

## Axis-Q

### Axial wall fan

#### Use

- Supply and extract ventilation systems installed in various premises.
- Ideal solution for boosting large air volumes at low aerodynamic resistance in the ventilation system.
- Refrigerating technologies for cooling of compressor condensing units.
- Direct air extract .
- For positive pressure ventilation in fire-fighting systems.



**Air flow:**  
up to 12400 m<sup>3</sup>/h  
3445 l/s



**Power:**  
from 50 W



**Noise level:**  
from 50 dBA



#### Design

- Steel casing and impeller with a special polymer atmospheric resistant coating.
- Casing is equipped with a square mounting plate and a round flange to facilitate wall mounting.
- The fan is equipped with a terminal box for connection to power mains.

#### Motor

- Two- or four-pole asynchronous motor with external rotor and axial impeller.
- Single-phase (**E**) or three-phase (**D**) motor modifications.
- Equipped with ball bearings for longer service life.
- Integrated overheating protection with automatic restart.

#### Speed control

- Smooth speed control with an external thyristor controller or step speed control with an external auto transformer (both available upon separate order).

#### Mounting

- Wall surface mounting with a square connecting frame.
- Any mounting position with respect to air flow direction in the system.
- Power is supplied through an external terminal box.

#### Designation key

Series	Dimension type	Motor	
		Number of poles	Phase
Axis-Q	200; 250; 300; 350; 400; 450; 500; 550; 630	2, 4, 6	<b>E</b> : single-phase <b>D</b> : three-phase

#### Accessories

Flexible antivibration connector

Speed controller



EVAF

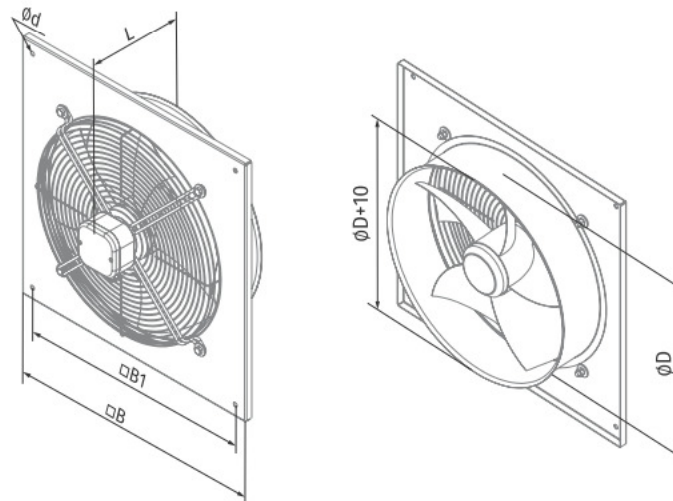


CDT E1.8

ErP Parameter	
Overall efficiency	η, [%]
Measurement category	MC
Efficiency category	EC
Efficiency grade	N
Variable speed drive	VSD
Power	[kW]
Current	[A]
Air flow	[m <sup>3</sup> /h]
Static pressure	[Pa]
Speed	[n/min <sup>1</sup> ]
Specific ratio	SR

**Overall dimensions [mm]**

Type	$\varnothing D$	$\varnothing d$	B	B1	L	Weight [kg]
Axis-Q 200 2E	210	7	312	260	145	3.95
Axis-Q 250 2E	260	7	370	320	155	4.17
Axis-Q 250 4E	260	7	370	320	155	4.06
Axis-Q 300 2E	326	9	430	380	195	5.27
Axis-Q 300 4E	326	9	430	380	195	5.11
Axis-Q 350 4E	388	9	485	435	200	7.05
Axis-Q 400 4E	417	9	540	490	240	8.80
Axis-Q 450 4E	465	11	576	535	250	10.50
Axis-Q 500 4E	520	11	655	615	260	14.15
Axis-Q 550 4E	570	11	725	675	280	16.50
Axis-Q 630 4E	650	11	800	710	295	22.55
Axis-Q 250 2D	260	7	370	320	155	4.17
Axis-Q 250 4D	260	7	370	320	155	4.06
Axis-Q 300 2D	326	9	430	380	155	5.27
Axis-Q 300 4D	326	9	430	380	155	5.11
Axis-Q 350 4D	388	9	485	435	200	7.05
Axis-Q 400 4D	417	9	540	490	240	8.80
Axis-Q 450 4D	465	11	576	535	250	10.50
Axis-Q 500 4D	520	11	655	615	260	14.2
Axis-Q 550 4D	580	11	725	675	260	16.6
Axis-Q 630 4D	650	11	800	710	295	22.6
Axis-Q 630 6E	650	11	800	710	295	22.6

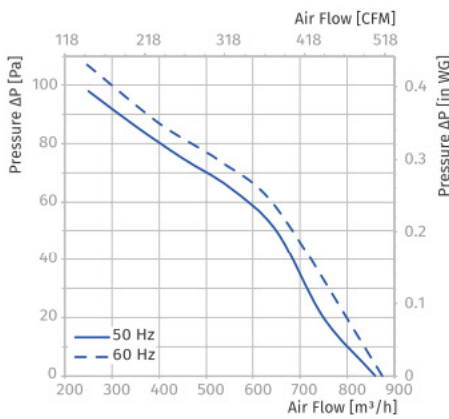


**Technical data**

Parameters	Axis-Q 200 2E		Axis-Q 250 2E		Axis-Q 250 4E		Axis-Q 300 2E		Axis-Q 300 4E		Axis-Q 350 4E		Axis-Q 400 4E	
Voltage [V]	230		230		230		230		230		230		230	
Frequency [Hz]	50	60	50	60	50	60	50	60	50	60	50	60	50	60
Power [W]	55	61	80	91	50	56	145	178	75	92	140	147	180	240
Current [A]	0.26	0.28	0.4	0.42	0.22	0.24	0.66	0.79	0.35	0.4	0.65	0.66	0.82	1.08
Maximum air flow [m³/h (l/s)]	860 (239)	875 (243)	1050 (292)	1150 (319)	800 (222)	865 (240)	2230 (619)	2280 (633)	1340 (372)	1475 (410)	2500 (695)	2650 (736)	3580 (995)	3890 (1081)
RPM [min⁻¹]	2300	2550	2400	2990	1380	1730	2300	2410	1350	1405	1380	1700	1380	1655
Sound pressure at 3 m [dBA]	50	51	60	61	55	56	60	61	58	59	62	63	63	64
Transported air temperature [°C]	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50
SEC class	-		-		-		-		-		-		-	
Ingress protection rating	IP24		IP24		IP24		IP24		IP24		IP24		IP24	
Motor IP rating	IP44		IP44		IP44		IP44		IP44		IP44		IP44	
ErP	-		-		-		2015		-		2015		2015	

**AXIS-Q 200 2E**

Sound power level, A-weighted	Octave frequency bands [Hz]								
	Gen.	63	125	250	500	1000	2000	4000	8000
LWA to environment [dBA]	65	56	58	58	57	59	55	51	45



**AXIS-Q 250 2E, AXIS-Q 250 4E**

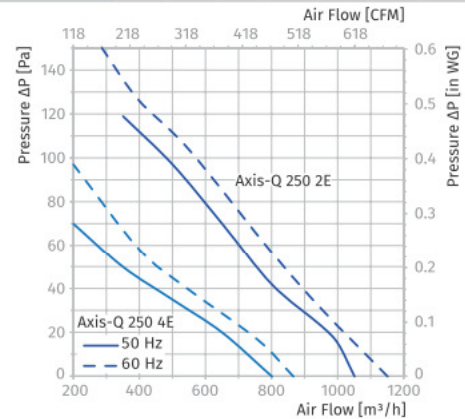
Sound power level, A-weighted	Octave frequency bands [Hz]								
	Gen.	63	125	250	500	1000	2000	4000	8000
LWA to environment [dBA]	76	68	66	68	70	68	68	63	58

Axis-Q 250 2E									
LWA to environment [dBA]	76	68	66	68	70	68	68	63	58

Axis-Q 250 4E									
LWA to environment [dBA]	60	52	50	52	53	52	52	44	43



**AXIS-Q 300 2E, AXIS-Q 300 4E**

Sound power level, A-weighted	Octave frequency bands [Hz]								
	Gen.	63	125	250	500	1000	2000	4000	8000
LWA to environment [dBA]	78	72	72	70	72	70	69	63	63

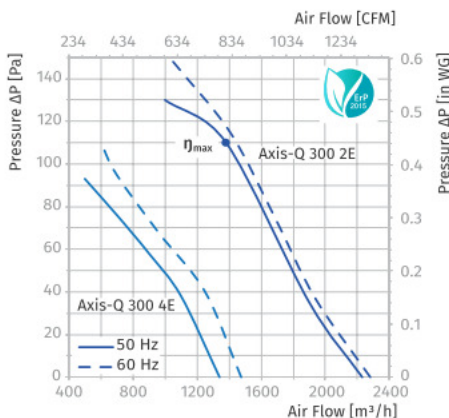
Axis-Q 300 2E									
LWA to environment [dBA]	78	72	72	70	72	70	69	63	63

Axis-Q 300 4E									
LWA to environment [dBA]	67	58	57	59	57	58	53	52	49

η, [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
30.5	A	Static	42.2	No	0.141	0.64	1380	110	2350	1



**AXIS-Q 350 4E, AXIS-Q 400 4E**

Sound power level, A-weighted	Octave frequency bands [Hz]								
	Gen.	63	125	250	500	1000	2000	4000	8000
LWA to environment [dBA]	70	61	62	64	63	63	58	56	52

Axis-Q 350 4E									
LWA to environment [dBA]	70	61	62	64	63	63	58	56	52

Axis-Q 400 4E									
LWA to environment [dBA]	75	66	68	66	69	67	65	61	56

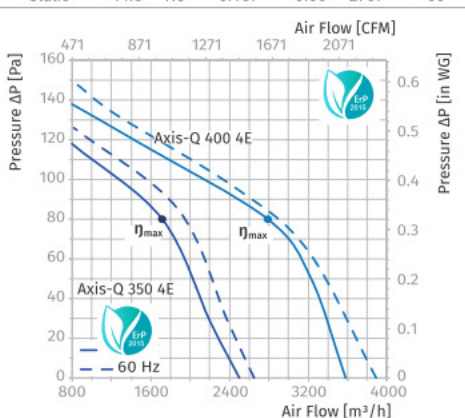
η, [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
29.9	A	Static	41.8	No	0.130	0.6	1717	80	1375	1

Axis-Q 400 4E									
LWA to environment [dBA]	75	66	68	66	69	67	65	61	56

η, [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
33.8	A	Static	44.8	No	0.187	0.86	2787	80	1355	1

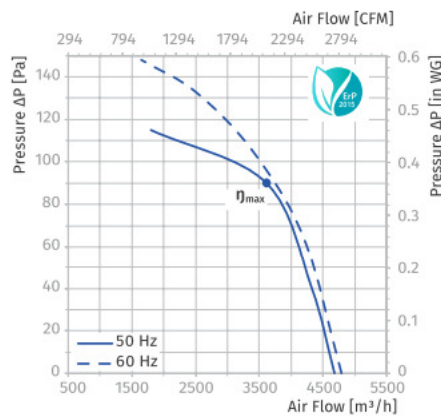




Parameters	Axis-Q 450 4E		Axis-Q 500 4E		Axis-Q 550 4E		Axis-Q 630 4E	
Voltage [V]	230		230		230		230	
Frequency [Hz]	50	60	50	60	50	60	50	60
Power [W]	250	325	420	455	550	654	750	979
Current [A]	1.2	1.46	1.95	2.05	2.55	2.88	3.5	4.26
Maximum air flow [m³/h (l/s)]	4680 (1300)	4790 (1331)	7060 (1961)	7130 (1981)	8800 (2445)	8970 (2492)	11900 (3306)	12100 (3361)
RPM [min⁻¹]	1350	1600	1300	1630	1300	1580	1360	1625
Sound pressure at 3 m [dBA]	64	65	69	69	70	71	75	76
Transported air temperature [°C]	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50
SEC class	-		-		-		-	
Ingress protection rating	IP24		IP24		IP24		IP24	
Motor IP rating	IP44		IP44		IP44		IP44	
ErP	2015		2015		2015		2015	

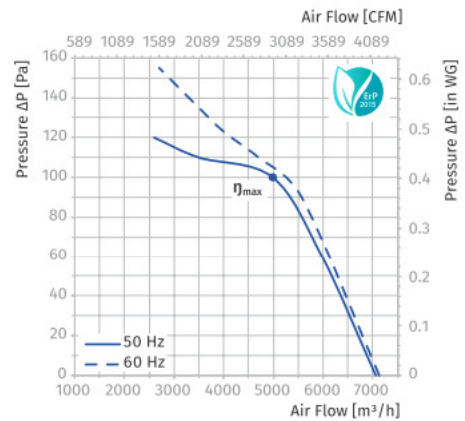
### AXIS-Q 450 4E

Sound power level, A-weighted	Octave frequency bands [Hz]									
	Gen.	63	125	250	500	1000	2000	4000	8000	
L <sub>WA</sub> to environment [dBA]	77	69	70	73	73	71	67	67	61	
η, [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
32.0	A	Static	41.8	No	0.288	1.31	3610	90	1270	1



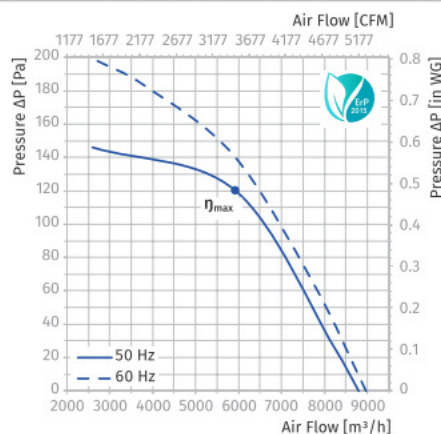
### AXIS-Q 500 4E

Sound power level, A-weighted	Octave frequency bands [Hz]									
	Gen.	63	125	250	500	1000	2000	4000	8000	
L <sub>WA</sub> to environment [dBA]	80	71	73	72	74	73	70	67	63	
η, [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
32.1	A	Static	40.7	No	0.440	2.01	4987	100	1285	1



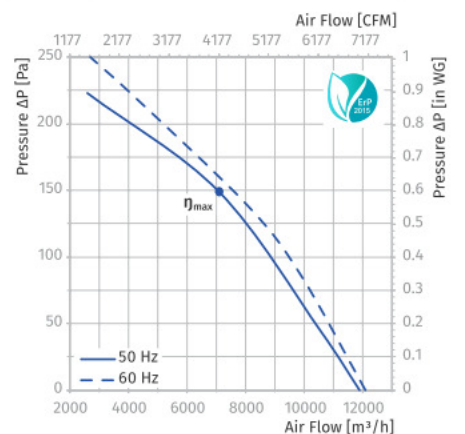
### AXIS-Q 550 4E

Sound power level, A-weighted	Octave frequency bands [Hz]									
	Gen.	63	125	250	500	1000	2000	4000	8000	
L <sub>WA</sub> to environment [dBA]	83	73	75	73	75	74	72	66	63	
η, [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
34.7	A	Static	42.6	No	0.581	2.64	5919	120	1240	1



### AXIS-Q 630 4E

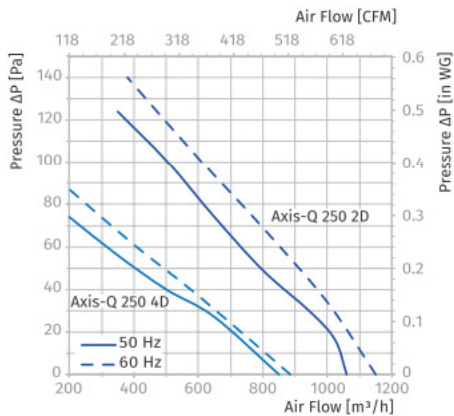
Sound power level, A-weighted	Octave frequency bands [Hz]									
	Gen.	63	125	250	500	1000	2000	4000	8000	
L <sub>WA</sub> to environment [dBA]	77	71	73	72	73	71	70	63	59	
η, [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
37.5	A	Static	44.4	No	0.800	3.76	7095	149	1290	1



Parameters	Axis-Q 250 2D		Axis-Q 250 4D		Axis-Q 300 2D		Axis-Q 300 4D		Axis-Q 350 4D		Axis-Q 400 4D	
Voltage [V]	230		230		230		230		230		230	
Frequency [Hz]	50	60	50	60	50	60	50	60	50	60	50	60
Power [W]	80	92	60	89	145	165	75	94	140	150	180	195
Current [A]	0.22	0.24	0.17	0.22	0.25	0.29	0.22	0.25	0.38	0.41	0.47	0.55
Maximum air flow [m <sup>3</sup> /h (l/s)]	1060 (294)	1150 (319)	850 (236)	885 (246)	2310 (642)	2390 (664)	1310 (364)	1530 (425)	2520 (700)	2590 (720)	3740 (1039)	3870 (1075)
RPM [min <sup>-1</sup> ]	2600	3030	1400	1750	2350	2570	1380	1640	1380	1640	1380	1625
Sound pressure at 3 m [dBA]	60	62	55	55	60	61	58	62	63	63	64	65
Transported air temperature [°C]	-30...+60	-30...+60	-30...+60	-30...+60	-30...+60	-30...+60	-30...+60	-30...+60	-30...+60	-30...+60	-30...+60	-30...+60
SEC class	-		-		-		-		-		-	
Ingress protection rating	IP24		IP24		IP24		IP24		IP24		IP24	
Motor IP rating	IP44		IP44		IP44		IP44		IP44		IP44	
ErP	-		-		2015		2015		2015		2015	

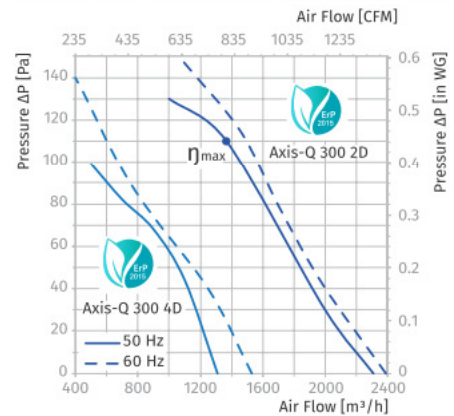
**AXIS-Q 250 2D, AXIS-Q 250 4D**

Sound power level, A-weighted	Octave frequency bands [Hz]								
	Gen.	63	125	250	500	1000	2000	4000	8000
<b>Axis-Q 250 2D</b>									
L <sub>WA</sub> to environment [dBA]	77	67	68	70	69	68	66	60	57
<b>Axis-Q 250 4D</b>									
L <sub>WA</sub> to environment [dBA]	60	49	50	53	54	53	52	45	42


**AXIS-Q 300 2D, AXIS-Q 300 4D**

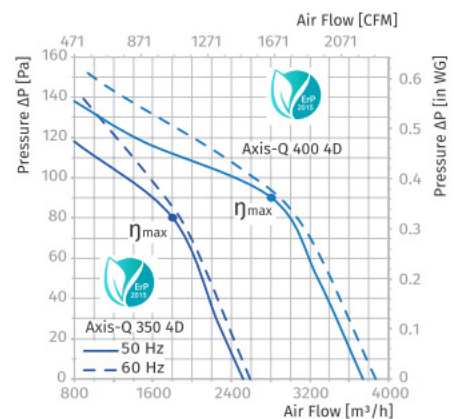
Sound power level, A-weighted	Octave frequency bands [Hz]								
	Gen.	63	125	250	500	1000	2000	4000	8000
<b>Axis-Q 300 2D</b>									
L <sub>WA</sub> to environment [dBA]	80	72	71	71	74	70	69	65	63
<b>Axis-Q 300 4D</b>									
L <sub>WA</sub> to environment [dBA]	63	58	55	58	56	58	57	52	48

η, [%]	MC	EC	N	VSD	[kW]	[A]	[m <sup>3</sup> /h]	[Pa]	[RPM]	SR
30.3	A	Static	42	No	0.141	0.25	1367	110	2350	1


**AXIS-Q 350 4D, AXIS-Q 400 4D**

Sound power level, A-weighted	Octave frequency bands [Hz]								
	Gen.	63	125	250	500	1000	2000	4000	8000
<b>Axis-Q 350 4D</b>									
L <sub>WA</sub> to environment [dBA]	72	62	61	64	64	61	61	56	54
<b>Axis-Q 400 4D</b>									
L <sub>WA</sub> to environment [dBA]	75	65	66	69	66	67	64	60	55

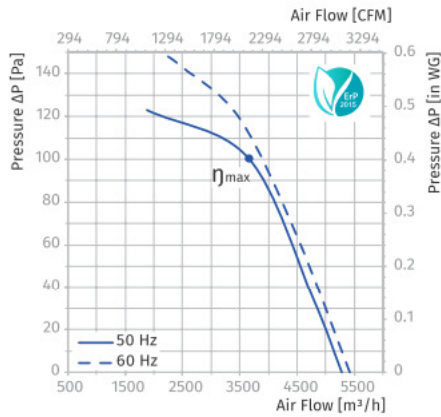
η, [%]	MC	EC	N	VSD	[kW]	[A]	[m <sup>3</sup> /h]	[Pa]	[RPM]	SR
31.7	A	Static	43.7	No	0.129	0.37	1802	80	1400	1
34.3	A	Static	44.9	No	0.209	0.47	2807	90	1365	1



Parameters	Axis-Q 450 4D		Axis-Q 500 4D		Axis-Q 550 4D		Axis-Q 630 4D		Axis-Q 630 6E	
Voltage [V]	230		230		230		230		230	
Frequency [Hz]	50	60	50	60	50	60	50	60	50	60
Power [W]	250	275	450	370	750	600	800	910	540	610
Current [A]	0.6	0.65	0.9	0.7	1.5	1.1	1.6	1.68	2.4	2.74
Maximum air flow [m³/h (l/s)]	5280 (1467)	5350 (1486)	6570 (1825)	6230 (1731)	9700 (2695)	7380 (2050)	12200 (3389)	12400 (3445)	10900 (3028)	10990 (3053)
RPM [min⁻¹]	1360	1620	1300	1605	1350	1605	1320	1585	850	1075
Sound pressure at 3 m [dBA]	65	66	72	67	73	74	78	79	72	73
Transported air temperature [°C]	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50
SEC class	-		-		-		-		-	
Ingress protection rating	IP24		IP24		IP24		IP24		IP24	
Motor IP rating	IP44		IP44		IP44		IP44		IP44	
ErP	2015		2015		2015		2015		2015	

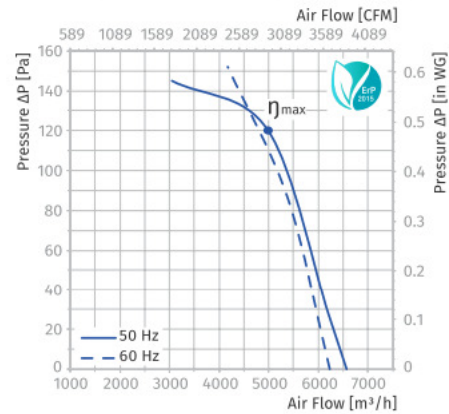
**AXIS-Q 450 4D**

Sound power level, A-weighted	Octave frequency bands [Hz]									
	Gen.	63	125	250	500	1000	2000	4000	8000	
L <sub>WA</sub> to environment [dBA]	76	65	68	69	69	70	64	60	57	
η, [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
35.1	A	Static	44.8	No	0.296	0.59	3659	100	1310	1



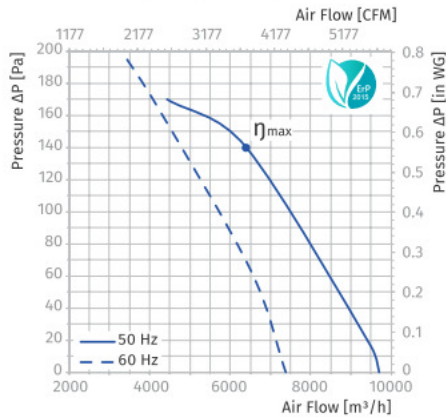
**AXIS-Q 500 4D**

Sound power level, A-weighted	Octave frequency bands [Hz]									
	Gen.	63	125	250	500	1000	2000	4000	8000	
L <sub>WA</sub> to environment [dBA]	82	73	71	75	78	76	71	65	61	
η, [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
33.8	A	Static	44.8	No	0.187	0.86	2787	80	1355	1



**AXIS-Q 550 4D**

Sound power level, A-weighted	Octave frequency bands [Hz]									
	Gen.	63	125	250	500	1000	2000	4000	8000	
L <sub>WA</sub> to environment [dBA]	84	75	79	72	76	71	77	69	68	
η, [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
38.8	A	Static	46.3	No	0.656	1.27	6400	140	1175	1



**AXIS-Q 630 4D, AXIS-Q 630 6E**

Sound power level, A-weighted	Octave frequency bands [Hz]									
	Gen.	63	125	250	500	1000	2000	4000	8000	
<b>Axis-Q 630 4D</b>										
L <sub>WA</sub> to environment [dBA]	78	75	69	70	74	74	69	65	64	
<b>Axis-Q 630 6E</b>										
L <sub>WA</sub> to environment [dBA]	75	51	56	61	65	67	66	60	54	
η, [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR
41.2	A	Static	48.1	No	0.810	1.61	7743	152	1290	1
35	A	Static	43.3	No	0.500	2.55	6857	90	915	1

