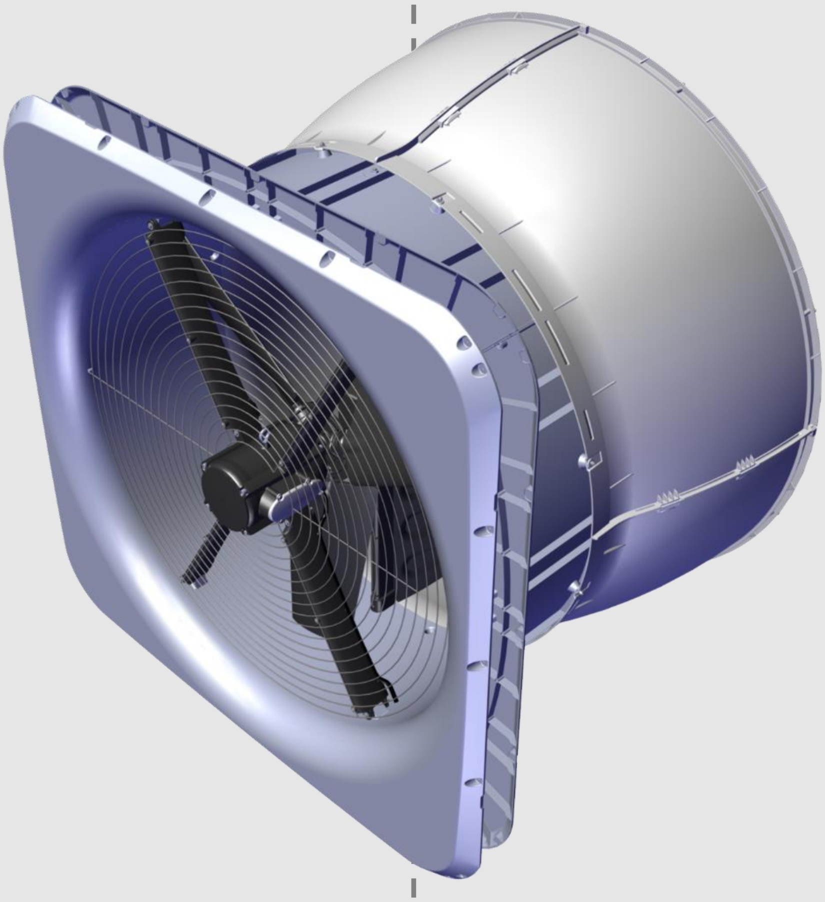
DA 1700 Wall Fan

Technical Info



2017.01.06

1 Product Description

The DA 1700 wall fan is a flange-mounted corrosion-free fan with cone and motor-controlled shutter. The fan is supplied in one version focused on low energy consumption and one version focused on maximizing air output. Both versions are available in several variants.

DA 1700 is characterised by having a particularly tightly closed motorized shutter, which prevents unwanted air movement when the fan is not in operation, and a direct-driven motor to reduce motor maintenance.

DA 1700 is designed especially for the demanding house environment both when it comes to climatic and electrical impacts.

1.1 Layout Drawing

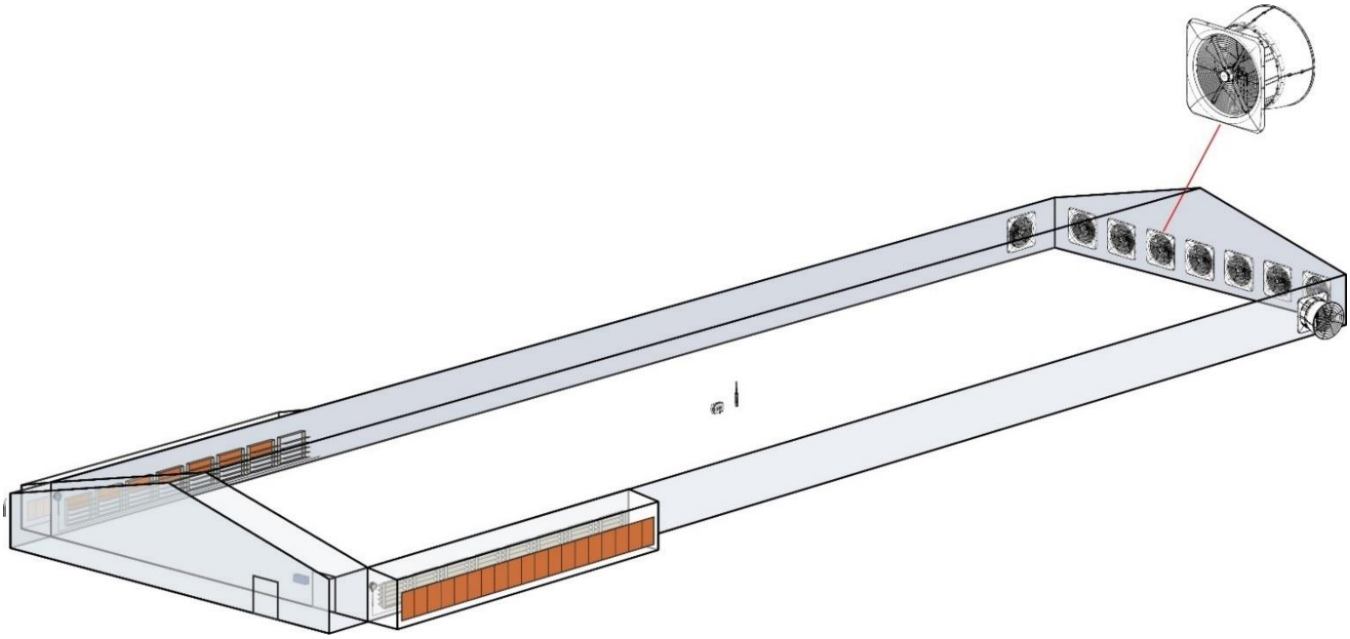


Figure 1: 1.1 Layout drawing tunnel house with DA 1700.

1.2 Product Survey

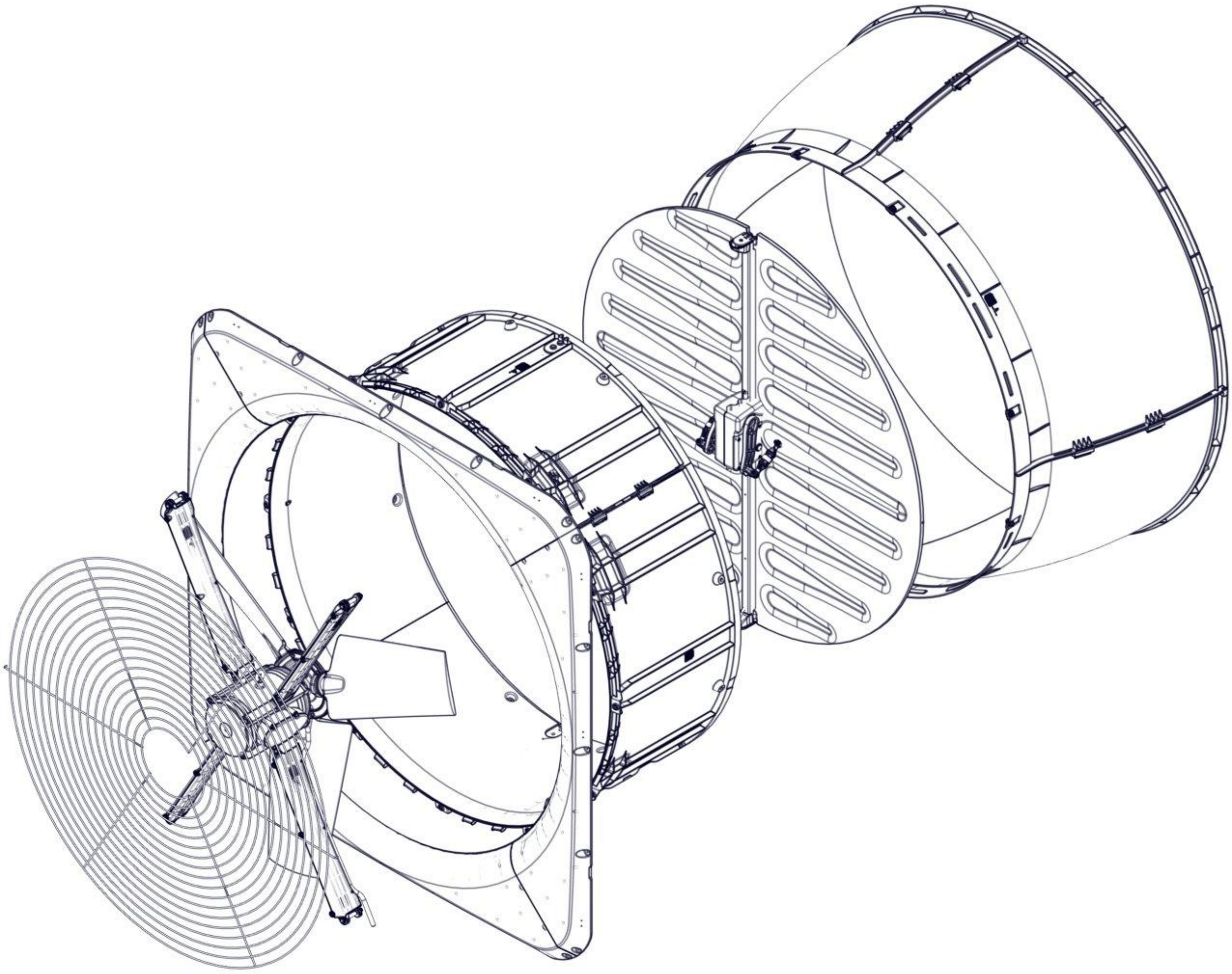
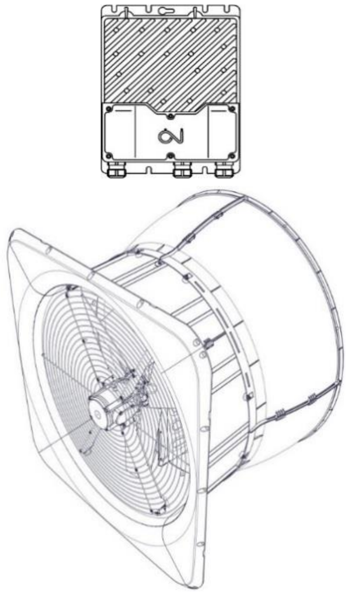


Figure 2: Product Survey DA 1700

At every order up to 100 pcs. DA 1700 wall fans, 1 pc. DA 1700 lifting kit and extra mounting parts are supplied. At every order from 101-200 pcs., DA 1700 wall fans, 2 pcs. DA 1700 lifting kit and extra mounting parts are supplied.

The lifting kit and mounting parts consist of:

- DA 1700 lifting kit
- Extra DA 1700 mounting parts.
- 3 pcs. technical user guides for the DA 1700 wall fan in English.



435300 DA 1700-4 LPC 1x230V 50/60Hz
435301 DA 1700-4 LPC 1x230V 50/60Hz w/thermal cutout

Controller.
PM motor 230 V 1.3 kW 465 rpm.
4 m shielded motor cable four-core.

Supplied with mounting parts for the assembly of the DA 1700.

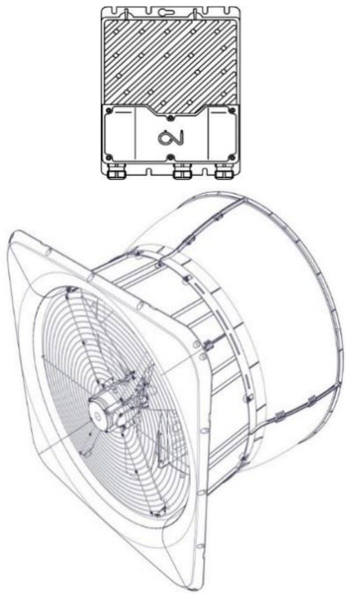
It should not be used at negative pressure higher than 50 Pa.

435304 DA 1700-5 LPC 1x230V 50/60Hz
435305 DA 1700-5 LPC 1x230V 50/60Hz w/thermal cutout

Controller.
PM motor 230 V 1.3 kW 550 rpm.
4 m shielded motor cable four-core.

Supplied with mounting parts for the assembly of the DA 1700.

It should not be used at negative pressure higher than 80 Pa.



435302 DA 1700-4 LPC 3x400V 50/60Hz
435303 DA 1700-4 LPC 3x400V 50/60Hz w/thermal cutout

Controller.
PM motor 400 V 2.3 kW 465 rpm.
4 m shielded motor cable four-core.

Supplied with mounting parts for the assembly of the DA 1700.

It should not be used at negative pressure higher than 50 Pa.

435306 DA 1700-5 LPC 3x400V 50/60Hz
435307 DA 1700-5 LPC 3x400V 50/60Hz w/thermal cutout

Controller.
PM motor 400 V 2.3 kW 550 rpm.
4 m shielded motor cable four-core.

Supplied with mounting parts for the assembly of the DA 1700.

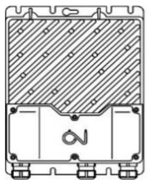
It should not be used at negative pressure higher than 80 Pa.

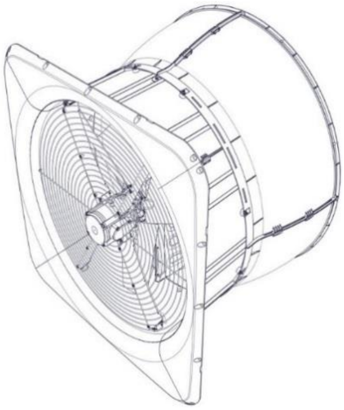
435308 DA 1700-6 LPC 3x400V 50/60Hz
435309 DA 1700-6 LPC 3x400V 50/60Hz w/thermal cutout

Controller.
PM motor 400 V 2.3 kW 650 rpm.
4 m shielded motor cable four-core.

Supplied with mounting parts for the assembly of the DA 1700.

It should not be used at negative pressure higher than 100 Pa.





435321 DA 1700-4 LPC 3x230V 50/60Hz

Controller.
PM motor 230 V 2.3 kW 465 rpm.
4 m shielded motor cable four-core.

Supplied with mounting parts for the assembly of the DA 1700.

It should not be used at negative pressure higher than 50 Pa.

435322 DA 1700-5 LPC 3x230V 50/60Hz

Controller.
PM motor 230 V 2.3 kW 550 rpm.
4 m shielded motor cable four-core.

Supplied with mounting parts for the assembly of the DA 1700.

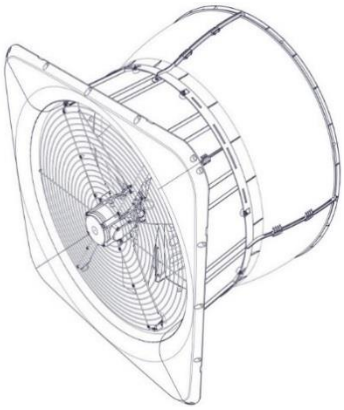
It should not be used at negative pressure higher than 80 Pa.

435323 DA 1700-6 LPC 3x230V 50/60Hz

Controller.
PM motor 230 V 2.3 kW 650 rpm.
4 m shielded motor cable four-core.

Supplied with mounting parts for the assembly of the DA 1700.

It should not be used at negative pressure higher than 100 Pa.



435310 DA 1700-7 3x400V 50Hz

435311 DA 1700-7 3x400V 50Hz w/thermal cutout

AC motor 400 V 2.2 kW 700 rpm.
4 m shielded motor cable four-core.

Supplied with mounting parts for the assembly of the DA 1700.

It should not be used at negative pressure higher than 100 Pa.

435312 DA 1700-8 3x400V 60Hz

435313 DA 1700-8 3x400V 60Hz w/thermal cutout

AC motor 400 V 2.2 kW 840 rpm.
4 m motor cable four-core.

Supplied with mounting parts for the assembly of the DA 1700.

It should not be used at negative pressure higher than 100 Pa.

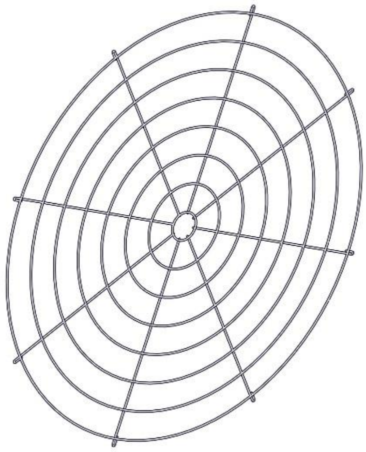
435324 DA 1700-8 3x230V 60Hz

AC motor 400 V 2.2 kW 840 rpm.
4 m motor cable four-core.

Supplied with mounting parts for the assembly of the DA 1700.

It should not be used at negative pressure higher than 100 Pa.

Accessories



435327 DA 1700 safety net outside

DA 1700 safety net outside is used to prevent hazard zones.

If DA 1700 outside safety guard is deselected - a safety distances to prevent hazard zones must be established.

The demands in the International Standard for Safety of Machinery ISO 13857 must be followed.

1 per wall fan.

Is supplied with mounting parts.

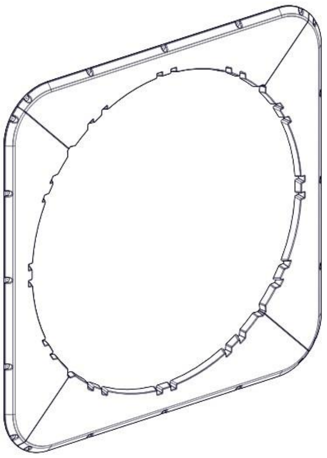
560287 DA 1700 lifting kit and mounting parts

DA 1700 lifting kit is used when mounting the fan motor.

Includes:

- 1 pcs. DA 1700 lifting kit
- 1 pcs. DA 1700 mounting parts.
- 3 stk. technical user guide for DA 1700 wall fan in English.

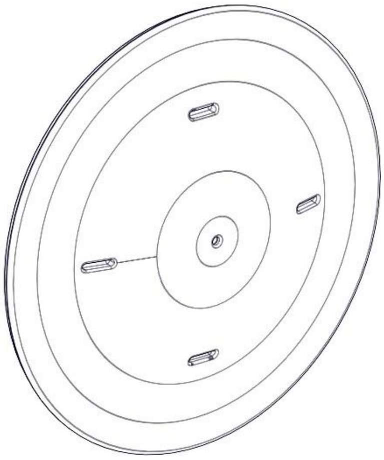
Only to be ordered if extra DA 1700 lifting kit and mounting parts are required.



435316 DA 1700 wall cover outside

An external cover is used if a closed transition to the wall is desired.

1 per wall fan.



435317 DA 1700 insulation plate

The plate is used to minimise draughts and heat loss during cold periods, when DA 1700 is not in use.

The plate should always be used if the dimensioned outside temperature is less than -10°C.

Supplied with mounting set.

1 per wall fan.

2 Technical data

2.1 DA 1700 LPC 1x230 V

Electrical	435300/435301 DA 1700-4 LPC 1x230 V	435304/435305 DA 1700-5 LPC 1x230 V
Voltage [V AC]	230 -10% / +15%	
RCD	Always use RCCB 30 mA (type A) in front of climate computer or possibly max. two motor supply units. PFI 300 mA (type B) is only used in front of the power supply to LPC regulated fans.	
Frequency [Hz]	50/60	
Leakage current to ground [mA]	Max. 12 Pay attention to other leak current sources in the house.	
Max. ballast fuse [A]	16	16
Max. shaft power [W]	900	1300
Motor current (rated) [A]	3.9	3.9
Efficiency motor controller [%]	94	
Output frequency [Hz]	0 - 400	
Max. output voltage [V AC]	3 x 250	
Max. output current [A]	2.6	3.8
Interface		
Inputs Analogue in [V DC]	10-0 / 0-10	
Digital in Digital in accessories	2 1	
Digital out Alarm relay	O.C max. 24V 20mA pull-up 1A; 30 V DC/24 V AC	
Mechanical		
Cable length [m] protective shield	4	
Control type, motor controller	Sensorless back EMF	
Fan output	**DA 1700-4**	**DA 1700-5**
RPM (rated current)	465	550
Air output m^3/hour (at -10 Pa)	44,300	53,100
Air output m^3/hour (at -20 Pa)	41,500	51,000
Air output m^3/hour (at -30 Pa)	38,500	48,500
Air output m^3/hour (at -40 Pa)	35,000	45,800
Power consumption [W] (at -10 Pa)	676	1,093
Specific output m^3/kWh (at -10 Pa)	65,500	48,600
Specific energy [Watt/1000 m3/h] (at -10 Pa)	15	21
Pressure stability, change from 0 to -20 Pa [%]	12	8
Environment	**DA 1700-4**	**DA 1700-5**
Operating temperature [°C]	- 40 to +40	
Start temperature [°C]	- 40 to +50	
Storage temperature [°C]	- 40 to +70	
Ambient humidity, operation [%] RH	10-95	
Corrosion-resistant	EN/ISO12944-2:1998 category C4	
Protection class	Controller: IP 65 Fan motor: IP 55	
Encapsulation material Bottom Top	Aluminium (EN AB-44300) Aluminium 5052 Polypropylene (PP)	
Fan noise, outside (2 m, 45 degrees) [dB(A)]	-	-

Shipping	
Motor controller, dimensions H x W x D [mm]	266 x 185 x 110
Fan dimensions H x W x D [mm]	310 x 636 x 636
Dimensions packed H x W x D [mm]	375 x 660 x 660
Motor controller weight [g]	2,200
Fan weight [g]	34,000
Shipping weight [g]	108,000

2.2 ErP/Ecodesign DA 1700 LPC 1x230 V

Fan type	DA 1700-4	DA 1700-5
Ecodesign	ErP 2015	ErP 2015
Efficiency classification [N]	56	53,5
Efficiency (η) [%]	-	-
Measurement category	A	A
Efficiency category	40	40
Optimum efficiency [%]	53.4	52.3
VSD required	Yes	Yes
Year of manufacture	2016	2016
Manufacturer's name	SKOV A/S	SKOV A/S
Product's model number	435300/435301	435304/435305
Motor power input [kW] Flow rate [m^3/s] Optimum pressure [Pa] Total pressure [Pa]	0.916 7.2 62 -	1.117 8.8 75 -
Rotations per minute (RPM)	465	550
Specific ratio	1.0	1,0
Recycling/Disposal	The product is designed for recycling and it will be possible for customers to deliver worn-out product to SKOV A/S or to local collection sites/recycling stations according to local instructions.	
Impact on environmental	-	
Additional items used when determining the fan energy efficiency	DA 1700 wall fan incl. outside safety net	

2.3 DA 1700 LPC 3x400 V

Electrical	**435302/435303 DA 1700-4 LPC 3x400 V**	**435306/435307 DA 1700-5 LPC 3x400 V**	**435308/435309 DA 1700-6 LPC 3x400 V**
Voltage [V AC]	3x400 -10% / +15%		
RCD	Always use RCCB 30 mA (type A) in front of climate computer or possibly max. two motor supply units. PFI 300 mA (type B) is only used in front of the power supply to LPC regulated fans.		
Frequency [Hz]	50/60		
Leakage current to ground [mA]	Max. 12 Pay attention to other leak current sources in the house.		
Max. ballast fuse [A]	16		
Max. shaft power [W]	900	1300	2300
Motor current (rated) [A]	4.1	4.1	4.1
Efficiency motor controller	>96.5	>96.5	>96.5
Output frequency [Hz]	0 - 400	0 - 400	0 - 400
Max. output voltage [V AC]	3 x 364	3 x 364	3 x 364
Max. output current [A]	1.6	2.3	4.0
Interface			
Inputs Analogue in [V DC]	10-0 / 0-10		
Digital in Digital in accessories	2 1		
Digital out Alarm relay (accessory)	O.C max. 24V 20mA pull-up 1A; 30 V DC / 24 V AC		
Mechanical			
Cable length [m] protective shield	4		
Control type, motor controller	Sensorless back EMF		
Fan output	**DA 1700-4**	**DA 1700-5**	**DA 1700-6**
RPM (rated current)	465	550	650
Air output m³/hour (at -10 Pa)	44,300	53,100	63,600
Air output m³//hour (at -20 Pa)	41,500	51,000	61,700
Air output m³//hour (at -30 Pa)	38,500	48,500	59,900
Air output m³//hour (at -40 Pa)	35,000	45,800	57,800
Power consumption [W] (at -10 Pa)	676	1093	1763
Specific output m³/kWh (at -10 Pa)	65,500	48,600	36,100
Specific energy [Watt/1000 m3/h] (at -10 Pa)	15	21	28
Pressure stability, change from 0 to -20 Pa [%]	12	8	6
Environment	**DA 1700-4**	**DA 1700-5**	**DA 1700-6**
Operating temperature [°C]	- 40 to +40		
Start temperature [°C]	- 40 to +50		
Storage temperature [°C]	- 40 to +70		
Ambient humidity, operation [%] RH	10-95		
Corrosion-resistant	EN/ISO12944-2:1998 category C4		
Protection class	Controller: IP 65 Fan motor: IP 55		
Encapsulation material Bottom Top	Aluminium (EN AB-44300) Aluminium 5052 Polypropylene (PP)		
Fan noise, outside (2 m, 45 degrees) [dB(A)]	-	-	-

Shipping	
Motor controller, dimensions H x W x D [mm]	266 x 185 x 100
Fan dimensions H x W x D [mm]	310 x 636 x636
Dimensions packed H x W x D [mm]	375 x 660 x 660
Motor controller weight [g]	2,200
Fan weight [g]	34,000
Shipping weight [g]	108,000

2.4 ErP/Ecodesign DA 1700 LPC 3x400 V

Fan type	DA 1700-4	DA 1700-5	DA 1700-6
Ecodesign	ErP 2015	ErP 2015	ErP 2015
Efficiency classification [N]	58.1	58.6	57.5
Efficiency (η) [%]	-	-	-
Measurement category	A	A	A
Efficiency category	40	40	40
Optimum efficiency [%]	55.4	57.3	57.4
VSD required	Yes	Yes	Yes
Year of manufacture	2016	2016	2016
Manufacturer's name	SKOV A/S	SKOV A/S	SKOV A/S
Product's model number	435302/435303	435306/435307	435308/435309
Motor power input [kW] Flow rate [m^3/s] Optimum pressure [Pa] Total pressure [Pa]	0.862 7.4 50 -	1.425 8.7 87 -	2.310 10 125 -
Rotations per minute (RPM)	465	550	650
Specific ratio	1.0	1.0	1.0
Recycling/Disposal	The product is designed for recycling and it will be possible for customers to deliver worn-out product to SKOV A/S or to local collection sites/recycling stations according to local instructions.		
Impact on environmental	-		
Additional items used when determining the fan energy efficiency	DA 1700 wall fan incl. outside safety net		

2.5 DA 1700 LPC 3x230 V

Electrical	435321 DA 1700-4 LPC 3x230 V	435322 DA 1700-5 LPC 3x230 V	435323 DA 1700-6 LPC 3x230 V
Voltage [V AC]	3x230 -10 % / +15%		
RCD	Always use RCCB 30 mA (type A) in front of climate computer or possibly max. two motor supply units. PFI 300 mA (type B) is only used in front of the power supply to LPC regulated fans.		
Frequency [Hz]	60		
Leakage current to ground [mA]	Max. 12 Pay attention to other leak current sources in the house.		
Max. ballast fuse [A]	16		
Max. shaft power [W]	900	1300	2300
Motor current (rated) [A]	6.4	6.4	6.4
Efficiency motor controller	>96.5	>96.5	>96.5
Output frequency [Hz]	0 - 400	0 - 400	0 - 400
Max. output voltage [V AC]	3 x 250	3 x 250	3 x 250
Max. output current [A]	2.4	3.5	6.2
Interface			
Inputs Analogue in [V DC]	10-0 / 0-10		
Digital in Digital in accessories	2 1		
Digital out Alarm relay (accessory)	O.C max. 24V 20mA pull-up 1A; 30 V DC / 24 V AC		
Mechanical			
Cable length [m] protective shield	4		
Control type, motor controller	Sensorless back EMF		
Fan output	**DA 1700-4**	**DA 1700-5**	**DA 1700-6**
RPM (rated current)	465	550	650
Air output m^3/hour (at -10 Pa)	44,400	53,100	63,600
Air output m^3/hour (at -20 Pa)	41,600	51,000	61,700
Air output m^3/hour (at -30 Pa)	38,500	48,500	59,900
Air output m^3/hour (at -40 Pa)	35,300	45,800	57,800
Power consumption [W] (at -10 Pa)	680	1.093	1,763
Specific output m^3/kWh (at -10 Pa)	65,300	48,600	36,100
Specific energy [Watt/1000 m3/h] (at -10 Pa)	15	21	28
Pressure stability, change from 0 to -20 Pa [%]	12	8	6
Environment	**DA 1700-4**	**DA 1700-5**	**DA 1700-6**
Operating temperature [°C]	- 40 to +40		
Start temperature [°C]	- 40 to +50		
Storage temperature [°C]	- 40 to +70		
Ambient humidity, operation [%] RH	10-95		
Corrosion-resistant	EN/ISO12944-2:1998 category C4		
Protection class	Controller: IP 65 Fan motor: IP 55		
Encapsulation material Bottom Top	Aluminium (EN AB-44300) Aluminium 5052 Polypropylene (PP)		
Fan noise, outside (2 m, 45 degrees) [dB(A)]	-	-	-

Shipping		
Motor controller, dimensions H x W x D [mm]	266 x 185 x 100	294 x 220 x 108
Fan dimensions H x W x D [mm]	310 x 636 x636	
Dimensions packed H x W x D [mm]	375 x 660 x 660	
Motor controller weight [g]	2,200	
Fan weight [g]	34,000	
Shipping weight [g]	108,000	

2.6 ErP/Ecodesign DA 1700 LPC 3x230 V

Fan type	DA 1700-4	DA 1700-5	DA 1700-6
Ecodesign	ErP 2015	ErP 2015	ErP 2015
Efficiency classification [N]	59.2	55.8	48.9
Efficiency (η) [%]	-	-	-
Measurement category	A	A	A
Efficiency category	40	40	40
Optimum efficiency [%]	56.5	54.5	48.8
VSD required	Yes	Yes	Yes
Year of manufacture	2016	2016	2016
Manufacturer's name	SKOV A/S	SKOV A/S	SKOV A/S
Product's model number	435321	435322	435322
Motor power input [kW] Flow rate [m^3/s] Optimum pressure [Pa] Total pressure [Pa]	0.879 7.3 62 -	1.443 9.8 75 -	2.247 13.8 75 -
Rotations per minute (RPM)	465	550	650
Specific ratio	1.0	1.0	1.0
Recycling/Disposal	The product is designed for recycling and it will be possible for customers to deliver worn-out product to SKOV A/S or to local collection sites/recycling stations according to local instructions.		
Impact on environmental	-		
Additional items used when determining the fan energy efficiency	DA 1700 wall fan incl. outside safety net		

2.7 DA 1700 3x400 V

Electrical	435310/435311 DA 1700-7 3x400 V	435312/435313 DA 1700-8 3x400 V
Voltage [V AC]	3 x 400 -10% / +15%	
Frequency [Hz]	50	60
Max. ballast fuse [A]	16	16
Max. shaft power [W]	2,200	2,200
Motor current (rated) [A]	5.9	5.9
Efficiency motor controller [%]	76	76
Mechanical		
Cable length [m] unshield	4	
Fan output	**DA 1700-7**	**DA 1700-8**
RPM (rated current)	700	840
Air output $m^{3/}$hour (at -10 Pa)	58,000	63,000
Air output $m^{3/}$/hour (at -20 Pa)	56,300	60,900
Air output $m^{3/}$/hour (at -30 Pa)	54,300	58,900
Air output $m^{3/}$/hour (at -40 Pa)	52,400	57,000
Power consumption [W] (at -10 Pa)	1,712	2,097
Specific output $m^{3/}$kWh (at -10 Pa)	33,900	30,000
Specific energy [Watt/1000 m3/h] (at -10 Pa)	30	33
Pressure stability, change from 0 to -20 Pa [%]	6	7
Environment	**DA 1700-7**	**DA 1700-8**
Operating temperature [°C]	- 40 to +40	
Start temperature [°C]	- 40 to +50	
Storage temperature [°C]	- 40 to +70	
Ambient humidity, operation [%] RH	10-95	
Corrosion-resistant	EN/ISO12944-2:1998 category C4	
Protection class	Fan motor: IP 55	
Encapsulation material Bottom Top	Aluminium (EN AB-44300) Aluminium 5052 Polypropylene (PP)	
Fan noise, outside (2 m, 45 degrees) [dB(A)]	-	-
Shipping		
Fan dimensions H x W x D [mm]	310 x 636 x 636	
Dimensions packed H x W x D [mm]	375 x 660 x 660	
Fan weight [g]	43,000	
Shipping weight [g]	115,000	

2.8 ErP/Ecodesign DA 1700 3x400 V

Fan type	DA 1700-7	DA 1700-8
Ecodesign	ErP 2015	ErP 2015
Efficiency classification [N]	49.0	46
Efficiency (η) [%]	-	-
Measurement category	A	A
Efficiency category	40	40
Optimum efficiency [%]	49.0	46.0
VSD required	Yes	Yes
Year of manufacture	2016	2016
Manufacturer's name	SKOV A/S	SKOV A/S
Product's model number	435310/435311	435312/435313
Motor power input [kW] Flow rate [m^3/s] Optimum pressure [Pa] Total pressure [Pa]	2.254 8.9 125 -	2.426 11.2 100 -
Rotations per minute (RPM)	700	840
Specific ratio	1.0	1.0
Recycling/Disposal	The product is designed for recycling and it will be possible for customers to deliver worn-out product to SKOV A/S or to local collection sites/recycling stations according to local instructions.	
Impact on environmental	-	
Additional items used when determining the fan energy efficiency	DA 1700 wall fan incl. outside safety net	

2.9 DA 1700 3x230 V

Electrical	**435324 DA 1700-8 3x230 V**
Voltage [V AC]	3 x 230 -10 % / +15%
Frequency [Hz]	60
Max. ballast fuse [A]	16
Max. shaft power [W]	2,200
Motor current (rated) [A]	10.2
Efficiency motor controller [%]	76
Mechanical	
Cable length [m] unshield	4
Fan output	**DA 1700-8**
RPM (rated current)	840
Air output m$^{3/}$hour (at -10 Pa)	64,200
Air output m$^{3/}$/hour (at -20 Pa)	62,300
Air output m$^{3/}$/hour (at -30 Pa)	60,200
Air output m$^{3/}$/hour (at -40 Pa)	58,300
Power consumption [W] (at -10 Pa)	2,189
Specific output m$^{3/}$kWh (at -10 Pa)	29,300
Specific energy [Watt/1000 m3/h] (at -10 Pa)	34
Pressure stability, change from 0 to -20 Pa [%]	6
Environment	**DA 1700-8**
Operating temperature [°C]	÷ 40 til +40
Start temperature [°C]	÷ 40 til +50
Storage temperature [°C]	÷ 40 til +70
Ambient humidity, operation [%] RH	10-95
Protection class	Fan motor: IP 55
Fan noise, outside (2 m, 45 degrees) [dB(A)]	-
Shipping	
Fan dimensions H x W x D [mm]	310 x 636 x 636
Dimensions packed H x W x D [mm]	375 x 660 x 660
Fan weight [g]	43,000
Shipping weight [g]	115,000

2.10 ErP/Ecodesign DA 1700 3x230 V

Fan type	**DA 1700-8**
Ecodesign	ErP 2015
Efficiency classification [N]	45.2
Efficiency (η) [%]	-
Measurement category	A
Efficiency category	40
Optimum efficiency [%]	45.5
VSD required	Yes
Year of manufacture	2016
Manufacturer's name	SKOV A/S
Product's model number	435324
Motor power input [kW] Flow rate [m^3/s] Optimum pressure [Pa] Total pressure [Pa]	2.623 9.6 125 -
Rotations per minute (RPM)	840
Specific ratio	1.0
Recycling/Disposal	The product is designed for recycling and it will be possible for customers to deliver worn-out product to SKOV A/S or to local collection sites/recycling stations according to local instructions.
Impact on environmental	-
Additional items used when determining the fan energy efficiency	DA 1700 wall fan incl. outside safety net

2.11 DA 1700 Plastic Parts

Mechanical	DA 1700 plastic parts
Material	
Front panel Fan ducts Shutter Wall cover outside Cover centre pillar Cover motor suspension	PS (HIPS)
Diffuser	PP
Motor suspension	PP (GF30)
House for shutter	ABS
Shutter parts	PA
Metal parts	Stainless steel A2
Colour	RAL 7035 / RAL 9005 / sort
Hole diameter [mm]	1700
Environment	
Ambient temperature, operation [°C]	-40 to +40
Ambient temperature, repository [°C]	-40 to +65 protected against direct sunlight
Ambient humidity, operation [%] RH	0-95
Protection class	IP 54

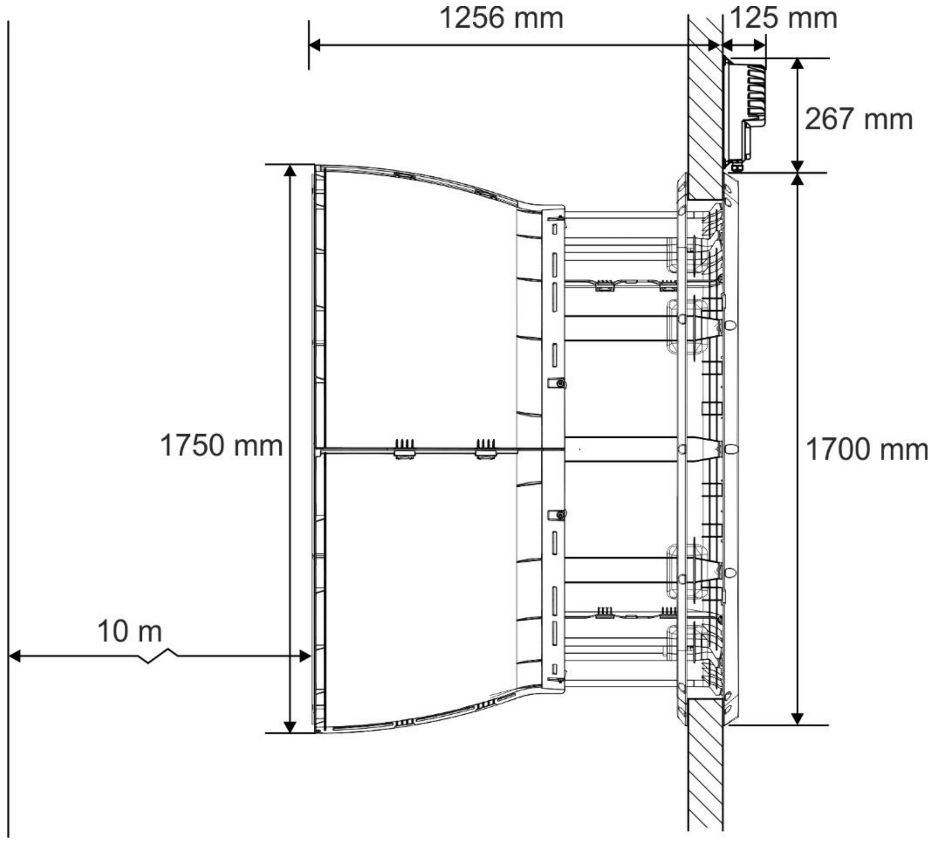
2.12 DA 1700 Shutter Motor

	DA 1700 shutter motor
Power supply [V DC]	24 ± 20 %
Running time, unloaded [sec.]	70
Running time max. load [sec.]	90
Max. torque [Nm]	24 Nm.
Max. power consumption [A]	0.14
Feedback signal	0-10 V - R_{out} 2.2 KΩ
O.C. (open collector) output max.	20 mA – 30 V DC
Cabinet insulating cover	IP 65

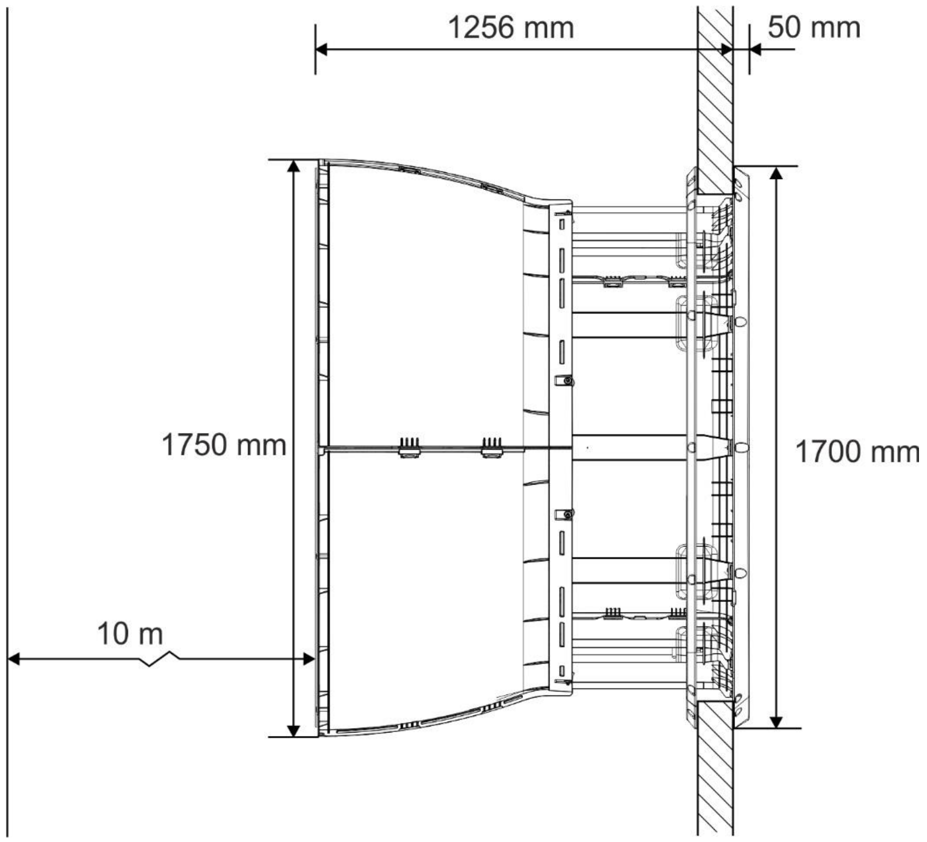
3 *Dimensioned Sketch*

In mm.

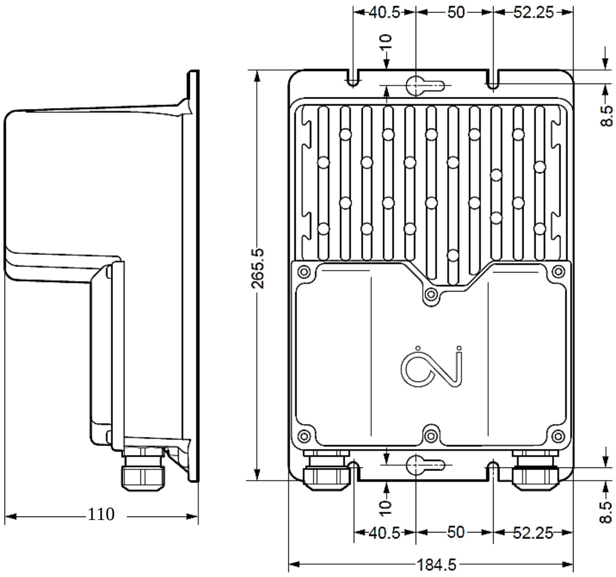
3.1 DA 1700 LPC with Motor Controller



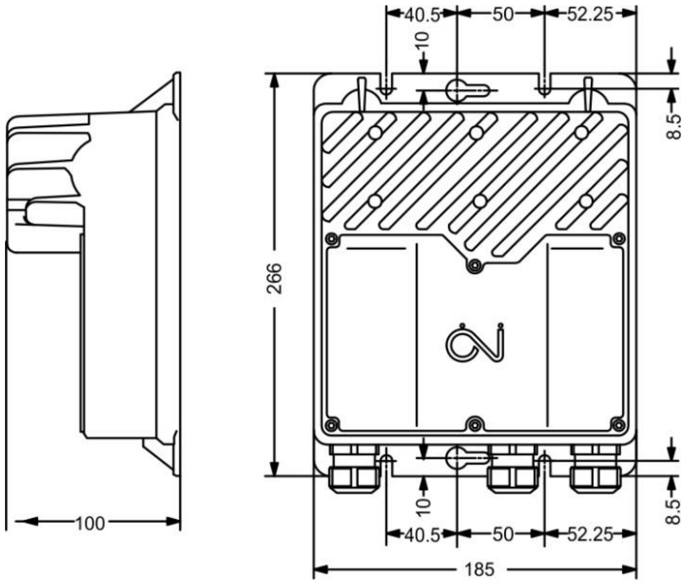
3.2 DA 1700 without Motor Controller



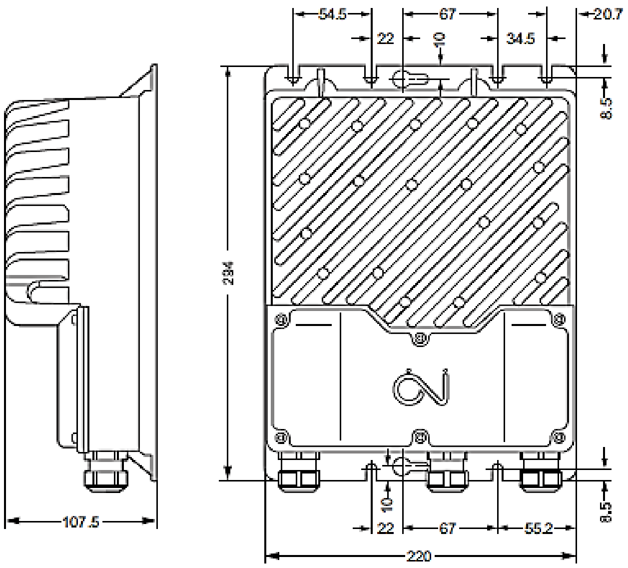
3.3 Motor Controller LPC 1x230V



3.4 Motor Controller LPC 3x400V



3.5 Motor Controller LPC 3x230V



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