

Rectangular duct fans

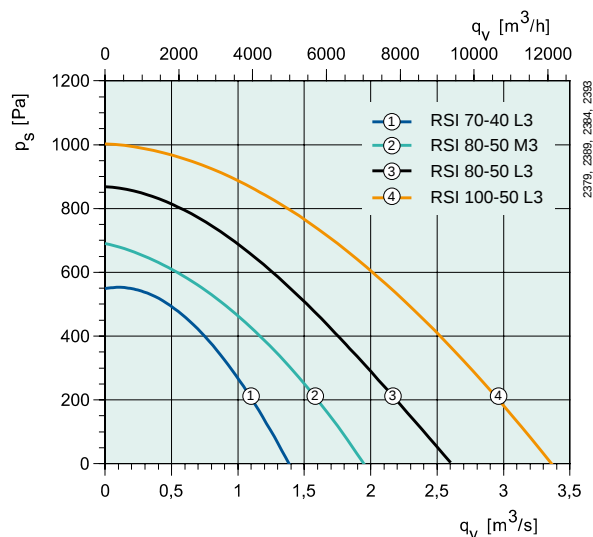
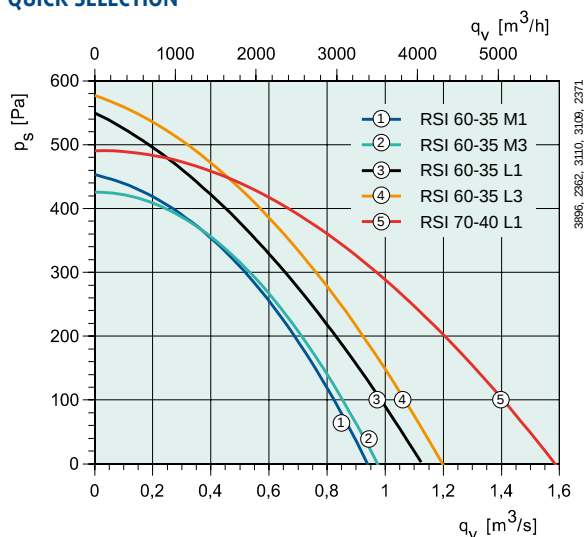


RSI

- Speed-controllable
- Integral thermal contacts
- Can be installed in any position
- Maintenance-free and reliable

The RSI models have impellers with backward-curved blades and external rotor motors. The motor and impeller are mounted on the access cover to facilitate easy maintenance. The RSI models are thermally and acoustically insulated with 50 mm mineral wool, with perforated sheet steel on the inner surface. To protect the motor from overheating the RSI fans have integral thermal contacts with external leads for connection to a motor protection device. The fans can be installed in any position and are simple to couple using DS flexible connections. The casing is manufactured from galvanised sheet steel.

QUICK SELECTION



TECHNICAL DATA

RSI		60-35 M1	60-35 M3	60-35 L1	60-35 L3	70-40 L1	70-40 L3
Art no.		1788	1789	2042	2043	1790	1791
Voltage/Frequency	V/50 Hz	230 1~	400 3~	230 1~	400 3~	230 1~	400 3~
Power	W	401	399	626	667	623	704
Current	A	1.91	0.795	2.80	1.59	2.84	1.70
Max air flow	m³/s	0.941	0.974	1.12	1.21	1.59	1.39
R.p.m.	min ⁻¹	1365	1371	1308	1408	1308	1410
Max temp. of transported air	°C	70	70	70	70	67	70
" when speed controlled	°C	70	70	70	70	67	70
Sound pressure level at 3 m	dB(A)	50	48	52	57	51	51
Weight	kg	61	60.5	65	65	82.5	81.2
Insulation class, motor		F	F	F	F	F	F
Enclosure class, motor		IP 54	IP 54	IP 54	IP 54	IP 54	IP 54
Capacitor		8	-	14	-	14	-
Motor protection		S-ET 10	STDT 16	S-ET 10	STDT 16	S-ET 10	STDT 16
Speed control, five-step	Transformer	RTRE 3	RTRD 2	RTRE 3	RTRD 2	RTRE 2	RTRD 2
Speed control, five step high/low	Transformer	REU 3*	RTRDU 2	REU 3*	RTRDU 2	REU 3*	RTRDU 2
Speed control, stepless	Thyristor	REE 2*	-	REE 4*	-	REE 4*	-
Wiring diagram p. 391-400		6	8	6	8	6	8

* + S-ET 10

ELECTRICAL ACCESSORIES



S-ET/STDT
p. 341-342



RTRE p. 320



REU p. 320

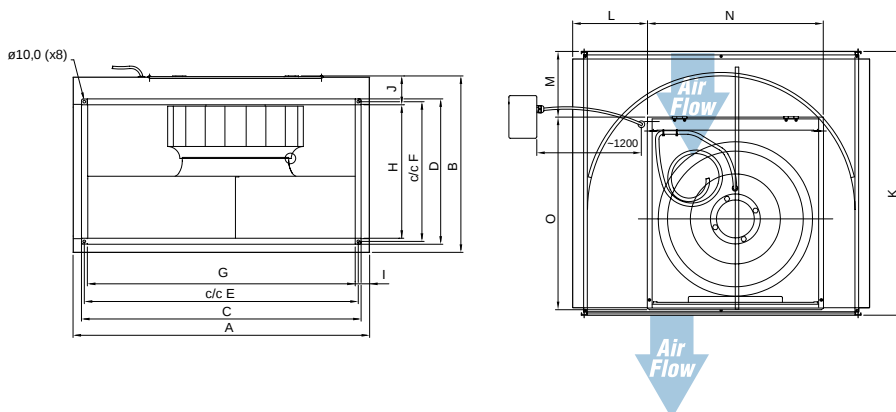


REE p. 321



RTRD/RTRDU
p. 321

DIMENSIONS



RSI	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
60-35	708	492	640.5	391	620	370	598	347.5	55	92.5	717	139.5	99.5	532	597
70-40	808	542	741	441	720	420	697	397	55.5	92.5	787	201	169.5	532	597
80-50	908	662	841	541	820	520	797	497	55.5	112.5	882	194	144.5	656	717
100-50	1108	662	1041	541	1020	520	997	497	55.5	112.5	982	310	244.5	656	717

VENTILATION ACCESSORIES



DS p. 363



VK p. 368



LDR p. 358



FFK p. 355



RB p. 359



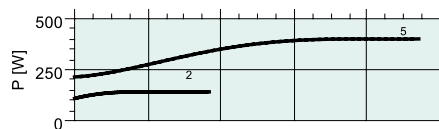
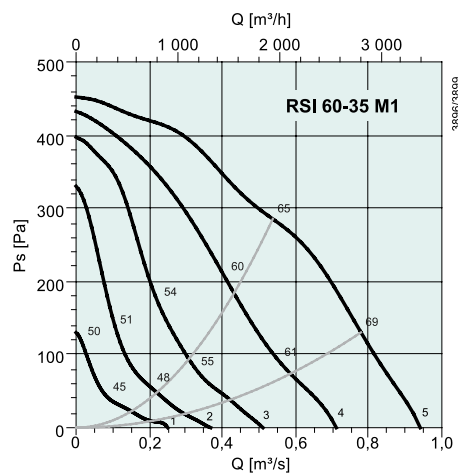
VBR p. 365

Rectangular duct fans

RSI		80-50 M3	80-50 L3	100-50 L3			
Art no.		1792	1793	1794			
Voltage/Frequency	V/50 Hz	400 3~	400 3~	400 3~			
Power	W	1089	1893	2962			
Current	A	1.97	3.60	5.09			
Max air flow	m ³ /s	1.96	2.60	3.36			
R.p.m.	min ⁻¹	1335	1385	1361			
Max temp. of transported air	°C	70	70	70			
" when speed controlled	°C	55	64	51			
Sound pressure level at 3 m	dB(A)	53	56	62			
Weight	kg	109	122	159			
Insulation class, motor	F	F	F	F			
Enclosure class, motor	IP 54	IP 54	IP 54	IP 54			
Motor protection	STDT 16	STDT 16	STDT 16	STDT 16			
Speed control, five-step	Transformer	RTRD 4	RTRD 7	RTRD 7			
Speed control, five step high/low	Transformer	RTRDU 4	RTRDU 7	RTRDU 7			
Speed control, stepless	Thyristor	-	-	-			
Wiring diagram p. 391-400		8	8	8			

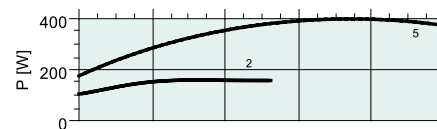
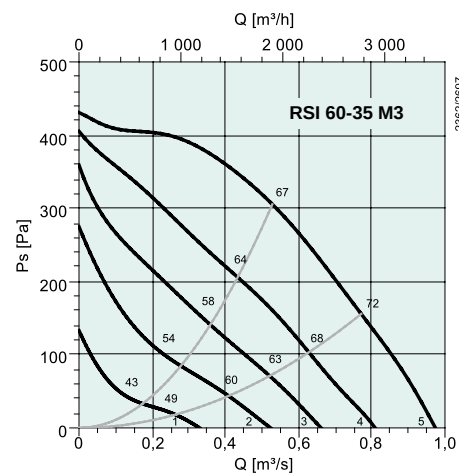
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PERFORMANCE



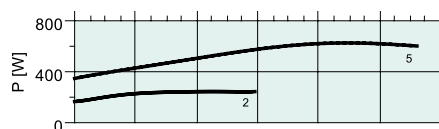
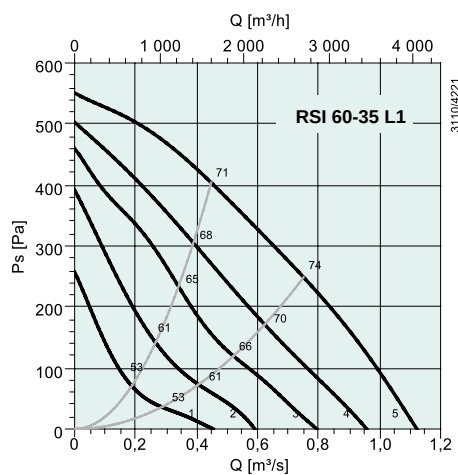
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	65	43	53	61	59	55	55	49	42
L _{WA} Outlet	79	48	61	74	73	72	70	60	50
L _{WA} Surrounding	57	29	47	54	47	47	44	38	29
With LDR 60-35									
L _{WA} Inlet	52	43	46	48	42	37	42	39	34
L _{WA} Outlet	65	48	54	61	56	54	57	50	42

Measurement point: 0,538 m³/s; 285 Pa



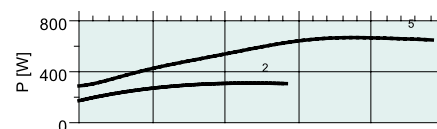
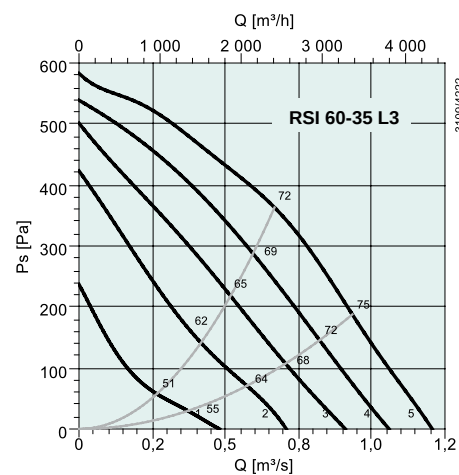
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	67	55	62	62	60	55	55	51	47
L _{WA} Outlet	79	57	65	74	72	71	70	62	53
L _{WA} Surrounding	55	29	47	50	48	47	45	37	35
With LDR 60-35									
L _{WA} Inlet	59	55	55	49	43	37	42	41	39
L _{WA} Outlet	66	57	58	61	55	53	57	52	45

Measurement point: 0,528 m³/s; 306 Pa



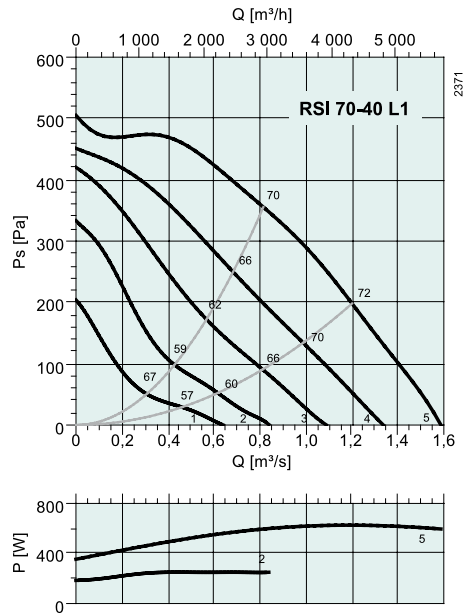
dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	71	60	66	65	63	58	57	54	47
L _{WA} Outlet	82	66	69	74	74	77	74	62	53
L _{WA} Surrounding	59	40	54	54	52	49	47	43	39
With LDR 60-35									
L _{WA} Inlet	63	60	59	52	46	40	44	44	39
L _{WA} Outlet	70	66	62	61	57	59	61	52	45

Measurement point: 0,448 m³/s; 404 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	72	55	67	67	66	58	59	59	52
L _{WA} Outlet	83	60	70	77	77	76	73	67	59
L _{WA} Surrounding	64	26	56	59	57	52	54	55	48
With LDR 60-35									
L _{WA} Inlet	63	55	60	54	49	40	46	49	44
L _{WA} Outlet	69	60	63	64	60	58	60	57	51

Measurement point: 0,668 m³/s; 363 Pa

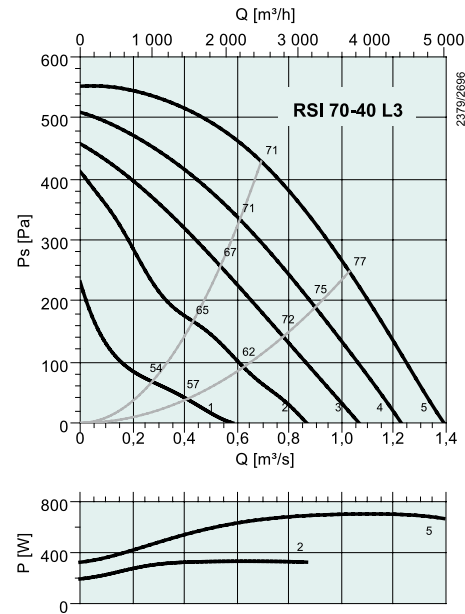


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	67	57	61	62	60	57	56	51	46
L _{WA} Outlet	80	62	66	75	74	74	72	65	57
L _{WA} Surrounding	58	41	46	52	51	50	48	46	44

With LDR 70-40

L _{WA} Inlet	60	57	54	51	46	43	46	43	40
L _{WA} Outlet	70	62	59	64	60	60	62	57	51

Measurement point: 0,815 m³/s; 355 Pa

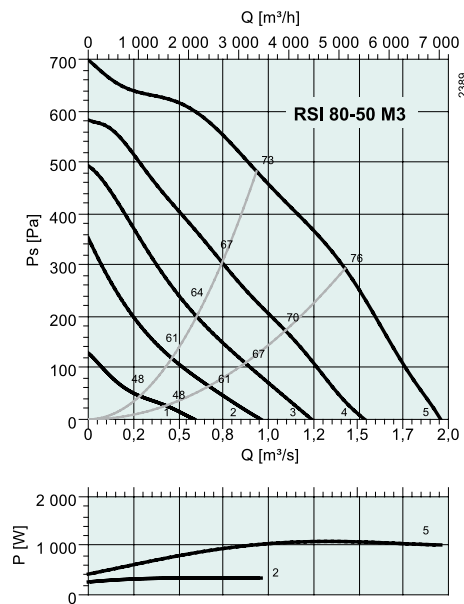


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	68	57	62	62	62	57	58	55	49
L _{WA} Outlet	81	63	66	76	75	74	72	65	57
L _{WA} Surrounding	57	39	46	51	52	50	48	44	39

With LDR 70-40

L _{WA} Inlet	61	57	55	51	48	43	48	47	43
L _{WA} Outlet	70	63	59	65	61	60	62	57	51

Measurement point: 0,693 m³/s; 429 Pa

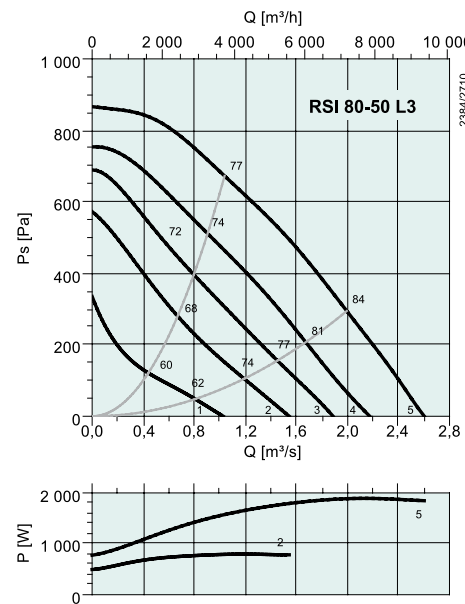


dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	71	58	64	62	64	61	61	60	56
L _{WA} Outlet	83	59	68	80	77	76	72	65	57
L _{WA} Surrounding	60	40	51	53	53	52	49	49	50

With LDR 80-50

L _{WA} Inlet	64	58	58	54	54	50	53	54	53
L _{WA} Outlet	75	59	62	72	67	65	64	59	54

Measurement point: 0,935 m³/s; 482 Pa



dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{WA} Inlet	74	63	69	66	67	65	65	61	58
L _{WA} Outlet	88	70	74	81	82	83	79	72	64
L _{WA} Surrounding	63	43	56	55	59	54	52	46	46

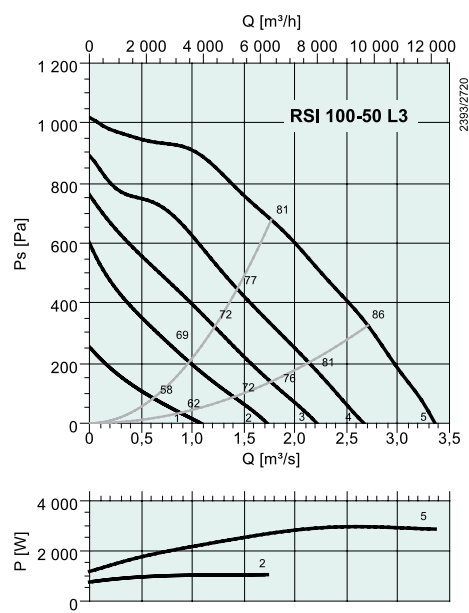
With LDR 80-50

L _{WA} Inlet	68	63	63	58	57	54	57	55	55
L _{WA} Outlet	79	70	68	73	72	72	71	66	61

Measurement point: 1,04 m³/s; 672 Pa

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dB(A)	Tot	Frequency bands [Hz]							
		63	125	250	500	1k	2k	4k	8k
L _{wA} Inlet	79	68	73	71	72	70	68	62	59
L _{wA} Outlet	91	73	78	84	85	87	82	75	66
L _{wA} Surrounding	69	53	62	61	61	63	61	56	54
With LDR 100-50									
L _{wA} Inlet	72	68	67	63	62	59	60	56	56
L _{wA} Outlet	83	73	72	76	75	76	74	69	63
Measurement point: 1,77 m³/s; 678 Pa									