



Dynerics

DYNAMIC IN MECHATRONICS

FANS & BLOWERS

V.8.0

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Introduction:

Dynerics- dynamic in mechatronics

Dynerics, founded in 1994, with offices in Germany and the Netherlands assists engineers across Europe in selecting the best suitable motor for their mechatronic assignment.

Dynerics represents leading manufacturers for rotating or linear functions with various technologies:

Our motors are available in different technologies, related specs, and with many features and options such as a gearhead, encoder, but can also be modified to suit your needs

- Rotating: Brushed-; brushless, stepper-, Servo-, piezo, synchronous-, torque-motors
- Linear: high precision lead/ball screws; linear shaft motors, stages, motors with integrated high precision lead screw an/or intelligence (driver, sensors, etc) .

Many of our products can be "customized", like with double or modified shafts, encoders, altered windings, fitted with connectors per customer request. See also our electronic options (integrated or external) to drive the motor optimal at the most efficient way.

Equipment cooling:

Dynerics supports engineers in the selection of a suitable axial fans or radial blowers for your application. We represents a broad range of fans for an AC- or DC- power supply. The fans combine long life with high reliability. See for instance the L10 curves of selected fans showing 100.000 hrs at 20° C and 40.000 hrs at 60°C . Technologies can be combined with ball- or sleeve-bearing. Thanks to our close contacts with the engineering departments of the supplier we are involved with their continuous development of efficient and intelligent designs, suitable in a wide variety of applications.

Contact us also for customer specific solutions, like humidity protection, specific wirelength, connector, etc.) Dynerics helps economizing your design by offering solutions with optimum price-performance ratio.

logistics and services:

our logistic centre is located in The Netherlands:

“not only perfect for a European Distribution Center, but also as part of a global supply chain”
a logistic/warehouse solution in The Netherlands for various reasons:

- Central location within the European market / Gateway to Europe and worldwide.
- Excellent sea- and airport facilities, and distribution infrastructure with Main ports Schiphol Airport and Rotterdam port
- Efficient Cargo communication
- Close co-operation between carriers, customs, handling agents, forwarders and other parties involved
- Able to interface late cut-off times and short lead times
- International orientation
- Optimising the supply chain management,
- Maximizes fab utilizations
- Matches inventory levels with the customer's demand
- Drives towards the best possible internal cycle time and schedule performance
- Multilingual capabilities

High lights:

The "Gentle Typhoon" Fans (models D0925 and D1225):

are 5 dB more silent than conventional Fans and available in sizes 120x 120mm and 92 x 92mm with a installation depth of only 25 mm. The 25 mm thick "Gentle Typhoon" has the same high air flow as a 32 mm thick fan. (System impedance in your high-density application can be reduced.) The 7 mm difference between a 32 mm fan and a 25 mm fan is a major benefit. The extra 7 mm allows you to reduce the system impedance of the entire system which will increase airflow and improve the level of cooling and allow much quieter operation.



Super silent blower (radial fan):



Blowers makes it possible to channel and direct the air more directly, and are significantly low noise and energy-saving.

The radial fans are ideally suited for use in compact applications to cool precisely and to blow cooling air on site on the heat sink.

The E10033 is based on the "Gentle Typhoon" technology with integrated noise damping, and **5 dB quieter** than conventional fans.

E1033 blower: Dimensions: 97 x 95 x 33mm; ball bearings shielded on both sides; Max. static pressure: 1400Pa; Max. airflow: 55CFM; Weight: 140g

Certifications: UL/cUL; TUV; RoHs und Reach.

More pressure and volume flow with Nidec Servo axial fans:

Where the airflow drops in the case of single-cut axial fans with increased pressure loss in the device, the G series of Axial fans from Nidec Servo offer a solution.



The G series axial fan with pressure chamber still remains to perform where a volume flow is required at high back pressure is necessary. The integrated pressure chamber with stationary wings ensures that there is much more pressure and volume flow at the working point and the fan lower limits provide.

In contrast to radial fans, where the flow direction swirls centrifugally, the outgoing air flow flows effectively and straight to the screw-on flange. The new range of G-fans shows that this can save energy. First and foremost are performance, reliability and long service life. The fan has an aluminum housing

(Venturi) for cooling the strong motor, ensuring a service life of at least 100,000 hrs at 40°C. Available are the fans with dimensions of 92x38mm; 120x38mm; □134x38mm; and diameter 172 mm

EC-Fans; New Generation AC fan:

EC Fans are relatively new To the Market.

EC fan (Electronically Commutated motor) differentiate from previous AC fans and are Successors, thanks to their optimal level of price/performance.

These EC type of Fans are based on BLDC motors instead of shaded pole motors.

The Rotation of the motor is generated and controlled by an integrated Commutation Electronics. Result is a very high Efficiency. The optimized Design between the motor and the Electronics results in a low level of Noise.

We offer the EC fans as axial fan or centrifugal fan

Additional Special Functions on semi standard products:

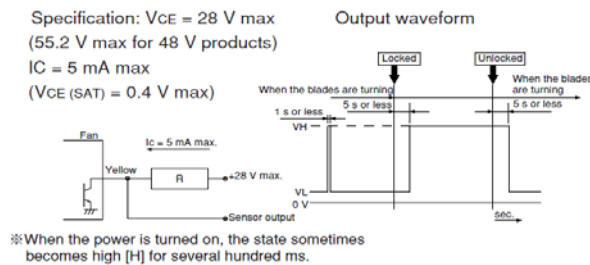
our fans and blowers are also available with optional additional integrated functions and intelligence.

predictive maintenance:

Most models are also available with signal outputs for speed, threshold and blockage. An alarm signal will be sent when the speed of the fan motor slows down for predictive and preventive maintenance, resulting in a higher plant availability

1. Lock detection type (Product code: S)

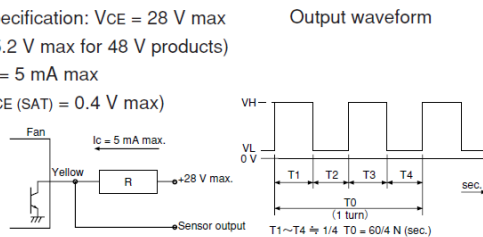
Specification: $V_{CE} = 28 \text{ V max}$
 (55.2 V max for 48 V products)
 $I_C = 5 \text{ mA max}$
 ($V_{CE(SAT)} = 0.4 \text{ V max}$)



The output signal indicates an [L] state (transistor is ON) while the propeller is rotating, changing to an [H] state (transistor is OFF) less than five seconds after the propeller stops rotating. The propeller automatically restarts operation within five seconds when the lock is unlocked.

2. Pulse output type (Product code: P)

Specification: $V_{CE} = 28 \text{ V max}$
 (55.2 V max for 48 V products)
 $I_C = 5 \text{ mA max}$
 ($V_{CE(SAT)} = 0.4 \text{ V max}$)



A rectangular wave of two pulses will be output for each turn of the propeller while the propeller is rotating, outputting two types of signal depending on the propeller position when the propeller is

※Output signal waveform when the fan is stopped: The following two types of waveform are output, depending on the blade position when the propeller is stopped:

Pulse outputs of High - constant or restart timing (0.05 Hz to 2 Hz).
 locked.

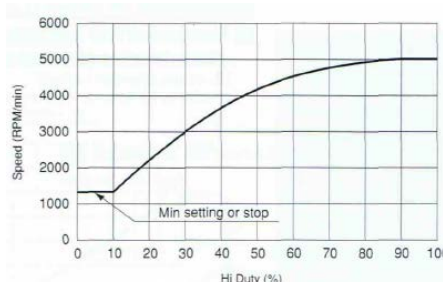
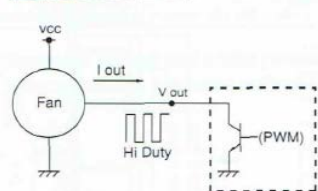
3. Speed detection type (Product code: Q)

The output signal indicates the [H] state when the propeller revolutions are slower than the preset speed, changing to the [L] state when the propeller revolutions exceed the reset speed. Products with a reversed output waveform are also available, suitable for a wired OR connection when several fans are installed. Contact Dynerics for further information

Speed control:

4. PWM variable-speed

I_{out}	1 mA MAX.
V_{out}	Supply volt. MAX.
V_{lossat}	0.4 MAX.
Freq.	2000 Hz~5000 Hz



A PWM signal from the customer equipment is input to the control line of the fan motor for a stepless variable-speed operation of fans and blowers.

Also resulting in a further reduction in power consumption and of noise levels.

We also offer fans with a speed control by a VC (Voltage Control). With this function the speed can be controlled by applying an external DC Voltage signal on a separate wire. This voltage input may have any value from 0V to 10V (standard value is 0 to 5V). The fan speed will vary linearly and is proportional to the % change of the "Vin" value, corresponding to the same % change of the maximum speed

Other customer-specific solutions are available (cable assemblies, waterproof or high humidity protection coating; etc.) IP-levels of waterproof, humidity sealings, potting, finger guards, cable assemblies, etc.

for complete customized solutions, See last page of this brochure

how to select the right fan or blower:

The method to calculate the required airflows (ventilation rates) is described for the cooling of equipment which generates heat. The airflow (ventilation rate) necessary for internal equipment cooling is calculated as follows: (Note: the entire heat is exhausted by ventilation airflow and heat from radiation or conduction is not taken into consideration)

$$Q = \frac{W}{\rho \times C \times \Delta T}$$

Q : Required airflow [m³/s]
 W : Heat generation rate [W]
 ρ : Specific weight of air [kg/m³]
 C : Specific heat of air [J/kg°C]
 ΔT : temperature rise of air [°C]

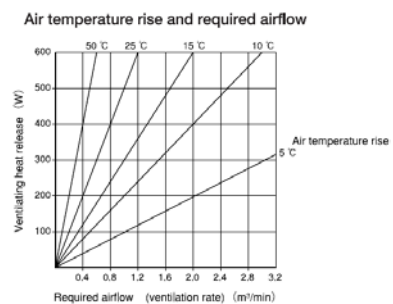
$$= \frac{W}{1200 \times \Delta T}$$

(ρ and C are values at 25 °C. Use the value 1100 instead of 1200 at 50 °C)

Example: When wishing to limit the air temperature rise inside equipment that generates 100 W of heat, the following calculation formula is used:

$$Q = \frac{100}{1200 \times 10} = 8.3 \times 10^{-3} \text{ m}^3/\text{s} = 0.50 \text{ m}^3/\text{min}$$

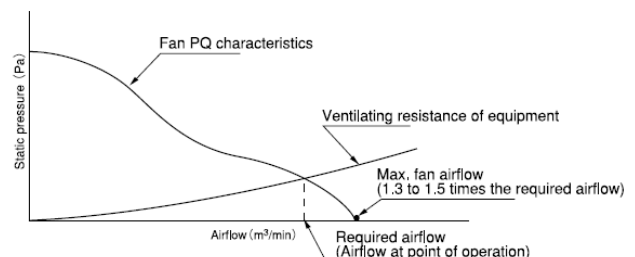
An airflow of 0.50 m³ / min or more is required. This calculation formula for the required airflows (ventilation rate) can be translated into a graph as shown



The required airflow and ventilating resistance of equipment must be determined when selecting a fan or a blower. However, accurate determination of a ventilating resistance is difficult. In general you can select a fan's max. airflow by multiplying the required airflow by 1.3 to 1.5. (The following figure shows the case of an air channel with an area approximately equal to that of the fan.)

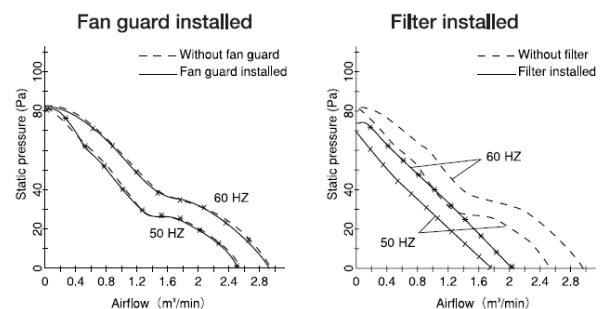
If an adequate air channel is not available due to a high density of mounted parts, a fan with a max. airflow of more than two times the required airflow is sometimes needed. In this case, a special fan for a high static pressure region or a blower is recommended. The following methods are used to accurately determine the ventilating resistance of equipment:

- 1) Send the equipment to a fan manufacturer and ask them to measure the ventilating resistance.
- 2) If 3D data of the equipment is available, ask the fan manufacturer to calculate the resistance.
- 3) Install a fan or a blower, whose relationship between the PQ characteristics and speed is already known, within the equipment and determine the ventilating resistance by measuring the speed.

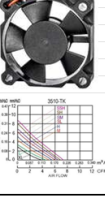
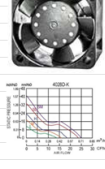


Options such as a fan guard and filter are sometimes installed for safety.


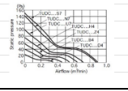
These options, however, increase the ventilation resistance and noise. A fan guard has slight ventilation resistance and degrades the PQ characteristics only negligibly. However, when tightly fitted onto a fan, the noise level increases by about +1 to +5 dB. In particular, options should be installed more than 10 mm away from the fan to minimize the increase in noise. Using a 120 mm×38 mm AC fan (CN55B3) as an example, fluctuations of the PQ characteristics when options are installed are plotted in next figures.


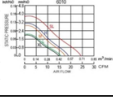

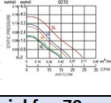

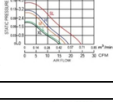

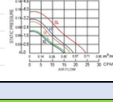

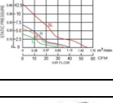

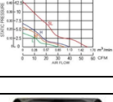

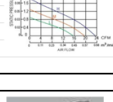

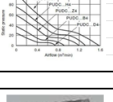

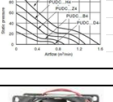

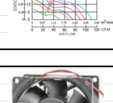
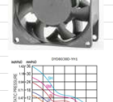
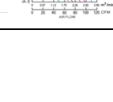


With pleasure our engineers help you to select the best fan for your application

axial fan 35sq x 10mm								
	title	DY3510V12L-TK	DY3510V12M-TK	DY3510V12H-TK	DY3510V12SL-TK	DY3510V12SM-TK	DY3510V12SH-TK	
	Max. Airflow	m3/min	0,13	0,14	0,15	0,17	0,18	0,19
	Max. Airflow	CFM	4,5	5	5,32	6,06	6,39	6,87
	Max. Static pressure	Pa	34,42	42,27	50,21	59,92	66,39	78,16
	Max. Static pressure	mmH2o	3,51	4,31	5,12	6,11	6,77	7,97
	noise	dB	31	34,4	37,1	39,4	41	42,6
	speed	rpm	8000	9000	10000	11000	12000	13000
	input	W	0,6	0,65	0,7	0,8	0,9	1
	Voltage	V	12	12	12	12	12	12
	Current	mA	50	54	58	67	75	83
size frame	mm	35 x 35 x 10	35 x 35 x 10	35 x 35 x 10	35 x 35 x 10	35 x 35 x 10	35 x 35 x 10	
operating temperature	°C	-30 - +70	-30 - +70	-30 - +70	-30 - +70	-30 - +70	-30 - +70	
axial fan 35sq x 10mm								
	title	DY3510V12SSH-TK	DY3510V5XL-TK	DY3510V5L-TK	DY3510V5M-TK	DY3510V5H-TK		
	Max. Airflow	m3/min	0,21	0,11	0,13	0,14	0,15	
	Max. Airflow	CFM	7,41	3,91	4,5	5	5,32	
	Max. Static pressure	Pa	85,71	27,85	34,42	42,27	50,21	
	Max. Static pressure	mmH2o	8,74	2,84	3,51	4,31	5,12	
	noise	dB	44,7	28	31	34,4	37,1	
	speed	rpm	14000	7000	8000	9000	10000	
	input	W	1,1	0,5	0,6	0,65	0,7	
	Voltage	V	12	5	5	5	5	
	Current	mA	92	100	120	130	140	
size frame	mm	35 x 35 x 10	35 x 35 x 10	35 x 35 x 10	35 x 35 x 10	35 x 35 x 10		
operating temperature	°C	-30 - +70	-30 - +70	-30 - +70	-30 - +70	-30 - +70		
axial fan 35sq x 10mm								
	title	DY3510V5SL-TK	DY3510V5SM-TK	DY3510V5SH-TK	DY3510V5SSH-TK			
	Max. Airflow	m3/min	0,17	0,18	0,19	0,21		
	Max. Airflow	CFM	6,06	6,39	6,87	7,41		
	Max. Static pressure	Pa	59,92	66,39	78,16	85,71		
	Max. Static pressure	mmH2o	6,11	6,77	7,97	8,74		
	noise	dB	39,4	41	42,6	44,7		
	speed	rpm	11000	12000	13000	14000		
	input	W	0,8	0,9	1	1,1		
	Voltage	V	5	5	5	5		
	Current	mA	160	180	200	220		
size frame	mm	35 x 35 x 10	35 x 35 x 10	35 x 35 x 10	35 x 35 x 10			
operating temperature	°C	-30 - +70	-30 - +70	-30 - +70	-30 - +70			
axial fan 38sq x 28mm								
	title	DY3828V12MBD-K	DY3828V12HBD-K	DY3828V12SLBD-K	DY3828V12SMBD-K			
	Max. Airflow	m3/min	0,35	0,46	0,54	0,59		
	Max. Airflow	CFM	12,46	16,3	19,61	20,8		
	Max. Static pressure	Pa	122,19	254,09	340,39	415,80		
	Max. Static pressure	mmH2o	12,46	25,91	34,71	42,4		
	noise	dB	44	51	55	59		
	speed	rpm	10000	13000	15000	17000		
	input	W	3,6	6	9,84	12		
	Voltage	V	12	12	12	12		
	Current	mA	300	500	820	1000		
size frame	mm	38 x 38 x 28	38 x 38 x 28	38 x 38 x 28	38 x 38 x 28			
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70			
axial fan 40sq x 7mm								
	title	DY4007V5HB	DY4007V5MB	DY4007V12HB	DY4007V12HB			
	Max. Airflow	m3/min	0,18	0,15	0,18	0,15		
	Max. Airflow	CFM	6,51	5,4	6,51	5,4		
	Max. Static pressure	Pa	31,87	23,93	28,34	23,93		
	Max. Static pressure	mmH2o	3,25	2,44	2,89	2,44		
	noise	dB	34	30	34	30		
	speed	rpm	7500	6500	7500	6500		
	input	W	1,3	1,2	1,6	1,3		
	Voltage	V	5	5	12	12		
	Current	mA	250	230	130	110		
size frame	mm	40 x 40 x 7	40 x 40 x 7	40 x 40 x 7	40 x 40 x 7			
operating temperature	°C	-10 - +60	-10 - +60	-10 - +60	-10 - +60			
axial fan 40sq x 13mm								
	title	EUDC12Z8	EUDC12B8	EUDC24B8	EUDC12D8			
	Max. Airflow	m3/min	0,23	0,18	0,18	0,12		
	Max. Airflow	CFM	8,1	6,4	6,4	4,2		
	Max. Static pressure	Pa	79	59	59	30		
	Max. Static pressure	mmH2o	8,12	6,09	6,09	3,05		
	noise	dB	37	30	30	26		
	speed	rpm	9000	7200	7200	5200		
	input	W	1,5	0,9	1,1	0,5		
	Voltage	V	12	12	24	12		
	Current	mA	130	75	50	40		
size frame	mm	40 x 40 x 13	40 x 40 x 13	40 x 40 x 13	40 x 40 x 13			
operating temperature	°C	-20 - +70	-20 - +80	-20 - +80	-20 - +80			
axial fan 40sq x 20mm								
	title	DY4020V12H	DY4020V12M	DY4020V12L	DY4020V24H	DY4020V24M	DY4020V24L	
	Max. Airflow	m3/min	0,24	0,2	0,24	0,24	0,18	
	Max. Airflow	CFM	8,5	7,2	8,5	8,5	6,4	
	Max. Static pressure	Pa	48,05	33,34	27,46	48,05	33,34	
	Max. Static pressure	mmH2o	4,9	3,4	2,8	4,9	3,4	
	noise	dB	32,7	28,4	26,7	32,7	28,4	
	speed	rpm	7000	6000	5000	7000	6000	
	input	W	1,92	1,2	0,96	4,32	3,12	
	Voltage	V	12	12	12	24	24	
	Current	mA	160	100	80	180	100	
size frame	mm	40 x 40 x 20	40 x 40 x 20	40 x 40 x 20	40 x 40 x 20	40 x 40 x 20		
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70		
axial fan 40sq x 28mm								
	title	DY4028V12SMBD-K	DY4028V12SLBD-K	DY4028V12HBD-K	DY4028V12MBD-K	DY4028V12SLBD-K	DY4028V24SLBD-K	
	Max. Airflow	m3/min	0,7	0,67	0,45	0,39	0,67	
	Max. Airflow	CFM	24,8	23,8	18,7	15,9	23,8	
	Max. Static pressure	Pa	407,96	330,48	229,48	172,60	330,48	
	Max. Static pressure	mmH2o	41,6	33,7	23,4	17,6	33,7	
	noise	dB	58	54	48	42	54	
	speed	rpm	15000	13000	13000	9500	13000	
	input	W	8,4	6,6	4,2	3,12	6,48	
	Voltage	V	12	12	12	12	24	
	Current	mA	700	550	350	260	270	
size frame	mm	40 x 40 x 28	40 x 40 x 28	40 x 40 x 28	40 x 40 x 28	40 x 40 x 28		
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70		
axial fan 40sq x 28mm								
	title	DY4028V24HBD-K	DY4028V24MBD-K	DY5010V12H	DY5010V12M	DY5010V12L		
	Max. Airflow	m3/min	0,53	0,45	0,35	0,25	0,21	
	Max. Airflow	CFM	18,7	15,9	12,21	8,79	7,49	
	Max. Static pressure	Pa	229,48	172,60	24,91	14,32	11,77	
	Max. Static pressure	mmH2o	23,4	17,6	2,54	1,46	1,2	
	noise	dB	48	42	32	29	20	
	speed	rpm	11000	9500	5500	4000	3500	
	input	W	4,8	3,6	1,92	1,2	0,84	
	Voltage	V	24	24	12	12	12	
	Current	mA	200	150	160	100	70	
size frame	mm	40 x 40 x 28	40 x 40 x 28	50 x 50 x 10	50 x 50 x 10	50 x 50 x 10		
operating temperature	°C	-10 - +70	-10 - +70	-10 - +60	-10 - +60	-10 - +60		

axial fan 50sq x 12mm								
	title	DY5015V12H	DY5015V12M	DY5020V12SSH-TK	DY5020V12SSH-TK			
	Max. Airflow	m3/min	0,49	0,45	0,57	0,521		
	Max. Airflow	CFM	17,22	15,75	20,1	18,4		
	Max. Static pressure	Pa	58,15	50,60	65,80	56,98		
	Max. Static pressure	mmH2o	5,93	5,16	6,71	5,81		
	noise	dB	38	35	18	18		
	speed	rpm	6300	5600	6500	6000		
	input	W	2,28	1,8	3,36	2,88		
	Voltage	V	12	12	12	12		
	Current	mA	190	150	280	240		
	size frame	mm	50 x 50 x 12	50 x 50 x 12	50 x 50 x 20	50 x 50 x 20		
	operating temperature	°C	-10 - +60	-10 - +60	-10 - +70	-10 - +70		
								
axial fan 50sq x 20mm								
	title	DY5020V12SH-TK	DY5020V12SM-TK	DY5020V12SL-TK	DY5020V12H-TK	DY5020V12M-TK	DY5020V12L-TK	
	Max. Airflow	m3/min	0,471	0,417	0,38	0,338	0,283	0,251
	Max. Airflow	CFM	16,6	14,7	13,4	11,9	10,3	8,85
	Max. Static pressure	Pa	45,99	37,66	30,89	25,20	19,52	15,00
	Max. Static pressure	mmH2o	4,69	3,84	3,15	2,57	1,99	1,53
	noise	dB	18	18	18	18	18	18
	speed	rpm	5500	5000	4500	4000	3500	3000
	input	W	2,64	2,16	1,68	1,2	0,96	0,72
	Voltage	V	12	12	12	12	12	12
	Current	mA	220	180	140	100	80	60
	size frame	mm	50 x 50 x 20	50 x 50 x 20	50 x 50 x 20	50 x 50 x 20	50 x 50 x 20	50 x 50 x 20
	operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70
								
axial fan 50sq x 20mm								
	title	DY5020V24SSH-TK	DY5020V24SH-TK	DY5020V24SM-TK	DY5020V24SL-TK	DY5020V24H-TK	DY5020V24M-TK	
	Max. Airflow	m3/min	0,57	0,521	0,471	0,471	0,38	0,338
	Max. Airflow	CFM	20,1	18,4	16,6	14,7	13,4	11,9
	Max. Static pressure	Pa	65,80	56,98	45,99	37,66	30,89	25,20
	Max. Static pressure	mmH2o	6,71	5,81	4,69	3,84	3,15	2,57
	noise	dB	18	18	18	18	18	18
	speed	rpm	6500	6000	5500	5000	4500	4000
	input	W	3,36	2,88	2,64	2,16	1,68	1,2
	Voltage	V	24	24	24	24	24	24
	Current	mA	140	120	110	90	70	50
	size frame	mm	50 x 50 x 20	50 x 50 x 20	50 x 50 x 20	50 x 50 x 20	50 x 50 x 20	50 x 50 x 20
	operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70
								
axial fan 50sq x 20mm								
	title	DY5020V24M-TK	DY5020V24H-TK	DY6010V5H	DY6010V12SL	DY6010V12H	DY6010V12SM	
	Max. Airflow	m3/min	0,283		0,52	0,69	0,54	0,5
	Max. Airflow	CFM	10,3		18,5	24,4	19,1	17,7
	Max. Static pressure	Pa	19,52		31,38	36,48	30,40	28,44
	Max. Static pressure	mmH2o	1,99		3,2	3,72	3,1	2,9
	noise	dB	18		36	38	36,2	35
	speed	rpm	3500		4200	5100	4700	4200
	input	W	0,96		2,1	2,88	2,52	1,92
	Voltage	V	24		5	12	12	12
	Current	mA	40		350	240	210	160
	size frame	mm	50 x 50 x 20		60 x 60 x 10	60 x 60 x 10	60 x 60 x 10	60 x 60 x 10
	operating temperature	°C	-10 - +70		-10 - +70	-10 - +70	-10 - +70	-10 - +70
								
axial fan 60sq x 10mm								
	title	DY6010V12L	DY6010V12XL	DY6010V24H	DY6010V24M	DY6010V5H-K	DY6010V5L-K	
	Max. Airflow	m3/min	0,44	0,42	0,54	0,5	0,56	0,4
	Max. Airflow	CFM	15,6	14,8	19,1	17,7	19,9	14,3
	Max. Static pressure	Pa	20,59	17,65	30,40	28,44	40,21	19,61
	Max. Static pressure	mmH2o	2,1	1,8	3,1	2,9	4,1	2
	noise	dB	29	27	36,2	35	37	28
	speed	rpm	3600	3000	4700	4200	4900	3500
	input	W	1,56	1,92	3,84	3,6	2,1	1,5
	Voltage	V	12	12	24	24	5	5
	Current	mA	130	160	160	150	420	300
	size frame	mm	60 x 60 x 10	60 x 60 x 10	60 x 60 x 10	60 x 60 x 10	60 x 60 x 10	60 x 60 x 10
	operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70
								
axial fan 60sq x 10mm								
	title	DY6010V5M-K	DY6010V12L-K	DY6010V12M-K	DY6010V12H-K	DY6010V24L-K	DY6010V24M-K	
	Max. Airflow	m3/min	0,48	0,4	0,48	0,56	0,4	0,48
	Max. Airflow	CFM	17,1	14,3	17,1	19,9	14,3	17,1
	Max. Static pressure	Pa	30,40	19,61	30,40	40,21	19,61	30,40
	Max. Static pressure	mmH2o	3,1	2	3,1	4,1	2	3,1
	noise	dB	33	28	33	37	28	33
	speed	rpm	4200	3500	4200	4900	3500	4200
	input	W	1,9	1,68	2,04	2,4	1,2	1,92
	Voltage	V	5	12	12	12	24	24
	Current	mA	380	140	170	200	50	80
	size frame	mm	60 x 60 x 10	60 x 60 x 10	60 x 60 x 10	60 x 60 x 10	60 x 60 x 10	60 x 60 x 10
	operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70
								
axial fan 60sq x 10mm								
	title	DY6010V24H-K	DY6015V12SL-K		DY6015V12H-K	DY6015V12M-K		
	Max. Airflow	m3/min	0,56		0,75	0,65	0,62	
	Max. Airflow	CFM	19,9		26,5	23,1	21,7	
	Max. Static pressure	Pa	40,21		55,90	45,11	40,21	
	Max. Static pressure	mmH2o	4,1		5,7	4,6	4,1	
	noise	dB	37		37	35	32	
	speed	rpm	4900		5000	4500	4000	
	input	W	2,4		3,12	2,16	1,68	
	Voltage	V	24		12	12	12	
	Current	mA	100		260	180	140	
	size frame	mm	60 x 60 x 10		60 x 60 x 15	60 x 60 x 15	60 x 60 x 15	
	operating temperature	°C	-10 - +70		-10 - +60	-10 - +60	-10 - +60	
								
axial fan 60sq x 15mm								
	title	DY6015V12L-K	DY6015V12XL-K	DY6015V24SL-K	DY6015V24H-K	DY6015V24M-K	DY6015V24L-K	
	Max. Airflow	m3/min	0,54	0,46	0,75	0,65	0,62	0,54
	Max. Airflow	CFM	19	15	26,5	23,1	21,7	19
	Max. Static pressure	Pa	34,32	22,56	55,90	45,11	40,21	34,32
	Max. Static pressure	mmH2o	3,5	2,3	5,7	4,6	4,1	3,5
	noise	dB	29	24	37	35	32	29
	speed	rpm	3500	3000	5000	4500	4000	3500
	input	W	1,44	1,2	2,64	2,4	1,92	1,44
	Voltage	V	12	12	24	24	24	24
	Current	mA	120	100	110	100	80	60
	size frame	mm	60 x 60 x 15	60 x 60 x 15	60 x 60 x 15	60 x 60 x 15	60 x 60 x 15	60 x 60 x 15
	operating temperature	°C	-10 - +60	-10 - +60	-10 - +60	-10 - +60	-10 - +60	-10 - +60
								
axial fan 60sq x 15mm								
	title	DY6015V24XL-K	DY6020V12SH		DY6020V12H	DY6020V12M		
	Max. Airflow	m3/min	0,43		0,66	0,57	0,49	
	Max. Airflow	CFM	15		23,4	20,3	17,3	
	Max. Static pressure	Pa	22,56		55,90	45,11	33,34	
	Max. Static pressure	mmH2o	2,3		5,7	4,6	3,4	
	noise	dB	24		35,5	30,4	26,2	
	speed	rpm	3000		4800	4200	3600	
	input	W	0,96		3	2,16	1,8	
	Voltage	V	24		12	12	12	
	Current	mA	40		250	180	150	
	size frame	mm	60 x 60 x 15		60 x 60 x 20	60 x 60 x 20	60 x 60 x 20	
	operating temperature	°C	-10 - +60		-10 - +60	-10 - +60	-10 - +60	
								
axial fan 60sq x 20mm								

axial fan 60sq x 25mm							
	title	DY6025V12SH-03	DY6025V12SL-K	DY6025V12SM-03	TUDC12N7	DY6025V12SL-03	TUDC12U7
	Max. Airflow	m3/min	1,09	0,99	0,94	0,87	0,74
	Max. Airflow	CFM	38,7	34,8	33,2	31	26
	Max. Static pressure	Pa	131,41	127,49	10,10	130	100
	Max. Static pressure	mmH2o	13,4	13	10,3	13,20	10,15
	noise	dB	47	46,5	42	46	39
	speed	rpm	7000	6800	6000	6800	5700
	input	W	4,68	4,32	4,08	4,2	2,5
	Voltage	V	12	12	12	12	12
	Current	mA	390	360	340	350	210
	size frame	mm	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25
	operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-20 - +60
							
axial fan 60sq x 25mm							
	title	DY6025V12H-K	TUDC12H4	DY6025V12M-K	DY6025V1XSL-K		
	Max. Airflow	m3/min	0,73	0,65	0,61	0,4	
	Max. Airflow	CFM	25,6	23	21,5	14,1	
	Max. Static pressure	Pa	63,74	75	47,37	24,91	
	Max. Static pressure	mmH2o	6,5	7,62	4,83	2,54	
	noise	dB	40	37	34	26	
	speed	rpm	5000	5000	5250	3100	
	input	W	4,2	2,6	1,92	1,2	
	Voltage	V	12	12	12	12	
	Current	mA	350	220	160	100	
	size frame	mm	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25	
	operating temperature	°C	-10 - +70	-20 - +60	-10 - +70	-10 - +70	
							
axial fan 60sq x 25mm							
	title	DY6025V12H-03	TUDC1224	DY6025V12L-K	TUDC12B4	DY6025V12M-03	DY6025V12L-03
	Max. Airflow	m3/min	0,6	0,55	0,52	0,47	0,4
	Max. Airflow	CFM	19,5	19	18,5	17	13,5
	Max. Static pressure	Pa	37,27	59	34,91	39	18,63
	Max. Static pressure	mmH2o	3,8	6,09	3,56	4,06	1,9
	noise	dB	29,7	32	31	27	26,5
	speed	rpm	3800	4300	3600	3650	3600
	input	W	1,56	1,8	1,44	1,4	1,32
	Voltage	V	12	12	12	12	12
	Current	mA	130	140	120	130	90
	size frame	mm	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25
	operating temperature	°C	-10 - +70	-20 - +70	-10 - +70	-20 - +70	-10 - +70
							
axial fan 60sq x 25mm							
	title	TUDC12B4	DY6025V24SH-03	DY6025V24SM-03	DY6025V24H-K		
	Max. Airflow	m3/min	0,35	1,09	0,94	0,73	
	Max. Airflow	CFM	12	38,4	33,2	25,6	
	Max. Static pressure	Pa	24	131,41	101,01	63,74	
	Max. Static pressure	mmH2o	2,54	13,4	10,3	6,5	
	noise	dB	20	47	42	40	
	speed	rpm	2750	7000	6000	5000	
	input	W	0,9	5,28	4,32	4,8	
	Voltage	V	12	24	24	24	
	Current	mA	80	220	180	200	
	size frame	mm	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25	
	operating temperature	°C	-20 - +70	-10 - +70	-10 - +70	-10 - +70	
							
axial fan 60sq x 25mm							
	title	TUDCS24S7	DY6025V24SL-03	DY6025V24M-K	DY6025V24H-03	TUDC24Z4	DY6025V24L-K
	Max. Airflow	m3/min	0,9	0,78	0,6	0,55	0,52
	Max. Airflow	CFM	32	27,4	21,5	19,5	18,5
	Max. Static pressure	Pa	150	71,10	47,37	37,27	34,91
	Max. Static pressure	mmH2o	15,23	7,25	4,83	3,8	3,56
	noise	dB	44	38	34	29,7	31
	speed	rpm	6900	5000	4250	3800	3600
	input	W	4,8	3,12	2,64	2,88	1,92
	Voltage	V	24	24	24	24	24
	Current	mA	200	130	110	120	80
	size frame	mm	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25
	operating temperature	°C	-20 - +60	-10 - +70	-10 - +70	-10 - +70	-10 - +70
							
axial fan 60sq x 25mm							
	title	TUDC24B4	DY6025V24M-03	DY6025V24XL-K	TUDC24H4		
	Max. Airflow	m3/min	0,47	0,5	0,4	0,65	
	Max. Airflow	CFM	17	16,5	14,1	23	
	Max. Static pressure	Pa	39	28,44	24,91	75	
	Max. Static pressure	mmH2o	4,06	2,9	2,54	7,62	
	noise	dB	27	26,5	26	37	
	speed	rpm	3650	3200	3100	5000	
	input	W	1,4	2,4	1,44	2,6	
	Voltage	V	24	24	24	24	
	Current	mA	70	100	60	110	
	size frame	mm	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25	
	operating temperature	°C	-20 - +70	-10 - +70	-10 - +70	-20 - +60	
							
axial fan 60sq x 25mm							
	title	DY6025V24L-03	TUDC24D4	DY6025V48H-K	TUDC48H4	DY6025V48M-K	TUDC48Z4
	Max. Airflow	m3/min	0,4	0,35	0,73	0,65	0,55
	Max. Airflow	CFM	13,2	12	25,6	23	19,5
	Max. Static pressure	Pa	18,63	24	63,74	75	47,37
	Max. Static pressure	mmH2o	1,9	2,54	6,5	7,62	6,09
	noise	dB	25,7	20	40	37	32
	speed	rpm	2600	2750	5000	5000	4250
	input	W	1,92	0,9	5,76	2,5	3,36
	Voltage	V	24	24	48	48	48
	Current	mA	80	40	120	70	40
	size frame	mm	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25
	operating temperature	°C	-10 - +70	-20 - +70	-10 - +70	-20 - +60	-10 - +70
							
axial fan 60sq x 25mm							
	title	DY6025V48L-K	TUDC48B4		DY6038V12SLBD-K	DY6038V12HBD-K	DY6038V12MBD-K
	Max. Airflow	m3/min	0,52	0,47		1,91	1,44
	Max. Airflow	CFM	18,5	17		67,3	50,8
	Max. Static pressure	Pa	34,91	39		515,63	296,46
	Max. Static pressure	mmH2o	3,56	4,06		52,58	30,23
	noise	dB	31	27		62	54
	speed	rpm	3600	3650		12000	10000
	input	W	2,88	1,8		16,56	12
	Voltage	V	48	48		12	12
	Current	mA	60	40		1380	1000
	size frame	mm	60 x 60 x 25	60 x 60 x 25		60 x 60 x 38	60 x 60 x 38
	operating temperature	°C	-10 - +70	-20 - +70		-10 - +70	-10 - +70
							
axial fan 60sq x 38mm							
	title	DY6038V12LBD-K	DY6038V24SLBD-K	DY6038V24HBD-K	DY6038V24MBD-K	DY6038V24LBD-K	DY6038V48SLBD-K
	Max. Airflow	m3/min	1,22	1,91	1,56	1,44	1,91
	Max. Airflow	CFM	43,1	67,3	55,2	50,8	67,3
	Max. Static pressure	Pa	224,18	515,63	351,18	296,46	515,63
	Max. Static pressure	mmH2o	22,86	52,58	35,81	30,23	52,58
	noise	dB	51	62	57	54	62
	speed	rpm	8000	12000	10000	9000	12000
	input	W	6,24	18	12,72	9,6	5,28
	Voltage	V	12	24	24	24	48
	Current	mA	520	750	530	400	380
	size frame	mm	60 x 60 x 38	60 x 60 x 38	60 x 60 x 38	60 x 60 x 38	60 x 60 x 38
	operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70
							

axial fan 60sq x 38mm				axial fan 70sq x 15mm				
 	title	DY6038V48MBD-K	DY6038V48LBD-K	 	DY7015V12H-K	DY7015V12M-K	DY7015V12L-K	
	Max. Airflow	m3/min	1,44		1,22	0,95	0,84	0,73
	Max. Airflow	CFM	50,8		43,1	33,5	29,6	25,7
	Max. Static pressure	Pa	296,46		224,18	2,16	1,67	1,27
	Max. Static pressure	mmH2O	30,23		22,86	0,22	0,17	0,13
	noise	dB	54		51	39	35	31
	speed	rpm	9000		8000	4300	3800	3300
	input	W	9,6		5,28	3,36	2,16	1,56
	Voltage	V	48		48	12	12	12
	Current	mA	200		110	280	180	130
	size frame	mm	60 x 60 x 38		60 x 60 x 38	70 x 70 x 15	70 x 70 x 15	70 x 70 x 15
	operating temperature	°C	-10 - +70		-10 - +70	-10 - +70	-10 - +70	-10 - +70
	axial fan 70sq x 15mm				axial fan 70sq x 25mm			
 	title	DY7015V12XL-K	 	DY7025V12SL-K	DY7025V12SH	DY7025V12H	DY7025V12H-K	
	Max. Airflow	m3/min		0,6	1,55	1,53	1,4	1,13
	Max. Airflow	CFM		21,1	54,8	54	49,36	39,9
	Max. Static pressure	Pa		0,88	125,53	137,29	112,68	66,69
	Max. Static pressure	mmH2O		0,09	12,8	14	11,49	6,8
	noise	dB		27	45	48	45	37
	speed	rpm		2800	5500	6000	5500	4000
	input	W		1,23	4,2	7,44	6,24	1,56
	Voltage	V		12	12	12	12	12
	Current	mA		110	350	620	520	130
	size frame	mm		70 x 70 x 15	70 x 70 x 25	70 x 70 x 25	70 x 70 x 25	70 x 70 x 25
	operating temperature	°C		-10 - +70	-10 - +70	-10 - +60	-10 - +60	-10 - +70
	axial fan 70sq x 25mm				axial fan 70sq x 25mm			
 	title	DY7025V12M-K	DY7025V12L-K	DY7025V24SL-K	DY7025V24H-K	DY7025V24M-K	DY7025V24L-K	
	Max. Airflow	m3/min	1,01	0,85	1,55	1,13	1,01	0,85
	Max. Airflow	CFM	35,6	30	39,9	39,9	35,6	30
	Max. Static pressure	Pa	53,94	38,25	125,53	66,69	53,94	38,25
	Max. Static pressure	mmH2O	5,5	3,9	12,8	6,8	5,5	3,9
	noise	dB	32	27	45	37	32	27
	speed	rpm	3600	3000	5500	4000	3600	3000
	input	W	1,08	0,84	3,84	1,92	1,44	1,2
	Voltage	V	12	12	24	24	24	24
	Current	mA	90	70	160	80	60	50
	size frame	mm	70 x 70 x 25	70 x 70 x 25	70 x 70 x 25	70 x 70 x 25	70 x 70 x 25	70 x 70 x 25
	operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70
	axial fan 70sq x 25mm				axial fan 70sq x 25mm			
 	title	DY7025V48H-K	DY7025V48M-K	DY7025V48L-K				
	Max. Airflow	m3/min	1,13	1,01	0,85			
	Max. Airflow	CFM	39,9	35,6	30			
	Max. Static pressure	Pa	66,69	53,94	38,25			
	Max. Static pressure	mmH2O	6,8	5,5	3,9			
	noise	dB	37	32	27			
	speed	rpm	4000	3600	3000			
	input	W	3,36	2,4	1,92			
	Voltage	V	48	48	48			
	Current	mA	70	50	40			
	size frame	mm	70 x 70 x 25	70 x 70 x 25	70 x 70 x 25			
	operating temperature	°C	-10 - +70	-10 - +70	-10 - +70			
	axial fan 80sq x 10mm				axial fan 80sq x 10mm			
 	title	DY8010V12H	DY8010V12M	DY8010V12L	DY8010V24H	DY8010V24M	DY8010V24L	
	Max. Airflow	m3/min	0,66	0,56	0,44	0,66	0,56	0,44
	Max. Airflow	CFM	23,45	19,68	15,58	23,45	19,68	15,58
	Max. Static pressure	Pa	17,75	12,85	8,83	17,75	12,85	8,83
	Max. Static pressure	mmH2O	1,81	1,31	0,9	1,81	1,31	0,9
	noise	dB	31	27	23	31	27	23
	speed	rpm	3000	2500	2000	3000	2500	2000
	input	W	2,9	2,2	1,4	3,4	2,6	1,9
	Voltage	V	12	12	12	24	24	24
	Current	mA	240	180	120	140	110	80
	size frame	mm	80 x 80 x 10	80 x 80 x 10	80 x 80 x 10	80 x 80 x 10	80 x 80 x 10	80 x 80 x 10
	operating temperature	°C	-10 - +60	-10 - +60	-10 - +60	-10 - +60	-10 - +60	-10 - +60
	axial fan 80sq x 25mm				axial fan 80sq x 25mm			
 	title	PUDC12U7	PUDC12H4	PUDC12Z4	PUDC12B4	PUDC12D4	DYD8025V24HBD-TK	
	Max. Airflow	m3/min	1,58	1,32	1,2	0,94	0,73	1,91
	Max. Airflow	CFM	56	47	42	33	26	67,45
	Max. Static pressure	Pa	100	74	59	38	25	113,68
	Max. Static pressure	mmH2O	10,15	7,62	6,09	3,81	2,54	11,6
	noise	dB	47	40	35	30	23	49,8
	speed	rpm	4560	3900	3500	2800	2150	5000
	input	W	4	3,8	2,4	1,5	1	6,24
	Voltage	V	12	12	12	12	12	24
	Current	mA	340	320	160	140	80	260
	size frame	mm	80 x 80 x 25	80 x 80 x 25	80 x 80 x 25	80 x 80 x 25	80 x 80 x 25	80 x 80 x 25
	operating temperature	°C	-20 - +60	-20 - +60	-20 - +70	-20 - +70	-20 - +70	-10 - +70
	axial fan 80sq x 25mm				axial fan 80sq x 25mm			
 	title	PUDC24U7	PUDC24H4	PUDC24Z4	PUDC24B4			
	Max. Airflow	m3/min	1,58	1,32	1,2	0,94		
	Max. Airflow	CFM	56	47	42	33		
	Max. Static pressure	Pa	100	74	59	38		
	Max. Static pressure	mmH2O	10,15	7,62	6,09	3,81		
	noise	dB	47	40	35	30		
	speed	rpm	4560	3900	3500	2800		
	input	W	4,3	3,8	2,4	2,4		
	Voltage	V	24	24	24	24		
	Current	mA	180	160	100	80		
	size frame	mm	80 x 80 x 25	80 x 80 x 25	80 x 80 x 25	80 x 80 x 25		
	operating temperature	°C	-20 - +60	-20 - +60	-20 - +70	-20 - +70		
	axial fan 80sq x 25mm				axial fan 80sq x 25mm			
 	title	PUDC24D4	DYD8038V24SHD-YH1	DYD8038V24SMD-YH1	DYD8038V24SLD-YH1	DYD8038V24MD-YH1	DYD8038V48SHD-YH1	
	Max. Airflow	m3/min	0,73	3,17	2,76	2,55	1,94	3,17
	Max. Airflow	CFM	26	111,87	97,41	89,97	68,55	111,87
	Max. Static pressure	Pa	25	349,8	270,6	233	136,4	349,8
	Max. Static pressure	mmH2O	2,54	36,67	27,59	23,76	13,91	35,67
	noise	dB	23	66,6	63,5	61	54,2	66,6
	speed	rpm	2150	8500	7500	7000	5500	8500
	Voltage	V	24	24	24	24	24	48
	Current	mA	40	900	800	680	340	460
	size frame	mm	80 x 80 x 25	80sq x 25	80sq x 25	80sq x 25	80sq x 25	80sq x 25
	operating temperature	°C	-20 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70
	axial fan 80sq x 25mm				axial fan 80sq x 25mm			
	 	title	DYD8038V48SMD-YH1	DYD8038V48SLD-YH1	DYD8038V48HD-YH1			
Max. Airflow		m3/min	2,76	2,55	2,12			
Max. Airflow		CFM	97,41	89,97	75,01			
Max. Static pressure		Pa	270,6	233	162,1			
Max. Static pressure		mmH2O	27,59	23,76	16,53			
noise		dB	63,5	61	56,2			
speed		rpm	7500	7000	6000			
Voltage		V	48	48	48			
Current		mA	450	350	200			
size frame		mm	80sq x 25	80sq x 25	80sq x 25			
operating temperature		°C	-10 - +70	-10 - +70	-10 - +70			

axial fan 80sq x 38mm							
title		DYD8038V125MD-YH1	DYD8038V125LD-YH1	DYD8038V125MD-K	DYD8038V125HD-YH1	DYD8038V125SD-YH1	DYD8038V125MD-YH1
Max. Airflow	m3/min	2,75	2,55	2,23	2,12	2,12	1,94
Max. Airflow	CFM	97,41	89,97	78,8	75,01	75,01	68,55
Max. Static pressure	Pa	270,6	233	189,3	162,1	162,1	136,4
Max. Static pressure	mmH2o	27,59	23,76	19,3	16,53	16,53	13,91
noise	dB	63,5	61	53	56,2	56,2	54,2
speed	rpm	7500	7000	5600	6000	6000	5500
Voltage	V	12	12	12	12	12	12
Current	mA	1620	1320	760	920	920	790
size frame	mm	80sq x 38	80sq x 38	80sq x 38	80sq x 38	80sq x 38	80sq x 38
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70

axial fan 80sq x 38mm							
title		DYD8038V125LD-YH1	DYD8038V24LD-YH1	DYD8032V245M-TK			
Max. Airflow	m3/min	1,42	1,42	2,85			
Max. Airflow	CFM	50,03	50,03	100,8			
Max. Static pressure	Pa	79,4	79,4	289,6			
Max. Static pressure	mmH2o	8,1	45,6	29,53			
noise	dB	45,6	200	61,2			
speed	rpm	4000	4000	5000			
Voltage	V	12	24	24			
Current	mA	400	200	760			
size frame	mm	80sq x 38	80sq x 38	80sq x 32			
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70			

axial fan 92sq x 25mm							
title		D0925C128BAZ-00	D0925C128BAZ-00	D0925C128BAZ-00	D0925C248BZP-00	D0925C248BAZ-00	D0925C248BAZ-00
Max. Airflow	m3/min	2	1,66	1,5	2	1,84	1,66
Max. Airflow	CFM	71	59	53	71	65	59
Max. Static pressure	Pa	67	48	40	67	55	48
Max. Static pressure	mmH2o	6,85	4,82	4,06	6,85	5,59	4,82
noise	dB	40	35	34	40	38	36
speed	rpm	4450	3750	3400	4450	4000	3750
Voltage	V	12	12	12	24	24	24
Current	mA	330	200	150	170	140	110
size frame	mm	92 x 92 x 25	92 x 92 x 25	92 x 92 x 25	92 x 92 x 25	92 x 92 x 25	92 x 92 x 25
operating temperature	°C	-20 - +60	-20 - +70	-20 - +70	-20 - +60	-20 - +65	-20 - +70
Voltage Operating range	V	10,2 - 13,2	10,2 - 13,2	10,2 - 13,2	21,6 - 26,4	12,0 - 26,4	12,0 - 26,4

axial fan 92sq x 25mm				axial fan 92sq x 25mm			
title		D0925C248BAZ-00		KLDC1284	KLDC2427	KLDC24B4	
Max. Airflow	m3/min	1,5		1,5	1,7	1,5	
Max. Airflow	CFM	53		53	60	53	
Max. Static pressure	Pa	40		65	86	65	
Max. Static pressure	mmH2o	4,06		6,60	8,89	6,60	
noise	dB	34		39	43	39	
speed	rpm	3400		3200	3800	3200	
Voltage	V	24		3,5	3,6	3,5	
Current	mA	90		12	24	24	
size frame	mm	92 x 92 x 25		280	150	140	
operating temperature	°C	-20 - +70		92 x 92 x 32	92 x 92 x 32	92 x 92 x 32	
Voltage Operating range	V	12,0 - 26,4		-20 - +70	-20 - +70	-20 - +70	

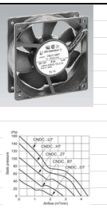
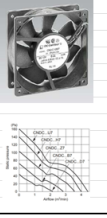
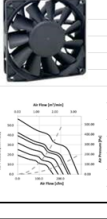
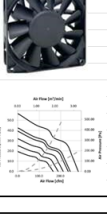
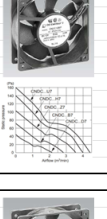
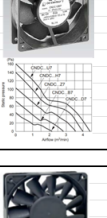
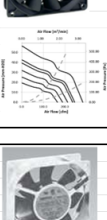
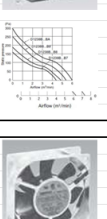
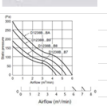
axial fan 92sq x 32mm							
title		DYN9225V24M	DYN9225V24M-K	DYN9225V48SLBD-YH2	DYN9225V48HBD-YH2	DYN9225V48MBD-YH2	
Max. Airflow	m3/min	1,7	1,34	2,94	2,63	2,36	
Max. Airflow	CFM	50,5	47,5	103,8	92,99	83,41	
Max. Static pressure	Pa	34,32	42,17	104,5	86,2	70,2	
Max. Static pressure	mmH2o	3,5	4,3	10,66	8,79	7,16	
noise	dB	34	34	56,3	53	49	
speed	rpm	2500	2850	5000	4500	4000	
input	W	3,36	2,4	9,6	8,16	6,24	
Voltage	V	24	24	48	48	48	
Current	mA	140	100	200	170	130	
size frame	mm	92 x 92 x 32	92 x 92 x 32	92 x 92 x 32	92 x 92 x 32	92 x 92 x 32	
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	

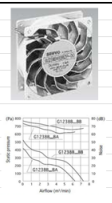
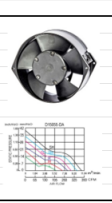
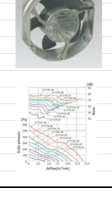
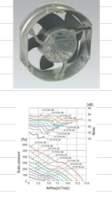
axial fan 92sq x 38mm (Aluminium frame)							
title		G0938B128AZP-00	G0938B128BZP-00	G0938B128BZP-00	G0938B248AZP-00	G0938B248BZP-00	G0938B248BZP-00
Max. Airflow	m3/min	3,9	3,6	3,2	3,9	3,6	3,6
Max. Airflow	CFM	138	127	113	138	127	127
Max. Static pressure	Pa	490	440	350	490	440	440
Max. Static pressure	mmH2o	50,01	44,94	35,80	50,01	44,94	44,94
noise	dB	63	61	58	63	61	61
speed	rpm	7500	7000	6300	7500	7000	7000
Voltage	V	12	12	12	24	24	24
Current	mA	2600	2000	1500	1300	1000	1000
size frame	mm	92 x 92 x 38	92 x 92 x 38	92 x 92 x 38	92 x 92 x 38	92 x 92 x 38	92 x 92 x 38
operating temperature	°C	-20 - +60	-20 - +60	-20 - +70	-20 - +60	-20 - +60	-20 - +60
Voltage Operating range	V	8,4 - 13,2	8,4 - 13,8	8,4 - 13,8	16,8 - 26,4	16,8 - 26,4	16,8 - 27,6



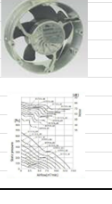
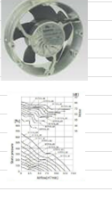
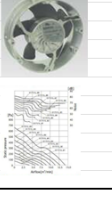
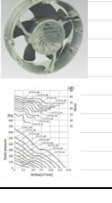
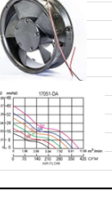
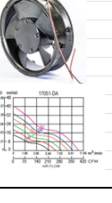
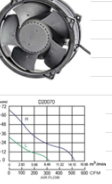
axial fan 92sq x 38mm (Aluminium frame)							
title		G0938B248BZP-00	G0938B488AZP-00	G0938B488BZP-00	G0938B488BZP-00		
Max. Airflow	m3/min	3,2	3,9	3,6	3,2		
Max. Airflow	CFM	113	138	127	113		
Max. Static pressure	Pa	350	490	440	350		
Max. Static pressure	mmH2o	35,80	50,01	44,94	35,80		
noise	dB	58	63	61	58		
speed	rpm	6300	7000	7000	6300		
Voltage	V	24	48	48	48		
Current	mA	700	610	520	360		
size frame	mm	92 x 92 x 38	92 x 92 x 38	92 x 92 x 38	92 x 92 x 38		
operating temperature	°C	-20 - +70	-20 - +60	-20 - +60	-20 - +70		
Voltage Operating range	V	16,8 - 27,6	36 - 52,8	36 - 55,2	36 - 55,2		

axial fan 120sq x 25mm							
title		D1225C128BAZ-00	D1225C128BAZ-00	D1225C128BAZ-00	D1225C128BAZ-00	D1225C128BAZ-00	D1225C128BAZ-00
Max. Airflow	m3/min	4,25	3,3	2,35	1,95	1,65	1,3
Max. Airflow	CFM	150,1	116,5	83	69	58	46
Max. Static pressure	Pa	150	95	49	28	20	13
Max. Static pressure	mmH2o	15,23	9,65	5,08	2,87	2,06	1,29
noise	dB	50,5	44	36,5	30	26	19
speed	rpm	5400	4250	3000	2150	1850	1450
Voltage	V	12	12	12	12	12	12
Current	mA	1140	560	220	123	83	49
size frame	mm	120 x 120 x 25	120 x 120 x 25	120 x 120 x 25	120 x 120 x 25	120 x 120 x 25	120 x 120 x 25
operating temperature	°C	-20 - +60	-20 - +60	-20 - +60	-10 - +60	-10 - +60	-10 - +60
Voltage Operating range	V	10,2 - 13,8	10,2 - 13,8	10,2 - 13,8	5,0 - 13,2	5,0 - 13,2	7,0 - 13,2
Starting current	A	2690	1350	970	530	360	210

axial fan 120sq x 25mm							
title		D1225C248BAZ-00	D1225C248BAZ-00	D1225C248BAZ-00	D1225C248BAZ-00	D1225C248BAZ-00	D1225C248BAZ-00
Max. Airflow	m3/min	4,25	3,3	2,35	1,95	1,65	1,3
Max. Airflow	CFM	150,1	116,5	83	69	58	46
Max. Static pressure	Pa	150	95	49	28	20	13
Max. Static pressure	mmH2o	15,23	9,65	5,08	2,87	2,06	1,29
noise	dB	50,5	44	36,5	30	26	19
speed	rpm	5400	4250	3000	2150	1850	1450
Voltage	V	24	24	24	24	24	24
Current	mA	580	290	140	100	45	29
size frame	mm	120 x 120 x 25	120 x 120 x 25	120 x 120 x 25	120 x 120 x 25	120 x 120 x 25	120 x 120 x 25
operating temperature	°C	-20 - +60	-20 - +60	-20 - +60	-10 - +60	-10 - +60	-10 - +60
Voltage Operating range	V	20,4 - 27,6	20,4 - 27,6	20,4 - 27,6	12,0 - 26,4	12,0 - 26,4	12,0 - 26,4
Starting current	A	1210	650	530	230	190	100

axial fan 120sq x 38mm (plastic frame)							
	title	DYN12038V12SLB-K	CNDC12U7	CNDC12H7	DYN12038V12HB-K	CNDC12Z7	
	Max. Airflow	m3/min	5,05	4,4	4	3,85	3,5
	Max. Airflow	CFM	178,4	155	141	135,9	124
	Max. Static pressure	Pa	233,39	160	140	135,33	105
	Max. Static pressure	mmH2o	23,8	16,25	14,22	13,8	10,66
	noise	dB	54	52	51	48	49
	speed	rpm	4200	3800	3550	3200	3200
	input	W	16,92	11,2	9,1	9,8	8,6
	Voltage	V	12	12	12	12	12
	Current	mA	1410	930	760	800	710
	size frame	mm	120x 120 x 38	120x 120 x 38	120x 120 x 38	120x 120 x 38	120x 120 x 38
operating temperature	°C	-10 - +70	-20 - +70	-20 - +70	-10 - +70	-20 - +70	
Voltage Operating range	V		8,4 - 13,8	8,4 - 13,8		7,2 - 13,8	
axial fan 120sq x 38mm (plastic frame)							
	title	DYN12038V12MB-K	DYN12038V12LB-K	CNDC12B7	CNDC12D7		
	Max. Airflow	m3/min	3,49	3,25	2,8	2,1	
	Max. Airflow	CFM	123,2	114,7	99	74	
	Max. Static pressure	Pa	110,81	101,99	70	44	
	Max. Static pressure	mmH2o	11,3	10,4	7,11	4,57	
	noise	dB	44	41	40	32	
	speed	rpm	2900	2600	2650	1950	
	input	W	6	4,8	4,6	2,4	
	Voltage	V	12	12	12	12	
	Current	mA	500	400	380	200	
	size frame	mm	120x 120 x 38	120x 120 x 38	120x 120 x 38	120x 120 x 38	
operating temperature	°C	-10 - +70	-10 - +70	-20 - +70	-20 - +70		
Voltage Operating range	V			7,2 - 13,8	8,4 - 13,8		
axial fan 120sq x 38mm (plastic frame)							
	title	DYD12038V24HBD-K1	DYN12038V24SMBD-TK2	DYD12038V24MBD-K1	DYN12038V24LBD-K1	DYN12038V24SLD-TK	
	Max. Airflow	m3/min	7,31	7,03	6,65	5,98	5,89
	Max. Airflow	CFM	258,2	248,46	234,8	211,3	208
	Max. Static pressure	Pa	466	324,99	386	313,8	695,3
	Max. Static pressure	mmH2o	47,5	33,14	39,3	31,9	70,9
	noise	dB	62	71,9	60	58	65,5
	speed	rpm		5500	5000	4500	8000
	input	W	45,6	44,4	40,8	28,8	34
	Voltage	V	24	24	24	24	24
	Current	mA	1900	1850	1700	1200	700
	size frame	mm	120x 120 x 38	120x 120 x 38	120x 120 x 38	120x 120 x 38	120x 120 x 38
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	
axial fan 120sq x 38mm (plastic frame)							
	title	DYN12038V24SMBD-TK1	DYN12038V24SLB-K	DYN12038V24HD-YH3	DYN12038V24SLD-TK	CNDC24U7	
	Max. Airflow	m3/min	5,38	5,05	4,5	4,46	4,4
	Max. Airflow	CFM	189,97	178,4	158,82	157,4	155
	Max. Static pressure	Pa	238,12	233,39	126,5	139,5	160
	Max. Static pressure	mmH2o	24,38	23,8	12,9	14,22	16,25
	noise	dB	62,1	54	59,3	57,6	52
	speed	rpm	5000	4200	3500	3500	3800
	input	W	21,6	19,2	14,88	16,6	10,8
	Voltage	V	24	24	24	24	24
	Current	mA	900	800	620	700	450
	size frame	mm	120x 120 x 38	120x 120 x 38	120x 120 x 38	120x 120 x 38	120x 120 x 38
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	
axial fan 120sq x 38mm (plastic frame)							
	title	DYN12038V24HB-K	DYN12038V24MBD-TK1	CNDC24Z7	DYN12038V24MB-K	DYN12038V24LB-K	
	Max. Airflow	m3/min	3,85	3,74	3,5	3,49	3,25
	Max. Airflow	CFM	135,9	132,14	124	123,2	114,7
	Max. Static pressure	Pa	135,33	117,09	105	110,81	101,99
	Max. Static pressure	mmH2o	13,8	11,94	10,66	11,3	10,4
	noise	dB	48	52,8	49	44	41
	speed	rpm	3200	3500	3200	2900	2600
	input	W	11,04	10,8	9	9,6	7,68
	Voltage	V	24	24	24	24	24
	Current	mA	460	450	370	400	320
	size frame	mm	120x 120 x 38	120x 120 x 38	120x 120 x 38	120x 120 x 38	120x 120 x 38
operating temperature	°C	-10 - +70	-10 - +70	-20 - +70	-10 - +70	-10 - +70	
axial fan 120sq x 38mm (plastic frame)							
	title	DYN12038V24XLB-K	CNDC24B7	CNDC24D7	DYN12038V48HB-K	CNDC48Z7	
	Max. Airflow	m3/min	2,87	2,8	2,1	3,85	3,5
	Max. Airflow	CFM	101,4	99	74	125,9	124
	Max. Static pressure	Pa	79,43	70	44	135,33	105
	Max. Static pressure	mmH2o	8,1	7,11	4,57	13,8	10,66
	noise	dB	38	40	32	48	49
	speed	rpm	2300	2650	1950	3200	3200
	input	W	4,32	4,8	2,6	14,4	10
	Voltage	V	24	24	24	48	48
	Current	mA	180	200	110	300	210
	size frame	mm	120x 120 x 38	120x 120 x 38	120x 120 x 38	120x 120 x 38	120x 120 x 38
operating temperature	°C	-10 - +70	-20 - +70	-20 - +70	-10 - +70	-20 - +70	
axial fan 120sq x 38mm (plastic frame)							
	title	DYN12038V48MB-K	DYN12038V48LB-K	DYN12038V48XLB-K	CNDC48B7		
	Max. Airflow	m3/min	3,49	3,25	2,87	2,8	
	Max. Airflow	CFM	123,2	114,7	101,4	99	
	Max. Static pressure	Pa	110,81	101,99	79,43	70	
	Max. Static pressure	mmH2o	11,3	10,4	8,1	7,11	
	noise	dB	44	41	38	40	
	speed	rpm	2900	2600	2300	2650	
	input	W	13,44	6,72	4,32	6	
	Voltage	V	48	48	48	48	
	Current	mA	280	140	90	120	
	size frame	mm	120x 120 x 38	120x 120 x 38	120x 120 x 38	120x 120 x 38	
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-20 - +70		
axial fan 120sq x 38mm (metal frame)							
	title	D1238B1288AZ-00	D1238B1287AZ-00	D1238B1289AZ-00	D1238B2489AZ-00	D1238B2488AZ-00	
	Max. Airflow	m3/min	4,8	4,4	5,25	5,25	4,8
	Max. Airflow	CFM	169	155	185	185	169
	Max. Static pressure	Pa	185	160	250	250	185
	Max. Static pressure	mmH2o	18,79	16,25	25,64	25,64	18,79
	noise	dB	56	54	59	59	56
	speed	rpm	4400	4000	4900	4900	4400
	input	W	14,4	14,4	19,8	19,8	13,9
	Voltage	V	12	12	12	24	24
	Current	mA	1200	1200	1650	820	580
	size frame	mm	120x 120 x 38	120x 120 x 38	120x 120 x 38	120x 120 x 38	120x 120 x 38
operating temperature	°C	-20 - +70	-20 - +70	-20 - +70	-20 - +70	-20 - +70	
Voltage Operating range	V	8,4 - 13,8	8,4 - 13,8	8,4 - 13,8	16,8 - 27,6	16,8 - 27,6	
axial fan 120sq x 38mm (metal frame)							
	title	D1238B248AAZ-00	D1238B2487AZ-00	D1238B4887AZ-00	D1238B488AAZ-00	D1238B488BAZ-00	
	Max. Airflow	m3/min	6,2	4,4	4,4	6,2	4,8
	Max. Airflow	CFM	219	155	155	219	169
	Max. Static pressure	Pa	300	160	160	300	185
	Max. Static pressure	mmH2o	30,72	16,25	16,25	30,72	18,79
	noise	dB	62	54	54	62	56
	speed	rpm	5500	4000	4000	5500	4400
	input	W	26,4	14,4	12	26,4	15,4
	Voltage	V	24	24	48	48	48
	Current	mA	1100	600	250	560	320
	size frame	mm	120x 120 x 38	120x 120 x 38	120x 120 x 38	120x 120 x 38	120x 120 x 38
operating temperature	°C	-20 - +70	-20 - +70	-20 - +70	-20 - +70	-20 - +70	
Voltage Operating range	V	18 - 27,6	16,8 - 27,6	36 - 55,2	36 - 55,2	36 - 55,2	

axial fan 120sq x 38mm (metal frame)							
	title	G12388128BZP-00	G12388248BZP-00	G12388488BZP-00	G12388128AZP-00	G12388248AZP-00	
	Max. Airflow	m3/min	7,4	7,4	7,4	6,3	
	Max. Airflow	CFM	261	261	261	223	
	Max. Static pressure	Pa	520	520	520	415	
	Max. Static pressure	mmH2o	53,06	53,06	53,06	42,40	
	noise	dB	67	67	67	64	
	speed	rpm	6300	6300	6300	5300	
	input	W					
	Voltage	V	12	24	48	12	
	Current	mA	4450	2200	1100	2800	
	size frame	mm	120x 120 x 38	120x 120 x 38	120x 120 x 38	120x 120 x 38	
operating temperature	°C	-20 - +60	-20 - +60	-20 - +60	-20 - +70		
axial fan 120sq x 38mm (metal frame)							
	title	G12388488AZP-00	DYN12738V24HB-TP	G1438M488N2P-00			
	Max. Airflow	m3/min	6,3	5,66	11,4		
	Max. Airflow	CFM	223	200	403		
	Max. Static pressure	Pa	415	215,94	3380		
	Max. Static pressure	mmH2o	42,40	22,02	345,27		
	noise	dB	64	57,5	84		
	speed	rpm	5300	4550	15600		
	input	W		26,4			
	Voltage	V	48	24	48		
	Current	mA	660	1100	5900		
	size frame	mm	120x 120 x 38	127 x 127 x 38	134 x 134 x 38		
operating temperature	°C	-20 - +70	-20 - +70	-10 - +70			
Voltage Operating range	V		13 - 26,2	13 - 26,2			
axial fan 120sq x 38mm (metal frame)							
	title	DYN14038V24SL-TK					
	Max. Airflow	m3/min	8				
	Max. Airflow	CFM	282,6				
	Max. Static pressure	Pa	297				
	Max. Static pressure	mmH2o	30,3				
	noise	dB	67,5				
	speed	rpm	4500				
	input	W	41				
	Voltage	V	24				
	Current	mA	1720				
	size frame	mm	140 x 14 x 38 38				
operating temperature	°C	-10 - +70					
Voltage Operating range	V						
axial fan Ø151 x 55 mm							
	title	DYN15055V12HB-DA	DYN15055V12MB-DA	DYN15055V12SLB-DA	DYN15055V24HB-DA	DYN15055V24LB-DA	
	Max. Airflow	m3/min	7,78	10,61	8,77	7,78	5,8
	Max. Airflow	CFM	275	375	310	275	205
	Max. Static pressure	Pa	224,57	389,31	277,52	224,57	136,31
	Max. Static pressure	mmH2o	22,9	39,7	28,3	22,9	13,9
	noise	dB	61	73	65	61	53
	speed	rpm	3600	4800	4000	3600	2800
	input	W	12	12	12	24	24
	Voltage	V	2750	2940	3730	1210	650
	Current	mA	Ø151 x 55	Ø151 x 55	Ø151 x 55	Ø151 x 55	Ø151 x 55
	size frame	mm	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70
axial fan Ø151 x 55 mm							
	title	DYN15055V24MB-DA	DYN15055V24SLB-DA	DYN15055V24SHB-DA	DYN15055V24SMB-DA		
	Max. Airflow	m3/min	6,79	8,77	10,61	9,62	
	Max. Airflow	CFM	240	310	375	340	
	Max. Static pressure	Pa	178,48	277,52	389,31	329,49	
	Max. Static pressure	mmH2o	18,2	28,3	39,7	33,6	
	noise	dB	57	65	73	69	
	speed	rpm	3200	4000	4800	4400	
	input	W	24	24	24	24	
	Voltage	V	890	1690	2940	2410	
	Current	mA	Ø151 x 55	Ø151 x 55	Ø151 x 55	Ø151 x 55	
	size frame	mm	-10 - +70	-10 - +70	-10 - +70	-10 - +70	
axial fan 172 x 150 x 51 mm							
	title	D1751M128A2-00	D1751M128B2-00	D1751M128A2-00	D1751M128A2-00	D1751M488ZP300	
	Max. Airflow	m3/min	8	6,9	5,8	4,2	12,7
	Max. Airflow	CFM	282	240	205	148	448
	Max. Static pressure	Pa	205	155	120	67	510
	Max. Static pressure	mmH2o	20,82	15,74	12,19	6,85	52,04
	noise	dB	57	54	49	41	72
	speed	rpm	3800	3200	2800	2000	6100
	Voltage	V	12	12	12	12	24
	Current	mA	1840	1200	800	390	3400
	size frame	mm	172 x 150 x 51	172 x 150 x 51	172 x 150 x 51	172 x 150 x 51	172 x 150 x 51
	operating temperature	°C	-20 - +70	-20 - +70	-20 - +70	-20 - +70	-20 - +60
Voltage Operating range	V	8,4 - 13,8	8,4 - 13,8	8,4 - 13,8	8,4 - 13,8	16 - 28	
Starting current	A	3800	3400	2900	2200	4800	
axial fan 172 x 150 x 51 mm							
	title	D1751M248A2-00	D1751M248B2P-00	D1751M2485AP-00	D1751M248A2P-00	D1751M248A2-00	
	Max. Airflow	m3/min	11,4	10,2	9	8	6,9
	Max. Airflow	CFM	402	360	318	282	240
	Max. Static pressure	Pa	410	315	260	205	155
	Max. Static pressure	mmH2o	41,89	32,24	26,40	20,82	15,74
	noise	dB	69	64	61	57	54
	speed	rpm	5400	4800	4200	3800	3200
	Voltage	V	24	24	24	24	24
	Current	mA	2450	1800	1200	900	600
	size frame	mm	172 x 150 x 51	172 x 150 x 51	172 x 150 x 51	172 x 150 x 51	172 x 150 x 51
	operating temperature	°C	-20 - +60	-20 - +60	-20 - +60	-20 - +70	-20 - +70
Voltage Operating range	V	12 - 27,6	12 - 27,6	12 - 27,6	12 - 27,6	12 - 27,6	
Starting current	A	5600	3200	2200	2200	2400	
axial fan 172 x 150 x 51 mm							
	title	D1751M2481AP-00	D1751M248M2A2A2-00	D1751M4889ZP-00	D1751M4888ZP-00	D1751M4887ZP-00	
	Max. Airflow	m3/min	4,2	5,8	14,2	12,7	11,4
	Max. Airflow	CFM	148	205	501	448	402
	Max. Static pressure	Pa	67	120	580	510	410
	Max. Static pressure	mmH2o	6,85	12,19	59,15	52,04	41,89
	noise	dB	41	49	75	72	69
	speed	rpm	2000	2800	6800	6100	5400
	Voltage	V	24	24	48	48	48
	Current	mA	200	400	2300	1650	1200
	size frame	mm	172 x 150 x 51	172 x 150 x 51	172 x 150 x 51	172 x 150 x 51	172 x 150 x 51
	operating temperature	°C	-20 - +70	-20 - +70	-20 - +60	-20 - +60	-20 - +60
Voltage Operating range	V	12 - 27,6	12 - 27,6	39 - 60	36 - 60	36 - 60	
Starting current	A	1150	1900	6000	3500	2350	
axial fan 172 x 150 x 51 mm							
	title	D1751M488B2P-00	D1751M488B2P-00	D1751M488A2P-00	D1751M488A2-00	D1751M488A2-00	
	Max. Airflow	m3/min	10,2	9	8	6,9	5,8
	Max. Airflow	CFM	360	318	282	240	205
	Max. Static pressure	Pa	315	260	205	155	120
	Max. Static pressure	mmH2o	32,24	26,40	20,82	15,74	12,19
	noise	dB	64	61	57	54	49
	speed	rpm	4800	4200	3800	3200	2800
	Voltage	V	48	48	48	48	48
	Current	mA	820	600	450	900	210
	size frame	mm	172 x 150 x 51	172 x 150 x 51	172 x 150 x 51	172 x 150 x 51	172 x 150 x 51
	operating temperature	°C	-20 - +60	-20 - +60	-20 - +70	-20 - +70	-20 - +70
Voltage Operating range	V	36 - 60	36 - 60	36 - 60	28,8 - 55,2	28,8 - 55,2	
Starting current	A	1800	1150	860	900	700	

axial fan 172 x 150 x 51 mm							
	title	G1751M2489ZP300	G1751M2488ZP300	G1751M2487ZP-00	G1751M2486ZP-00	G1751M488AZP300	
	Max. Airflow	m3/min	11,2	10	9,2	8,3	
	Max. Airflow	CFM	395	353	325	293	
	Max. Static pressure	Pa	780	710	580	490	
	Max. Static pressure	mmH2O	79,46	72,35	59,15	50,01	
	noise	dB	74	71	69	66,5	
	speed	rpm	6800	6200	5600	5100	
	Voltage	V	24	24	24	24	
	Current	mA	4800	3600	2850	2250	
	size frame	mm	Ø172 x 51	Ø172 x 51	Ø172 x 51	172 x 150 x 51	172 x 150 x 51
	operating temperature	°C	-20 +60	-20 +60	-20 +60	-20 +60	-20 +60
axial fan 172 x 150 x 51 mm							
	title	G1751M4889ZP-00	G1751M4888ZP-00	G1751M4887ZP-00	G1751M4886ZP-00	G1751M4885ZP-00	
	Max. Airflow	m3/min	11,2	10	9,2	8,3	
	Max. Airflow	CFM	395	353	325	293	
	Max. Static pressure	Pa	840	710	580	490	
	Max. Static pressure	mmH2O	85,55	72,35	59,15	50,01	
	noise	dB	74	71	69	66,5	
	speed	rpm	6800	6200	5600	5100	
	Voltage	V	48	48	48	48	
	Current	mA	2500	1800	1360	1040	
	size frame	mm	172 x 150 x 51	172 x 150 x 51	172 x 150 x 51	172 x 150 x 51	172 x 150 x 51
	operating temperature	°C	-20 +60	-20 +60	-20 +60	-20 +60	-20 +60
axial fan 172 x 150 x 51 mm							
	title	D1751S1284AZ-00	D1751S4884ZP-00	D1751S1282AZ-00	D1751S1281AZ-00	D1751S2489ZP300	
	Max. Airflow	m3/min	8	6,8	5,8	4,2	
	Max. Airflow	CFM	282	240	205	148	
	Max. Static pressure	Pa	220	165	125	70	
	Max. Static pressure	mmH2O	22,34	16,76	12,69	7,11	
	noise	dB	53,5	48	44	36	
	speed	rpm	3800	3200	2800	2000	
	Voltage	V	12	12	12	12	
	Current	mA	1840	1200	800	390	
	size frame	mm	Ø172 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51
	operating temperature	°C	-20 +70	-20 +70	-20 +70	-20 +70	-20 +60
axial fan 172 x 150 x 51 mm							
	title	D1751S2488ZP300	D1751S2487AZ-00	D1751S2486AZ-00	D1751S2485ZP-00	D1751S1284AZ-00	
	Max. Airflow	m3/min	12,4	11,4	10,2	9	
	Max. Airflow	CFM	448	402	360	318	
	Max. Static pressure	Pa	520	435	335	270	
	Max. Static pressure	mmH2O	53,06	44,43	34,27	27,42	
	noise	dB	65	62	59	56	
	speed	rpm	6100	5400	4800	4200	
	Voltage	V	24	24	24	24	
	Current	mA	3400	2450	1800	1200	
	size frame	mm	Ø172 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51
	operating temperature	°C	-20 +60	-20 +60	-20 +60	-20 +60	-20 +70
axial fan 172 x 150 x 51 mm							
	title	D1751S1283AZ-00	D1751S2482AZ-00	D1751S2481ZP-00	D1751S4889ZP-00	D1751S4888AZ-00	
	Max. Airflow	m3/min	6,8	5,8	8	14,2	
	Max. Airflow	CFM	240	205	282	501	
	Max. Static pressure	Pa	165	125	220	640	
	Max. Static pressure	mmH2O	16,76	12,69	22,34	69,81	
	noise	dB	48	44	53,5	68	
	speed	rpm	3200	2800	3800	6800	
	Voltage	V	24	24	48	48	
	Current	mA	600	400	450	2300	
	size frame	mm	Ø172 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51
	operating temperature	°C	-20 +70	-20 +70	-20 +70	-20 +60	-20 +60
axial fan 172 x 150 x 51 mm							
	title	D1751S4887ZP-00	D1751S4886ZP-00	D1751S4885ZP-00	D1751S4883AZ-00	D1751S4882AZ-00	
	Max. Airflow	m3/min	11,4	10,2	9	6,8	
	Max. Airflow	CFM	402	360	318	240	
	Max. Static pressure	Pa	435	335	270	165	
	Max. Static pressure	mmH2O	44,43	34,27	27,42	16,76	
	noise	dB	62	59	56	48	
	speed	rpm	5400	4800	4200	3200	
	Voltage	V	48	48	48	48	
	Current	mA	1200	820	600	310	
	size frame	mm	Ø172 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51
	operating temperature	°C	-20 +60	-20 +60	-20 +60	-20 +70	-20 +70
axial fan Ø172 x 55 mm							
	title	DYN17051V24SLB-DA	DYN17051V24SMB-DA	DYN17051V24SHB-DA	DYN15055V48HB-DA	DYN15055V48LB-DA	
	Max. Airflow	m3/min	9,2	10,05	11,04	7,78	
	Max. Airflow	CFM	325	355	390	275	
	Max. Static pressure	Pa	282,4	334,4	395,2	224,57	
	Max. Static pressure	mmH2O	28,8	34,1	40,3	22,9	
	noise	dB	64	68	72	61	
	speed	rpm	4000	4400	4800	3600	
	input	W	24	24	24	48	
	Voltage	V	1690	2410	2940	600	
	Current	mA	Ø172 x 55	Ø172 x 55	Ø172 x 55	Ø172 x 55	
	size frame	mm	-10 +70	-10 +70	-10 +70	-10 +70	
axial fan Ø172 x 55 mm							
	title	DYN15055V48SMB-DA	DYN15055V48SHB-DA	DYN15055V48SLB-DA	DYN15055V48SHB-DA		
	Max. Airflow	m3/min	6,79	1,061	8,77	10,61	
	Max. Airflow	CFM	240	375	310	375	
	Max. Static pressure	Pa	178,48	389,31	277,52	389,31	
	Max. Static pressure	mmH2O	18,2	39,7	28,3	39,7	
	noise	dB	57	73	65	73	
	speed	rpm	3200	4800	4000	4800	
	input	W	48	48	48	48	
	Voltage	V	450	1480	790	1480	
	Current	mA	Ø172 x 55	Ø172 x 55	Ø172 x 55	Ø172 x 55	
	size frame	mm	-10 +70	-10 +70	-10 +70	-10 +70	
axial fan Ø200x 70 mm							
	title	DYN20070V24H	DYN20070V48H	DYN20070V48L			
	Max. Airflow	m3/min	14,7	14,7	9,3		
	Max. Airflow	CFM	517,7	517,7	319,1		
	Max. Static pressure	Pa	681,5	681,5	568,8		
	Max. Static pressure	mmH2O	67,6	67,6	56,1		
	noise	dB	69,5	69,5	58		
	speed	rpm	4600	4600	2900		
	Voltage	V	24	48	48		
	Current	mA	4500	4600	2900		
	size frame	mm	Ø200 x 70	Ø200 x 70	Ø200 x 70		
	operating temperature	°C	-10 +60	-10 +60	-10 +60		


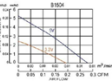

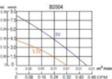

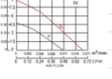

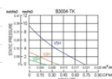

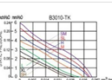

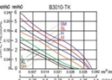
Dynerics represents a broad range of axial- and radial-fans with an AC or DC- power supply: The fans combine long life with high reliability. See for instance the L10 curves of selected fans showing 100.000 hrs at 20° C and 40.000 hrs at 60° C Whether your application request a very silent fan (gentle Typhoon) or compact fans with very high pressure by an integrated pressure chambre (G-Type) we offer the right fans.


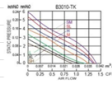

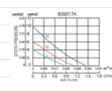

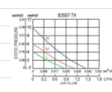

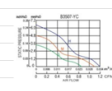

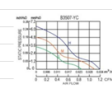

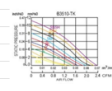

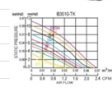

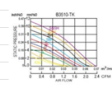
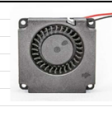
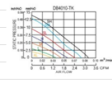



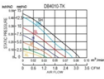
The special shape of the fan blade, shows not only in better result in airflow, but also in a low noise level.


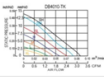
Options:


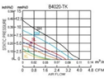
The DC fans and blowers can also have functions that send an alarm signal when the fan motor revolutions slow down (i.e. lock detection, pulse output, speed detection). These fans offer standard a pulse width modulation (PWM) speed control and speed sensor. The variable speed operation is possible by means of a PWM input signal, resulting in further reduction of the power consumption and noise, as requested during idling.


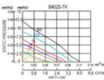
		radial fan 15sq x 4 mm				radial fan 18sq x 4 mm	
		DYB1504V5HS	DYB1504V3HS		DYB1804V3HS	DYB1804V5HS	
 	title						
	Max. Airflow	m3/min	0,008	0,005		0,003	0,0051
	Max. Airflow	CFM	0,28	0,19		0,14	0,2
	Max. Static pressure	Pa	50,99	24,22		23,93	50,60
	Max. Static pressure	mmH2o	5,2	2,47		2,44	5,16
	noise	dB				25	35
	speed	rpm	20000	14500		7000	11000
	input	W	0,31	0,139		0,099	0,225
	Voltage	V	5	3,3		3,3	5
	Current	mA	62	42		30	45
	size frame	mm	15 x 15 x 4	15 x 15 x 4		18 x 18 x 4	18 x 18 x 4
operating temperature	°C	-10 - +60	-10 - +60		-10 - +60	-10 - +60	
		radial fan 20 x 20 x 4 mm				radial fan 20 x 20 x 8 mm	
		DYB2004V5HS	DYB2004V3HS		DYB2008V3HS	DYB2008V5HS	
 	title						
	Max. Airflow	m3/min	0,013	0,009		0,017	0,025
	Max. Airflow	CFM	0,45	0,32		0,63	0,89
	Max. Static pressure	Pa	80,71	43,44		34,13	72,18
	Max. Static pressure	mmH2o	8,23	4,43		3,48	7,36
	noise	dB	22,2	16,7		21,8	31,1
	speed	rpm	13000	10000		10000	14000
	input	W	0,34	0,145		0,28	0,625
	Voltage	V	5	3,3		3,3	5
	Current	mA	68	44		85	125
	size frame	mm	20 x 20 x 4	20 x 20 x 4		20 x 20 x 8	20 x 20 x 8
operating temperature	°C	-10 - +60	-10 - +60		-10 - +60	-10 - +60	
		radial fan 26 x 26 x 8 mm					
		DYB2608V3SLS	DYB2608V3HS	DYB2608V5SLS	DYB2608V5HS		
 	title						
	Max. Airflow	m3/min	0,014	0,01	0,018	0,013	
	Max. Airflow	CFM	0,48	0,37	0,67	0,47	
	Max. Static pressure	Pa	36,28	18,83	85,32	46,39	
	Max. Static pressure	mmH2o	3,7	1,92	8,7	4,73	
	noise	dB	15	12	23	18	
	speed	rpm	8000	6000	11000	8000	
	input	W	0,33	0,149	0,7	0,325	
	Voltage	V	3,3	3,3	5	5	
	Current	mA	100	45	140	65	
	size frame	mm	26 x 26 x 8	26 x 26 x 8	26 x 26 x 8	26 x 26 x 8	
operating temperature	°C	-10 - +60	-10 - +60	-10 - +60	-10 - +60		
		radial fan 30 x 30 x 4 mm					
		DYB3004V3HS	DYB3004V5HS	DYB3004V2HS-TK	DYB3004V3HS-TK	DYB3004V5HS-TK	
 	title						
	Max. Airflow	m3/min	0,016	0,022	0,007	0,011	0,021
	Max. Airflow	CFM	0,57	0,79	0,26	0,39	0,73
	Max. Static pressure	Pa	36,38	73,35	11,38	49,52	93,85
	Max. Static pressure	mmH2o	3,71	7,48	1,16	5,05	9,57
	noise	dB	17,2	25,7	18	18	28,6
	speed	rpm	6000	8500	4300	7000	11000
	input	W	0,132	0,285	0,06	0,165	0,35
	Voltage	V	3,3	5	2	3	5
	Current	mA	40	57	3	5	7
	size frame	mm	30 x 30 x 4	30 x 30 x 4	30 x 30 x 4	30 x 30 x 4	30 x 30 x 4
operating temperature	°C	-10 - +60	-10 - +60	-10 - +60	-10 - +60	-10 - +60	
		radial fan 30 x 30 x 10 mm					
		DYB3010V12XLL-TK	DYB3010V12XLL-TK	DYB3010V12L-TK	DYB3010V12M-TK	DYB3010V12H-TK	
 	title						
	Max. Airflow	m3/min	0,025	0,03	0,033	0,035	0,037
	Max. Airflow	CFM	0,9	1,07	1,16	1,23	1,31
	Max. Static pressure	Pa	22,26	28,05	32,85	38,34	44,03
	Max. Static pressure	mmH2o	2,27	2,86	3,35	3,91	4,49
	noise	dB	23,4	25	26,5	28,7	30
	speed	rpm	5500	6000	6500	7000	7500
	input	W	0,5	0,6	0,65	0,7	0,8
	Voltage	V	12	12	12	12	12
	Current	mA	42	50	54	58	67
	size frame	mm	30 x 30 x 10	30 x 30 x 10	30 x 30 x 10	30 x 30 x 10	30 x 30 x 10
operating temperature	°C	-30 - +70	-30 - +70	-30 - +70	-30 - +70	-30 - +70	
		radial fan 30 x 30 x 10 mm					
		DYB3010V12SL-TK	DYB3010V12SM-TK	DYB3010V5XLL-TK	DYB3010V5XL-TK		
 	title						
	Max. Airflow	m3/min	0,038	0,039	0,025	0,03	
	Max. Airflow	CFM	1,36	1,39	0,9	1,07	
	Max. Static pressure	Pa	52,07	57,47	22,26	28,05	
	Max. Static pressure	mmH2o	5,31	5,86	2,27	2,86	
	noise	dB	31,7	33,2	23,4	25	
	speed	rpm	8000	8500	5500	6000	
	input	W	0,9	1	0,5	0,6	
	Voltage	V	12	12	5	5	
	Current	mA	75	83	100	120	
	size frame	mm	30 x 30 x 10	30 x 30 x 10	30 x 30 x 10	30 x 30 x 10	
operating temperature	°C	-30 - +70	-30 - +70	-30 - +70	-30 - +70		


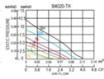
		radial fan 30 x 30 x 10 mm		radial fan 30 x 30 x 4 mm			
 	title		DYB3010V5L-TK	DYB3010V5M-TK	DYB3010V5H-TK	DYB3010V5SL-TK	DYB3010V5SM-TK
	Max. Airflow	m3/min	0,033	0,035	0,037	0,038	0,038
	Max. Airflow	CFM	1,16	1,23	1,31	1,36	1,39
	Max. Static pressure	Pa	32,85	38,34	44,03	52,07	57,47
	Max. Static pressure	mmH2o	3,35	3,91	4,49	5,31	5,86
	noise	dB	26,5	28,7	30	32,7	33,2
	speed	rpm	6500	7000	7500	8000	8500
	input	W	0,65	0,7	0,8	0,9	1
	Voltage	V	5	5	5	5	5
	Current	mA	130	140	160	180	200
size frame	mm	30 x 30 x 10		30 x 30 x 10		30 x 30 x 10	
operating temperature	°C	-30 - +70		-30 - +70		-30 - +70	
radial fan 35 x 35 x 10 mm							
 	title		DYB3507V5H-TK	DYB3507V12HS-YC	DYB3507V5M-TK	DYB3507V5MS-YC	DYB3507V5LM-TK
	Max. Airflow	m3/min	0,039	0,034	0,031	0,031	0,024
	Max. Airflow	CFM	1,39	1,2	1,11	1,1	0,84
	Max. Static pressure	Pa	96,50	63,74	58,06	47,07	40,01
	Max. Static pressure	mmH2o	9,84	6,5	5,92	4,8	4,08
	noise	dB	32,3	27,9	27,9	25,6	23,9
	speed	rpm	7500	6500	6000	5500	5000
	input	W	0,9	1	0,6	0,75	0,4
	Voltage	V	5	5	5	5	5
	Current	mA	180	200	120	150	80
size frame	mm	35 x 35 x 10		35 x 35 x 10		35 x 35 x 10	
operating temperature	°C	-10 - +60		-10 - +60		-10 - +60	
radial fan 35 x 35 x 10 mm							
 	title		DYB3507V5LS-YC	DYB3510V12SL-TK	DYB3510V12H-TK	DYB3510V12M-TK	DYB3510V12L-TK
	Max. Airflow	m3/min	0,024	0,024	0,047	0,045	0,041
	Max. Airflow	CFM	0,85	1,86	1,67	1,6	1,45
	Max. Static pressure	Pa	33,34	67,86	57,57	50,99	41,68
	Max. Static pressure	mmH2o	3,4	6,92	5,87	5,2	4,25
	noise	dB	23,4	34,9	33,5	31,6	29,6
	speed	rpm	4500	8000	7500	7000	6500
	input	W	0,5	0,9	0,8	0,7	0,65
	Voltage	V	5	12	12	12	12
	Current	mA	100	80	70	60	50
size frame	mm	35 x 35 x 10		35 x 35 x 10		35 x 35 x 10	
operating temperature	°C	-10 - +60		-10 - +70		-10 - +70	
radial fan 35 x 35 x 10 mm							
 	title		DYB3510V12XL-TK	DYB3507V12H-TK	DYB3510V12XKL-TK	DYB3507V12HS-YC	DYB3507V12MS-YC
	Max. Airflow	m3/min	0,04	0,039	0,035	0,034	0,031
	Max. Airflow	CFM	1,42	1,39	1,25	1,2	1,1
	Max. Static pressure	Pa	35,50	96,50	26,18	63,74	47,07
	Max. Static pressure	mmH2o	3,62	9,84	2,67	6,5	4,8
	noise	dB	27,5	32,3	25,4	27,9	25,6
	speed	rpm	6000	7500	5500	7000	5500
	input	W	0,6	0,9	0,5	1,8	1,2
	Voltage	V	12	12	12	12	12
	Current	mA	50	75	40	150	100
size frame	mm	35 x 35 x 10		35 x 35 x 10		35 x 35 x 10	
operating temperature	°C	-10 - +70		-10 - +70		-10 - +60	
radial fan 35 x 35 x 10 mm							
 	title		DYB3507V12M-TK	DYB3507V12LS-YC	DYB3507V12L-TK		
	Max. Airflow	m3/min	0,031	0,024	0,024		
	Max. Airflow	CFM	1,11	0,85	0,84		
	Max. Static pressure	Pa	58,06	33,34	40,01		
	Max. Static pressure	mmH2o	5,92	3,4	4,08		
	noise	dB	27,5	23,4	23,9		
	speed	rpm	6000	4500	5000		
	input	W	0,6	0,72	0,4		
	Voltage	V	12	12	12		
	Current	mA	50	60	33		
size frame	mm	35 x 35 x 10		35 x 35 x 10			
operating temperature	°C	-10 - +60		-10 - +60			
radial fan 35 x 35 x 10 mm							
 	title		DYB3510V5SH-TK	DYB3510V5SH-TK	DYB3510V5SM-TK	DYB3510V5SL-TK	DYB3510V5SSL-TK
	Max. Airflow	m3/min	0,067	0,064	0,061	0,056	0,053
	Max. Airflow	CFM	2,38	2,27	2,14	1,98	1,86
	Max. Static pressure	Pa	113,56	99,83	89,24	78,94	67,86
	Max. Static pressure	mmH2o	11,58	10,18	9,1	8,05	6,92
	noise	dB	40	39,1	37,4	36,1	34,9
	speed	rpm	10000	9500	9000	8500	8000
	input	W	1,4	1,25	1,1	1	0,9
	Voltage	V	5	5	5	5	5
	Current	mA	280	250	220	200	180
size frame	mm	35 x 35 x 10		35 x 35 x 10		35 x 35 x 10	
operating temperature	°C	-10 - +70		-10 - +70		-10 - +70	
radial fan 35 x 35 x 10 mm							
 	title		DYB3510V5H-TK	DYB3510V5M-TK	DYB3510V5L-TK	DYB3510V5XL-TK	DYB3510V5XKL-TK
	Max. Airflow	m3/min	0,047	0,045	0,041	0,04	0,035
	Max. Airflow	CFM	1,67	1,6	1,45	1,42	1,25
	Max. Static pressure	Pa	57,57	50,99	41,68	35,50	26,18
	Max. Static pressure	mmH2o	5,87	5,2	4,25	3,62	2,67
	noise	dB	33,5	31,6	29,6	27,5	25,4
	speed	rpm	7500	7000	6500	6000	5500
	input	W	0,8	0,7	0,65	0,6	0,5
	Voltage	V	5	5	5	5	5
	Current	mA	160	140	130	120	100
size frame	mm	35 x 35 x 10		35 x 35 x 10		35 x 35 x 10	
operating temperature	°C	-10 - +70		-10 - +70		-10 - +70	
radial fan 35 x 35 x 10 mm							
 	title		DYB3510V12SSH-TK	DYB3510V12SSH-TK	DYB3510V12SH-TK	DYB3510V12SM-TK	
	Max. Airflow	m3/min	0,067	0,064	0,061	0,056	
	Max. Airflow	CFM	2,38	2,27	2,14	1,98	
	Max. Static pressure	Pa	113,56	99,83	89,24	78,94	
	Max. Static pressure	mmH2o	11,58	10,18	9,1	8,05	
	noise	dB	40	39,1	37,4	36,1	
	speed	rpm	10000	9500	9000	8500	
	input	W	1,4	1,25	1,1	1	
	Voltage	V	12	12	12	12	
	Current	mA	120	10	90	80	
size frame	mm	35 x 35 x 10		35 x 35 x 10		35 x 35 x 10	
operating temperature	°C	-10 - +70		-10 - +70		-10 - +70	
radial fan 40 x 40 x 10 mm							
 	title		DYB4010V5SH-TK	DYB4010V5SM-TK	DYB4010V5SL-TK	DYB4010V5H-TK	DYB4010V5M-TK
	Max. Airflow	m3/min	0,091	0,078	0,069	0,057	0,046
	Max. Airflow	CFM	3,2	2,76	2,42	2,03	1,64
	Max. Static pressure	Pa	136,61	126,11	93,16	70,31	47,95
	Max. Static pressure	mmH2o	13,93	12,86	9,5	7,17	4,89
	noise	dB	37	35	32,1	29,3	26
	speed	rpm	10000	9000	8000	7000	6000
	input	W	1,75	1,45	1,25	1,05	0,75
	Voltage	V	5	5	5	5	5
	Current	mA	350	290	250	210	150
size frame	mm	40 x 40 x 10		40 x 40 x 10		40 x 40 x 10	
operating temperature	°C	-10 - +70		-10 - +70		-10 - +70	


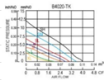
radial fan 40 x 40 x 10 mm						
	title	DYB4010V5SL-TK	DYB4010V5L-TK	DYB4010V12SH-TK	DYB4010V12SM-TK	DYB4010V12SL-TK
 	Max. Airflow	m3/min	0,038	0,031	0,091	0,069
	Max. Airflow	CFM	1,34	1,09	3,2	2,42
	Max. Static pressure	Pa	29,71	21,08	136,61	126,11
	Max. Static pressure	mmH2o	3,03	2,15	13,93	12,86
	noise	dB	23,3	18,9	37	32,1
	speed	rpm	5000	4000	10000	9000
	input	W	0,55	0,3	1,75	1,44
	Voltage	V	5	5	12	12
	Current	mA	110	60	146	120
	size frame	mm	40 x 40 x 10	40 x 40 x 10	40 x 40 x 10	40 x 40 x 10
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70


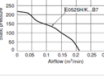
radial fan 40 x 40 x 10 mm						
	title	DYB4010V12H-TK	DYB4010V12M-TK	DYB4010V12L-TK	DYB4010V12XL-TK	
 	Max. Airflow	m3/min	0,057	0,046	0,038	0,064
	Max. Airflow	CFM	2,03	1,64	1,34	1,09
	Max. Static pressure	Pa	70,31	47,95	29,71	21,08
	Max. Static pressure	mmH2o	7,17	4,89	3,03	2,15
	noise	dB	29,3	26	23,3	18,9
	speed	rpm	7000	6000	5000	4000
	input	W	1,08	0,74	0,55	0,3
	Voltage	V	12	12	12	12
	Current	mA	90	62	46	25
	size frame	mm	40 x 40 x 10	40 x 40 x 10	40 x 40 x 10	40 x 40 x 10
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	


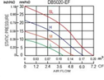
radial fan 40 x 40 x 20 mm						
	title	DYB4020V5SM-TK	DYB4020V5SL-TK	DYB4020V5H-TK	DYB4020V5M-TK	DYB4020V5L-TK
 	Max. Airflow	m3/min	0,1	0,078	0,072	0,064
	Max. Airflow	CFM	3,54	3,06	2,75	2,56
	Max. Static pressure	Pa	89,53	64,23	51,19	40,99
	Max. Static pressure	mmH2o	9,13	6,55	5,22	4,18
	noise	dB	40,9	37,4	35,7	33,5
	speed	rpm	7500	6500	6000	5500
	input	W	1,9	1,7	1,45	1,2
	Voltage	V	5	5	5	5
	Current	mA	380	340	290	240
	size frame	mm	40 x 40 x 20	40 x 40 x 20	40 x 40 x 20	40 x 40 x 20
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	


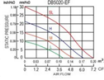
radial fan 40 x 40 x 20 mm						
	title	DYB4020V5XL-TK	DYB4020V12SH-TK	DYB4020V12SM-TK	DYB4020V24SL-TK	DYB4020V12SL-TK
 	Max. Airflow	m3/min	0,057	0,113	0,1	0,087
	Max. Airflow	CFM	2	4	3,54	3,06
	Max. Static pressure	Pa	25,89	119,25	89,53	64,23
	Max. Static pressure	mmH2o	2,64	12,16	9,13	6,55
	noise	dB	27,4	44,5	40,9	37,4
	speed	rpm	4500	8500	7500	6500
	input	W	0,7	2,16	1,92	1,68
	Voltage	V	5	12	12	24
	Current	mA	140	180	160	70
	size frame	mm	40 x 40 x 20	40 x 40 x 20	40 x 40 x 20	40 x 40 x 20
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	





radial fan 40 x 40 x 20 mm						
	title	DYB4020V12H-TK	DYB4020V12M-TK	DYB4020V12L-TK	DYB4020V12XL-TK	DYB4020V24SH-TK
 	Max. Airflow	m3/min	0,078	0,072	0,064	0,113
	Max. Airflow	CFM	2,75	2,56	2,27	2
	Max. Static pressure	Pa	51,19	40,99	32,85	25,89
	Max. Static pressure	mmH2o	5,22	4,18	3,35	2,64
	noise	dB	35,7	33,5	30,2	27,4
	speed	rpm	6000	5500	5000	4500
	input	W	1,44	1,2	0,84	0,72
	Voltage	V	12	12	12	24
	Current	mA	120	100	70	60
	size frame	mm	40 x 40 x 20	40 x 40 x 20	40 x 40 x 20	40 x 40 x 20
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	










radial fan 40 x 40 x 20 mm						
	title	DYB4020V24SM-TK	DYB4020V24H-TK	DYB4020V24L-TK	DYB4020V24XL-TK	
 	Max. Airflow	m3/min	0,1	0,078	0,064	0,057
	Max. Airflow	CFM	3,54	2,75	2,27	2
	Max. Static pressure	Pa	89,53	51,19	32,85	25,89
	Max. Static pressure	mmH2o	9,13	5,22	3,35	2,64
	noise	dB	40,9	35,7	30,2	27,4
	speed	rpm	7500	6000	5000	4500
	input	W	1,92	1,44	0,96	0,72
	Voltage	V	24	24	24	24
	Current	mA	80	60	40	30
	size frame	mm	40 x 40 x 20	40 x 40 x 20	40 x 40 x 20	40 x 40 x 20
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	


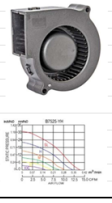
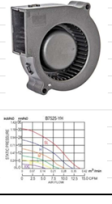
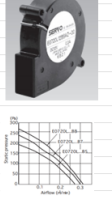
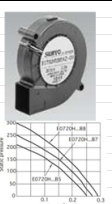




radial fan Ø 48 x 25 mm						
	title	E0525H12B7AZ-00	E0525K12B7AZ-00	E0525K24B7AZ-00	E0525K24B7AZ-00	
 	Max. Airflow	m3/min	0,22	0,22	0,22	0,22
	Max. Airflow	CFM	7,8	7,8	7,8	7,8
	Max. Static pressure	Pa	220	220	220	220
	Max. Static pressure	mmH2o	22,34	22,34	22,34	22,34
	noise	dB	42,5	42,5	42,5	42,5
	speed	rpm	6700	6700	6700	6700
	input	W				
	Voltage	V	12	12	24	24
	Current	mA	230	230	110	110
	size frame	mm	Ø48 x 25	Ø48 x 25	Ø48 x 25	Ø48 x 25
operating temperature	°C	-20 - +70	-20 - +70	-20 - +70	-20 - +70	
Voltage Operating range	V	4,5 - 13,8	4,5 - 13,8	9,6 - 27,6	9,6 - 27,6	

radial fan Ø 50 x 25 mm						
	title	DYB5025V5H-TK	DYB5025V5M-TK	DYB5025V5L-TK	DYB5025V5XL-TK	DYB5025V12SLB-EF
 	Max. Airflow	m3/min	0,15	0,11	0,11	0,09
	Max. Airflow	CFM	5,3	3,99	3,73	3,09
	Max. Static pressure	Pa	203,98	110,23	74,73	51,19
	Max. Static pressure	mmH2o	20,8	11,24	7,62	5,22
	noise	dB	46,2	40,3	37,5	34,5
	speed	rpm	5000	4000	3500	3000
	input	W	3,15	1,75	1,1	0,8
	Voltage	V	5	5	5	5
	Current	mA	630	350	220	160
	size frame	mm	Ø50 x 25	Ø50 x 25	Ø50 x 25	Ø50 x 25
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	

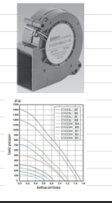
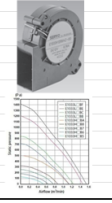
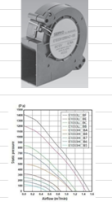
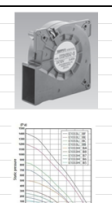
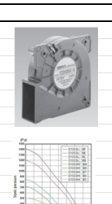




radial fan Ø 50 x 25 mm						
	title	DYB5020V12HB-EF	DYB5025V12H-TK	DYB5020V12SMB-EF	DYB5020V12LB-EF	
 	Max. Airflow	m3/min	0,17	0,15	0,14	0,11
	Max. Airflow	CFM	6,12	5,3	5,07	4,01
	Max. Static pressure	Pa	209,08	203,98	143,37	89,93
	Max. Static pressure	mmH2o	21,32	20,8	14,62	9,17
	noise	dB	37	46,2	32	28
	speed	rpm	5800	5000	4800	3800
	input	W	3,6	3,12	2,4	1,44
	Voltage	V	12	12	12	12
	Current	mA	300	260	200	120
	size frame	mm	Ø50 x 25	Ø50 x 25	Ø50 x 25	Ø50 x 25
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	

radial fan Ø 50 x 25 mm							
 	title		DYB5020V12HB-EF	DYB5025V12H-TK	DYB5020V125MB-EF	DYB5020V12LB-EF	
	Max. Airflow	m3/min	0,17	0,15	0,14	0,11	
	Max. Airflow	CFM	6,12	5,3	5,07	4,01	
	Max. Static pressure	Pa	209,08	203,98	143,37	89,93	
	Max. Static pressure	mmH2o	21,32	20,8	14,62	9,17	
	noise	dB	37	46,2	32	28	
	speed	rpm	5800	5000	4800	3800	
	input	W	3,6	3,12	2,4	1,44	
	Voltage	V	12	12	12	12	
	Current	mA	300	260	200	120	
size frame	mm	Ø50 x 25	Ø50 x 25	Ø50 x 25	Ø50 x 25		
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70		
radial fan Ø 50 x 25 mm							
 	title		DYB5025V12M-TK	DYB5025V12L-TK	DYB5025V12XL-TK	DYB5025V24H-TK	DYB5025V24M-TK
	Max. Airflow	m3/min	0,11	0,11	0,09	0,15	0,11
	Max. Airflow	CFM	3,99	3,73	3,09	5,3	3,99
	Max. Static pressure	Pa	110,23	74,73	51,19	203,98	110,23
	Max. Static pressure	mmH2o	11,24	7,62	5,22	20,8	11,24
	noise	dB	40,3	37,5	34,5	46,2	40,3
	speed	rpm	4000	3500	3000	5000	4000
	input	W	1,8	1,2	0,84	3,12	1,8
	Voltage	V	12	12	12	24	24
	Current	mA	150	100	70	130	75
size frame	mm	Ø50 x 25	Ø50 x 25	Ø50 x 25	Ø50 x 25	Ø50 x 25	
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	
radial fan Ø 50 x 25 mm							
 	title		DYB5025V24L-TK	DYB5025V24XL-TK			
	Max. Airflow	m3/min	0,11	0,09			
	Max. Airflow	CFM	3,73	3,09			
	Max. Static pressure	Pa	74,73	51,19			
	Max. Static pressure	mmH2o	7,62	5,22			
	noise	dB	37,5	34,5			
	speed	rpm	3500	3000			
	input	W	1,5	0,84			
	Voltage	V	24	24			
	Current	mA	50	35			
size frame	mm	Ø50 x 25	Ø50 x 25				
operating temperature	°C	-10 - +70	-10 - +70				
radial fan Ø 51 x 15 mm							
 	title		DYB5015V55M-TK	DYB5015V125M-TK	DYB5015V5H-C	DYB5015V55L-TK	DYB5015V125L-TK
	Max. Airflow	m3/min	0,133	0,133	0,12	0,12	0,12
	Max. Airflow	CFM	4,71	4,71	4,4	4,23	4,23
	Max. Static pressure	Pa	235,16	235,16	174,36	190,05	190,05
	Max. Static pressure	mmH2o	23,98	23,98	17,78	19,38	19,38
	noise	dB	46,3	46,3	38	44,3	44,3
	speed	rpm	6500	6500	5000	6000	6000
	input	W	3,84	3,84	1,4	3,6	3,6
	Voltage	V	5	12	5	5	12
	Current	mA	768	320	280	720	300
size frame	mm	Ø51 x 15	Ø51 x 15	Ø51 x 15	Ø51 x 15	Ø51 x 15	
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	
radial fan Ø 51 x 15 mm							
 	title		DYB5015V12H-TK	DYB5015V5H-TK	DYB5015V5M-TK	DYB5015V5M-C	DYB5015V5L-TK
	Max. Airflow	m3/min	0,112	0,112	0,1	0,1	0,089
	Max. Airflow	CFM	3,96	3,96	3,54	3,5	3,15
	Max. Static pressure	Pa	158,08	158,08	123,27	99,64	95,03
	Max. Static pressure	mmH2o	16,12	16,12	12,57	10,16	9,69
	noise	dB	42,5	42,5	39,6	32	37,1
	speed	rpm	5500	5500	5000	4000	4500
	input	W	3,12	3,1	2,65	0,9	2,15
	Voltage	V	12	5	5	5	5
	Current	mA	260	620	530	180	430
size frame	mm	Ø51 x 15	Ø51 x 15	Ø51 x 15	Ø51 x 15	Ø51 x 15	
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	
radial fan Ø 51 x 15 mm							
 	title		DYB5015V5XL-TK	DYB5015V5L-C	DYB5015V12H-C	DYB5015V12M-C	DYB5015V12M-TK
	Max. Airflow	m3/min	0,08	0,07	0,12	0,1	0,1
	Max. Airflow	CFM	2,81	2,5	4,4	3,5	3,54
	Max. Static pressure	Pa	74,14	59,72	174,36	99,64	123,27
	Max. Static pressure	mmH2o	7,56	6,09	17,78	10,16	12,57
	noise	dB	34,3	25	38	32	39,6
	speed	rpm	4000	3000	5000	4000	5000
	input	W	1,7	0,5	1,68	1,08	1,64
	Voltage	V	5	5	12	12	12
	Current	mA	340	100	140	90	220
size frame	mm	Ø51 x 15	Ø51 x 15	Ø51 x 15	Ø51 x 15	Ø51 x 15	
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	
radial fan Ø 51 x 15 mm							
 	title		DYB5015V12L-TK	DYB5015V12XL-TK	DYB5015V12L-C		
	Max. Airflow	m3/min	0,089	0,08	0,07		
	Max. Airflow	CFM	3,15	2,81	2,5		
	Max. Static pressure	Pa	97,67	74,14	59,72		
	Max. Static pressure	mmH2o	9,96	7,56	6,09		
	noise	dB	37,1	34,3	25		
	speed	rpm	4500	4000	3000		
	input	W	2,16	1,68	0,72		
	Voltage	V	12	12	12		
	Current	mA	180	140	60		
size frame	mm	Ø51 x 15	Ø51 x 15	Ø51 x 15			
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70			
radial fan Ø 51 x 25 mm							
 	title		DYB5025V5H-YH	DYB5025V5M-YH	DYB5025V5L-YH	DYB5025V125-YH	DYB5025V12H-YH
	Max. Airflow	m3/min	0,18	0,16	0,15	0,19	0,18
	Max. Airflow	CFM	6,18	5,75	5,38	6,88	6,18
	Max. Static pressure	Pa	98,36	65,12	48,64	152,59	98,36
	Max. Static pressure	mmH2o	10,03	6,64	4,96	15,56	10,03
	noise	dB	30,9	28	25,5	37,1	30,9
	speed	rpm	4000	3500	3000	5000	4000
	input	W	1,75	1,75	1	3	2,4
	Voltage	V	5	5	5	12	12
	Current	mA	350	350	200	250	200
size frame	mm	Ø51 x 25	Ø51 x 25	Ø51 x 25	Ø51 x 25	Ø51 x 25	
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	
radial fan Ø 51 x 25 mm							
 	title		DYB5025V12M-YH	DYB5025V24S-YH	DYB5025V24H-YH	DYB5025V24M-YH	
	Max. Airflow	m3/min	0,16	0,19	0,18	0,16	
	Max. Airflow	CFM	5,75	6,88	6,18	5,75	
	Max. Static pressure	Pa	65,12	152,59	98,36	65,12	
	Max. Static pressure	mmH2o	6,64	15,56	10,03	6,64	
	noise	dB	28	37,1	30,9	28	
	speed	rpm	3500	5000	4000	3500	
	input	W	1,68	2,88	2,4	1,92	
	Voltage	V	12	24	24	24	
	Current	mA	140	120	100	80	
size frame	mm	Ø51 x 25	Ø51 x 25	Ø51 x 25	Ø51 x 25		
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70		

radial fan 51 x 53 x 15 mm							
	title	E0515H12BBAZ01	E0515H12B7AZA01	E0515H12B5AZ-00	E0515H12B3AZ-00	E0515H24BBAZA01	
	Max. Airflow	m3/min	0,125	0,11	0,1	0,09	0,125
	Max. Airflow	CFM	4,4	3,9	3,5	3,2	4,4
	Max. Static pressure	Pa	210	165	135	110	210
	Max. Static pressure	mmH2o	21,33	16,76	13,71	11,17	21,33
	noise	dB	42	40	37	34	42
	speed	rpm	6100	5500	5000	4500	6100
	input	W					
	Voltage	V	12	12	12	12	24
	Current	mA	190	140	120	90	100
	size frame	mm	51 x 53 x 15	51 x 53 x 15	51 x 53 x 15	51 x 53 x 15	51 x 53 x 15
	operating temperature	°C	-20 +60	-20 +80	-20 +60	-20 +60	-20 +60
	Voltage Operating range	V	6 - 13,8	6 - 13,8	9,6 - 13,8	9,6 - 13,8	12 - 27,6
radial fan 51 x 53 x 15 mm							
	title	E0515H24B5AZ-00	E0515H24B7AZA01		DYB5505V5HB-J		
	Max. Airflow	m3/min	0,1	0,11		0,06	
	Max. Airflow	CFM	3,5	3,9		2,2	
	Max. Static pressure	Pa	135	165		84,34	
	Max. Static pressure	mmH2o	13,71	16,76		8,6	
	noise	dB	37	40		25	
	speed	rpm	5000	5500		5500	
	input	W				1	
	Voltage	V	24	24		5	
	Current	mA	60	80		200	
	size frame	mm	51 x 53 x 15	51 x 53 x 15		55	
	operating temperature	°C	-20 +60	-20 +60		-10 +60	
	Voltage Operating range	V	16,8 - 27,6	12 - 27,6			
radial fan Ø 60 x 15 mm							
	title	DYB6015V12SLB-EC	DYB6015V12HB-EC	DYB6015V12MB-EC	DYB6015V12SH-TK	DYB6015V12LB-EC	
	Max. Airflow	m3/min	0,17	0,16	0,13	0,129	0,12
	Max. Airflow	CFM	6,02	5,52	4,73	4,54	4,2
	Max. Static pressure	Pa	94,63	82,18	67,27	162,99	54,82
	Max. Static pressure	mmH2o	9,65	8,38	6,86	16,62	5,59
	noise	dB	34	33	32	43,5	31
	speed	rpm	5500	5000	4500	5000	4000
	input	W	2,64	2,16	2,04	4,8	1,68
	Voltage	V	12	12	12	12	12
	Current	mA	220	180	170	400	140
	size frame	mm	Ø60 x 15	Ø60 x 15	Ø60 x 15	Ø60 x 15	Ø60 x 15
	operating temperature	°C	-10 +70	-10 +70	-10 +70	-10 +70	-10 +70
	radial fan Ø 60 x 15 mm						
	title	DYB6015V12SLM-TK	DYB6015V12SL-TK	DYB6015V24SL-TK	DYB6015V12H-TK	DYB6015V12M-TK	
	Max. Airflow	m3/min	0,117	0,104	0,104	0,089	0,079
	Max. Airflow	CFM	4,13	3,67	3,67	3,16	2,78
	Max. Static pressure	Pa	124,54	95,32	95,32	69,92	50,21
	Max. Static pressure	mmH2o	12,7	9,72	9,72	7,13	5,12
	noise	dB	40,5	26,9	36,9	33,6	29,5
	speed	rpm	4500	4000	4000	3500	3000
	input	W	4,2	3,6	3,6	2,64	1,68
	Voltage	V	12	12	24	12	12
	Current	mA	350	300	150	220	140
	size frame	mm	Ø60 x 15	Ø60 x 15	Ø60 x 15	Ø60 x 15	Ø60 x 15
	operating temperature	°C	-10 +70	-10 +70	-10 +70	-10 +70	-10 +70
	radial fan Ø 60 x 15 mm						
	title	DYB6015V12L-TK	DYB6015V24SH-TK	DYB6015V24SM-TK	DYB6015V24H-TK	DYB6015V24M-TK	
	Max. Airflow	m3/min	0,063	0,129	0,117	0,089	0,079
	Max. Airflow	CFM	2,24	4,54	4,13	3,16	2,78
	Max. Static pressure	Pa	32,46	124,54	124,54	69,92	50,21
	Max. Static pressure	mmH2o	3,31	16,62	12,7	7,13	5,12
	noise	dB	24,4	43,5	40,5	33,6	29,5
	speed	rpm	2500	5000	4500	3500	3000
	input	W	1,2	4,32	3,84	2,64	1,68
	Voltage	V	12	24	24	24	24
	Current	mA	100	180	160	110	70
	size frame	mm	Ø60 x 15	Ø60 x 15	Ø60 x 15	Ø60 x 15	Ø60 x 15
	operating temperature	°C	-10 +70	-10 +70	-10 +70	-10 +70	-10 +70
	radial fan Ø 60 x 15 mm						
	title	DYB6015V24L-TK		DYB6025V12SM-TK	DYB6025V12SL-TK	DYB6025V12H-TK	
	Max. Airflow	m3/min	0,063		0,276	0,245	0,219
	Max. Airflow	CFM	2,24		9,75	8,66	7,74
	Max. Static pressure	Pa	32,46		249,97	185,84	142,00
	Max. Static pressure	mmH2o	3,31		25,49	18,95	14,48
	noise	dB	24,4		46,4	42,5	39,7
	speed	rpm	2500		5000	4500	4000
	input	W	1,2		3,6	3	2,4
	Voltage	V	24		12	12	12
	Current	mA	50		300	250	200
	size frame	mm	Ø60 x 15		Ø60 x 25	Ø60 x 25	Ø60 x 25
	operating temperature	°C	-10 +70		-10 +70	-10 +70	-10 +70
	radial fan Ø 60 x 25 mm						
	title	DYB6025V12M-TK	DYB6025V12L-TK	DYB6025V12XL-TK	DYB6025V24SM-TK	DYB6025V24SL-TK	
	Max. Airflow	m3/min	0,19	0,176	0,159	0,276	0,245
	Max. Airflow	CFM	6,71	6,22	5,62	9,75	8,66
	Max. Static pressure	Pa	107,28	100,71	68,94	249,97	185,84
	Max. Static pressure	mmH2o	10,94	10,27	7,03	25,49	18,95
	noise	dB	34,7	33	31	46,4	42,5
	speed	rpm	3600	3300	3000	5000	4500
	input	W	1,92	1,68	1,2	3,6	3
	Voltage	V	12	12	12	24	24
	Current	mA	160	140	100	150	130
	size frame	mm	Ø60 x 25	Ø60 x 25	Ø60 x 25	Ø60 x 25	Ø60 x 25
	operating temperature	°C	-10 +70	-10 +70	-10 +70	-10 +70	-10 +70
	radial fan Ø 60 x 25 mm						
	title	DYB6025V24H-TK	DYB6025V24M-TK		DYB6025V24L-TK	DYB6025V24XL-TK	
	Max. Airflow	m3/min	0,219	0,19		0,176	0,159
	Max. Airflow	CFM	7,74	6,71		6,22	5,62
	Max. Static pressure	Pa	142,00	107,28		100,71	68,94
	Max. Static pressure	mmH2o	14,48	10,94		10,27	7,03
	noise	dB	39,7	34,7		33	31
	speed	rpm	4000	3600		3300	3000
	input	W	2,4	1,92		1,68	1,2
	Voltage	V	24	24		24	24
	Current	mA	100	80		70	50
	size frame	mm	Ø60 x 25	Ø60 x 25		Ø60 x 25	Ø60 x 25
	operating temperature	°C	-10 +70	-10 +70		-10 +70	-10 +70
	radial fan Ø 75 x 25 mm						
	title	DYB7525V12SL-TK	DYB7525V12H-TK	DYB7525V12M-TK	DYB7525V12SL-YH	DYB7525V12L-TK	
	Max. Airflow	m3/min	0,39	0,35	0,3	0,27	0,26
	Max. Airflow	CFM	13,9	12,2	10,6	9,52	9,11
	Max. Static pressure	Pa	303,42	222,51	154,36	107,68	105,32
	Max. Static pressure	mmH2o	30,94	22,69	15,74	10,98	10,74
	noise	dB	51,7	47,7	44,3	41,6	40,5
	speed	rpm	4500	4000	3500	3500	3000
	input	W	7,68	5,16	3,12	5,04	2,04
	Voltage	V	12	12	12	12	12
	Current	mA	640	430	260	420	170
	size frame	mm	Ø75 x 25	Ø75 x 25	Ø75 x 25	Ø75 x 25	Ø75 x 25
	operating temperature	°C	-10 +70	-10 +70	-10 +70	-10 +70	-10 +70

radial fan Ø75 x 25 mm							
	title		DYB7525V12H-YH	DYB7525V12M-TK	DYB7525V12M-YH	DYB7525V12L-YH	DYB7525V24SL-TK
	Max. Airflow	m3/min	0,23	0,21	0,19	0,15	0,39
	Max. Airflow	CFM	8,18	7,27	6,74	5,17	13,9
	Max. Static pressure	Pa	71,49	60,70	44,91	24,03	303,42
	Max. Static pressure	mmH2o	7,29	6,19	4,58	2,45	30,94
	noise	dB	37,6	35,4	32,3	25,6	51,7
	speed	rpm	3000	2500	2500	2000	4500
	input	W	3,12	1,2	2,64	1,32	7,68
	Voltage	V	12	12	12	12	24
	Current	mA	260	100	220	110	320
size frame	mm	Ø75 x 25	Ø75 x 25	Ø75 x 25	Ø75 x 25	Ø75 x 25	
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	
radial fan Ø75 x 25 mm							
	title		DYB7525V24H-TK	DYB7525V24M-TK	DYB7525V24L-YH	DYB7525V24L-TK	DYB7525V24H-YH
	Max. Airflow	m3/min	0,35	0,3	0,27	0,26	0,23
	Max. Airflow	CFM	12,2	10,6	9,52	9,11	8,18
	Max. Static pressure	Pa	222,51	154,36	107,68	105,32	71,49
	Max. Static pressure	mmH2o	22,69	15,74	10,98	10,74	7,29
	noise	dB	47,7	44,3	41,6	40,5	37,6
	speed	rpm	4000	3500	3500	3000	3000
	input	W	5,28	3,12	5,52	2,16	3,36
	Voltage	V	24	24	24	24	24
	Current	mA	220	130	230	90	140
size frame	mm	Ø75 x 25	Ø75 x 25	Ø75 x 25	Ø75 x 25	Ø75 x 25	
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	
radial fan Ø75 x 25 mm							
	title		DYB7525V24XL-TK	DYB7525V24M-YH	DYB7525V24XL-TK		
	Max. Airflow	m3/min	0,21	0,19	0,16		
	Max. Airflow	CFM	7,27	6,74	5,77		
	Max. Static pressure	Pa	60,70	44,91	35,60		
	Max. Static pressure	mmH2o	6,19	4,58	3,63		
	noise	dB	35,4	32,3	31,7		
	speed	rpm	2500	2500	2000		
	input	W	1,2	2,64	0,48		
	Voltage	V	24	24	24		
	Current	mA	50	110	20		
size frame	mm	Ø75 x 25	Ø75 x 25	Ø75 x 25			
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70			
radial fan 70 x 76 x 20 mm							
	title		E0720L12BBAZ-00	E0720L12B7AZ-00	E0720L12B5AZ-00		E0720H12B8AZ-00
	Max. Airflow	m3/min	0,31	0,3	0,27		0,29
	Max. Airflow	CFM	10,9	10,6	9,5		10,2
	Max. Static pressure	Pa	265	245	190		300
	Max. Static pressure	mmH2o	27,16	24,88	19,29		30,72
	noise	dB	41	40,5	38		44
	speed	rpm	4200	4050	3700		4750
	input	W	12	12	12		12
	Voltage	V	12	12	12		12
	Current	mA	300	260	190		300
size frame	mm	75 x 72 x 20	75 x 72 x 20	75 x 72 x 20		70 x 76 x 20	
operating temperature	°C	-20 - +70	-20 - +70	-20 - +70		-20 - +70	
Voltage Operating range	V	4,5 - 12,8	4,5 - 13,8	4,5 - 13,8		5 - 13,8	
radial fan 70 x 76 x 20 mm							
	title		E0720H12B7AZ-00	E0720H12B5AZ-00	E0720H24B8AZ-00	E0720H24B7AZ-00	E0720H24B5AZ-00
	Max. Airflow	m3/min	0,27	0,25	0,29	0,27	0,25
	Max. Airflow	CFM	9,5	8,8	10,2	9,5	8,8
	Max. Static pressure	Pa	250	210	300	250	210
	Max. Static pressure	mmH2o	25,64	21,33	30,72	25,64	21,33
	noise	dB	42	40	44	42	40
	speed	rpm	4400	4050	4750	4400	4050
	input	W	12	12	24	24	24
	Voltage	V	12	12	24	24	24
	Current	mA	240	200	140	240	100
size frame	mm	70 x 76 x 20	70 x 76 x 20	70 x 76 x 20	70 x 76 x 20	70 x 76 x 20	
operating temperature	°C	-20 - +70	-20 - +70	-20 - +70	-20 - +70	-20 - +70	
Voltage Operating range	V	5 - 13,8	5,5 - 13,8	10 - 27,6	10 - 27,6	10 - 27,7	
radial fan Ø76 x 30 mm							
	title		MBDC12H4	MBDC12Z4	MBDC12B4	MBDC24Z4	MBDC24B4
	Max. Airflow	m3/min	0,33	0,29	0,25	0,29	0,25
	Max. Airflow	CFM	11,6	10,2	8,8	10,2	8,8
	Max. Static pressure	Pa	172	117	83	117	83
	Max. Static pressure	mmH2o	17,52	11,93	8,38	11,93	8,38
	noise	dB	47	41	38	41	38
	speed	rpm	4200	3400	3000	3400	3000
	input	W	4,6	3,1	2,5	3,1	2,5
	Voltage	V	12	12	12	24	24
	Current	mA	380	250	200	140	110
size frame	mm	Ø76 x 30	Ø76 x 30	Ø76 x 30	Ø76 x 30	Ø76 x 30	
operating temperature	°C	-20 - +60	-20 - +60	-20 - +60	-20 - +60	-20 - +60	
Voltage Operating range	V	7,2 - 13,8	7,2 - 13,8	7,2 - 13,8	12 - 27,6	12 - 27,6	
radial fan 76 x 75 x 30 mm							
	title		DYB7630V12SH	DYB7630V12H	DYB7630V12M	DYB7630V12SL-K	DYB7630V12H-K
	Max. Airflow	m3/min	0,33	0,25	0,18	0,41	0,36
	Max. Airflow	CFM	11,5	8,94	6,2	14,8	13
	Max. Static pressure	Pa	102,97	62,08	34,32	179,46	138,27
	Max. Static pressure	mmH2o	10,5	6,33	3,5	18,3	14,1
	noise	dB	41	35	23	42	42
	speed	rpm	3100	2600	2000	4000	3500
	input	W	3	2,4	1,2	5,04	3,6
	Voltage	V	12	12	12	12	12
	Current	mA	250	200	100	420	300
size frame	mm	76 x 75 x 30	76 x 75 x 30	76 x 75 x 30	76 x 75 x 30	76 x 75 x 30	
operating temperature	°C	-10 - +60	-10 - +60	-10 - +60	-10 - +70	-10 - +70	
radial fan 76 x 75 x 30 mm							
	title		DYB7630V12L-K	DYB7630V12L-K	DYB7630V12XL-K		
	Max. Airflow	m3/min	0,3	0,28	0,22		
	Max. Airflow	CFM	10,8	9,7	7,9		
	Max. Static pressure	Pa	94,14	72,57	55,90		
	Max. Static pressure	mmH2o	9,6	7,4	5,7		
	noise	dB	38	32	26		
	speed	rpm	2900	2350	1900		
	input	W	2,16	1,44	1,2		
	Voltage	V	12	12	12		
	Current	mA	180	120	100		
size frame	mm	76 x 75 x 30	76 x 75 x 30	76 x 75 x 30			
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70			
radial fan 76 x 75 x 30 mm							
	title		DYB7630V24H	DYB7630V24SL-K	DYB7630V24H-K	DYB7630V24M-K	DYB7630V24L-K
	Max. Airflow	m3/min	0,25	0,41	0,36	0,3	0,28
	Max. Airflow	CFM	8,94	14,8	13	10,8	9,7
	Max. Static pressure	Pa	62,08	179,46	138,27	94,14	72,57
	Max. Static pressure	mmH2o	6,33	18,3	14,1	9,6	7,4
	noise	dB	35	42	42	38	32
	speed	rpm	2600	4000	3500	2900	2350
	input	W	2,88	6,72	4,8	3,12	2,16
	Voltage	V	24	24	24	24	24
	Current	mA	120	280	200	130	90
size frame	mm	76 x 75 x 30	76 x 75 x 30	76 x 75 x 30	76 x 75 x 30	76 x 75 x 30	
operating temperature	°C	-10 - +60	-10 - +70	-10 - +70	-10 - +70	-10 - +70	

		radial fan 76 x 75 x 30 mm				radial fan Ø94 x 30 mm				
 	title	DYB7630V24XL-K				SFBD12H7		SFBD12Z7	SFBD12B4	
	Max. Airflow	m3/min	0,22			0,65		0,56	0,44	
	Max. Airflow	CFM	7,9			23		20	16	
	Max. Static pressure	Pa	55,90			280		200	120	
	Max. Static pressure	mmH2o	5,7			28,69		20,31	12,19	
	noise	dB	26			53		49	45	
	speed	rpm	1900			3900		3300	2700	
	input	W	1,44			7,8		5	3,5	
	Voltage	V	24			12		12	12	
	Current	mA	60			650		440	290	
size frame	mm	76 x 75 x 30				Ø94 x 30		Ø94 x 30	Ø94 x 30	
operating temperature	°C	-10 - +70				-20 - +60		-20 - +60	-20 - +60	
Voltage Operating range	V					7,2 - 13,8		7,2 - 13,8	7,2 - 13,8	
 	title	SFBD24H7	SFBD24Z7	SFBD24B4						
	Max. Airflow	m3/min	0,65	0,56	0,44					
	Max. Airflow	CFM	23	20	16					
	Max. Static pressure	Pa	280	200	120					
	Max. Static pressure	mmH2o	28,69	20,31	12,19					
	noise	dB	53	49	45					
	speed	rpm	3900	3300	2700					
	input	W	7,9	5,5	3,5					
	Voltage	V	24	24	24					
	Current	mA	330	300	150					
size frame	mm	Ø94 x 30		Ø94 x 30		Ø94 x 30				
operating temperature	°C	-20 - +60		-20 - +60		-20 - +60				
Voltage Operating range	V	12 - 27,6		12 - 27,6		12 - 27,6				
 	title	DYB9733V12SHB-TK	DYB9733V12SMB-TK	DYB9733V12SLB-TK	DYB9733V12HB-TK	DYB9733V12MB-TK				
	Max. Airflow	m3/min	1,85	1,61	1,34	1,22	1,11			
	Max. Airflow	CFM	65,3	56,8	47,3	43,1	39,2			
	Max. Static pressure	Pa	1950,35	1280,36	760,21	610,27	490,23			
	Max. Static pressure	mmH2o	198,88	130,56	77,52	62,23	49,99			
	noise	dB	69	66	61	59	57			
	speed	rpm	8200	6850	5750	5250	4850			
	input	W	74,4	40,8	21,6	16,8	13,2			
	Voltage	V	12	12	12	12	12			
	Current	mA	6200	3400	1800	1400	1100			
size frame	mm	94 x 97 x 33		94 x 97 x 33		94 x 97 x 33		94 x 97 x 33		
operating temperature	°C	-30 - +70		-30 - +70		-30 - +70		-30 - +70		
 	title	DYB9733V12LB-TK	DYB9733V12H-K	DYB9733V12M-K	DYB9733V12L-K	DYB9733V24SHB-TK				
	Max. Airflow	m3/min	1,04	0,82	0,57	0,46	1,85			
	Max. Airflow	CFM	36,7	28,8	20,1	16,3	65,3			
	Max. Static pressure	Pa	410,21	284,00	99,64	49,82	1950,35			
	Max. Static pressure	mmH2o	41,83	28,96	10,16	5,08	198,88			
	noise	dB	56	52	45	43	69			
	speed	rpm	4500	3600	2700	2200	8200			
	input	W	10,8	7,2	3,84	2,52	74,4			
	Voltage	V	12	12	12	12	24			
	Current	mA	900	600	320	210	3100			
size frame	mm	94 x 97 x 33		94 x 97 x 33		94 x 97 x 33		94 x 97 x 33		
operating temperature	°C	-30 - +70		-10 - +60		-10 - +60		-30 - +70		
 	title	DYB9733V24SMB-TK	DYB9733V24SLB-TK	DYB9733V24HB-TK	DYB9733V24MB-TK	DYB9733V24LB-TK				
	Max. Airflow	m3/min	1,61	1,34	1,22	1,11	1,04			
	Max. Airflow	CFM	56,8	47,3	43,1	39,2	36,7			
	Max. Static pressure	Pa	1280,36	760,21	610,27	490,23	410,21			
	Max. Static pressure	mmH2o	130,56	77,52	62,23	49,99	41,83			
	noise	dB	66	61	59	57	56			
	speed	rpm	6850	5750	5250	4850	4500			
	input	W	38,88	19,92	16,8	13,2	10,8			
	Voltage	V	24	24	24	24	24			
	Current	mA	1620	830	700	550	450			
size frame	mm	94 x 97 x 33		94 x 97 x 33		94 x 97 x 33		94 x 97 x 33		
operating temperature	°C	-30 - +70		-30 - +70		-30 - +70		-30 - +70		
 	title	DYB9733V24H-K	DYB9733V24M-K	DYB9733V24L-K						
	Max. Airflow	m3/min	0,82	0,57	0,46					
	Max. Airflow	CFM	28,8	20,1	16,3					
	Max. Static pressure	Pa	284,00	99,64	49,82					
	Max. Static pressure	mmH2o	28,96	10,16	5,08					
	noise	dB	52	45	43					
	speed	rpm	3600	2700	2200					
	input	W	7,68	4,32	3,36					
	Voltage	V	24	24	24					
	Current	mA	320	180	140					
size frame	mm	94 x 97 x 33		94 x 97 x 33						
operating temperature	°C	-10 - +60		-10 - +60						
 	title	DYB9733V12M-SU	DYB9733V12L-SU							
	Max. Airflow	m3/min	1,02	0,92	1,1					
	Max. Airflow	CFM	36,1	32,36	38,9					
	Max. Static pressure	Pa	537,40	431,49	649,20					
	Max. Static pressure	mmH2o	54,8	44	66,2					
	noise	dB	59	56	61					
	speed	rpm	4900	4400	5400					
	input	W	15,6	11,5	18,5					
	Voltage	V	12	12	12					
	Current	mA								
size frame	mm	94 x 97 x 33		94 x 97 x 33		94 x 97 x 33				
operating temperature	°C	-30 - +70		-30 - +70		-30 - +70				
 	title	E1540H12B7AZ-00	E1540H12BSAZ-00	E1540H24B7AZ-00	E1540H24BSAZ-00					
	Max. Airflow	m3/min	2	1,65	2	1,65				
	Max. Airflow	CFM	71	58	71	58				
	Max. Static pressure	Pa	430	270	430	270				
	Max. Static pressure	mmH2o	43,92	27,67	43,92	27,67				
	noise	dB	56	51	56	51				
	speed	rpm	2700	2200	2700	2200				
	input	W	19,4	13	17,8	13				
	Voltage	V	12	12	24	24				
	Current	mA	1600	1100	640	540				
size frame	mm	150 x 152 x 40		150 x 152 x 40		150 x 152 x 40				
operating temperature	°C	-20 - +70		-20 - +70		-20 - +70				
 	title	E1027H12BAAZ-00	E1027H12B7AZ-00							
	Max. Airflow	m3/min	0,78	0,57						
	Max. Airflow	CFM	28	20						
	Max. Static pressure	Pa	520	315						
	Max. Static pressure	mmH2o	53,06	32,24						
	noise	dB	55	47						
	speed	rpm	5000	3600						
	input	W								
	Voltage	V	12	12						
	Current	mA	1000	550						
size frame	mm	97 x 95 x 25		97 x 95 x 25						
operating temperature	°C	-20 - +60		-20 - +70						
Voltage Operating range	V	8,4 - 13,8		5,0 - 13,2						

radial fan 97 x 95 x 33 mm						
title		E1033L12BFZP-00	E1033L12BEZP-00	E1033L12BCAZ-00	E1033L12BBAZ-00	E1033H12BAAZ-00
	Max. Airflow	m3/min	1,55	1,45	1,25	1,15
	Max. Airflow	CFM	55	51	44	40
	Max. Static pressure	Pa	1400	1200	840	700
	Max. Static pressure	mmH2o	142,93	122,37	85,30	71,34
	noise	dB	66	64	62	60
	speed	rpm	6900	6400	5800	5300
	Voltage	V	12	12	12	12
	Current	mA	3500	2940	1950	1400
	size frame	mm	97 x 95 x 33	97 x 95 x 33	97 x 95 x 33	97 x 95 x 33
	operating temperature	°C	-20 - +60	-20 - +60	-20 - +60	-20 - +60
	Voltage Operating range	V	10,8 - 12,6	10,8 - 13,2	8,4 - 13,2	8,4 - 13,2
	radial fan 97 x 95 x 33 mm					
title		E1033H12B8AZ-00	E1033H12B7AZ-00	E1033L24BCAZ-00	E1033L24BBAZ-00	E1033H24BAAZ-00
	Max. Airflow	m3/min	0,85	0,76	1,25	1,14
	Max. Airflow	CFM	30	27	44	40
	Max. Static pressure	Pa	320	260	840	700
	Max. Static pressure	mmH2o	32,75	26,66	85,30	71,34
	noise	dB	51	48	62	60
	speed	rpm	3450	3100	5800	5300
	Voltage	V	12	12	24	24
	Current	mA	770	590	950	700
	size frame	mm	97 x 95 x 33	97 x 95 x 33	97 x 95 x 33	97 x 95 x 33
	operating temperature	°C	-20 - +70	-20 - +70	-20 - +60	-20 - +60
	Voltage Operating range	V	4,5 - 13,2	5 - 13,2	12 - 26,4	12 - 26,4
	radial fan 97 x 95 x 33 mm					
title		E1033H24B8AZ-00	E1033H24B7AZ-00	E1033H24B6AZ-00		
	Max. Airflow	m3/min	0,85	0,76	0,64	
	Max. Airflow	CFM	30	27	23	
	Max. Static pressure	Pa	320	260	185	
	Max. Static pressure	mmH2o	32,75	26,66	18,79	
	noise	dB	51	48	46	
	speed	rpm	3450	3100	2600	
	input	W	9,36	7,2	5,28	
	Voltage	V	24	24	24	
	Current	mA	390	300	220	
	size frame	mm	97 x 95 x 33	97 x 95 x 33	97 x 95 x 33	
	operating temperature	°C	-20 - +70	-20 - +70	-20 - +70	
	Voltage Operating range	V	10 - 26,4	10 - 26,4	10 - 26,4	
radial fan 119 x 117 x 32						
title		E1232L12B9AZ-00	E1232L12B7AZ-00	E1232L12B6AZ-00	E1232L12B5AZ-00	E1232L24B9AZ-00
	Max. Airflow	m3/min	1,13	0,91	0,83	0,75
	Max. Airflow	CFM	40	32	29	26
	Max. Static pressure	Pa	460	320	250	200
	Max. Static pressure	mmH2o	46,97	32,75	25,64	20,31
	noise	dB	54	49	47	44
	speed	rpm	3800	3100	2750	2450
	input	W	13,2	9,84	6,72	5,04
	Voltage	V	12	12	12	12
	Current	mA	1100	820	560	420
	size frame	mm	119 x 117 x 32	119 x 117 x 32	119 x 117 x 32	119 x 117 x 32
	operating temperature	°C	-20 - +70	-20 - +60	-20 - +60	-20 - +60
	Voltage Operating range	V	8,4 - 13,2	7,2 - 13,2	7,2 - 13,2	7,2 - 13,2
radial fan 119 x 117 x 32						
title		E1232L24B7AZ-00	E1232L24B6AZ-00	E1232L24B5AZ-00		
	Max. Airflow	m3/min	0,91	0,83	0,75	
	Max. Airflow	CFM	32	29	26	
	Max. Static pressure	Pa	320	250	200	
	Max. Static pressure	mmH2o	32,75	25,64	20,31	
	noise	dB	49	47	44	
	speed	rpm	3100	2750	2450	
	input	W	10,32	7,44	6	
	Voltage	V	24	24	24	
	Current	mA	430	310	250	
	size frame	mm	119 x 117 x 32	119 x 117 x 32	119 x 117 x 32	
	operating temperature	°C	-20 - +60	-20 - +60	-20 - +60	
	Voltage Operating range	V	12 - 26,4	12 - 26,4	12 - 26,4	
radial fan Ø120 x 32 mm						
title		DYB12032V12HB-C	DYB12032V12MB-C	DYB12032V12LB-C	DYB12032V24HB-C	DYB12032V24MB-C
	Max. Airflow	m3/min	0,92	0,68	0,48	0,68
	Max. Airflow	CFM	32,5	24	17	32,5
	Max. Static pressure	Pa	249,09	149,45	99,64	249,09
	Max. Static pressure	mmH2o	25,4	15,24	10,16	25,4
	noise	dB	54	46	32	54
	speed	rpm	2800	2000	1400	2800
	input	W	11,4	4,8	1,92	12,96
	Voltage	V	12	12	12	24
	Current	mA	950	400	160	540
	size frame	mm	Ø120 x 32	Ø120 x 32	Ø120 x 32	Ø120 x 32
	operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70
	radial fan Ø120 x 32 mm					
title		DYB12032V24LB-C				
	Max. Airflow	m3/min	0,48			
	Max. Airflow	CFM	17			
	Max. Static pressure	Pa	99,64			
	Max. Static pressure	mmH2o	10,16			
	noise	dB	32			
	speed	rpm	1400			
	input	W	2,64			
	Voltage	V	24			
	Current	mA	110			
	size frame	mm	Ø120 x 32			
	operating temperature	°C	-10 - +70			
	radial fan Ø121 x 31 mm					
title		DYB12131V12H-C	DYB12131V12H	DYB12131V12M	DYB12131V24H-C	DYB12131V24H
	Max. Airflow	m3/min	0,85	0,73	0,62	0,85
	Max. Airflow	CFM	30	26	22	30
	Max. Static pressure	Pa	225,55	186,82	129,55	225,55
	Max. Static pressure	mmH2o	23	19,05	13,21	23
	noise	dB	46	55	52	46
	speed	rpm	3500	2800	2500	3500
	input	W	10,8	11,5	7,5	13,2
	Voltage	V	12	12	12	24
	Current	mA	600	950	630	550
	size frame	mm	Ø121 x 31	Ø121 x 31	Ø121 x 31	Ø121 x 31
	operating temperature	°C	-10 - +60	-10 - +60	-10 - +60	-10 - +60
	radial fan Ø121 x 31 mm					
title		DYB12131V24M	DYB12131V48H	DYB12131V48M		
	Max. Airflow	m3/min	0,62	0,73	0,62	
	Max. Airflow	CFM	22	26	22	
	Max. Static pressure	Pa	129,55	186,82	129,55	
	Max. Static pressure	mmH2o	13,21	19,05	13,21	
	noise	dB	52	55	52	
	speed	rpm	2500	2800	2500	
	input	W	7,5	11	7,7	
	Voltage	V	24	48	48	
	Current	mA	310	230	160	
	size frame	mm	Ø121 x 31	Ø121 x 31	Ø121 x 31	
	operating temperature	°C	-10 - +60	-10 - +60	-10 - +60	

radial fan 126 x 127 x 31 mm						
title		E1331K12B9AZ-00	E1331K12B7AZ-00	E1331K12B6AZ-00	E1331K12B5AZ-00	E1331K24B9AZ-00
Max. Airflow	m3/min	1,08	0,87	0,79	0,72	1,08
Max. Airflow	CFM	38	31	28	25	38
Max. Static pressure	Pa	480	310	250	210	480
Max. Static pressure	mmH2o	49,00	31,73	25,64	21,33	49,00
noise	dB	54	49	47	45	54
speed	rpm	3400	2700	2500	2200	3400
input	W	13,2	8,28	5,88	5,28	12,72
Voltage	V	12	12	12	12	24
Current	mA	1100	690	490	440	530
size frame	mm	126 x 127 x 31	126 x 127 x 31	126 x 127 x 31	126 x 127 x 31	126 x 127 x 31
operating temperature	°C	-20 - +70	-20 - +70	-20 - +70	-20 - +70	-20 - +70
radial fan 126 x 127 x 31 mm						
title		E1331K24B7AZ-00	E1331K24B6AZ-00	E1331K24B5AZ-00		
Max. Airflow	m3/min	0,87	0,79	0,72		
Max. Airflow	CFM	31	28	25		
Max. Static pressure	Pa	310	250	210		
Max. Static pressure	mmH2o	31,73	25,64	21,33		
noise	dB	49	47	45		
speed	rpm	2700	2500	2200		
input	W	9,12	6,72	5,76		
Voltage	V	24	24	24		
Current	mA	380	280	240		
size frame	mm	126 x 127 x 31	126 x 127 x 31	126 x 127 x 31		
operating temperature	°C	-20 - +70	-20 - +70	-20 - +70		
radial fan 154 x 138 x 58 mm						
title		DYB15458V12MB-K	DYB15458V12HB-K	DYB15458V24MB-K	DYB15458V24HB-K	
Max. Airflow	m3/min	1,5	1,84	1,5	1,84	
Max. Airflow	CFM	53,8	65	53,8	65	
Max. Static pressure	Pa	144,16	305,97	144,16	305,97	
Max. Static pressure	mmH2o	14,7	31,2	14,7	31,2	
noise	dB	51	56	51	56	
speed	rpm	2200	2800	2200	2800	
input	W	15,6	23,52	15,6	27,6	
Voltage	V	12	12	24	24	
Current	mA	1300	1960	650	1150	
size frame	mm	154 x 138 x 58	154 x 138 x 58	154 x 138 x 58	154 x 138 x 58	
operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	
radial fan high pressure						
title		TF037C-2100-F	TF037F-2000-F	TF029B-1000-F	TF037F-2000-F	TF037C-2000-F
Max. Static pressure	Pa	4500	2000	2000	2000	4000
Max. Static pressure	mmH2o	458,87	203,94	203,94	203,94	407,89
noise	dB	67	67	65	65	67
speed	rpm	45000	31000	36000	45000	40000
input	W	29	16,1	14,9	16,1	29
Voltage	V	24	24	24	24	24
Current	mA	900	670	620	670	1200
size frame	mm	50,5	50,5	48,9	50,5	50,5
operating temperature	°C	-10 - +60	-10 - +60	0 - +50	-10 - +60	-10 - +60
radial fan high pressure						
title		TF037E-2000-F				
Max. Static pressure	Pa	3000				
Max. Static pressure	mmH2o	305,91				
noise	dB	65				
speed	rpm	33500				
input	W	22,7				
Voltage	V	24				
Current	mA	860				
size frame	mm	50,5				
operating temperature	°C	-10 - +60				

Radial high pressure DC Micro blowers

Our Micro Blowers are innovative ultra-small high-power products which integrate aerodynamic bearings. Furthermore, because of the non-contact state during rotation, astoundingly resulting in less vibration, and long life due to no dependence on temperature.


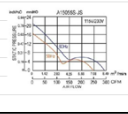

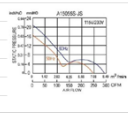

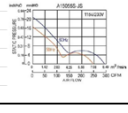

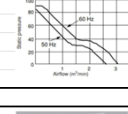

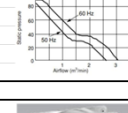

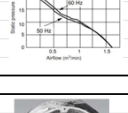

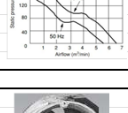

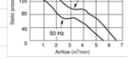
The line-up of Micro Blower is total of 5 types. Of these, three types are able to purchase the Kit with driver.

These new Micro Blowers use our patented Aero-dynamic Bearings technology.

This revolutionary technology utilizes the effect of air pressure between the motor shaft and sleeve to provide a contactless rotational motion.

The Aero-dynamic Bearings technology allows us to manufacture highperformance, and compact Micro Blowers. Our product lineup currently has 5 different types. We also provide motor drivers to customers who are looking to do preliminary testing or Proof-of-Concept.


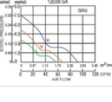



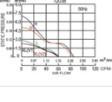
axial AC fan 150sq x 55mm							
	title	DY15055V1H-IS	DY15055VHBL-C	DY15055V1HB-DA	DY15055V1H	DY15055V1H-S	
 	Max. Airflow	m3/min	6,08	5,94	5,94	5,8	
	Max. Airflow	CFM	215	210	210	204	
	Max. Static pressure	Pa	142,20	112,78	122,58	144,16	95,12
	Max. Static pressure	mmH2o	14,5	11,5	12,5	14,5	9,7
	noise	dB	52	51	57	57	50
	speed	rpm	2750	2700	2700	2900	2600
	input	W	26	46	27	38	67
	Voltage	V	115	115	115	115	115
	Current	mA	230	570	250	340	730
	size frame	mm	150 x 55	150 x 55	150 x 55	150 x 55	150 x 55
	operating temperature	°C	-20 - +80	-10 - +70	-10 - +70	-10 - +70	-10 - +70
Voltage Operating range	V	100 - 120	100 - 120	104 - 126	85 - 125	100 - 120	
axial AC fan 150sq x 55mm							
	title	DY15038V1HBL-C	DY15038V2HBL-C	DY15055DVHBL-C	DY15055V2H-JS		
 	Max. Airflow	m3/min	4	4	7,01	6,08	
	Max. Airflow	CFM	140	140	248	215	
	Max. Static pressure	Pa	94,63	94,63	34,32	142,20	
	Max. Static pressure	mmH2o	9,65	9,65	3,5	14,5	
	noise	dB	0,38	0,38	54	52	
	speed	rpm	2300	2300	2980	2750	
	input	W	22	27	31,7	26	
	Voltage	V	115	230	230	230	
	Current	mA	300	180	200	120	
	size frame	mm	150 x 55	150 x 55	150 x 55	150 x 55	
	operating temperature	°C	-0 - +70	-10 - +70	-10 - +70	-20 - +80	
Voltage Operating range	V	100 - 120	200 - 240	200 - 240	200 - 240		
axial AC fan 150x 150 x 55mm							
	title	DY15055V2HBL-C	DY15055V2H	DY15055V2H-S	DY15055-F-FG	DY15055V24H-S	
 	Max. Airflow	m3/min	5,94	5,7	4,3	5,8	
	Max. Airflow	CFM	210	202	151	205	155
	Max. Static pressure	Pa	105,91	144,16	95,12	137,29	86,30
	Max. Static pressure	mmH2o	10,8	14,7	9,7	14	8,8
	noise	dB	51	57	50	61	50
	speed	rpm	2700	2900	2600	2850	2530
	input	W	46	37	55	26	34
	Voltage	V	230	230	230	230	24
	Current	mA	300	170	300	110	1950
	size frame	mm	150 x 55	150 x 55	150 x 55	150 x 55	150 x 55
	operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70
Voltage Operating range	V	200 - 240	185 - 245	200 - 240	185 - 245		
axial AC fan 120 x 120 x 38mm							
	title	CN52B55	CN55B5	CN2B5	CN115B5	CN48B3	
 	Max. Airflow	m3/min	2,6	2,6	2,6	2,4	
	Max. Airflow	CFM	92	92	92	85	92
	Max. Static pressure	Pa	83	83	83	74	83
	Max. Static pressure	mmH2o	8,38	8,38	8,38	7,62	8,38
	noise	dB	44	44	44	43	44
	speed	rpm	2800	2800	2800	2700	2800
	input	W	14	15	16	11	18
	Voltage	V	100	100	115	115	230
	Current	mA	200	200	200	150	120
	size frame	mm	120 x 38	120 x 38	120 x 38	120 x 38	120 x 38
	operating temperature	°C	-20 - +60	-20 - +60	-20 - +60	-20 - +60	-20 - +60
axial AC fan 120 x 120 x 38mm							
	title	CN60B5	CN60B5	CN50B5	CN52B55		
 	Max. Airflow	m3/min	2,6	2,6	2,6	2,6	
	Max. Airflow	CFM	92	92	85	92	
	Max. Static pressure	Pa	83	83	74	83	
	Max. Static pressure	mmH2o	8,38	8,38	7,62	8,38	
	noise	dB	44	44	43	44	
	speed	rpm	2800	2800	2700	2800	
	input	W	14	15	9,8	14	
	Voltage	V	200	200	230	230	
	Current	mA	110	110	100	110	
	size frame	mm	120 x 38	120 x 38	120 x 38	120 x 38	
	operating temperature	°C	-20 - +60	-20 - +60	-20 - +60	-20 - +60	
axial AC fan 120 x 120 x 38mm							
	title	CN47D5	CN47D5	CN48D5	CN48D5		
 	Max. Airflow	m3/min	1,6	1,6	1,6	1,6	
	Max. Airflow	CFM	56	56	56	56	
	Max. Static pressure	Pa	23	23	23	23	
	Max. Static pressure	mmH2o	2,28	2,28	2,28	2,28	
	noise	dB	33	33	33	33	
	speed	rpm	1700	1700	1700	1700	
	input	W	9	8,5	9	9	
	Voltage	V	120	120	240	240	
	Current	mA	110	110	60	60	
	size frame	mm	120 x 38	120 x 38	120 x 38	120 x 38	
	operating temperature	°C	-20 - +60	-20 - +60	-20 - +60	-20 - +60	
axial AC fan Ø172 x 150 x 51 mm							
	title	MA55B3	MA2B3	MA47B3	MA60B3	MA77B3	
 	Max. Airflow	m3/min	5,5	5,5	5,5	5,5	
	Max. Airflow	CFM	194	194	194	194	194
	Max. Static pressure	Pa	152	152	152	152	152
	Max. Static pressure	mmH2o	15,49	15,49	15,49	15,49	15,49
	noise	dB	50	50	50	50	50
	speed	rpm	2850	2850	2850	2850	2850
	input	W	32	29	33	32	33
	Voltage	V	100	115	120	200	230
	Current	mA	400	270	300	200	150
	size frame	mm	Ø172 x 150 x 51	Ø172 x 150 x 51	Ø172 x 150 x 51	Ø172 x 150 x 51	Ø172 x 150 x 51
	operating temperature	°C	-20 - +60	-20 - +60	-20 - +60	-20 - +60	-20 - +60
axial AC fan Ø172 x 150 x 51 mm							
	title	MA48B3	PA55B3	PA55B3	PA2B3		
 	Max. Airflow	m3/min	5,5	5,5	4,7	5,5	
	Max. Airflow	CFM	194	194	166	194	
	Max. Static pressure	Pa	152	152	90	152	
	Max. Static pressure	mmH2o	15,49	15,49	9,14	15,49	
	noise	dB	50	46	44	46	
	speed	rpm	2850	2850	2500	2850	
	input	W	33	32	17	29	
	Voltage	V	230	100	100	115	
	Current	mA	150	400	180	270	
	size frame	mm	Ø172 x 150 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51	
	operating temperature	°C	-20 - +60	-20 - +60	-20 - +60	-20 - +60	


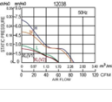
axial AC fan 60 x 60 x 38 mm							
 	title		DYACUF80A23-H	DY8038DVHBL-S	DY8038V2MM	DY8038V2H-S	DY8038V2H-D
	Max. Airflow	m3/min	0,68	0,65	0,6	0,59	0,57
	Max. Airflow	CFM	24	23	21	21	20
	Max. Static pressure	Pa	35,30	44,13	22,36	42,17	30,40
	Max. Static pressure	mmH2o	3,6	4,5	2,28	4,3	3,1
	noise	dB	32	29	24	29	34
	speed	rpm	2500	2700	2150	2700	2400
	input	W	14	9,5	10	10,3	17,2
	Voltage	V	230	230	230	230	230
	Current	mA	70	60	80	60	120
	size frame	mm	80 x 80 x 38	80 x 80 x 38	80 x 80 x 38	80 x 80 x 38	80 x 80 x 38
operating temperature	°C	-20 - +70	-10 - +70	-10 - +70	-10 - +70	-20 - +70	
axial AC fan 60 x 60 x 38 mm							
 	title		DY8038V2M-S	DYACUF80B23-H	DY8038V2M-D	DY8038V2M-D	DY8038V2LM
	Max. Airflow	m3/min	0,56	0,54	0,51	0,51	0,5
	Max. Airflow	CFM	20	19	18	18	17
	Max. Static pressure	Pa	31,38	35,30	27,46	27,46	19,12
	Max. Static pressure	mmH2o	3,2	3,6	2,8	2,8	1,95
	noise	dB	22	32	32	32	21
	speed	rpm	2450	2600	2250	2250	1750
	input	W	4,9	16	7	7	12
	Voltage	V	230	230	230	230	230
	Current	mA	30	90	50	50	70
	size frame	mm	80 x 80 x 38	80 x 80 x 38	80 x 80 x 38	80 x 80 x 38	80 x 80 x 38
operating temperature	°C	-10 - +70	-20 - +70	-20 - +70	-20 - +70	-10 - +70	
axial AC fan 60 x 60 x 38 mm							
 	title		DY8038V2L-S	DY8038V2L-D	DY8038V24H-S		
	Max. Airflow	m3/min	0,48	0,42	0,59		
	Max. Airflow	CFM	17	15	21		
	Max. Static pressure	Pa	20,59	23,54	42,17		
	Max. Static pressure	mmH2o	2,1	2,4	4,3		
	noise	dB	18	29	29		
	speed	rpm	2200	2100	2700		
	input	W	3,3	6	16,2		
	Voltage	V	230	230	24		
	Current	mA	20	40	650		
	size frame	mm	80 x 80 x 38	80 x 80 x 38	80 x 80 x 38		
operating temperature	°C	-10 - +70	-20 - +70	-10 - +70			
axial AC fan 60 x 60 x 25 mm							
 	title		DYACUF80B11-H	DY8025V1M-S	DY8025V1M-S	DY8025V1L-S	DY8025V1L-S
	Max. Airflow	m3/min	0,54	0,43	0,34	0,28	0,28
	Max. Airflow	CFM	19	12	12	10	10
	Max. Static pressure	Pa	35,30	20,59	20,59	14,71	14,71
	Max. Static pressure	mmH2o	3,6	2,1	2,1	1,5	1,5
	noise	dB	32	27	27	25	27
	speed	rpm	2600	2100	2100	1750	1750
	input	W	14	10	10	7	7
	Voltage	V	115	115	115	115	115
	Current	mA	150	90	90	70	70
	size frame	mm	80	80 x 80 x 25	80 x 80 x 25	80 x 80 x 25	80 x 80 x 25
operating temperature	°C	-20 - +70	-10 - +70	-20 - +70	-10 - +70	-20 - +70	
axial AC fan 60 x 60 x 25 mm							
 	title		DY8025V2H-S	DY8025V2HB	DY8025V2H-S	DY8025V2H-S	DY8025V2M-S
	Max. Airflow	m3/min	0,5	0,5	0,42	0,42	0,4
	Max. Airflow	CFM	18	18	15	15	14
	Max. Static pressure	Pa	24,91	24,91	34,32	34,32	28,44
	Max. Static pressure	mmH2o	2,54	2,54	3,5	3,5	2,9
	noise	dB	25	25	27	27	27
	speed	rpm	2400	2400	2550	2550	2400
	input	W	10	9	15	15	10
	Voltage	V	230	230	230	230	230
	Current	mA	50	50	80	80	60
	size frame	mm	80 x 80 x 25	80 x 80 x 25	80 x 80 x 25	80 x 80 x 25	80 x 80 x 25
operating temperature	°C	-10 - +70	-10 - +70	-20 - +70	-10 - +70	-20 - +70	
axial AC fan 92 x 92 x 38 mm							
 	title		DY9238V1HM-B	DY9238V1MM-B	DY9238DVLBL-S	DY9238V1HM	DYACUF92AM11-H
	Max. Airflow	m3/min	1,3	1,18	1,91	1,33	1,25
	Max. Airflow	CFM	46	25	42	47	44
	Max. Static pressure	Pa	72,57	39,23	42,17	52,96	58,84
	Max. Static pressure	mmH2o	7,4	4	4,3	5,4	6
	noise	dB	38	35	32	38	37
	speed	rpm	2600	2300	2700	2600	2700
	input	W	16	14	12,8	16	12
	Voltage	V	110	110	115	115	115
	Current	mA	240	220	150	250	230
	size frame	mm	92 x 92 x 38	92 x 92 x 38	92 x 92 x 38	92 x 92 x 38	92 x 92 x 38
operating temperature	°C	-10 - +105	-10 - +105	-10 - +70	-10 - +70	-20 - +70	
axial AC fan 92 x 92 x 38 mm							
 	title		DY9238V1H	DY9238V1H-S	DYACUF92A11-H	DYACUF92B11-H	DY9238V1M-S
	Max. Airflow	m3/min	1,2	1,19	1,1	0,93	0,79
	Max. Airflow	CFM	42	42	38	33	28
	Max. Static pressure	Pa	47,37	42,17	54,92	37,27	22,56
	Max. Static pressure	mmH2o	4,83	4,3	5,6	3,8	2,3
	noise	dB	40	32	34	32	23
	speed	rpm	2750	2700	2800	2500	2400
	input	W	14	12,8	15	14	5,8
	Voltage	V	115	115	115	115	115
	Current	mA	190	150	220	150	70
	size frame	mm	92 x 92 x 38	92 x 92 x 38	92 x 92 x 38	92 x 92 x 38	92 x 92 x 38
operating temperature	°C	-10 - +70	-10 - +70	-20 - +70	-20 - +70	-10 - +70	
axial AC fan 92 x 92 x 38 mm							
 	title		DY9238V2HM	DY9238V2HM-B	DYACUF92AM23-H	DY9238V2H	DY9238V2H-S
	Max. Airflow	m3/min	1,33	1,3	1,25	1,2	1,19
	Max. Airflow	CFM	47	46	44	42	42
	Max. Static pressure	Pa	52,96	72,57	58,84	47,37	42,17
	Max. Static pressure	mmH2o	5,4	7,4	6	4,83	4,3
	noise	dB	38	38	37	40	32
	speed	rpm	2600	2600	2700	2750	2600
	input	W	16	16	12	15	12,7
	Voltage	V	230	230	230	230	230
	Current	mA	220	120	60	100	70
	size frame	mm	92 x 92 x 38	92 x 92 x 38	92 x 92 x 38	92 x 92 x 38	92 x 92 x 38
operating temperature	°C	-10 - +70	-10 - +105	-20 - +70	-10 - +70	-10 - +70	


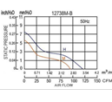
axial AC fan 92 x 92 x 38 mm						
	title	DY9238V2HM-B	DYACUF92A23-H	DYACUF92B23-H	DY9238DVHBL-S	DY9238V2M-S
 	Max. Airflow	m3/min	1,18	1,1	0,93	0,91
	Max. Airflow	CFM	25	38	33	32
	Max. Static pressure	Pa	39,23	54,92	41,19	32,36
	Max. Static pressure	mmH2o	4	5,6	4,2	3,3
	noise	dB	35	34	32	19
	speed	rpm	2300	2800	2500	2200
	input	W	14	15	16	6,8
	Voltage	V	230	230	230	230
	Current	mA	100	120	80	24
	size frame	mm	92 x 92 x 38	92 x 92 x 38	92 x 92 x 38	92 x 92 x 38
	operating temperature	°C	-10 - +105	-20 - +70	-20 - +70	-10 - +70
	operating temperature	°C	-10 - +105	-20 - +70	-20 - +70	-10 - +70
	operating temperature	°C	-10 - +105	-20 - +70	-20 - +70	-10 - +70
axial AC fan 92 x 92 x 25 mm						
	title	DY9225V2H-F	DY9225V1H	DY9225V1L-F	DY9225V2H-F	DY9225V2H
 	Max. Airflow	m3/min	0,93	0,85	0,55	0,85
	Max. Airflow	CFM	33	30	20	30
	Max. Static pressure	Pa	37,27	44,82	24,52	41,19
	Max. Static pressure	mmH2o	3,8	4,57	2,5	4,2
	noise	dB	32	40	28	32
	speed	rpm	2500	2700	1800	2500
	input	W	14	11	14	16
	Voltage	V	115	115	115	230
	Current	mA	150	140	140	80
	size frame	mm	92 x 92 x 25	92 x 92 x 25	92 x 92 x 25	92 x 92 x 25
	operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70
	Voltage Operating range	V	85 - 125	85 - 125	85 - 125	185 - 245
	Voltage Operating range	V	85 - 125	85 - 125	85 - 125	185 - 245
Voltage Operating range	V	85 - 125	85 - 125	85 - 125	185 - 245	
axial AC fan 92 x 92 x 25 mm						
	title	DY9225V2L-F				
 	Max. Airflow	m3/min	0,65			
	Max. Airflow	CFM	23			
	Max. Static pressure	Pa	17,65			
	Max. Static pressure	mmH2o	1,8			
	noise	dB	28			
	speed	rpm	1800			
	input	W	16			
	Voltage	V	230			
	Current	mA	70			
	size frame	mm	92 x 92 x 25			
	operating temperature	°C	-10 - +70			
	Voltage Operating range	V	185 - 245			
	Voltage Operating range	V	185 - 245			
Voltage Operating range	V	185 - 245				
axial AC fan 120 x 120 x 25 mm						
	title	DY12025V1H	DY12025V1H-S	DY12025V1M-S	DY12025V1L-S	DY12025V2H
 	Max. Airflow	m3/min	1,8	1,6	1,42	1,22
	Max. Airflow	CFM	61	56	50	43
	Max. Static pressure	Pa	54,82	49,03	39,23	34,32
	Max. Static pressure	mmH2o	5,59	5	4	3,5
	noise	dB	42	44	42	39
	speed	rpm	2600	2550	2400	2100
	input	W	13	20	8	5,5
	Voltage	V	115	115	115	115
	Current	mA	150	220	100	60
	size frame	mm	120 x 120 x 25	120 x 120 x 25	120 x 120 x 25	120 x 120 x 25
	operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70
	Voltage Operating range	V	85 - 125	100 - 120	100 - 120	100 - 120
	Voltage Operating range	V	85 - 125	100 - 120	100 - 120	100 - 120
Voltage Operating range	V	85 - 125	100 - 120	100 - 120	100 - 120	
axial AC fan 120 x 120 x 25 mm						
	title	DY12025V2H-S	DY12025V2M-S	DY12025V2L-S	DY12025DVHBL-S	
 	Max. Airflow	m3/min	1,6	1,42	1,22	1,22
	Max. Airflow	CFM	56	50	43	43
	Max. Static pressure	Pa	49,03	39,23	34,32	20,59
	Max. Static pressure	mmH2o	5	4	3,5	2,1
	noise	dB	44	42	36	36
	speed	rpm	2550	2400	2000	2000
	input	W	17	9,5	5	5
	Voltage	V	230	230	230	230
	Current	mA	100	60	30	30
	size frame	mm	120 x 120 x 25	120 x 120 x 25	120 x 120 x 25	120
	operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70
	Voltage Operating range	V	200 - 240	200 - 240	200 - 240	200 - 240
	Voltage Operating range	V	200 - 240	200 - 240	200 - 240	200 - 240
Voltage Operating range	V	200 - 240	200 - 240	200 - 240	200 - 240	
axial AC fan 120 x 120 x 38 mm						
	title	DY12038V1S-C	DY12038V1H-JS	DY12038V1S	DYACUF12AMR11-H	DY12038V1H-F
 	Max. Airflow	m3/min	3,03	2,97	2,9	2,6
	Max. Airflow	CFM	107	105	103	92
	Max. Static pressure	Pa	65,21	88,26	77,18	62,76
	Max. Static pressure	mmH2o	6,65	9	7,87	6,4
	noise	dB	40	43	43	49
	speed	rpm	2700	2700	2700	2600
	input	W	20	15	16	14
	Voltage	V	115	115	115	115
	Current	mA	250	120	220	200
	size frame	mm	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38
	operating temperature	°C	-10 - +70	-20 - +80	-10 - +70	-20 - +70
	operating temperature	°C	-10 - +70	-20 - +80	-10 - +70	-20 - +70
	operating temperature	°C	-10 - +70	-20 - +80	-10 - +70	-20 - +70
axial AC fan 120 x 120 x 38 mm						
	title	DYACUF12A11-H	DY12038V1H-SA	DY12038DVHBL-S	DYACUF12AM11-H	DY12038V1H-D
 	Max. Airflow	m3/min	2,6	2,6	2,5	2,41
	Max. Airflow	CFM	92	92	88	85
	Max. Static pressure	Pa	78,45	73,45	56,88	63,74
	Max. Static pressure	mmH2o	8	7,49	5,8	6,5
	noise	dB	42	40	42	42
	speed	rpm	2700	2550	2650	2700
	input	W	14	22	21,4	15
	Voltage	V	115	115	115	115
	Current	mA	200	291	270	260
	size frame	mm	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38
	operating temperature	°C	-20 - +70	-10 - +70	-10 - +70	-20 - +70
	operating temperature	°C	-20 - +70	-10 - +70	-10 - +70	-20 - +70
	operating temperature	°C	-20 - +70	-10 - +70	-10 - +70	-20 - +70
axial AC fan 120 x 120 x 38 mm						
	title	DY12038V1H	DY12038V1M-F	DYACUF12AR11-H	DY12038V1M	DY12038V1H-C
 	Max. Airflow	m3/min	2,4	2,4	2,4	2,35
	Max. Airflow	CFM	85	85	85	83
	Max. Static pressure	Pa	69,73	63,74	78,45	49,82
	Max. Static pressure	mmH2o	7,11	6,5	8	5,08
	noise	dB	44	40	45	42
	speed	rpm	2600	2500	2700	2500
	input	W	20	14	13	11
	Voltage	V	115	115	115	115
	Current	mA	260	180	200	140
	size frame	mm	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38
	operating temperature	°C	-10 - +70	-10 - +70	-20 - +70	-10 - +70
	operating temperature	°C	-10 - +70	-10 - +70	-20 - +70	-10 - +70
	operating temperature	°C	-10 - +70	-10 - +70	-20 - +70	-10 - +70


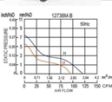
axial AC fan 120 x 120 x 38 mm							
	title		DY12038V1HR-C	DY12038V1HM	DY12038V1M-D	DY12038V1M-C	DY12038V1MR-C
	Max. Airflow	m3/min	2,35	2,33	2,2	2,15	2,15
	Max. Airflow	CFM	83	82,4	78	76	76
	Max. Static pressure	Pa	57,27	65,70	54,92	47,37	47,37
	Max. Static pressure	mmH2o	5,84	6,7	5,6	4,83	4,83
	noise	dB	42	41	40	37	37
	speed	rpm	2700	2650	2450	2200	2200
	input	W	19	24	11	11	11
	Voltage	V	115	115	115	115	115
	Current	mA	240	250	140	130	130
size frame	mm	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	
operating temperature	°C	-10 - +70	-10 - +70	-20 - +70	-10 - +70	-10 - +70	
axial AC fan 120 x 120 x 38 mm							
	title		DY12038V1L-F	DY12038V1MM	DY12038V1L-D	DYACUF12B11-H	DY12038V1L
	Max. Airflow	m3/min	2,1	1,98	1,93	1,8	1,7
	Max. Airflow	CFM	75	70	68	62	61
	Max. Static pressure	Pa	39,23	64,14	35,30	46,09	27,36
	Max. Static pressure	mmH2o	4	6,54	3,6	4,7	2,79
	noise	dB	36	38	38	38	34
	speed	rpm	2100	2250	2200	2400	2000
	input	W	14	23	10	14	11
	Voltage	V	115	115	115	115	115
	Current	mA	160	240	160	150	130
size frame	mm	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	
operating temperature	°C	-10 - +70	-10 - +70	-20 - +70	-20 - +70	-10 - +70	
axial AC fan 120 x 120 x 38 mm							
	title		DY12038V1XL	DY12038V1LM	DYACUF12BR11-H	DY12038V1LR-C	DY12038V1L-C
	Max. Airflow	m3/min	1,7	1,7	1,7	1,5	1,5
	Max. Airflow	CFM	61	60	60	54	54
	Max. Static pressure	Pa	22,46	51,29	44,13	39,81	39,81
	Max. Static pressure	mmH2o	2,29	5,23	4,5	4,06	4,06
	noise	dB	34	36	38	34	34
	speed	rpm	1900	1800	2400	2000	2000
	input	W	7	22	14	9	9
	Voltage	V	115	115	115	115	115
	Current	mA	80	230	150	110	110
size frame	mm	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	
operating temperature	°C	-10 - +70	-10 - +70	-20 - +70	-10 - +70	-10 - +70	
axial AC fan 120 x 120 x 38 mm							
	title		DY12038V2S-C	DY12038V2HM-B	DY12038V2H-IS	DY12038V2S	DYACUF12AMR23-H
	Max. Airflow	m3/min	3,02	3	2,97	2,9	2,7
	Max. Airflow	CFM	107	106	105	103	95
	Max. Static pressure	Pa	65,21	62,76	88,26	77,18	62,76
	Max. Static pressure	mmH2o	6,65	6,4	9	7,87	6,4
	noise	dB	40	46	43	43	49
	speed	rpm	2700	2600	2700	2700	2600
	input	W	21	19	15	16	20
	Voltage	V	230	220	230	230	230
	Current	mA	130	110	100	110	220
size frame	mm	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	
operating temperature	°C	-10 - +70	-10 - +105	-20 - +80	-10 - +70	-20 - +70	
axial AC fan 120 x 120 x 38 mm							
	title		DY1238V2MSL-C-C	DY12038V2H-5A	DYACUF12A23-H	DY12038V2H-F	DY12038DVHBL-51
	Max. Airflow	m3/min	2,65	2,6	2,6	2,6	2,5
	Max. Airflow	CFM	93,7	92	92	92	88
	Max. Static pressure	Pa	60,80	73,45	78,45	78,45	56,88
	Max. Static pressure	mmH2o	6,2	7,49	8	8	5,8
	noise	dB	42	40	42	42	42
	speed	rpm	2650	2550	2700	2700	2650
	input	W	24,4	16	17	17	21,4
	Voltage	V	230	230	230	230	230
	Current	mA	150	124	140	140	130
size frame	mm	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	
operating temperature	°C	-10 - +70	-10 - +70	-20 - +70	-10 - +70	-10 - +70	
axial AC fan 120 x 120 x 38 mm							
	title		DYACUF12AM23-H	DY12038V2SL-D	DY12038V2H-D	DY12038V2M-F	DY12038V2H
	Max. Airflow	m3/min	2,5	2,44	2,41	2,4	2,4
	Max. Airflow	CFM	89	86	85	85	85
	Max. Static pressure	Pa	63,74	76,49	75,51	63,74	69,73
	Max. Static pressure	mmH2o	6,5	7,8	7,7	6,5	7,11
	noise	dB	42	43	42	40	44
	speed	rpm	2700	2700	2650	2500	2700
	input	W	17	20	18	17	20
	Voltage	V	230	230	230	230	230
	Current	mA	100	140	130	90	130
size frame	mm	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	
operating temperature	°C	-20 - +70	-20 - +70	-20 - +70	-10 - +70	-10 - +70	
axial AC fan 120 x 120 x 38 mm							
	title		DYACUF12AR23-H	DY12038V2M	DY12038V2H-C	DY12038V2HR-C	DY12038V2HM
	Max. Airflow	m3/min	2,4	2,3	2,35	2,35	2,33
	Max. Airflow	CFM	85	83	83	83	82,4
	Max. Static pressure	Pa	78,45	49,82	57,27	57,27	65,70
	Max. Static pressure	mmH2o	8	5,08	5,84	5,84	6,7
	noise	dB	45	43	42	42	41
	speed	rpm	2700	2500	2700	2700	2650
	input	W	17	12	23	21	22
	Voltage	V	230	230	230	230	230
	Current	mA	100	70	150	130	140
size frame	mm	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	
operating temperature	°C	-20 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70	
axial AC fan 120 x 120 x 38 mm							
	title		DY12038V2L-S	DY12038V2HM-B	DY12038V2M-C	DY12038V2MR-C	DY12038V2L-F
	Max. Airflow	m3/min	2,3	2,2	2,15	2,15	2,1
	Max. Airflow	CFM	80	79	76	76	75
	Max. Static pressure	Pa	30,40	27,46	47,37	47,37	39,23
	Max. Static pressure	mmH2o	3,1	2,8	4,83	4,83	4
	noise	dB	36	39	37	37	36
	speed	rpm	2050	2000	2200	2200	2100
	input	W	9	16	18	18	17
	Voltage	V	230	220	230	230	230
	Current	mA	60	100	110	110	80
size frame	mm	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	
operating temperature	°C	-10 - +70	-10 - +105	-10 - +70	-10 - +70	-10 - +70	


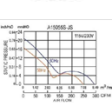
axial AC fan 120 x 120 x 38 mm							
	title	DY12038V2M-D	DY12038V2H-S	DY12038V2M-S	DY12038V2MM	DY12038V2M-SA	
 	Max. Airflow	m3/min	2,1	2,09	2,07	1,98	1,9
	Max. Airflow	CFM	74	101	95	70	67
	Max. Static pressure	Pa	49,03	81,40	64,72	64,14	50,80
	Max. Static pressure	mmH2o	5	8,3	6,6	6,54	5,18
	noise	dB	39	45	43	38	36
	speed	rpm	2300	2650	2500	2250	2000
	input	W	15	17	12	21	12
	Voltage	V	230	230	230	230	230
	Current	mA	90	120	70	130	78
	size frame	mm	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38
	operating temperature	°C	-20 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70


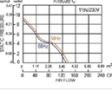
axial AC fan 120 x 120 x 38 mm							
	title	DYACUF12B23-H	DY12038V2L	DY12038V2LM	DY12038V2L-D	DY12038V2XL	
 	Max. Airflow	m3/min	1,8	1,7	1,7	1,081	1,6
	Max. Airflow	CFM	62	61	60	64	59
	Max. Static pressure	Pa	46,09	27,36	51,29	29,42	22,46
	Max. Static pressure	mmH2o	4,7	2,79	5,23	3	2,29
	noise	dB	38	34	36	35	33
	speed	rpm	2400	1900	1800	2000	1900
	input	W	16	12	20	11	9
	Voltage	V	230	230	230	230	230
	Current	mA	80	70	130	60	50
	size frame	mm	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38
	operating temperature	°C	-20 - +70	-10 - +70	-10 - +70	-20 - +70	-10 - +70


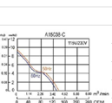
axial AC fan 120 x 120 x 38 mm						
	title	DY12038V2L-SA	DY12038V2LR-C	DY12038V2L-C	DYACUF12BR23-H	
 	Max. Airflow	m3/min	1,61	1,5	1,5	1,7
	Max. Airflow	CFM	57	54	54	60
	Max. Static pressure	Pa	37,76	39,81	39,81	44,13
	Max. Static pressure	mmH2o	3,85	4,06	4,06	4,5
	noise	dB	33	34	34	38
	speed	rpm	1600	2000	2000	2400
	input	W	9,1	13	13	16
	Voltage	V	230	230	230	230
	Current	mA	58	80	80	80
	size frame	mm	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38
	operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-20 - +70


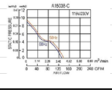

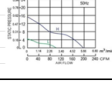

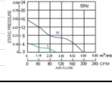

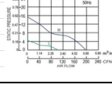

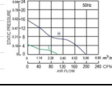

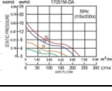

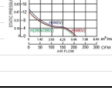

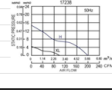

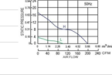
axial AC fan 127 x 127 x 38 mm							
	title	DY12738V1HM-B	DY12738V1MM-B	DY12738V1H	DY12738V2HM-B	DY12738V2MM-B	
 	Max. Airflow	m3/min	3,4	2,7	3	2,7	
	Max. Airflow	CFM	120	94	104	120	94
	Max. Static pressure	Pa	70,61	53,94	72,57	70,61	50,99
	Max. Static pressure	mmH2o	7,2	5,5	7,4	7,2	5,2
	noise	dB	50	41	50	50	41
	speed	rpm	2600	2000	2700	2600	2000
	input	W	27	25	25,2	25	23
	Voltage	V	110	110	115	220	220
	Current	mA	280	260	350	160	150
	size frame	mm	127 x 127 x 38	127 x 127 x 38	127 x 127 x 38	127 x 127 x 38	127 x 127 x 38
	operating temperature	°C	-10 - +70	-10 - +70	-10 - +70	-10 - +70	-10 - +70

axial AC fan 127 x 127 x 38 mm							axial AC fan 135 x 135 x 38 mm		
	title	DY12738V2H		DY13538V1H-TJ	DY13538V2H-TJ	DY13538V3H-TJ			
 	Max. Airflow	m3/min	3	3,28	3,03	3,03			
	Max. Airflow	CFM	104	116	107	107			
	Max. Static pressure	Pa	72,57	51,98	48,05	48,05			
	Max. Static pressure	mmH2o	7,4	5,3	4,9	4,9			
	noise	dB	50	41	41	41			
	speed	rpm	2700	2450	2450	2450			
	input	W	27,8	19	19	19			
	Voltage	V	230	110	220	380			
	Current	mA	200	260	120	70			
	size frame	mm	127 x 127 x 38		135 x 135 x 38	135 x 135 x 38	135 x 135 x 38		
	operating temperature	°C	-10 - +70		-10 - +70	-10 - +70	-10 - +70		

axial AC fan Ø151 x 55 mm							
	title	DY15055V1H-JS	DY15055V1HB-DA	DY15055VHBL-C	DY15055V1H	DY15055V1H-S	
 	Max. Airflow	m3/min	6,08	5,94	5,94	4,3	
	Max. Airflow	CFM	215	210	210	151	
	Max. Static pressure	Pa	142,20	122,58	122,78	144,16	95,12
	Max. Static pressure	mmH2o	14,5	12,5	11,5	14,7	9,7
	noise	dB	52	57	51	57	50
	speed	rpm	2750	2700	2700	2900	2600
	input	W	26	27	46	38	67
	Voltage	V	115	115	115	115	115
	Current	mA	230	250	570	340	730
	size frame	mm	Ø151 x 55	Ø151 x 55	Ø151 x 55	Ø151 x 55	Ø151 x 55
	operating temperature	°C	-20 - +80	-10 - +70	-10 - +70	-10 - +70	-10 - +70
	Voltage Operating range	V	100 - 120	104 - 126	100 - 120	85 - 125	100 - 120

axial AC fan Ø150 x 38 mm						
	title	DY15038V1HBL-C	DY15038V2HBL-C			
 	Max. Airflow	m3/min	4	4		
	Max. Airflow	CFM	140	140		
	Max. Static pressure	Pa	94,63	94,63		
	Max. Static pressure	mmH2o	9,65	9,65		
	noise	dB	0,38	0,38		
	speed	rpm	2300	2300		
	input	W	22	27		
	Voltage	V	115	230		
	Current	mA	300	180		
	size frame	mm	Ø150 x 38	Ø150 x 38		
	operating temperature	°C	-0 - +70	-0 - +70		
	Voltage Operating range	V	100 - 120	200 - 240		

axial AC fan 150 x 172 x 55 mm							
	title	DY15055VHBL-C	DY15055V2H-JS	DY15055V2H-DA	DY15055V2HBL-C	DY15055V2H-S	
 	Max. Airflow	m3/min	7,01	6,08	5,94	5,94	4,3
	Max. Airflow	CFM	248	215	210	210	151
	Max. Static pressure	Pa	34,32	142,20	122,58	105,91	95,12
	Max. Static pressure	mmH2o	3,5	14,5	12,5	10,8	9,7
	noise	dB	54	52	57	51	50
	speed	rpm	2980	2750	2700	2700	2600
	input	W	31,7	26	26	46	55
	Voltage	V	230	230	230	230	230
	Current	mA	200	120	110	300	300
	size frame	mm	150 x 172 x 55	150 x 172 x 55	150 x 172 x 55	150 x 172 x 55	150 x 172 x 55
	operating temperature	°C	-10 - +70	-20 - +80	-10 - +70	-10 - +70	-10 - +70
	Voltage Operating range	V	200 - 240	200 - 240	207 - 253	200 - 240	200 - 240

axial AC fan 150 x 172 x 55 mm							
 	title		DY150S5-F-IG	DY150S5V2H		DY150S5V24H-S	
	Max. Airflow	m3/min	5,8	5,7		4,39	
	Max. Airflow	CFM	205	202		155	
	Max. Static pressure	Pa	137,29	144,16		86,30	
	Max. Static pressure	mmH2o	14	14,7		8,8	
	noise	dB	61	57		50	
	speed	rpm	2850	2900		2530	
	input	W	26	37		34	
	Voltage	V	230	230		24	
	Current	mA	110	170		1950	
	size frame	mm	150 x 172 x 55	150 x 172 x 55		150 x 172 x 55	
	operating temperature	°C	-10 +70	-10 +70		-10 +70	
	Voltage Operating range	V	185 - 245	185 - 245		185 - 245	
axial AC fan Ø172 x 51 mm							
 	title		DY170S1V1H-DA	DY170S1V1S-S	DY170S1V1S1BM-DA	DY170S1V1M-DA	DY170S1V1HBM-DA
	Max. Airflow	m3/min	6,8	6,79	6,23	5,9	5,94
	Max. Airflow	CFM	240	240	230	210	210
	Max. Static pressure	Pa	166,71	120,62	161,81	137,29	137,29
	Max. Static pressure	mmH2o	17	12,3	16,5	14	14
	noise	dB	55	56	55	53	53
	speed	rpm	2800	2800	2800	2650	2700
	input	W	27	46	36	27	27
	Voltage	V	115	115	115	115	115
	Current	mA	280	300	270	250	250
	size frame	mm	Ø172 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51
	operating temperature	°C	-20 +70	-10 +70	-30 +85	-20 +70	-30 +85
	Voltage Operating range	V	85 - 125	100 - 120	85 - 125	85 - 125	85 - 125
axial AC fan Ø172 x 51 mm							
 	title		DY170S1V1H	DY170S1V1H-S	DY170S1V1M1BM-DA	DY170S1V1M-S	DY170S1V1L1BM-DA
	Max. Airflow	m3/min	5,57	5,4	4,92	4,7	3,82
	Max. Airflow	CFM	195	190	174	165	135
	Max. Static pressure	Pa	140,08	131,41	64,72	92,18	32,36
	Max. Static pressure	mmH2o	15,1	13,4	6,6	9,4	3,3
	noise	dB	57	50	51	40	47
	speed	rpm	2800	2800	2400	2550	1800
	input	W	25	26,7	14	16,1	8
	Voltage	V	115	115	115	115	115
	Current	mA	220	230	120	150	70
	size frame	mm	Ø172 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51
	operating temperature	°C	-10 +70	-10 +70	-30 +85	-10 +70	-30 +85
	Voltage Operating range	V	85 - 125	100 - 120	85 - 125	100 - 120	85 - 125
axial AC fan Ø172 x 51 mm							
 	title		DY170S1V1L	DY170S1V1L-S	DY170S1V2S-S	DY170S1V2H-DA	DY170S1V2SLBM-DA
	Max. Airflow	m3/min	2,83	2,7	6,79	6,8	6,23
	Max. Airflow	CFM	100	96	240	240	230
	Max. Static pressure	Pa	44,82	33,34	120,62	166,71	161,81
	Max. Static pressure	mmH2o	4,57	3,4	12,3	17	16,5
	noise	dB	39	32	56	55	55
	speed	rpm	1400	1450	2800	2800	2800
	input	W	17	19,8	57,2	24	23
	Voltage	V	115	115	230	230	230
	Current	mA	150	180	300	110	100
	size frame	mm	Ø172 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51
	operating temperature	°C	-10 +70	-10 +70	-10 +70	-20 +70	-30 +85
	Voltage Operating range	V	85 - 125	100 - 120	200 - 240	185 - 245	185 - 245
axial AC fan Ø172 x 51 mm							
 	title		DY170S1V2HBM-DA	DY170S1V2M-DA	DY170S1V2H	DY170S1V2LBM-DA	DY170S1V2H-S
	Max. Airflow	m3/min	5,94	5,9	5,57	3,82	5,4
	Max. Airflow	CFM	210	210	195	135	190
	Max. Static pressure	Pa	137,29	137,29	148,08	33,34	131,41
	Max. Static pressure	mmH2o	14	14	15,1	3,4	13,4
	noise	dB	53	53	57	47	50
	speed	rpm	2700	2650	2800	1850	2650
	input	W	26	26	24	10	49,1
	Voltage	V	230	230	230	230	230
	Current	mA	110	110	110	40	310
	size frame	mm	Ø172 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51
	operating temperature	°C	-30 +85	-20 +70	-10 +70	-30 +85	-10 +70
	Voltage Operating range	V	185 - 245	185 - 245	185 - 245	185 - 245	200 - 240
axial AC fan Ø172 x 51 mm							
 	title		DY170S1V2M1BM-DA	DY170S1V2M-S	DY170S1V2L	DY170S1V2L-S	
	Max. Airflow	m3/min	4,92	4,7	2,85	2,85	
	Max. Airflow	CFM	174	165	101	96	
	Max. Static pressure	Pa	64,72	92,18	44,82	33,34	
	Max. Static pressure	mmH2o	6,6	9,4	4,57	3,4	
	noise	dB	51	40	39	32	
	speed	rpm	2400	2550	1400	1450	
	input	W	16	17,9	14	17,9	
	Voltage	V	230	230	230	230	
	Current	mA	70	90	60	80	
	size frame	mm	Ø172 x 51	Ø172 x 51	Ø172 x 51	Ø172 x 51	
	operating temperature	°C	-30 +85	-10 +70	-10 +70	-10 +70	
	Voltage Operating range	V	185 - 245	200 - 240	185 - 245	200 - 240	
axial AC fan Ø172 x 51 mm							
 	title		DY170S1V3HBM-DA		DY170S1V4HBM-DA		DY170S1V480HBM-DA
	Max. Airflow	m3/min	5,66		5,94		5,94
	Max. Airflow	CFM	200		210		210
	Max. Static pressure	Pa	117,68		132,39		117,68
	Max. Static pressure	mmH2o	12		13,5		12
	noise	dB	52		53		53
	speed	rpm	2600		2700		2600
	input	W	22		29		33
	Voltage	V	380		440		480
	Current	mA	60		80		70
	size frame	mm	Ø172 x 51		Ø172 x 51		Ø172 x 51
	operating temperature	°C	-30 +85		-30 +85		-30 +85
	Voltage Operating range	V					
axial AC fan 172 x 151 x 38 mm							
 	title		DY17238V1H	DY17238V1XL	DY17238V2H	DY17238V2XL	
	Max. Airflow	m3/min	5,6	2,8	5,6	2,8	
	Max. Airflow	CFM	198	100	198	99	
	Max. Static pressure	Pa	143,47	42,07	143,47	42,07	
	Max. Static pressure	mmH2o	14,63	4,29	14,63	4,29	
	noise	dB	58	40	58	40	
	speed	rpm	2800	1400	2800	1400	
	input	W	25	16	25	14	
	Voltage	V	115	115	230	230	
	Current	mA	220	150	110	60	
	size frame	mm	172 x 151 x 38	172 x 151 x 38	172 x 151 x 38	172 x 151 x 38	
	operating temperature	°C	-10 +70	-10 +70	-10 +70	-10 +70	
	Voltage Operating range	V	85 - 125	85 - 125	185 - 245	185 - 245	
axial AC fan 172 x 151 x 38 mm							
 	title		DY17251V1H	DY17251V1L	DY17251V2H	DY17251V2L	
	Max. Airflow	m3/min	5,6	2,8	5,6	2,8	
	Max. Airflow	CFM	198	99	198	99	
	Max. Static pressure	Pa	164,75	34,03	164,75	34,03	
	Max. Static pressure	mmH2o	16,8	3,47	16,8	3,47	
	noise	dB	57	39	57	39	
	speed	rpm	2850	1400	2850	1400	
	input	W	25	17	25	14	
	Voltage	V	115	115	230	230	
	Current	mA	220	150	110	60	
	size frame	mm	172 x 151 x 51	172 x 151 x 51	172 x 151 x 51	172 x 151 x 51	
	operating temperature	°C	-10 +70	-10 +70	-10 +70	-10 +70	
	Voltage Operating range	V	85 - 125	85 - 125	185 - 245	185 - 245	

AC / EC-Motors (Electronically Commuted, or Electronically Controlled):

AC-fans, based on EC motors

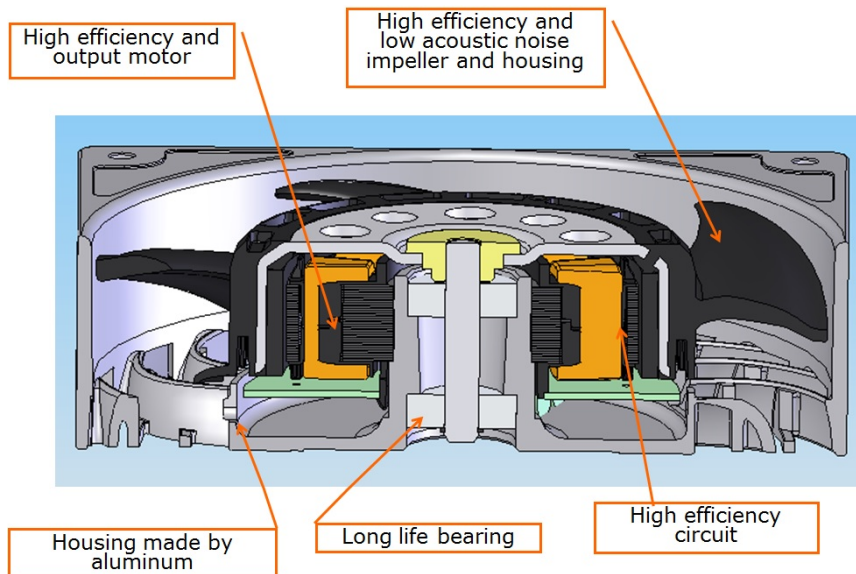
very high efficiency, and maintain a high efficiency level at part speed. This means that in most cases they use from less than one third to one half of the electricity used by the traditional "shaded pole" induction motors used in the ventilation and refrigeration industries, which in turn translates into lower operating costs and short payback periods.





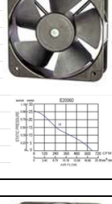
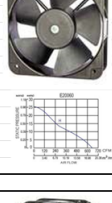




run "cool", and dramatically reduce the amount of waste heat produced. Reduced waste heat at the evaporator motor level also typically results in reduced operation at the compressor level, which allows further energy savings. Further, running cooler improves the life of highly loaded motor parts like windings and bearings. have a wider operating range than traditional induction motors, which means that one ECM motor can replace a number of induction motor models. In this way, the number of models required by a typical customer is significantly decreased, which decreases and simplifies inventory. This is the main reason why ECM product lines usually include less motor models than their induction counterparts.

In terms of speed control and features, because the motor's operation is controlled by software, EC motors allow customers to optimize and integrate the motor, fan and controller with the application, and to include features like data communications, constant volume control, variable speed, etc.

EC motors are also quieter than traditional inefficient motors, have longer design life and require less maintenance.

Our family of EC-type of radial and axial fans are available in several sizes and power supplies and with several options, like IP-levels, connections, etc




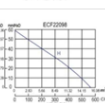

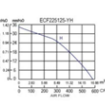




axial EC-fan 60 x 60 x 25 mm						
	title		DYE6025V1HB-F	DYE6025V2HB-F	DYE6025FVHB-F	DYECUFT60BPP
	Max. Airflow	m3/min	0,54	0,55	0,55	0,55
	Max. Airflow	CFM	19,1	19,4	19,4	19,4
	Max. Static pressure	Pa	42,17	45,11	45,11	45,11
	Max. Static pressure	mmH2o	4,3	4,6	4,6	4,6
	noise	dB	31	31	31	31
	speed	rpm	3850	3950	3950	3950
	input	W	2	2,3	2,3	2,3
	Voltage	V	115	230	230	230
	Current	mA	39	25	25	25
size frame	mm	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25	60 x 60 x 25	
operating temperature	°C	-20 +70	-20 +70	-20 +70	-20 +70	
axial EC-fan 80 x 80 x 25 mm						
	title		DYE8025V2M8LD-YH2	DYER025V1M8LD-YH2	DYECUFT92ABP80AH1D4A	DYECUFT92BBP80AM1D4A
	Max. Airflow	m3/min	1,14	1,14	1,4	1,1
	Max. Airflow	CFM	40,2	40,2	50	39
	Max. Static pressure	Pa	44,82	44,82	82,38	22,56
	Max. Static pressure	mmH2o	4,57	4,57	8,4	2,3
	noise	dB	38,5	38,5	43	34
	speed	rpm	3000	3000	3850	2650
	input	W	4	4	5,2	3
	Voltage	V	220	110	230	230
	Current	mA			50	33
size frame	mm	80 x 80 x 25	80 x 80 x 25	92 x 92 x 38	92 x 92 x 38	
operating temperature	°C	-10 +70	-10 +70	-20 +70	-20 +70	
axial EC-fan 80 x 80 x 25 mm						
	title		DYE8038V1H8LD-YH	DYER038V2H8LD-YH	DYECUFT80BPP	
	Max. Airflow	m3/min	1,76	1,76	0,9	
	Max. Airflow	CFM	62,3	62,3	31	
	Max. Static pressure	Pa	112,78	112,78	29,42	
	Max. Static pressure	mmH2o	11,5	11,5	3	
	noise	dB	52,1	52,1	32	
	speed	rpm	5000	5000	3150	
	input	W	9	9	2,8	
	Voltage	V	110	220	230	
	Current	mA	110		31	
size frame	mm	80 x 80 x 38	80 x 80 x 38	80 x 80 x		
operating temperature	°C	-10 +70	-10 +70	-20 +70		
axial EC-fan 80 x 80 x 38 mm						
	title		DYE12038V1H8LD-YH3	DYE12038V2H8LD-YH3	DYE12038V1BHL-YH1	DYE12038V2BHL-YH1
	Max. Airflow	m3/min	5,94	5,94	3,8	3,8
	Max. Airflow	CFM	209,1	209,1	133,82	133,82
	Max. Static pressure	Pa	250,07	250,07	128,47	128,47
	Max. Static pressure	mmH2o	25,5	25,5	13,1	8,6
	noise	dB	64,7	64,7	0,52	0,52
	speed	rpm	4500	4500	3500	3200
	input	W	30	30	15	15
	Voltage	V	110	220	110	220
	Current	mA				
size frame	mm	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	120 x 120 x 38	
operating temperature	°C	-10 +60	-10 +60	-10 +70	-10 +70	
axial EC-fan 200 x 200 x 60 mm						
	title		DYE20060V1HBL	DYE20060V1MBL	DYE20060V1LBL	DYE20060V2HBL
	Max. Airflow	m3/min	17,49	14,57	11,66	17,49
	Max. Airflow	CFM	616,4	513,66	410,93	616,4
	Max. Static pressure	Pa	108,66	90,61	72,47	108,66
	Max. Static pressure	mmH2o	11,08	9,24	7,39	11,08
	noise	dB	65,8	62,5	62,5	65,8
	speed	rpm	3000	2500	2000	3000
	input	W	70	50	40	70
	Voltage	V	110	110	110	220
	Current	mA	700	70	70	1000
size frame	mm	200 x 200 x 60	200 x 200 x 60	200 x 200 x 60	200 x 200 x 60	
operating temperature	°C	-10 +60	-10 +60	-10 +60	-10 +60	
axial EC-fan 200 x 200 x 60 mm						
	title		DYE20060V2MBL	DYE20060V2LBL		DYE20060VHBL
	Max. Airflow	m3/min	14,57	11,66		18,44
	Max. Airflow	CFM	513,66	410,93		650
	Max. Static pressure	Pa	90,61	72,47		251,54
	Max. Static pressure	mmH2o	9,24	7,39		25,85
	noise	dB	62,5	62,5		70
	speed	rpm	2500	2000		3000
	input	W	50	40		60
	Voltage	V	220	220		220
	Current	mA	70	70		1000
size frame	mm	200 x 200 x 60	200 x 200 x 60		200 x 200 x 60	
operating temperature	°C	-10 +60	-10 +60		-10 +60	
axial EC-fan 205 x 205 x 72 mm						
	title					DYE20872V2HB-YH
	Max. Airflow	m3/min				17,88
	Max. Airflow	CFM				631,74
	Max. Static pressure	Pa				244,68
	Max. Static pressure	mmH2o				24,95
	noise	dB				65
	speed	rpm				3250
	input	W				66
	Voltage	V				230
	Current	mA				500
size frame	mm				205 x 205 x 72	
operating temperature	°C				-10 +60	
axial EC-fan 172 x 151 x 51 mm						
	title		DYE17215V2HBL-TK	DYECUFT15PBPB23M1 D4A		DYECUFT15PBPB23M1 D4A
	Max. Airflow	m3/min	5,44	6,2		6,2
	Max. Airflow	CFM	192,2	220		220
	Max. Static pressure	Pa	125,53	153,96		153,96
	Max. Static pressure	mmH2o	12,8	15,7		15,7
	noise	dB	36,8	57		57
	speed	rpm	2700	3000		3000
	input	W	11,2	15		15
	Voltage	V	220	115		230
	Current	mA	100	230		172 X150 X 51
size frame	mm	172 X 151 X 51	172 X 150 X 51		172	
operating temperature	°C	-10 +70	-10 +60		-20 +70	
axial EC-fan Ø250 x 51 mm						
	title		DYECUFT2008PB11H1 D4A	DYECUFT2008MB11H1 D4A	DYECUFT2008PB23H1 D4A	DYECUFT2008MB23H1 D4A
	Max. Airflow	m3/min	14	13	14	13
	Max. Airflow	CFM	495	460	495	460
	Max. Static pressure	Pa	137,29	114,74	137,29	114,74
	Max. Static pressure	mmH2o	14	11,7	14	11,7
	noise	dB	56	55	56	55
	speed	rpm	2200	2200	2200	2200
	input	W	26	26	27	27
	Voltage	V	115	115	230	230
	Current	mA	400	400	240	240
size frame	mm	Ø250 x 76,5	Ø250 x 76,5	Ø250 x 76,5	Ø250 x 76,5	
operating temperature	°C	-20 +70	-20 +70	-20 +70	-20 +70	
axial E- fan 254 x 89						
	title		DYE25089V1HBL	DYECUFT25GBPB11H1 D8A	DYE25089V2HBL	DYECUFT25GBPB11H1 D8A
	Max. Airflow	m3/min	25,68	23,5	25,68	23,5
	Max. Airflow	CFM	905	830	905	830
	Max. Static pressure	Pa	274,00	299,10	274,00	299,10
	Max. Static pressure	mmH2o	27,94	30,5	27,94	30,5
	noise	dB	69	70	69	70
	speed	rpm	2700	2750	2700	1700
	input	W	101	75	101	72
	Voltage	V	110	115	220	230
	Current	mA	1600	1050	760	640
size frame	mm	Ø254 X 89	Ø254 X 89	Ø254 X 89	Ø254 X 89	
operating temperature	°C	-10 +60	-20 +70	-10 +60	-20 +70	

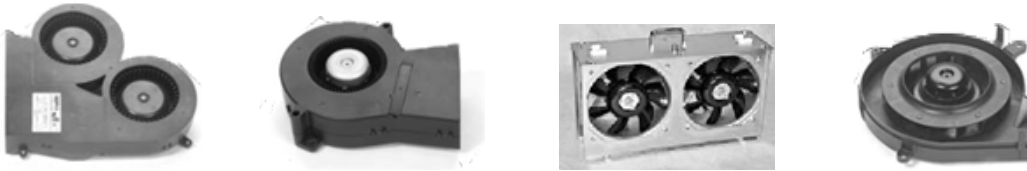
Centrifugal fans are, like axial fans, constant-airflow devices, meaning that, at a constant speed, a centrifugal fan moves a relatively constant volume of air rather than a constant mass. This means that the air velocity in a system is fixed, but the actual mass of air flowing will vary based on the density of the air.

Centrifugal fans are used to move air in ducted applications such as a house or typical office environment.

centrifugal DC fan Ø100 x 26 mm						
	title	DYCF10025V12H-YC	DYCF10025V12M-YC	DYCF10025V12L-YC	DYCF10025V24L-YC	DYCF10025V24M-YC
	Max. Airflow	m3/min	1,276	1,141	0,912	1,276
	Max. Airflow	CFM	45,08	40,32	32,24	45,08
	Max. Static pressure	Pa				
	Max. Static pressure	mmH2o	27,73	28,7	21,85	27,73
	noise	dB	54,9	52,4	44,53	54,9
	speed	rpm	4500	4000	3000	4500
	input	W		6	3,6	7,2
	Voltage	V	12	12	12	24
	Current	mA	500	500	300	300
	size frame	mm	Ø100 x 26	Ø100 x 26	Ø100 x 26	Ø100 x 26
	operating temperature	°C	-10 - +60	-10 - +60	-10 - +60	-10 - +60
centrifugal DC fan Ø100 x 26 mm						
	title	DYCF10025V24L-YC	DYCF10025V48L-YC	DYCF10025V48M-YC	DYCF10025V48L-YC	
	Max. Airflow	m3/min	0,912	1,276	1,141	0,912
	Max. Airflow	CFM	32,24	45,08	40,32	32,24
	Max. Static pressure	Pa				
	Max. Static pressure	mmH2o	21,85	27,73	28,7	21,85
	noise	dB	44,53	54,9	52,4	44,53
	speed	rpm	3000	4500	4000	3000
	input	W	4,8		9,6	4,8
	Voltage	V	24	48	48	48
	Current	mA	200		200	100
	size frame	mm	Ø100 x 26	Ø100 x 26	Ø100 x 26	Ø100 x 26
	operating temperature	°C	-10 - +60	-10 - +60	-10 - +60	-10 - +60
centrifugal DC fan Ø133 x 79 mm						
	title	DYCF13391V24SLB-B	DYCF13391V24HB-B	DYCF13391V48SLB-B	DYCF13391V48HB-B	
	Max. Airflow	m3/min	5,72	5,15	5,72	5,15
	Max. Airflow	CFM	202	182	202	182
	Max. Static pressure	Pa		392,27		
	Max. Static pressure	mmH2o	45	40	45	40
	noise	dB	63	60	63	60
	speed	rpm	4500	4000	4500	4000
	input	W	48	34	48	48
	Voltage	V	24	24	48	48
	Current	mA	2000	1400	1000	700
	size frame	mm	133 x 79	133 x 79	133 x 79	133 x 79
	operating temperature	°C	-25 - +65	-25 - +65	-25 - +65	-25 - +65
centrifugal DC fan Ø133 x 88 mm						
	title	DYECF13388V2HB-PB	DYECF13388V2HB-PB			
	Max. Airflow	m3/min	5,3201	9,8201		
	Max. Airflow	CFM	188	347		
	Max. Static pressure	Pa	550,15	350,10		
	Max. Static pressure	mmH2o	56,1	35,7		
	noise	dB	71	71		
	speed	rpm	4240	3110		
	input	W	42	49		
	Voltage	V	220	220		
	Current	mA				
	size frame	mm	133 x 88	133 x 88		
	operating temperature	°C	-25 - +60	-25 - +60		
centrifugal DC fan Ø220 x 52,7 mm						
	title	DYECF225125V1HB-YH	DYECF225125V2HB-YH	DYECF225135V2HB-PB		
	Max. Airflow	m3/min	16,61	16,61	20,82	
	Max. Airflow	CFM	586,4	576,4	736	
	Max. Static pressure	Pa	339,6	339,6	700,19	
	Max. Static pressure	mmH2o	34,63	34,63	71,4	
	noise	dB	63	63	71	
	speed	rpm	2200	2200	3010	
	input	W	90	90	139	
	Voltage	V	110	220	230	
	Current	mA				
	size frame	mm	220 x 52,7	220 x 52,7	225 x 104	
	operating temperature	°C	-10 - +70	-10 - +70	-20 - +65	
centrifugal DC fan Ø122 x 71 mm						
	title	E2271Z48B7AP-00	E2271Z24B5VP-00			
	Max. Airflow	m3/min	18,1	14,7		
	Max. Airflow	CFM	639	519		
	Max. Static pressure	Pa	650	470		
	Max. Static pressure	mmH2o	66,26	47,98		
	noise	dB	71	69		
	speed	rpm	3200	2650		
	input	W				
	Voltage	V	48	24		
	Current	mA	2100	2600		
	size frame	mm	Ø222 x 71	Ø222 x 71		
	operating temperature	°C	-20 - +60	-20 - +40		

centrifugal EC-fan (AC) Ø190 x 74 mm							
	title	DYECF19074V2HB-PB	DYECF19074V2MB-PB	DYECF190102V2HB-PB	DYECF19095V2HB-YH	DYECF190120V2HB	
	Max. Airflow	m3/min	14,4896	11,32	14,999	10,14	11,17
	Max. Airflow	CFM	512	400	530	358,14	395
	Max. Static pressure	Pa	500,14	450,13	800,22	456,30	749,23
	Max. Static pressure	mmH2o	51	45,9	81,6	46,53	76,4
	noise	dB	71	71	71	71,4	65
	speed	rpm	3110	3110	3110	3000	3600
	input	W	87	64	87	90	160
	Voltage	V	220	220	220	220	230
	size frame	mm	Ø190 x 74	Ø190 x 74	Ø190 x 74	Ø190 x 74	Ø190 x 74
	operating temperature	°C	-25 - +60	-25 - +60	-25 - +60	-10 - +70	-20 - +60
centrifugal EC-fan (AC) Ø190 x 95							
	title	DYECF19095V1HB-YH		DYECF200118V2HB		DYECF22075V2HB-PB	
	Max. Airflow	m3/min	10,14		13,66		15,6
	Max. Airflow	CFM	358,14		483		588
	Max. Static pressure	Pa	456,30		869,85		470,72
	Max. Static pressure	mmH2o	46,53		88,7		48
	noise	dB	71,4		65		70
	speed	rpm	3000		4000		2470
	input	W	90		219		86
	Voltage	V	110		230		220
	Current	mA			1500		
size frame	mm	Ø190 x 95		Ø220 x 118		Ø220 x 75	
operating temperature	°C	-10 - +70		-20 - +60		-25 - +60	
EC-fan (AC) Ø220 x 98 mm							
	title	DYECF22098V2HB	DYECF22098V1HB			DYECF220102V2HB-PB	
	Max. Airflow	m3/min	15,97	15,97			23,1
	Max. Airflow	CFM	564,2	564,2			815
	Max. Static pressure	Pa	582,52	582,52			1098,34
	Max. Static pressure	mmH2o	59,4	59,4			112
	noise	dB	70	70			72
	speed	rpm	3200	3200			2250
	input	W	110	110			168
	Voltage	V	230	115			220
	Current	mA	700	1400			
size frame	mm	Ø220 x 98	Ø220 x 98			Ø220 x 102	
operating temperature	°C	-20 - +60	-20 - +60			-25 - +60	
EC-fan (AC) Ø220 x 102 mm							
	title						
	Max. Airflow	m3/min					
	Max. Airflow	CFM					
	Max. Static pressure	Pa					
	Max. Static pressure	mmH2o					
	noise	dB					
	speed	rpm					
	input	W					
	Voltage	V					
	Current	mA					
size frame	mm						
operating temperature	°C						
EC-fan (AC) Ø190 x 74							
	title	DYECF225103V2HB-PB					
	Max. Airflow	m3/min	23,1				
	Max. Airflow	CFM	815				
	Max. Static pressure	Pa	350,10				
	Max. Static pressure	mmH2o	35,7				
	noise	dB	62				
	speed	rpm	2140				
	input	W	85				
	Voltage	V	220				
	Current	mA					
size frame	mm	Ø225 x 103					
operating temperature	°C	-25 - +60					
EC-fan (AC) Ø225 x 117							
	title			DYECF225117V2HB-PB			
	Max. Airflow	m3/min			28,6		
	Max. Airflow	CFM			1012		
	Max. Static pressure	Pa			950,26		
	Max. Static pressure	mmH2o			96,9		
	noise	dB			62		
	speed	rpm			1385		
	input	W			170		
	Voltage	V			220		
	Current	mA					
size frame	mm			Ø225 x 117			
operating temperature	°C			-25 - +60			
EC-fan (AC) Ø225 x 125							
	title	DYECF225125V1HB-YH	DYECF225125V2HB-YH			DYECF225125FVM	
	Max. Airflow	m3/min	16,61	16,61			20,19
	Max. Airflow	CFM	586,4	576,4			713,4
	Max. Static pressure	Pa	339,60	339,60			549,17
	Max. Static pressure	mmH2o	34,63	34,63			56
	noise	dB	63	63			69
	speed	rpm	2200	2200			2500
	input	W	90	90			100
	Voltage	V	110	220			270
	Current	mA					800
size frame	mm	Ø225 x 125	Ø225 x 125			Ø225 x 125	
operating temperature	°C	-10 - +70	-10 - +70			-20 - +60	
EC-fan (AC) Ø225 x 135 mm							
	title					DYECF225135V2HB-PB	
	Max. Airflow	m3/min				20,82	
	Max. Airflow	CFM				736	
	Max. Static pressure	Pa				700,19	
	Max. Static pressure	mmH2o				71,4	
	noise	dB				71	
	speed	rpm				3010	
	input	W				139	
	Voltage	V				230	
	Current	mA				1000	
size frame	mm				Ø225 x 135		
operating temperature	°C				-20 - +65		

Options for Customisation



Options for customization:

On request additional products tailored to customer specifications and needs are available right up to complete, ready-to-connect modules. In cooperation with our suppliers, the customised fans and blowers can be assembled so that they are optimally prepared for the respective installation situation and can easily be implemented in the customer's design. This saves time and, above all, costs.

A number of custom solutions are possible, for example:

- Cable assemblies such as special cable lengths with ferrules or with plugs.
- In addition, the cables can be provided with a protective tube.
- Individual cable labeling
- moisture protection

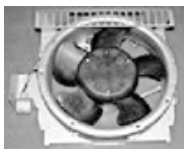
Fully customised products can be manufactured to optimally match your equipment. For home appliances such as refrigerators, air conditioners and washing machines and for industrial machinery and information communication equipment, including open showcases, power sources and computer-related equipment. Please contact Dynerics for more information.

Semi-customized products, including;

- 1) For operation in a high-temperature atmosphere of 80 °C.
- 2) Long life products (60,000 hours or longer at 60 °C, 100,000 hours at 50 °C)
- 3) Energy saving products (30 % to 50 % less input compared with conventional products)
- 4) IP55 products (Outdoor installation and in a high-humidity environment)
- 5) Variable-speed products (PWM, voltage or resistance value command), dual-speed products
- 6) Fans for high static pressure regions (92 mm sq. x 38 mm thick, 120 mm sq. x 38 mm thick, 172 mm dia. x 51 mm thick and others)
- 7) Fans to prevent galvanic corrosion of ball bearings (ceramic ball specification)



Tray units fitted with a standard or semi-customized fans.



Tray shape designed, manufactured and tailored to customer specifications.

Dynerics B.V. De Rijn 12 5684PJ Best, The Netherlands
Tel: +31-(0)499-371007 | Fax: +31-(0)499-372008



Nidec
All for dreams

stepper motors

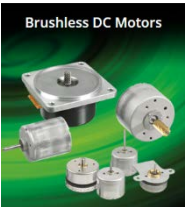
Hybrid, PM, low vibration, low noise
Compact design up to 50 Nm, linearstep, 2 & 3-phase versions
0.6° -3.75° step angle, integrated driver electronics
Manufacturers: Nidec Servo, Shinano Kenshi, NPM, KSS



NPM

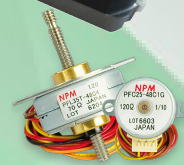
Stepper and BLDC motor controller / driver boards and modules

Single & Multi axes 2,3,4 & 5 phases unipolar, bipolar
Up to 4 axes, microstep, up to 8A. Various communication
Fieldbus (CANopen, MODBUS) Ethernet, RS485, USB
Manufacturers: Nidec Servo, SHS, NPM, ELMO, Panasonic



Brushed motors and geared motors

Torque up to 35Nm
Manufacturers: Nidec Servo, Tsukasa, Canon



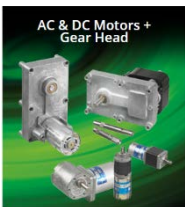
Brushless Motors and gears

Outside, or insid- runners; Optionally with integrated driver electronics
Manufacturers: Nidec Servo, Nidec, Tsukasa, Canon, Mellor



Motors with ironless rotor and gearbox

Brushed, or brushless 0.4-46W torque to 20Nm planetary gear
Manufacturers: E-DriveSystem, Canon, TopBand



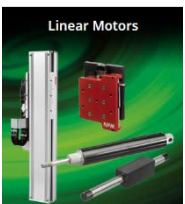
Piezomotoren

10 to 150 mm, up to 3Nm, noiseless, short response time integrated speed /
position torque sensors
Manufacturers: Tekceleo



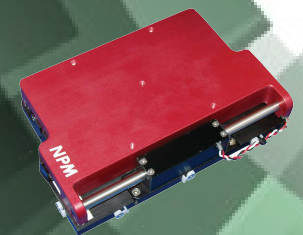
Linear servo motors / Electric cylinders and modules

Ultra-precise, Dynamic, Stable.
Height reproducibility, compact direct drive. Maintenance and cogging free shaft
diameter from 4mm to 100mm stroke from 20mm to 4600mm captive / non-
captive. Top thrust force up to 10kN;
Manufacturer: NPM, KSS



AC geared motors

Shaded pole & EC motors
Motors up to 90W torque up to 30Nm
Manufacturer: Nidec Servo, Mellor, DKM



Fans and blowers

Reliable, kugelgelagert
Lifetime up to 100,000 hours. Tested to VDE / UL / CSA IP54-65 versions
Manufacturer: Nidec Servo, Nidec



Embedded IC's

One-chip stepper motor driver ICs, programmable pulse generators, integrated
homing, anti-feedback, S-curve. Reduces engine noise Linear spiral, helical / circular
interpolation
Manufacturer: Nippon Pulse



Ball Screws

High accuracy, minimal friction, integr. Ball feedback, high rigidity, smooth running
Manufacturer: KSS



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