

Axis-QR

Axial wall fans

Use

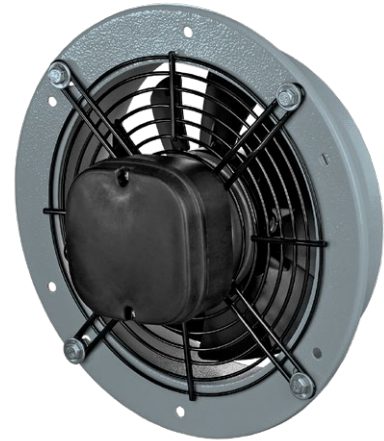
- Supply and extract ventilation systems installed in various premises.
- Ideal solution for boosting large air volumes at low aerodynamic resistance in the ventilation system.
- Refrigerating technologies for cooling of compressor condensing units.
- Direct air extract.
- For positive pressure ventilation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



Air flow:
up to 15550 m³/h
4320 l/s



Power:
from 50 W



Design

- Steel casing and impeller with a special polymer atmospheric resistant coating.
- Casing is equipped with a round 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-, four-, six- or eight-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

- Step speed control with an external auto transformer (available upon separate order).

Mounting

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

AXIAL FANS

Designation key

Series	Dimension type	Motor Number of poles	Phase
Axis-QR	200; 250; 300; 350; 400; 450; 500; 550; 630; 710; 800	2; 4; 6; 8	E: single-phase D: three-phase

Accessories

Speed controllers



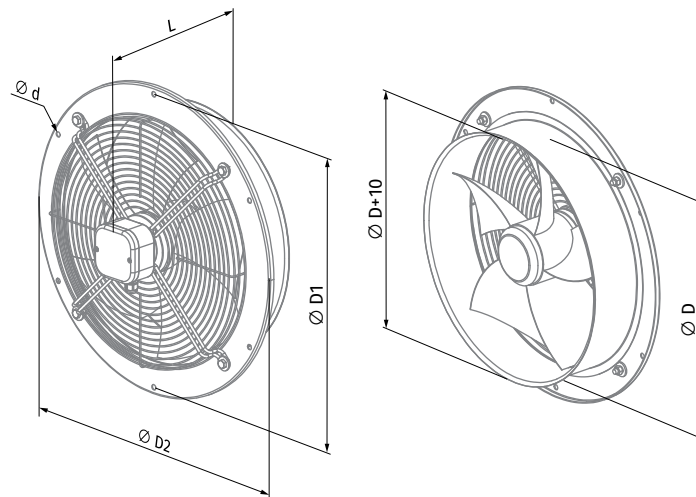
CDR5E E... TP



CDR5E D... M

Dimensions [mm]

Type	Ø D	Ø D1	Ø D2	Ø d	L	Weight [kg]
Axis-QR 200 2E	210	250	280	7	125	2.8
Axis-QR 250 2E	260	295	340	7	135	3.8
Axis-QR 250 4E	260	295	340	7	135	3.4
Axis-QR 300 2E	317	380	397	9	145	5.9
Axis-QR 300 4E	317	380	397	9	145	5.0
Axis-QR 350 4E	374	442	460	9	165	7.5
Axis-QR 400 4E	417	504	528	9	220	8.5
Axis-QR 450 4E	465	578	607	11	230	10.0
Axis-QR 450 6E	465	578	607	11	230	10.0
Axis-QR 500 4E	520	590	655	11	250	14.0
Axis-QR 500 6E	520	590	655	11	250	14.0
Axis-QR 550 4E	570	645	710	11	260	16.5
Axis-QR 550 6E	570	645	710	11	260	16.5
Axis-QR 630 4E	650	760	800	11	275	20.0
Axis-QR 630 6E	650	760	800	11	275	20.0
Axis-QR 250 2D	260	295	340	7	135	3.8
Axis-QR 250 4D	260	295	340	7	135	3.4
Axis-QR 300 2D	317	380	397	9	145	5.1
Axis-QR 300 4D	317	380	397	9	145	5.1
Axis-QR 350 4D	374	442	460	9	165	7.5
Axis-QR 400 4D	417	504	528	9	220	8.5
Axis-QR 450 4D	465	578	607	11	230	10.0
Axis-QR 450 6D	465	578	607	11	230	10.0
Axis-QR 500 4D	520	590	655	11	250	14.0
Axis-QR 500 6D	520	590	655	11	250	14.0
Axis-QR 550 4D	570	645	710	11	260	16.5
Axis-QR 550 6D	570	645	710	11	260	16.5
Axis-QR 630 4D	650	760	800	11	275	20.0
Axis-QR 630 6D	650	760	800	11	275	20.0
Axis-QR 710 6D	725	820	890	13	350	31.0
Axis-QR 710 8D	725	820	890	13	350	31.0
Axis-QR 800 8D	800	900	970	13	350	42.0

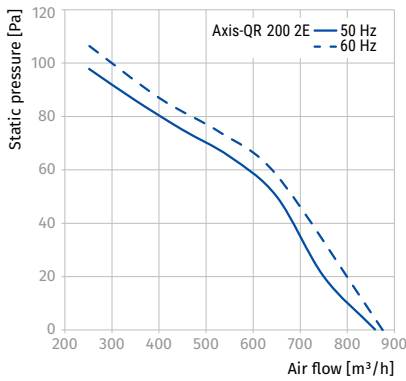


Technical data

Parameters	Axis-QR 200 2E		Axis-QR 250 2E		Axis-QR 250 4E		Axis-QR 300 2E		Axis-QR 300 4E		Axis-QR 350 4E		Axis-QR 400 4E	
Voltage [V]	1 ~ 230		1 ~ 230		1 ~ 230		1 ~ 230		1 ~ 230		1 ~ 230		1 ~ 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]	48	49	50	51	38	39	53	54	44	45	46	47	53	54
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	
IP rating	IP24		IP24		IP24		IP24		IP24		IP24		IP24	
Motor IP rating	IP44		IP44		IP44		IP44		IP44		IP54		IP54	

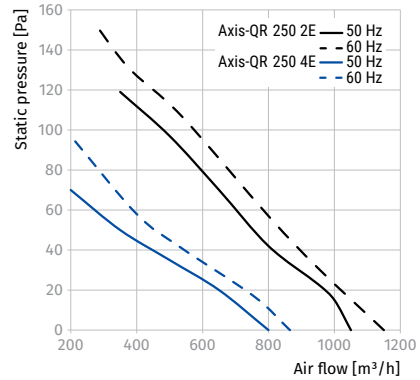
AXIS-QR 200 2E

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
LWA to environment [dBA]	68	28	39	52	58	66	62	57	50	48	58



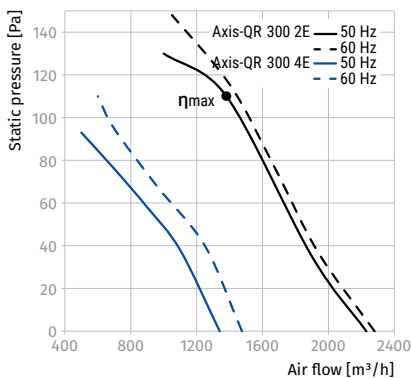
AXIS-QR 250 2E, AXIS-QR 250 4E

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Axis-QR 250 2E											
LWA to environment [dBA]	70	29	40	54	60	68	64	59	52	50	60
Axis-QR 250 4E											
LWA to environment [dBA]	59	25	39	43	49	54	54	49	43	38	48



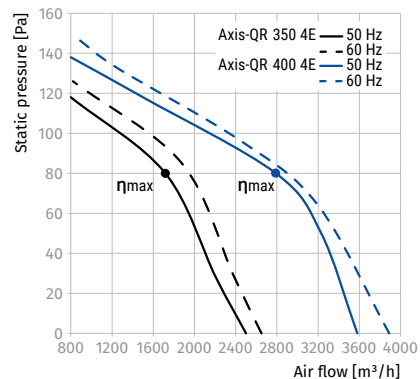
AXIS-QR 300 2E, AXIS-QR 300 4E

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Axis-QR 300 2E											
LWA to environment [dBA]	74	40	49	63	63	71	67	60	56	53	63
Axis-QR 300 4E											
LWA to environment [dBA]	64	41	52	47	54	60	60	52	44	44	54
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-QR 350 4E, AXIS-QR 400 4E

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Axis-QR 350 4E											
LWA to environment [dBA]	67	26	43	49	60	62	62	53	46	46	56
Axis-QR 400 4E											
LWA to environment [dBA]	73	46	52	58	65	68	68	65	57	53	63
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-QR 400 4E											
33.8	A	Static	44.8	No	0.187	0.86	2787	80	1355	1	



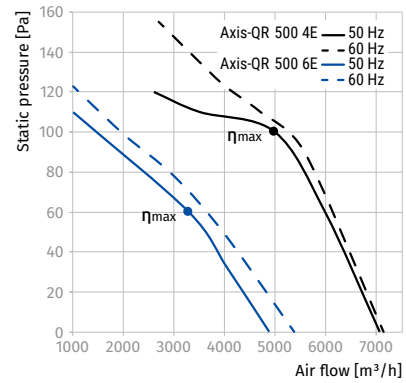
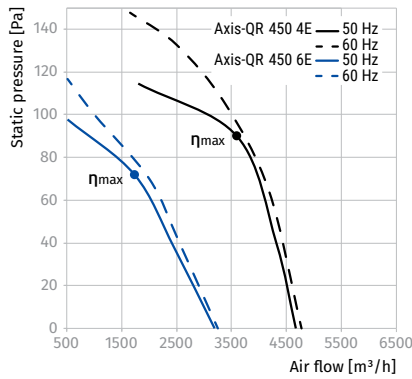
Parameters	Axis-QR 450 4E	Axis-QR 450 4E (220V/60Hz)	Axis-QR 450 6E	Axis-QR 450 6E (220V/60Hz)	Axis-QR 500 4E	Axis-QR 500 4E (220V/60Hz)	Axis-QR 500 6E	Axis-QR 500 6E (220V/60Hz)
Voltage [V]	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230
Frequency [Hz]	50	60	50	60	50	60	50	60
Power [W]	250	325	151	161	420	455	220	268
Current [A]	1.2	1.46	0.78	0.8	1.95	2.05	1.1	1.22
Maximum air flow [m³/h (l/s)]	4680 (1300)	4790 (1331)	3200 (889)	3250 (903)	7060 (1961)	7130 (1981)	4880 (1356)	5380 (1495)
RPM [min⁻¹]	1350	1600	945	1115	1300	1630	945	1105
Sound pressure at 3 m [dBA]	56	57	52	52	58	59	56	56
Transported air temperature [°C]	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50
IP rating	IP24	IP24	IP24	IP24	IP24	IP24	IP24	IP24
Motor IP rating	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54

AXIS-QR 450 4E, AXIS-QR 450 6E

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m	
		63	125	250	500	1000	2000	4000	8000			
Axis-QR 450 4E												
LWA to environment [dBA]	76	46	57	64	70	72	70	66	58	56	66	
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-QR 450 6E												
28.3	A	Static			37.2	No	0.139	0.7	1733	72	910	1

AXIS-QR 500 4E, AXIS-QR 500 6E

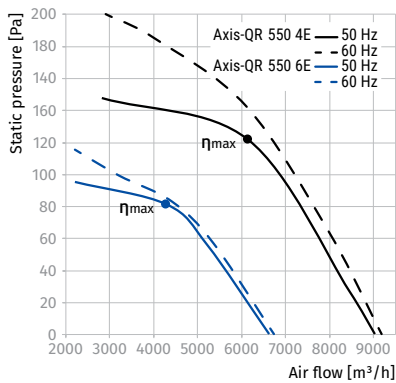
Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m	
		63	125	250	500	1000	2000	4000	8000			
Axis-QR 500 4E												
LWA to environment [dBA]	79	49	60	67	73	74	73	68	60	58	68	
η [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR		
32.1	A	Static			40.7	No	0.440	2.01	4987	100	1285	1
Axis-QR 500 6E												
30.1	A	Static			41.1	No	0.186	0.86	3288	60	900	1



Parameters	Axis-QR 550 4E	Axis-QR 550 4E (220V/60Hz)	Axis-QR 550 6E	Axis-QR 550 6E (220V/60Hz)	Axis-QR 630 4E	Axis-QR 630 4E (220V/60Hz)	Axis-QR 630 6E	Axis-QR 630 6E (220V/60Hz)
Voltage [V]	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230	1 ~ 230
Frequency [Hz]	50	60	50	60	50	60	50	60
Power [W]	550	654	330	375	750	979	540	610
Current [A]	2.55	2.88	1.6	1.63	3.5	4.26	2.4	2.74
Maximum air flow [m³/h (l/s)]	8800 (2445)	8970 (2492)	6400 (1778)	6520 (1811)	11900 (3306)	12100 (3361)	10900 (3028)	10990 (3053)
RPM [min ⁻¹]	1300	1580	950	1060	1360	1625	850	1075
Sound pressure at 3 m [dBA]	62	63	58	58	67	68	59	59
Transported air temperature [°C]	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50
IP rating	IP24	IP24	IP24	IP24	IP24	IP24	IP24	IP24
Motor IP rating	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54

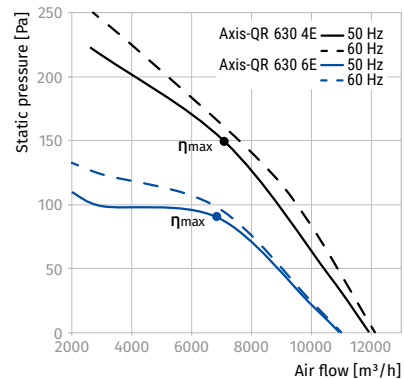
AXIS-QR 550 4E, AXIS-QR 550 6E

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Axis-QR 550 4E											
L _{WA} to environment [dBA]	83	52	64	71	77	78	77	72	64	62	72
η [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR	
Axis-QR 550 4E											
34.7	A	Static		No	0.581	2.64	5919	120	1240	1	
Axis-QR 550 6E											
33.3	A	Static		No	0.279	1.34	4087	80	910	1	



AXIS-QR 630 4E, AXIS-F 630 6E

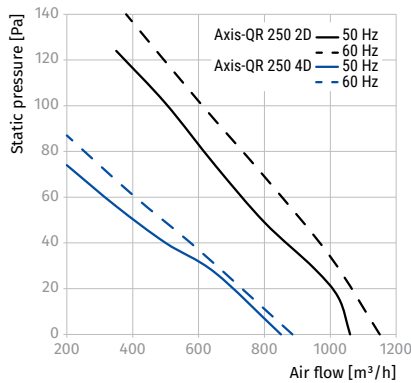
Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Axis-QR 630 4E											
L _{WA} to environment [dBA]	88	57	68	76	81	83	82	77	69	67	77
Axis-QR 630 6E											
L _{WA} to environment [dBA]	80	51	62	69	74	75	73	67	59	59	69
η [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR	
Axis-QR 630 4E											
37.5	A	Static		No	0.800	3.76	7095	149	1290	1	
Axis-QR 630 6E											
35.0	A	Static		No	0.500	2.55	6857	90	915	1	



Parameters	Axis-QR 250 2D		Axis-QR 250 4D		Axis-QR 300 2D		Axis-QR 300 4D		Axis-QR 350 4D		Axis-QR 400 4D	
Voltage [V]	3 ~ 400		3 ~ 400		3 ~ 400		3 ~ 400		3 ~ 400		3 ~ 400	
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	0.46	0.47	0.55
Maximum air flow [m³/h (l/s)]	1060 (294)	1150 (319)	850 (236)	885 (246)	2310 (642)	2390 (664)	1310 (364)	1530 (425)	2350 (653)	2660 (739)	3740 (1039)	3870 (1075)
RPM [min⁻¹]	2600	3030	1400	1750	2350	2570	1380	1640	1419	1638	1380	1625
Sound pressure at 3 m [dBA]	51	52	38	38	52	52	45	45	46	46	54	54
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
IP rating	IP24		IP24		IP24		IP24		IP24		IP24	
Motor IP rating	IP44		IP44		IP44		IP44		IP54		IP54	

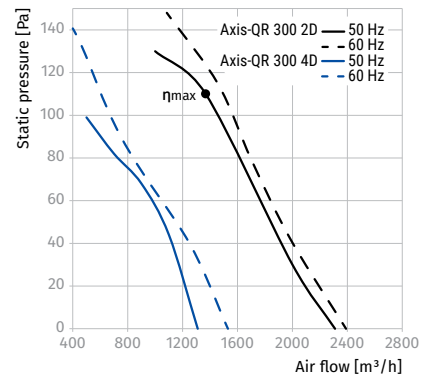
AXIS-QR 250 2D, AXIS-QR 250 4D

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Axis-QR 250 2D											
L _{WA} to environment [dBA]	71	29	41	55	61	69	65	60	52	51	61
Axis-QR 250 4D											
L _{WA} to environment [dBA]	59	25	39	43	49	54	54	49	43	38	48



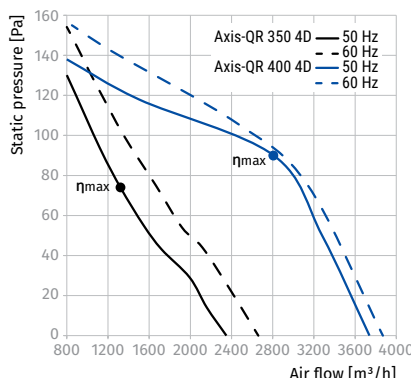
AXIS-QR 300 2D, AXIS-QR 300 4D

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Axis-QR 300 2D											
L _{WA} to environment [dBA]	73	39	48	62	62	70	66	60	55	52	62
Axis-QR 300 4D											
L _{WA} to environment [dBA]	65	42	53	46	55	61	61	53	44	45	55
η [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR	
30.3	A	Static									



AXIS-QR 350 4D, AXIS-QR 400 4D

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Axis-QR 350 4D											
L _{WA} to environment [dBA]	66	26	43	48	59	62	62	53	46	46	56
Axis-QR 400 4D											
L _{WA} to environment [dBA]	74	31	48	58	63	70	70	66	58	54	64
η [%]	MC	EC	N	VSD	[kW]	[A]	[m³/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	



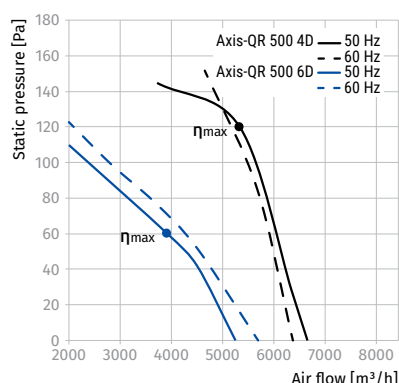
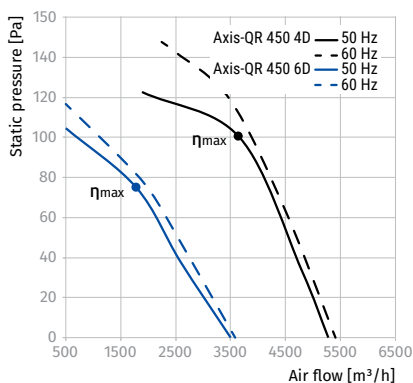
Parameters	Axis-QR 450 4D	Axis-QR 450 4D (220V/60Hz)	Axis-QR 450 6D	Axis-QR 450 6D (220V/60Hz)	Axis-QR 500 4D	Axis-QR 500 4D (220V/60Hz)	Axis-QR 500 6D	Axis-QR 500 6D (220V/60Hz)
Voltage [V]	3 ~ 400	3 ~ 400	3 ~ 400	3 ~ 400	3 ~ 400	3 ~ 400	3 ~ 400	3 ~ 400
Frequency [Hz]	50	60	50	60	50	60	50	60
Power [W]	250	275	148	175	450	370	230	281
Current [A]	0.6	0.65	0.42	0.47	0.9	0.7	0.58	0.59
Maximum air flow [m³/h (l/s)]	5280 (1467)	5350 (1486)	3500 (972)	3580 (995)	6570 (1825)	6230 (1731)	4900 (1361)	5430 (1508)
RPM [min ⁻¹]	1360	1620	900	1050	1300	1605	920	1015
Sound pressure at 3 m [dBA]	56	56	53	53	60	60	57	57
Transported air temperature [°C]	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50
IP rating	IP24	IP24	IP24	IP24	IP24	IP24	IP24	IP24
Motor IP rating	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54

AXIS-QR 450 4D, AXIS-QR 450 6D

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Axis-QR 450 4D											
L _{WA} to environment [dBA]	77	48	60	67	70	71	72	67	59	56	66
η [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR	
Axis-QR 450 4D											
35.1	A	Static		44.8	No	0.296	0.59	3659	100	1310	1
Axis-QR 450 6D											
28.4	A	Static		37.9	No	0.145	0.4	1790	75	900	1

AXIS-QR 500 4D, AXIS-QR 500 6D

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Axis-QR 500 4D											
L _{WA} to environment [dBA]	81	51	63	70	74	75	76	71	62	60	70
η [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR	
Axis-QR 500 4D											
35.5	A	Static		43.9	No	0.478	0.9	4988	120	1305	1
Axis-QR 500 6D											
30.5	A	Static		41.5	No	0.185	0.47	3308	60	915	1



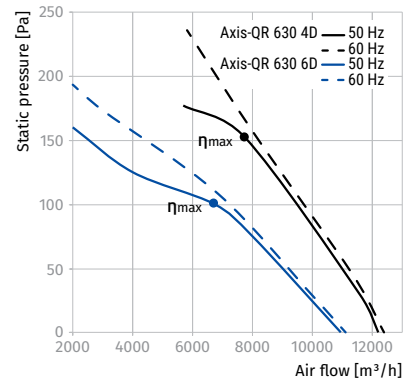
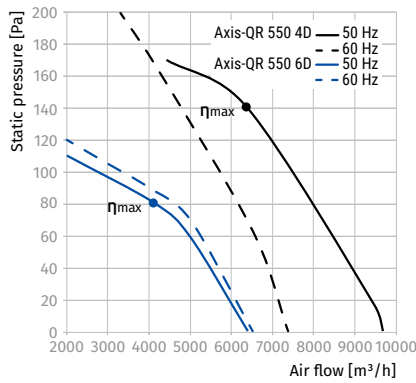
Parameters	Axis-QR 550 4D	Axis-QR 550 4D (220V/60Hz)	Axis-QR 550 6D	Axis-QR 550 6D (220V/60Hz)	Axis-QR 630 4D	Axis-QR 630 4D (220V/60Hz)	Axis-QR 630 6D	Axis-QR 630 6D (220V/60Hz)
Voltage [V]	3 ~ 400	3 ~ 400	3 ~ 400	3 ~ 400	3 ~ 400	3 ~ 400	3 ~ 400	3 ~ 400
Frequency [Hz]	50	60	50	60	50	60	50	60
Power [W]	750	600	337	447	800	910	550	716
Current [A]	1.5	1.1	0.9	0.95	1.6	1.68	1.45	1.56
Maximum air flow [m³/h (l/s)]	9700 (2695)	7380 (2050)	6400 (1778)	6520 (1811)	12200 (3389)	12400 (3445)	10950 (3042)	11120 (3089)
RPM [min ⁻¹]	1350	1605	910	1020	1320	1585	900	1060
Sound pressure at 3 m [dBA]	64	64	61	61	69	69	72	73
Transported air temperature [°C]	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50	-30...+60	-30...+50
IP rating	IP24	IP24	IP24	IP24	IP24	IP24	IP24	IP24
Motor IP rating	IP54	IP54	IP54	IP54	IP54	IP54	IP54	IP54

AXIS-QR 550 4D, AXIS-QR 550 6D

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Axis-QR 550 4D											
LWA to environment [dBA]	85	53	65	72	79	80	79	73	65	64	74
η [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR	
38.8	A	Static		No	0.656	1.27	6400	140	1175	1	
Axis-QR 550 6D											
34.4	A	Static		No	0.273	0.74	4142	80	920	1	

AXIS-QR 630 4D, AXIS-QR 630 6D

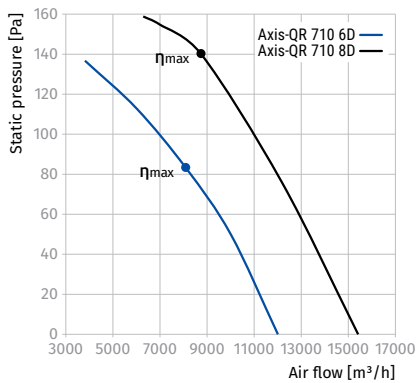
Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Axis-QR 630 4D											
LWA to environment [dBA]	90	58	69	78	83	85	84	79	70	69	79
η [%]	MC	EC	N	VSD	[kW]	[A]	[m³/h]	[Pa]	[RPM]	SR	
41.2	A	Static		No	0.810	1.61	7743	152	1290	1	
Axis-QR 630 6D											
37.0	A	Static		No	0.515	1.33	6737	100	920	1	



Parameters	Axis-QR 710 6D	Axis-QR 710 8D	Axis-QR 800 8D
Voltage [V]	3 ~ 400	3 ~ 400	3 ~ 400
Frequency [Hz]	50	50	50
Power [W]	1150	700	700
Current [A]	2.0	1.5	1.7
Maximum air flow [m ³ /h (l/s)]	15440 (4289)	12000 (3334)	15550 (4320)
RPM [min ⁻¹]	830	710	710
Sound pressure at 3 m [dBA]	63	61	66
Transported air temperature [°C]	-30...+60	-30...+60	-30...+60
IP rating	IP24	IP24	IP24
Motor IP rating	IP54	IP54	IP54

AXIS-QR 710 6D, AXIS-QR 710 8D

Sound power level, A-weighted	Total	Octave frequency bands [Hz]								LpA 3 m	LpA 1 m
		63	125	250	500	1000	2000	4000	8000		
Axis-QR 710 6D											
L _{WA} to environment [dBA]	83	54	65	72	78	79	77	70	62	63	73
η [%]	MC	EC	N	VSD	[kW]	[A]	[m ³ /h]	[Pa]	[RPM]	SR	
Axis-QR 710 6D											
35.6	A	Static	42	No	0.979	1.91	8777	140	830	1	
Axis-QR 710 8D											
29.4	A	Static	37	No	0.648	1.48	8110	83	810	1	


AXIS-QR 800 8D

η [%]	MC	EC	N	VSD	[kW]	[A]	[m ³ /h]	[Pa]	[RPM]	SR
32.2	A	Static	39.5	No	0.695	1.7	10955	72	710	1

