventilation air differ from country to country. All the values used in this general information section are suggestions only.

## MAC Value

In the case of emitted dangerous gases, vapors, mist or substances, the MAC value should be observed. The MAC Value, which is expressed in PPM (parts per million), shows the maximum accepted concentration of various substances for working areas which are in use for eight successive hours.

## Ventilation frequency

Air changes per hour is often used as the basis for simple installations. The table below shows the number, the "ventilation frequency", for different areas. Because these ventilation frequencies are learned by experience, they should be selected in consultation for each situation.

Ventilation frequency = number of air changes per hour.

## Amount of fresh air

In areas where no dangerous gases, vapors, etc., are formed, one may also begin with the amount of fresh air needed per person, which varies from 30-50 m<sup>3</sup>/hour, depending on the nature of the activities.

## Calculation example

Application: meeting room

Floor area 10 x 6 = 60 m

Height of room 3 meters, i.e. volume = 180 m<sup>3</sup>.

Assuming a ventilation frequency of 6 (table gives between 5 and 10), the required amount of air.

$Q = 6 \times 180 = 1080 \text{ m}^3/\text{hour}$ .

Since the room in question may be occupied by a maximum of 30 people, with no prohibition on smoking, the required amount of outside air is 50 m<sup>3</sup>/hour per person.

$Q = 30 \times 50 = 1,500 \text{ m}^3/\text{hour}$ , which is a ventilation frequency of  $1,500/180 = 8.3$

The value of 8.3 obtained is that used in practice.

Area	Ventilation frequency	Area	Ventilation frequency
Bakeries	20-30	Laboratories	5-15
Pickling shops and sheds	5-15	Machine shops	15-30
Cafés/Pubs	10-12	Restaurants	6-10
Club houses	8-10	Sports halls	2-3
Shower areas	8-10	Toilets (in public buildings)	8-10
Garages	4-6	Toilets (private housing)	3-4
Cloakrooms	4-6	Theatres	5-8
Foundries	8-15	Meeting rooms	5-10
Canteens	6-8	Department stores	4-6
Offices	4-8	Laundries	12-15
Churches	2-4	Working areas	6-10
Kitchens (restaurants)	15-20	Swimming pools	3-5
Kitchens (private)	10-15		



## Beaufort scale

The Beaufort scale is an empirical measure for describing wind speed based mainly on observed sea conditions. The scale is listed here to indicate the effects of certain wind speeds.

Beaufort number	km/h	m/s	Description	Land conditions
0	<1	<0.3	Calm	Calm. Smoke rises vertically.
1	1-5	0.3-1.5	Light air	Wind motion visible in smoke.
2	6-11	1.5-3.3	Light breeze	Wind felt on exposed skin. Leaves rustle.
3	12-19	3.3-5.5	Gentle breeze	Leaves and smaller twigs in constant motion.
4	20-28	5.5-8.0	Moderate breeze	Dust and loose paper raised. Small branches begin to move.
5	29-38	8.0-10.8	Fresh breeze	Branches of a moderate size move. Small trees begin to sway.
6	39-49	10.8-13.9	Strong breeze	Large branches in motion. Whistling heard in overhead wires. Umbrella use becomes difficult.
7	50-61	13.9-17.2	High wind, Moderate Gale, Near Gale	Whole trees in motion. Effort needed to walk against the wind.
8	62-74	17.2-20.7	Fresh Gale	Twigs broken from trees. Cars veer on road.
9	75-88	20.7-24.5	Strong Gale	Larger branches break off trees, and some small trees blow over. Construction/temporary signs and barricades blow over. Damage to circus tents and canopies.
10	89-102	24.5-28.4	Whole Gale/Storm	Trees are broken off or uprooted, saplings become bent and/or deformed, poorly attached asphalt shingles and shingles in poor condition peel off roofs.
11	103-117	28.4-32.6	Violent storm	Widespread vegetation damage. Many roof shingles and surfaces sustain damage; gravel may be blown from flat roofs.
12	>118	>32.6	Hurricane-force	Considerable and widespread damage to vegetation, a few windows broken, structural damage to mobile homes and poorly constructed sheds and barns. Debris may be hurled about.



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