

# DHA 220 E4P 30

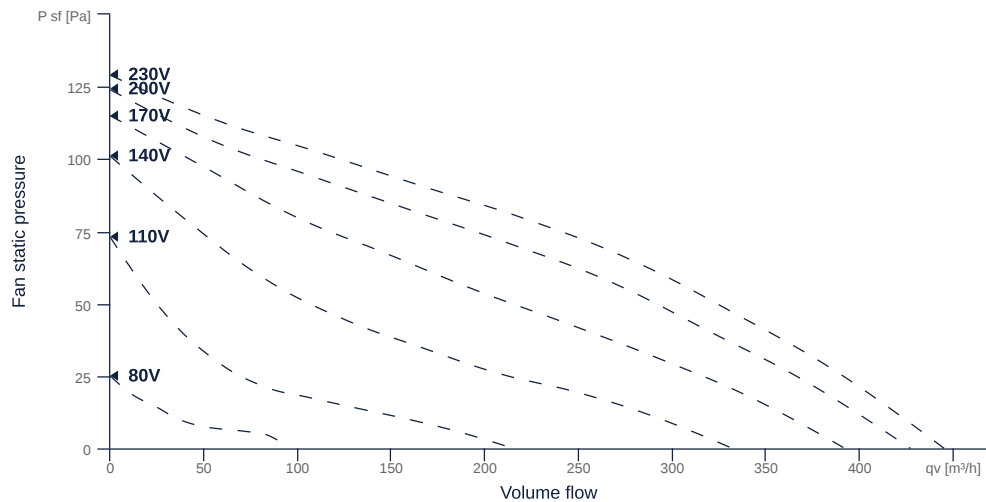
131792

- Horizontal discharge centrifugal fan
- Backward curved impeller
- Housing made of aluminium AlMg3
- Robust single phase AC motor, voltage controllable
- Integrated thermal switch
- Integrated device switch



## FAN CURVES

Name	Value	Unit
Volume flow	0	m³/h
Pressure	0	Pa



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## GENERAL DATA

Name	Value	Unit	Formula symbol
Labeling	CE, UKCA		
Duct size	-		WxH <sub>duct</sub>
Pipe connection size (DN)	DN180		DN
Rated voltage (entire device)	230	V	U <sub>rated</sub>
Phases (entire device)	1~		phase
Electrical protection (entire device)	6 A		fuse
Housing material	Aluminium		mat <sub>casing</sub>
Impeller material	Plastic		mat <sub>impeller</sub>
IP-protection class (casing)	IP44		IP <sub>casing</sub>
IP-protection class (entire device)	IPX4		IP <sub>compl</sub>
IP-Protection class (terminal box)	IP44		IP <sub>ebox</sub>
Weight	5.2	kg	m
Nominal air flow rate, nominal point m <sup>3</sup> /h	349.2	m <sup>3</sup> /h	q <sub>v,nom</sub>
Nominal external pressure, static	40	Pa	p <sub>s,nom</sub>
Fan type	Radial		F <sub>antype</sub>
Category / Installation situation	A		cat

## ERP DATA (LOT 6)

Name	Value	Unit	Formula symbol
Nominal air flow rate, nominal point m <sup>3</sup> /s	0.1	m <sup>3</sup> /s	q <sub>v,nom</sub>
Actual electrical input power, nominal point	0.02	kW	P <sub>e,nom</sub>
Face velocity, nominal point	1.33	m/s	V <sub>nom</sub>
Nominal external pressure, static	40	Pa	p <sub>s,nom</sub>
supply air fan static efficiency, nominal point	22	%	η <sub>es,SUP</sub>
Enclosure sound level, nominal point	62	dba	LWA2
Rating	Product is compliant 2018		



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## MAXIMAL DATA

Name	Value	Unit	Formula symbol
Max. power consumption (device)	21	W	P <sub>ed, max</sub>
Max. operating current (device)	0.22	A	I <sub>ed, max</sub>
Max. speed	1400	1/min	n <sub>max</sub>
Max. stat. efficiency	22.9	%	η <sub>es</sub>
Max. fan efficiency	23.3	%	η <sub>e</sub>
Max. flowrate	450	m <sup>3</sup> /h	Q <sub>v, max</sub>
Max. stat pressure	130	Pa	p <sub>sf, max</sub>
Max. medium temperature	80	°C	T <sub>m, max</sub>
Max. environment temperature	80	°C	T <sub>amb, max</sub>
Min. environment temperature	-25	°C	T <sub>amb, min</sub>
Min. voltage	80	V	U <sub>min</sub>
Stall current	0.17	A	I <sub>LRA</sub>

## MOTOR DATA

Name	Value		Unit	Formula symbol
	50 Hz	60 Hz		
Rated frequency (device)		50		f
Motor type		AC 1~		phase
Control type		stepless-controlled		ctrltype
Installation type		ORM (Out)		install
Rotation direction		right		rotation
Isolation class		ISO F		ISOclass
Motor-protection		TAI		protectmotor
Protection class		IP33		IP <sub>motor</sub>
Is pole-changeable		No		polexch
Type of power supply		AC 1~		pwr <sub>sup</sub> motor
Capacity capacitor		3	μF	C <sub>cond</sub>
Voltage capacitor		400	V	V <sub>Ucond</sub>
Number of poles (1)		4.000000		num poles <sub>w1</sub>
Rated voltage	230		V	U <sub>rated, f1</sub>
Rated current	0.1		A	I <sub>rated, f1</sub>
Speed	1291		1/min	n <sub>f1</sub>
Efficiency	50.8		%	η <sub>m, f1</sub>
Min. temperature	-30		°C	T <sub>motor, min</sub>
Cos Phi	0.900000	0.000000		cos φ
UL-Certification motor		None		ULcert



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