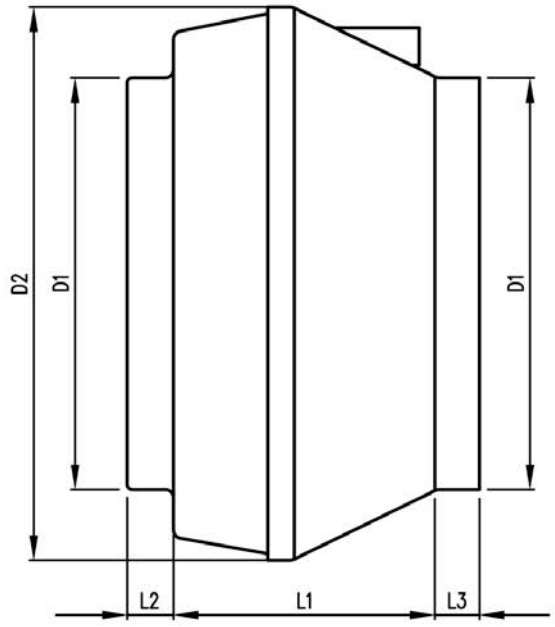
DESCRIPTION

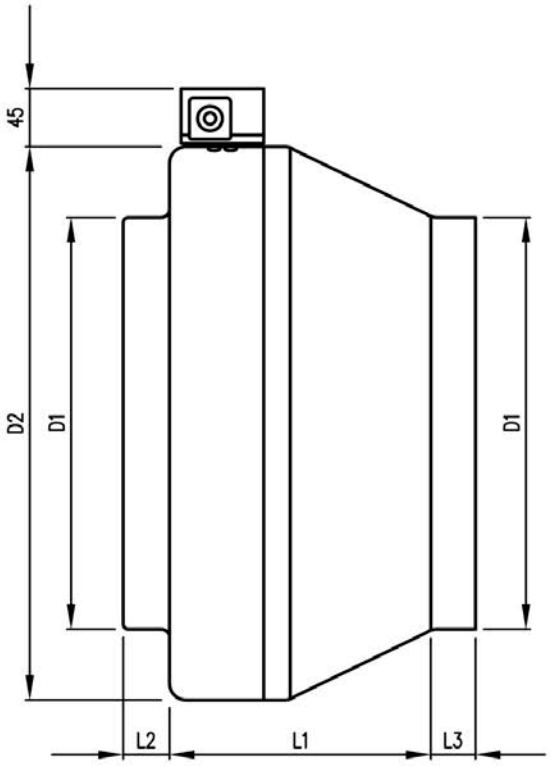
Tube fans unite the advantages of the axial fans – straight airflow and easy installation – with the high pressure stability, low noise level and high efficiency of centrifugal fans. Casing can be made of plastic (RK) or steel (RS) components. The housing of the RK tube fans is made of a sturdy and flame retardant light grey plastic material and is fitted with an integrated terminal box and guide vane. Casings of sizes RS 100-355 are made of powder coated sheet metal. Backward-curved centrifugal impellers are made of sheet steel or plastic. The impellers are fitted directly onto the external rotor motor. The motorized impeller unit is balanced in two planes to quality level G2.5. The tube fans are driven by an external rotor motor of protection class IP44, fitted within the radial impeller. From the size RK 150 up to size 315 all units are equipped with thermal contacts inserted in the motor winding. The motors are wired to an external terminal box.

DIMENSIONS

RK



RS

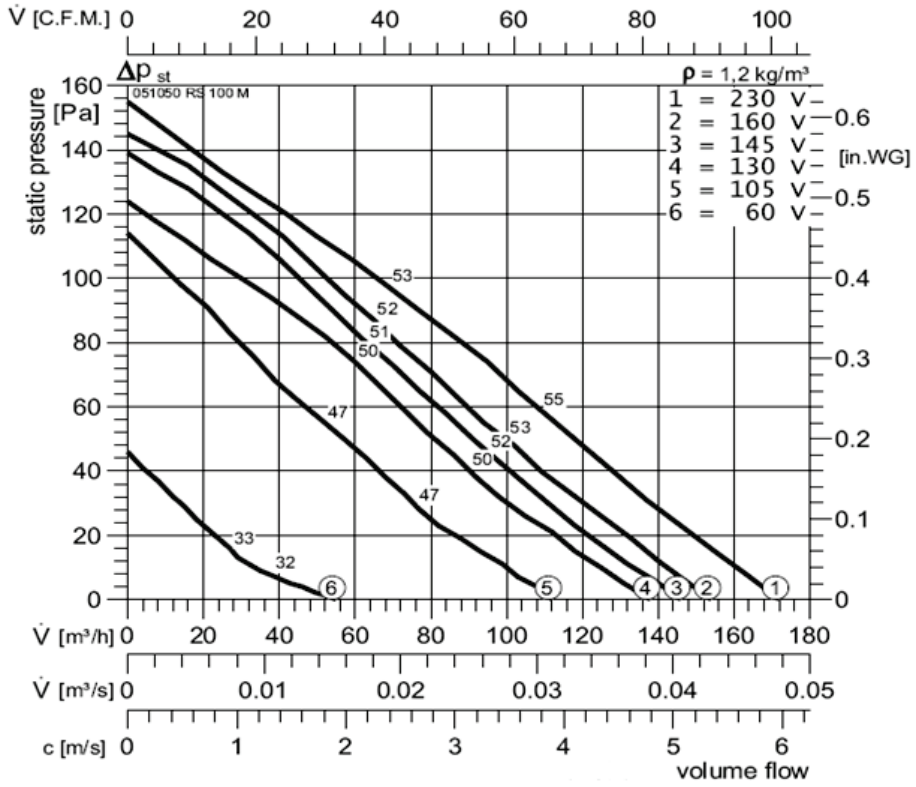


Type		Dimensions [mm]				
		L1	L2	L3	D1	D2
RK	100M/L	170	30	30	99	251
	125M/L	170	30	30	124	251
	150M	170	30	30	149	340.5
	150L	170	30	30	149	340.5
	160M	170	30	30	159	340.5
	160L	170	30	30	159	340.5
	200M	170	30	30	199	340.5
	200L	190	30	30	199	340.5
	250M	170	30	30	249	340.5
	250L	190	30	30	249	340.5
	315M	215	30	30	314	405
	315L	215	30	30	314	405
RS	100M/L	152	20	20	99	201
	125M/L	130	20	30	124	201
	150M	140	25	25	149	284
	150L	165	20	30	149	334
	160M	140	25	25	159	284
	160L	165	20	30	159	334
	200M	150	20	30	199	334
	200L	180	20	30	199	334
	250M	125	25	30	249	334
	250L	155	25	30	249	334
	315M	200	30	30	314	401
	315L	205	30	30	314	401
	355M/L	320	40	40	355	490

TECHNICAL SPECIFICATION

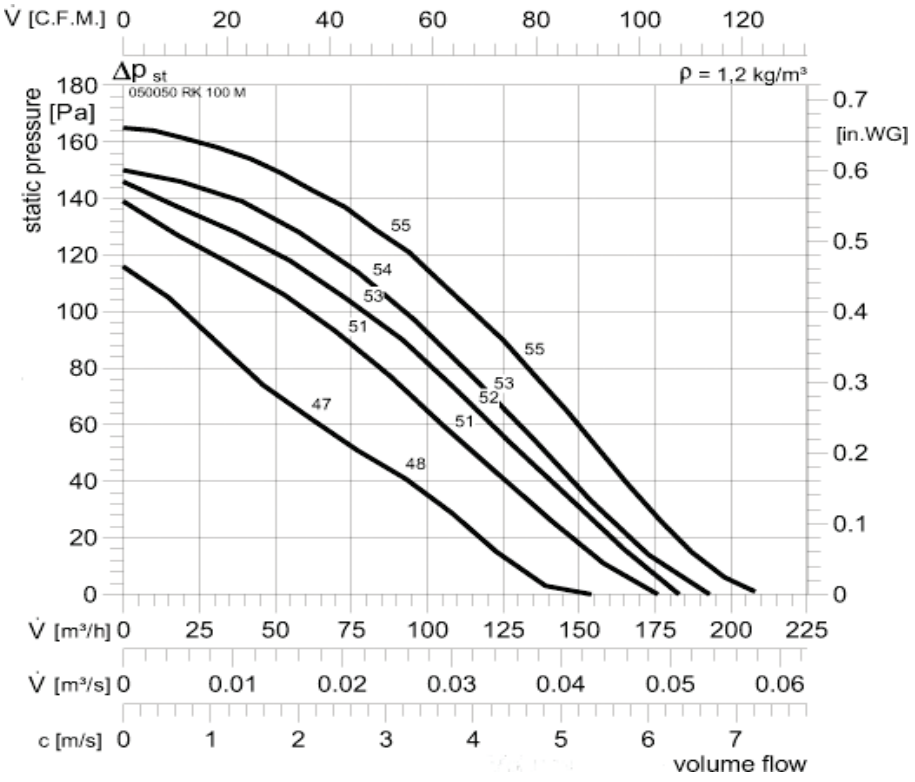
Type	Supply [V/Hz]	Power [kW]	Current [A]	Revolutions [1/min]
RS 100M	230/50	0.028	0.12	2650
RK 100M	230/50	0.023	0.11	2695
RS 100L	230/50	0.065	0.30	2470
RK 100L	230/50	0.063	0.28	2475
RS 125M	230/50	0.028	0.12	2620
RK 125M	230/50	0.023	0.11	2695
RS 125L	230/50	0.065	0.30	2480
RK 125L	230/50	0.063	0.28	2475
RS 150M	230/50	0.07	0.30	2420
RK 150M	230/50	0.063	0.28	2475
RS 150L	230/50	0.11	0.47	2520
RK 150L	230/50	0.103	0.50	2645
RS 160M	230/50	0.07	0.30	2380
RK 160M	230/50	0.063	0.28	2475
RS 160L	230/50	0.11	0.47	2500
RK 160L	230/50	0.103	0.50	2645
RS 200L	230/50	0.17	0.73	2410
RK 200L	230/50	0.164	0.72	2435
RS 200M	230/50	0.12	0.50	2430
RK 200M	230/50	0.130	0.50	2645
RS 250M	230/50	0.12	0.50	2400
RK 250M	230/50	0.103	0.50	2645
RS 250L	230/50	0.165	0.7	2470
RK 250L	230/50	0.164	0.72	2435
RS 315M	230/50	0.23	1.0	2540
RK 315M	230/50	0.205	0.95	2550
RS 315L	230/50	0.3	1.3	2400
RK 315L	230/50	0.225	1.02	2635

RS 100M; 50Hz



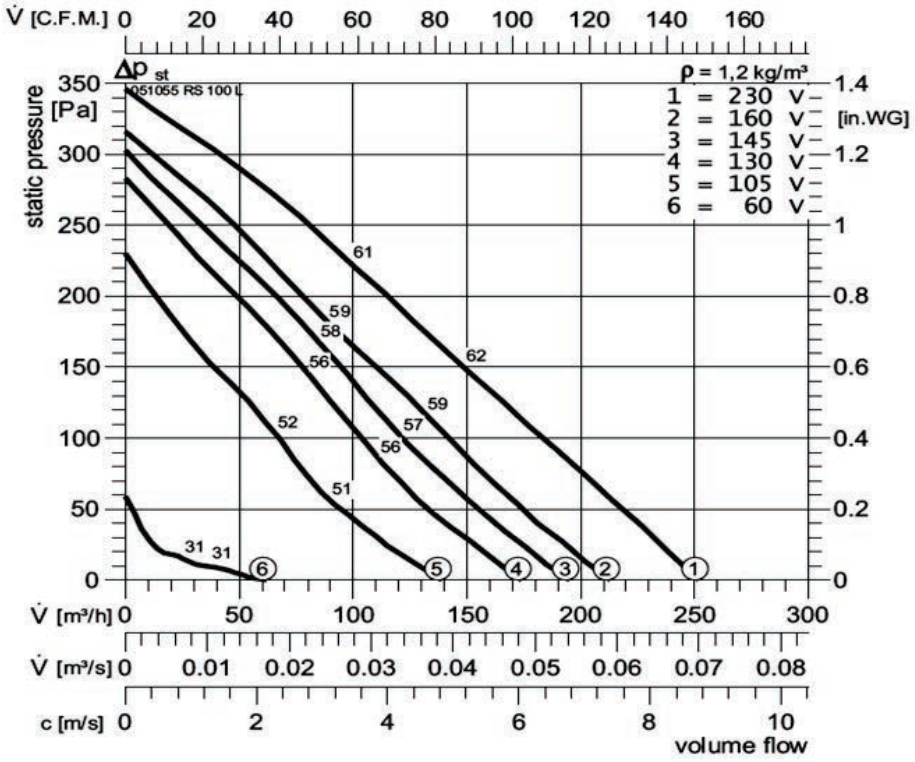
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-15	-1	0
125Hz	-24	-15	-15
250Hz	-21	-7	-8
500Hz	-22	-6	-5
1kHz	-22	-7	-5
2kHz	-22	-10	-8
4kHz	-31	-19	-16
8kHz	-36	-28	-26

RK 100M; 50Hz



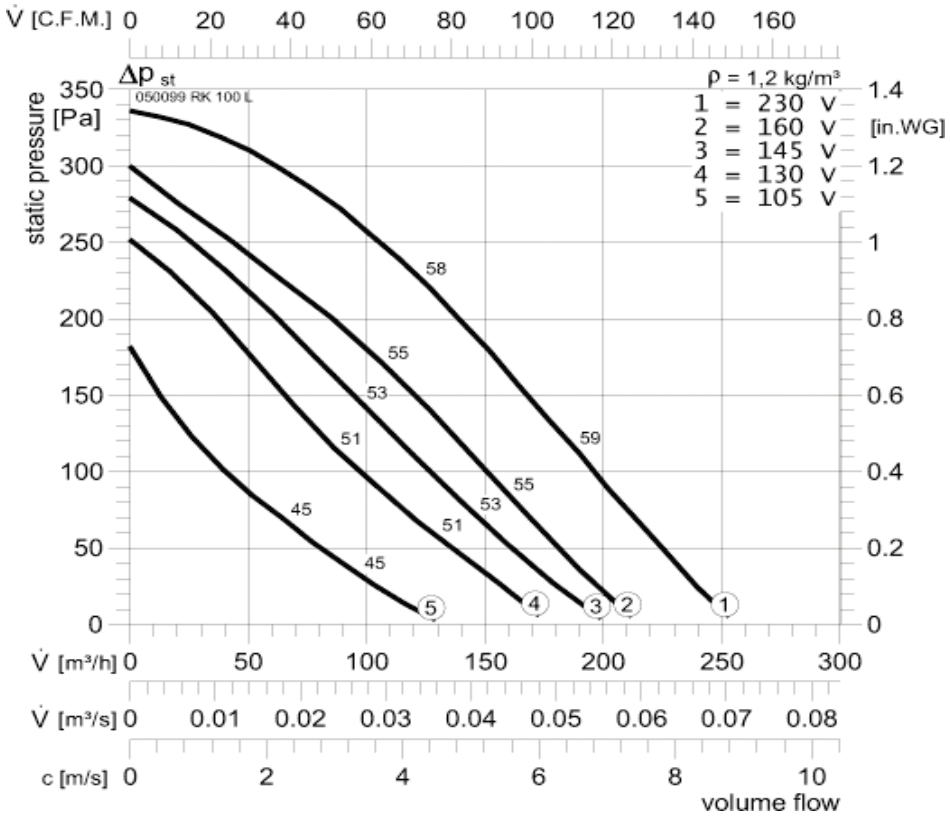
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-17	-1	0
125Hz	-35	-15	-14
250Hz	-27	-3	-2
500Hz	-22	-7	-6
1kHz	-24	-10	-9
2kHz	-25	-16	-15
4kHz	-29	-23	-22
8kHz	-34	-31	-30

RS 100L; 50Hz



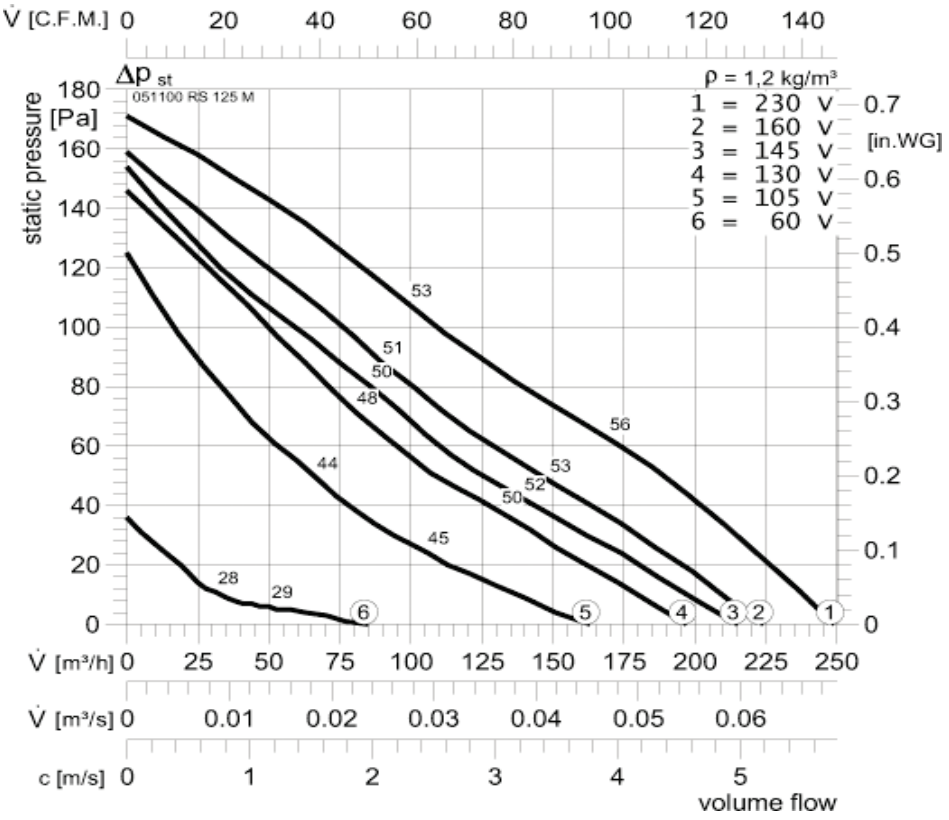
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-14	0	0
125Hz	-26	-17	-18
250Hz	-20	-9	-6
500Hz	-21	-6	-6
1kHz	-20	-5	-5
2kHz	-21	-8	-7
4kHz	-29	-11	-12
8kHz	-36	-21	-22

RK 100L; 50Hz



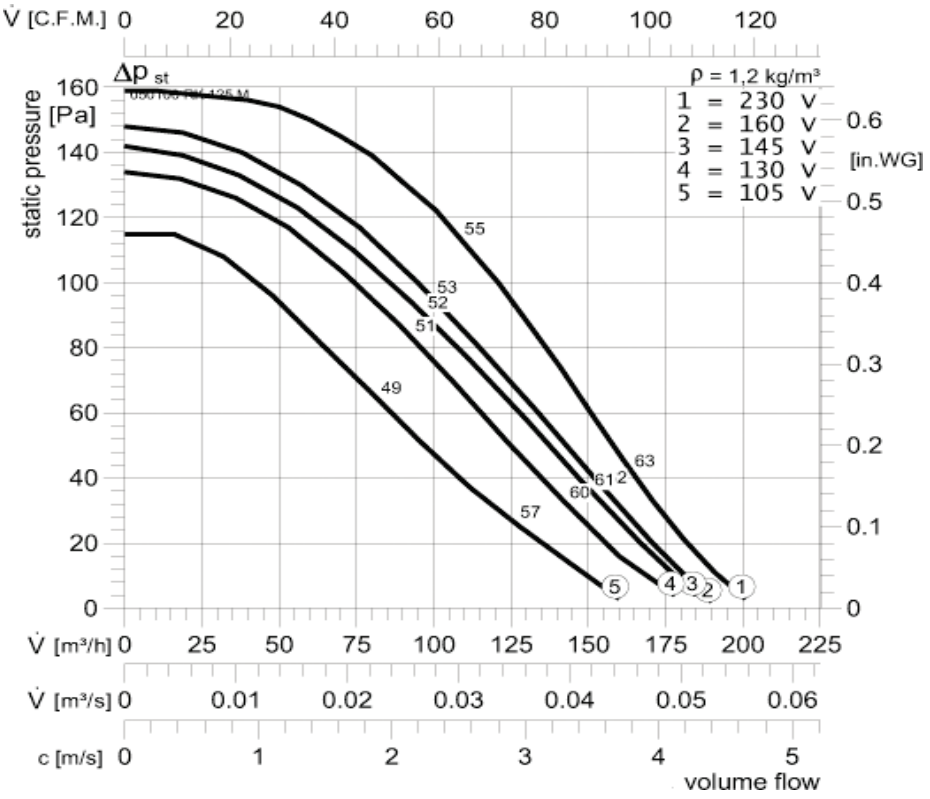
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-17	-1	0
125Hz	-35	-15	-14
250Hz	-27	-3	-2
500Hz	-22	-7	-6
1kHz	-24	-10	-9
2kHz	-25	-16	-15
4kHz	-29	-23	-22
8kHz	-34	-31	-30

RS 125M; 50Hz



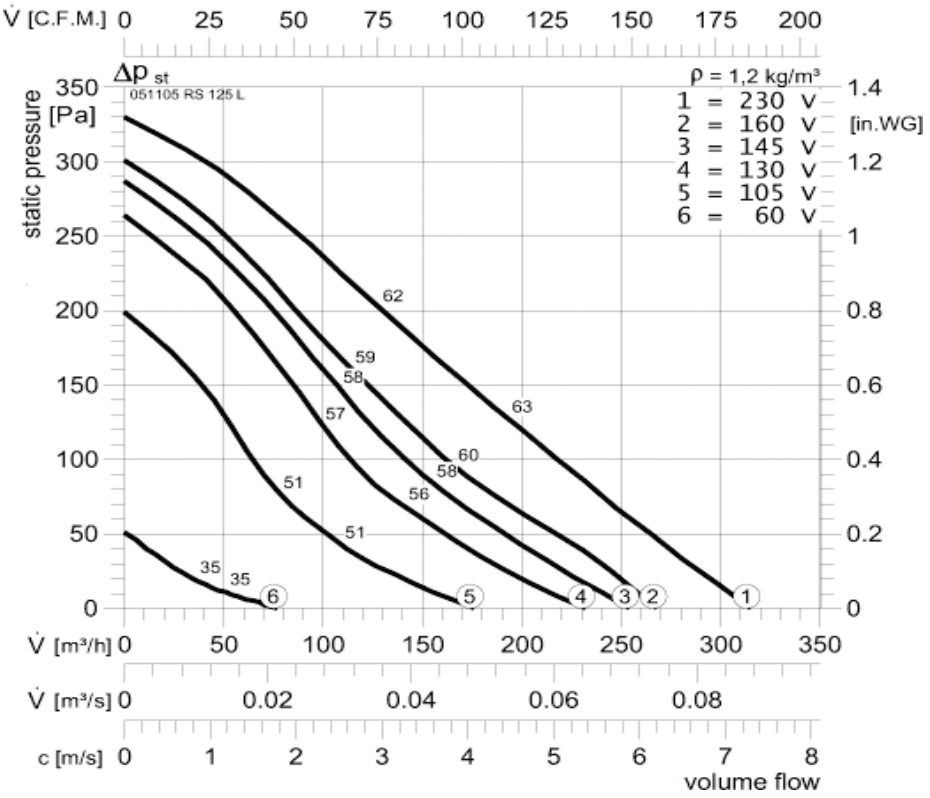
LWArel ΔdB	LWA 2	LWA 5	LWA 6
LWAtot	-15	-1	0
125Hz	-24	-15	-15
250Hz	-21	-7	-8
500Hz	-22	-6	-5
1kHz	-23	-7	-5
2kHz	-23	-10	-8
4kHz	-32	-19	-16
8kHz	-37	-28	-26

RK 125M; 50Hz



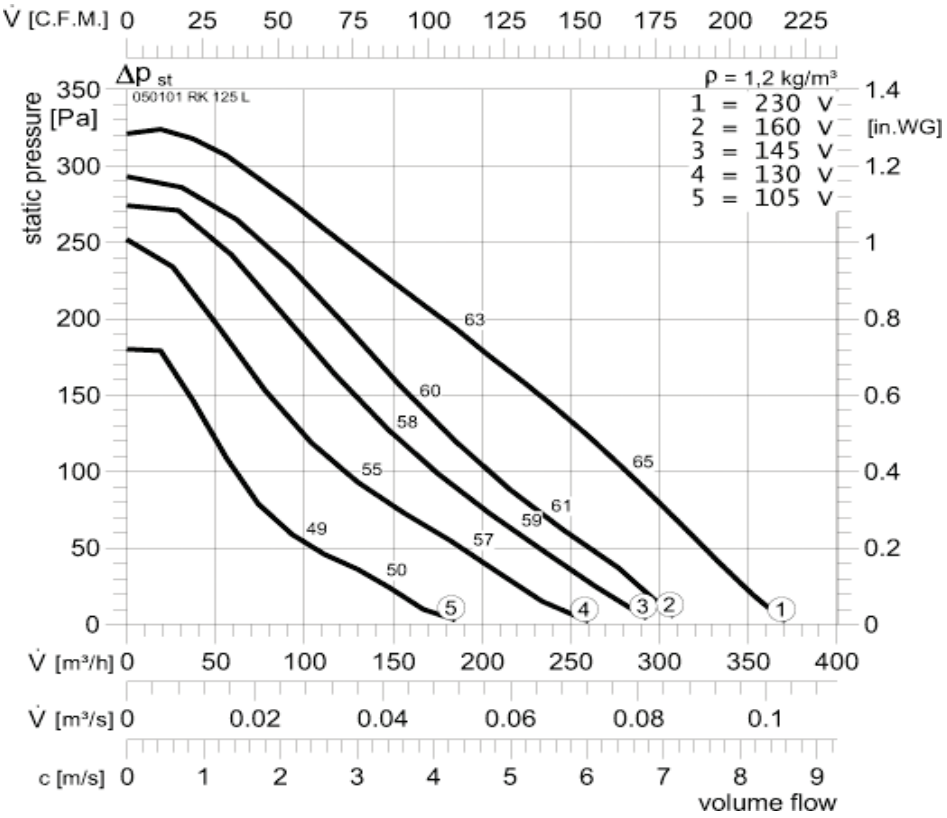
LWArel ΔdB	LWA 2	LWA 5	LWA 6
LWAtot	-20	-1	0
125Hz	-28	-13	-12
250Hz	-31	-5	-4
500Hz	-27	-6	-5
1kHz	-27	-13	-12
2kHz	-26	-10	-9
4kHz	-31	-21	-20
8kHz	-37	-27	-26

RS 125L; 50Hz



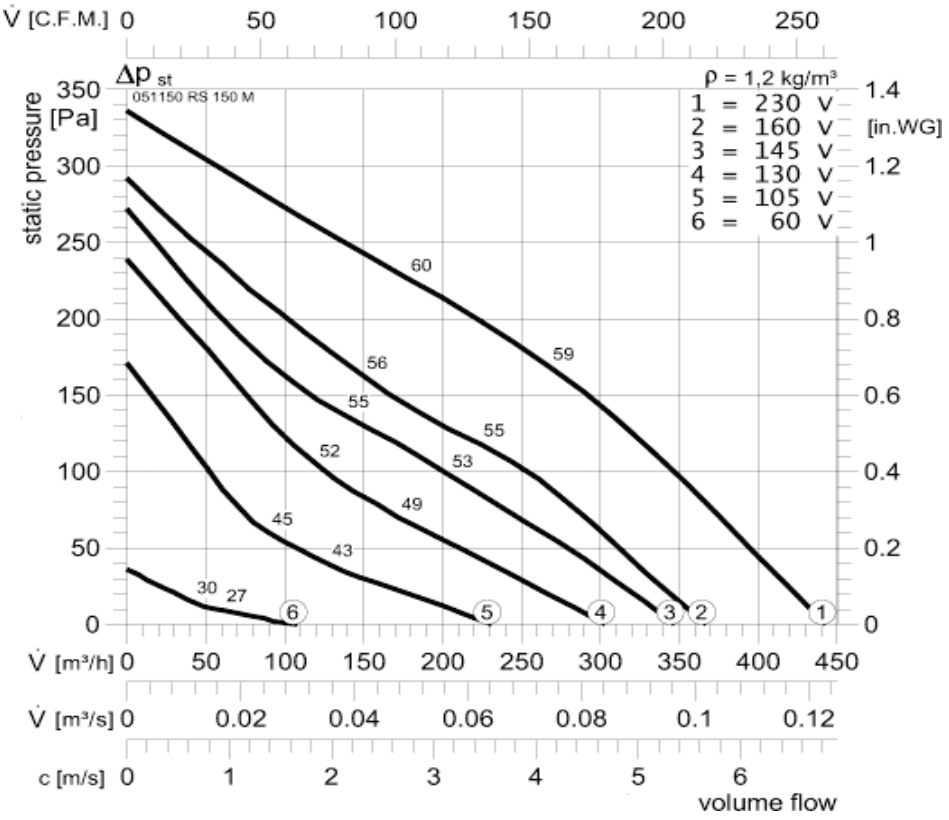
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-14	0	0
125Hz	-27	-15	-16
250Hz	-21	-10	-8
500Hz	-21	-7	-7
1kHz	-20	-4	-5
2kHz	-20	-7	-7
4kHz	-27	-11	-10
8kHz	-35	-20	-21

RK 125L; 50Hz



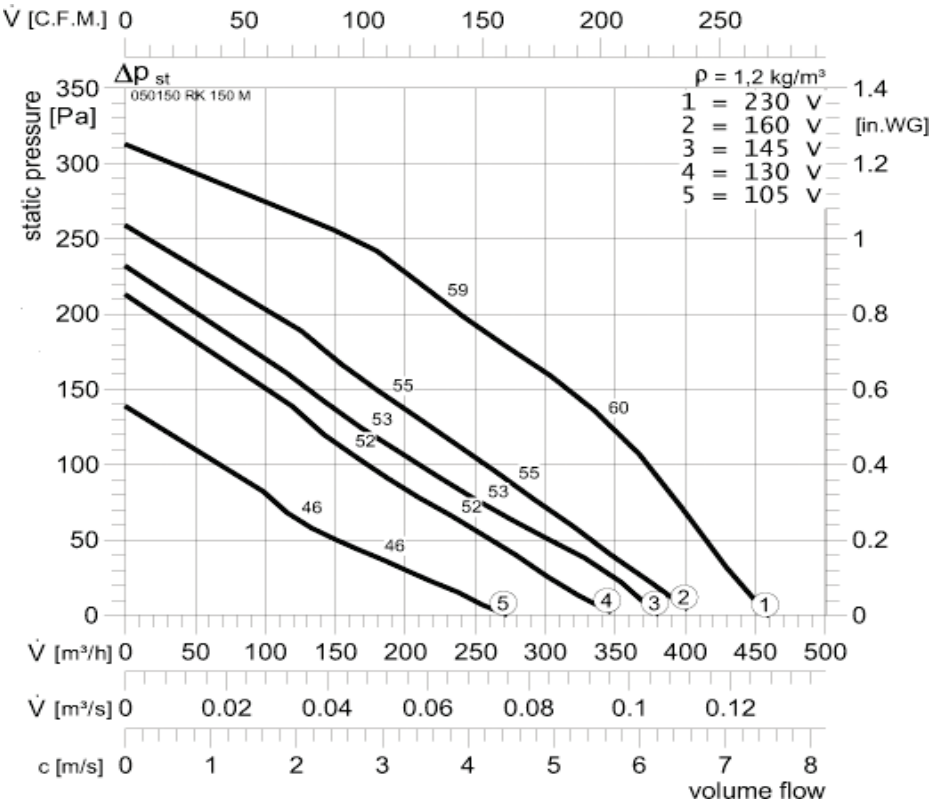
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-20	-1	0
125Hz	-28	-13	-12
250Hz	-31	-5	-4
500Hz	-27	-6	-5
1kHz	-27	-13	-12
2kHz	-26	-10	-9
4kHz	-31	-21	-20
8kHz	-37	-27	-26

RS 150M; 50Hz



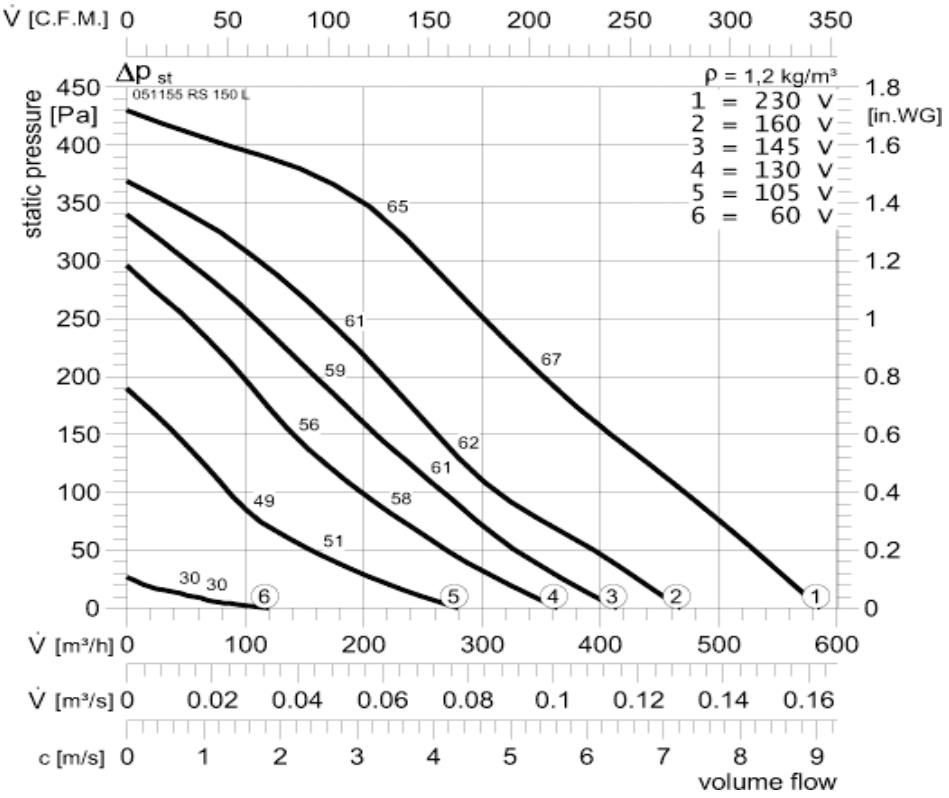
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-10	2	0
125Hz	-25	-17	-23
250Hz	-19	-6	-10
500Hz	-15	-4	-9
1kHz	-16	-4	-6
2kHz	-16	-5	-4
4kHz	-26	-8	-9
8kHz	-33	-15	-19

RK 150M; 50Hz



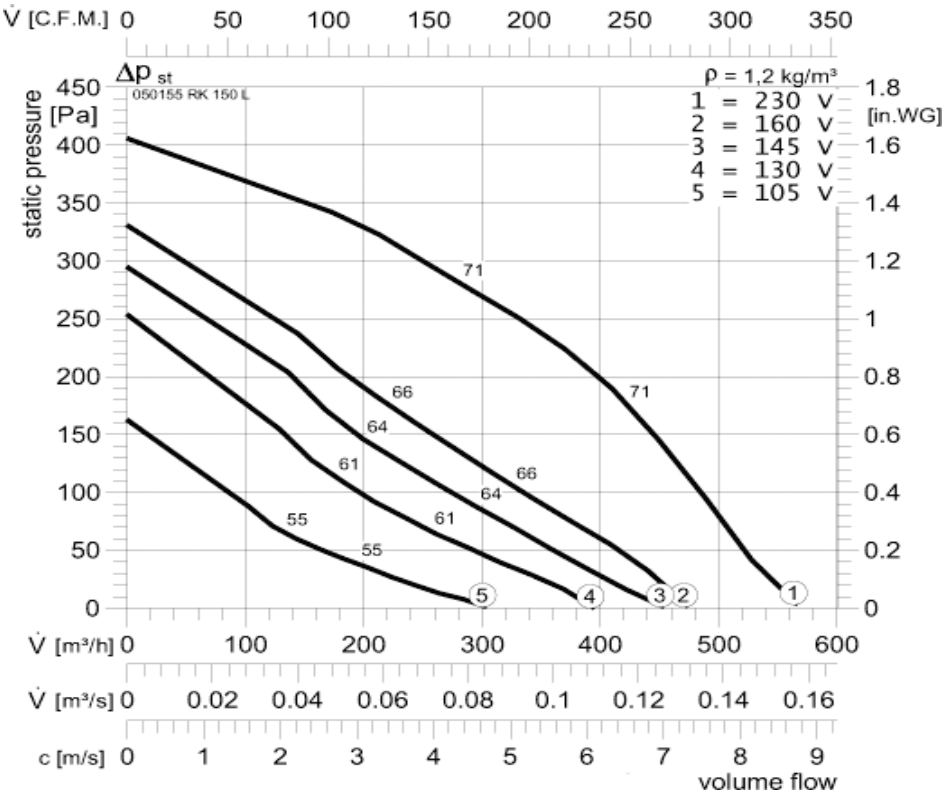
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-14	-1	0
125Hz	-31	-12	-11
250Hz	-29	-5	-4
500Hz	-24	-7	-6
1kHz	-19	-10	-9
2kHz	-18	-12	-11
4kHz	-25	-17	-16
8kHz	-29	-29	-28

RS 150L; 50Hz



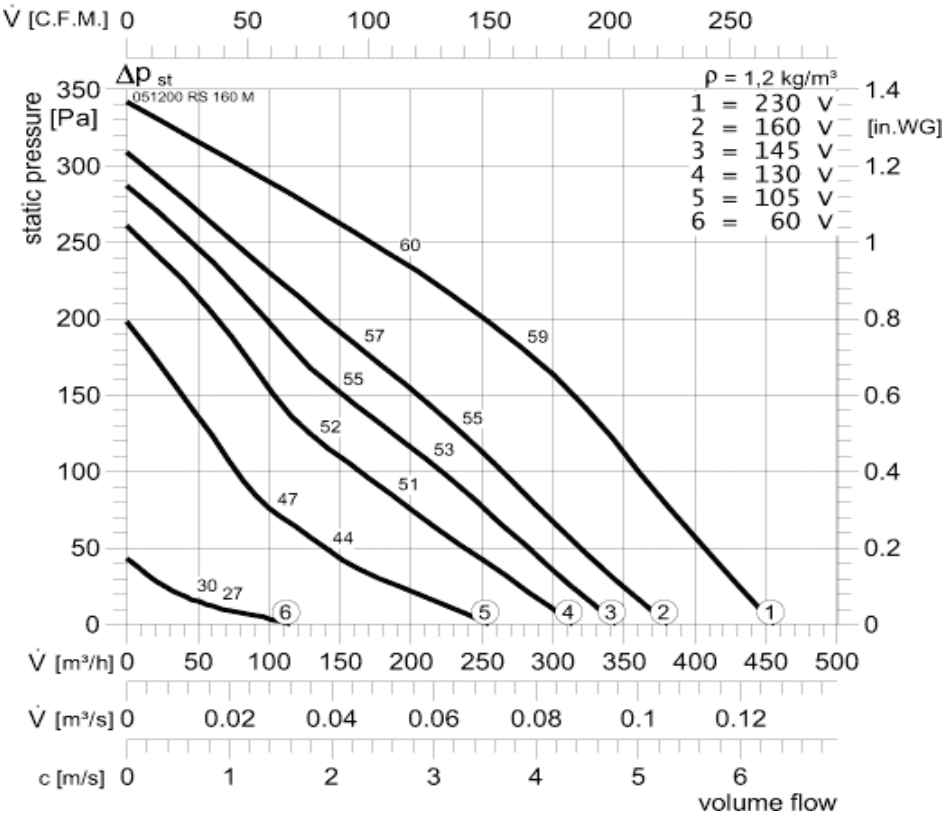
L_{WArel} ΔdB	L_{WA2}	L_{WA5}	L_{WA6}
L_{WAtot}	-10	2	0
125Hz	-25	-17	-23
250Hz	-19	-6	-10
500Hz	-15	-4	-9
1kHz	-16	-4	-6
2kHz	-16	-5	-4
4kHz	-26	-8	-9
8kHz	-33	-15	-19

RK 150L; 50Hz



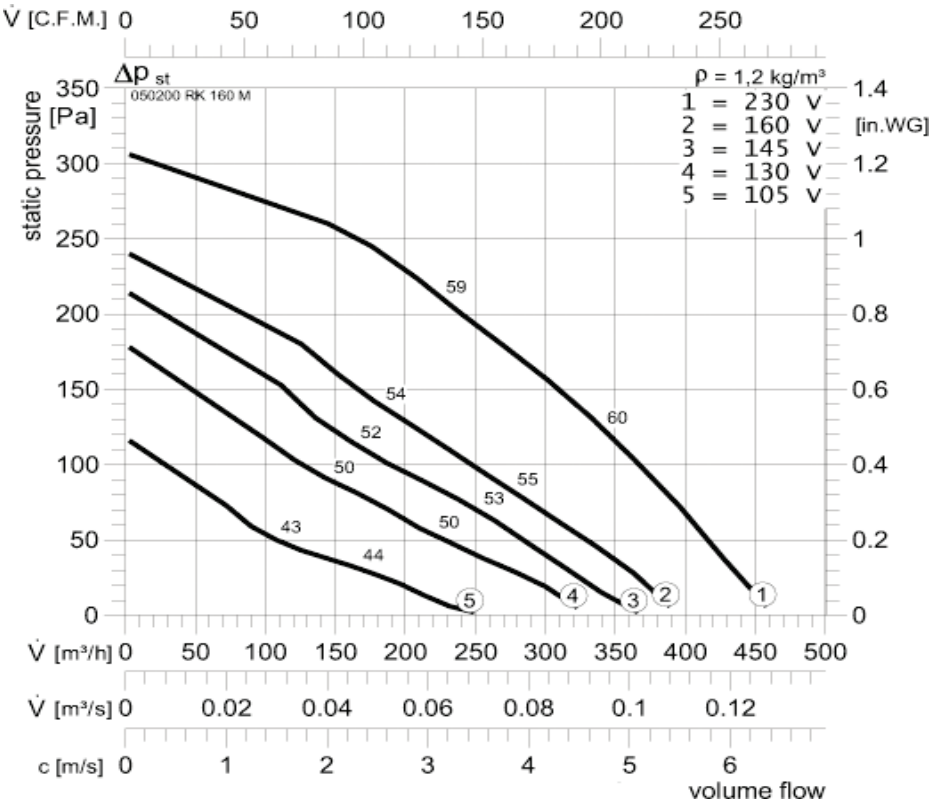
L_{WArel} ΔdB	L_{WA2}	L_{WA5}	L_{WA6}
L_{WAtot}	-13	-1	0
125Hz	-35	-18	-17
250Hz	-33	-5	-4
500Hz	-17	-6	-5
1kHz	-18	-7	-6
2kHz	-24	-13	-12
4kHz	-20	-18	-17
8kHz	-24	-26	-25

RS 160M; 50Hz



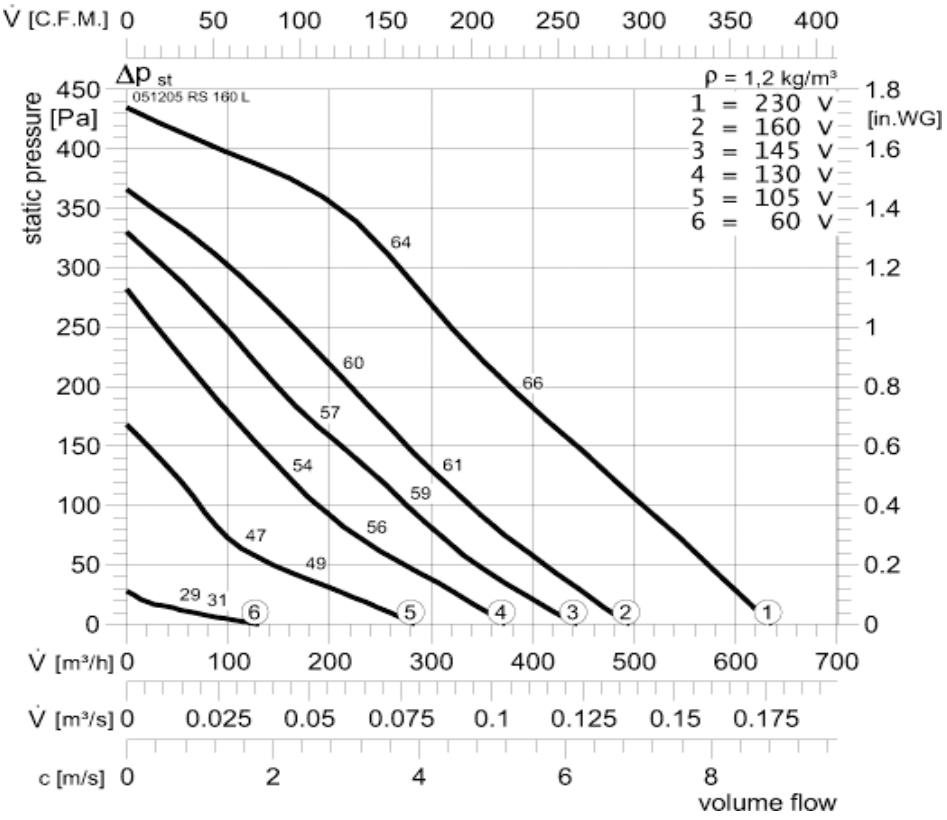
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-13	2	0
125Hz	-21	-15	-15
250Hz	-19	-7	-7
500Hz	-19	-3	-7
1kHz	-20	-4	-5
2kHz	-23	-4	-7
4kHz	-27	-12	-13
8kHz	-36	-20	-22

RK 160M; 50Hz



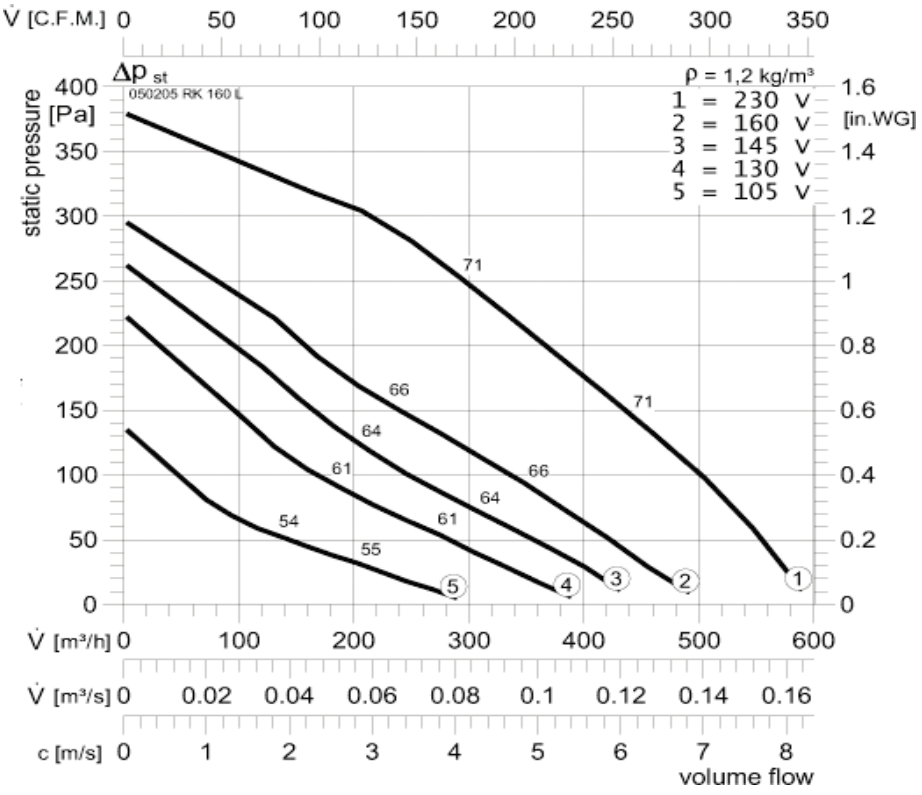
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-14	-1	0
125Hz	-31	-12	-11
250Hz	-29	-5	-4
500Hz	-24	-7	-6
1kHz	-19	-10	-9
2kHz	-18	-12	-11
4kHz	-25	-17	-16
8kHz	-29	-29	-28

RS 160L; 50Hz



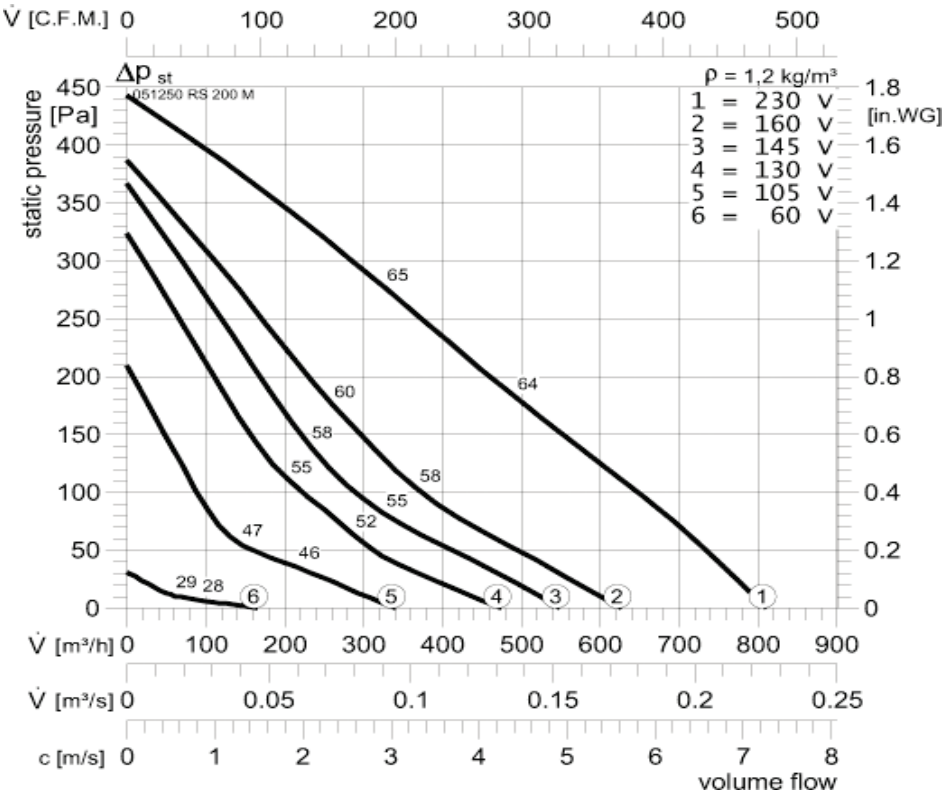
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-13	2	0
125Hz	-21	-15	-15
250Hz	-19	-7	-7
500Hz	-19	-3	-7
1kHz	-20	-4	-5
2kHz	-23	-4	-7
4kHz	-27	-12	-13
8kHz	-36	-20	-22

RK 160L; 50Hz



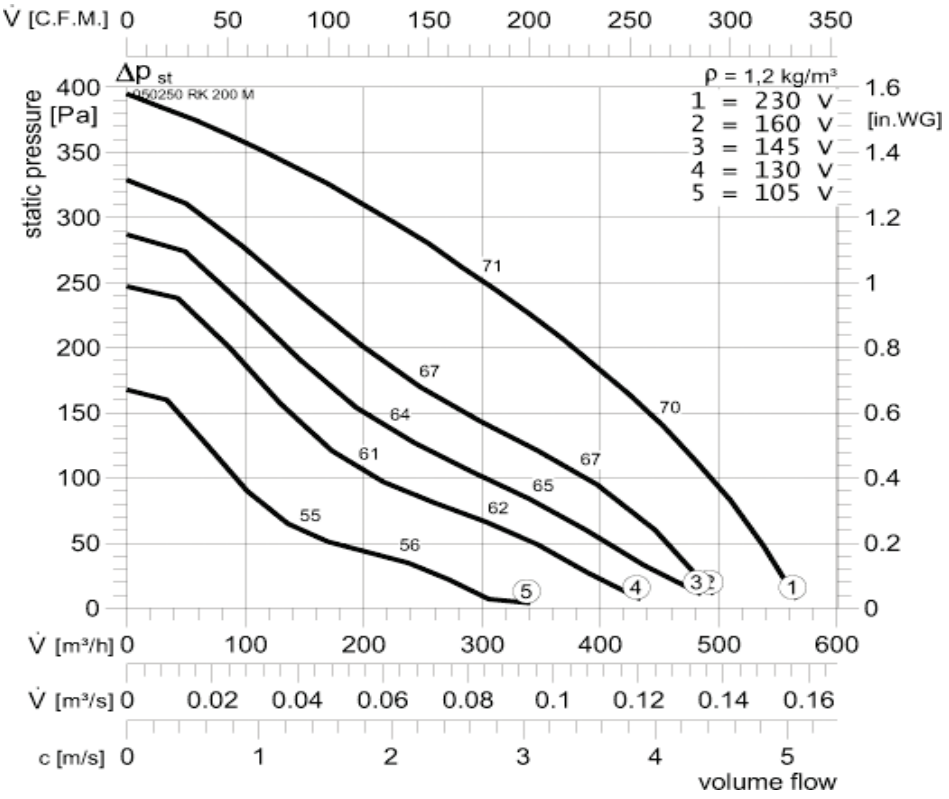
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-13	-1	0
125Hz	-35	-18	-17
250Hz	-33	-5	-4
500Hz	-17	-6	-5
1kHz	-18	-7	-6
2kHz	-24	-13	-12
4kHz	-20	-18	-17
8kHz	-24	-26	-25

RS 200M; 50Hz



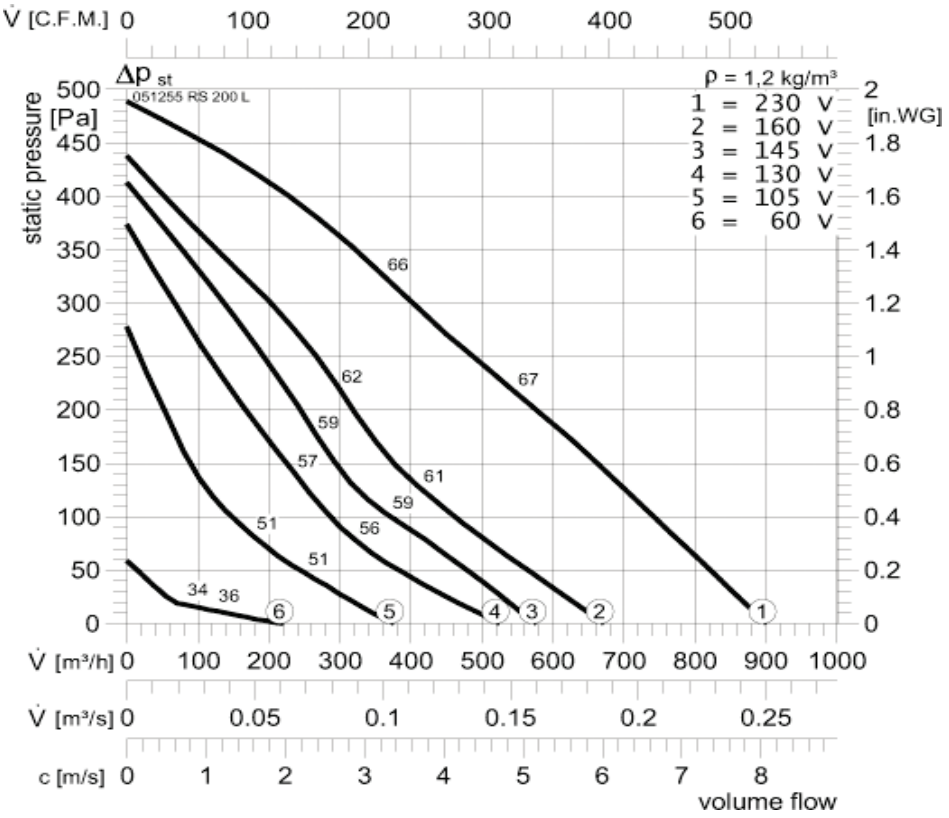
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-13	2	0
125Hz	-27	-20	-22
250Hz	-19	-7	-11
500Hz	-20	-5	-11
1kHz	-19	-4	-5
2kHz	-19	-3	-4
4kHz	-27	-8	-10
8kHz	-36	-17	-17

RK 200M; 50Hz



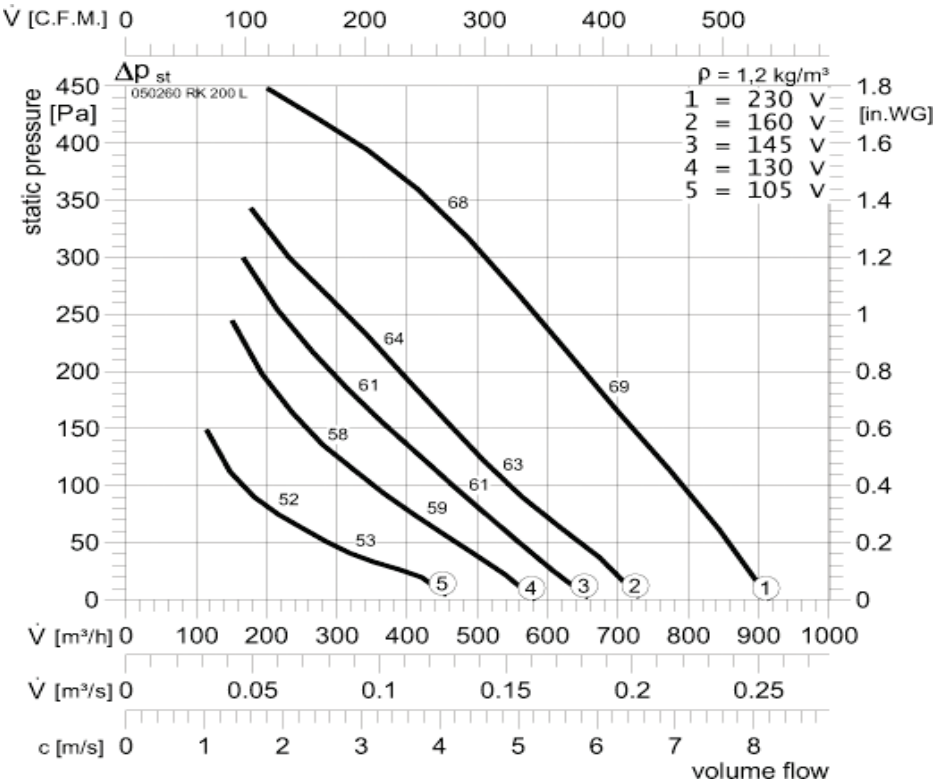
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-15	-1	0
125Hz	-38	-14	-13
250Hz	-36	-8	-7
500Hz	-26	-6	-5
1kHz	-16	-9	-8
2kHz	-25	-9	-8
4kHz	-30	-13	-12
8kHz	-39	-22	-21

RS 200L; 50Hz



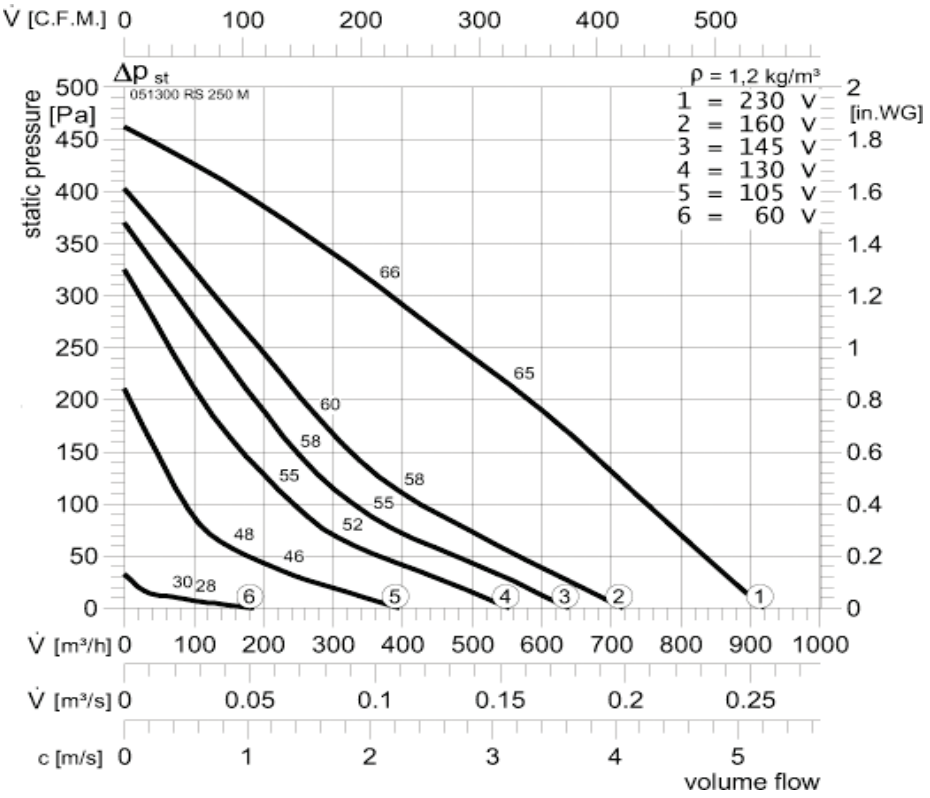
$L_{WA rel}$ ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
$L_{WA tot}$	-13	2	0
125Hz	-25	-17	-20
250Hz	-18	-6	-10
500Hz	-19	-4	-9
1kHz	-18	-3	-5
2kHz	-21	-5	-5
4kHz	-27	-10	-10
8kHz	-35	-17	-17

RK 200L; 50Hz



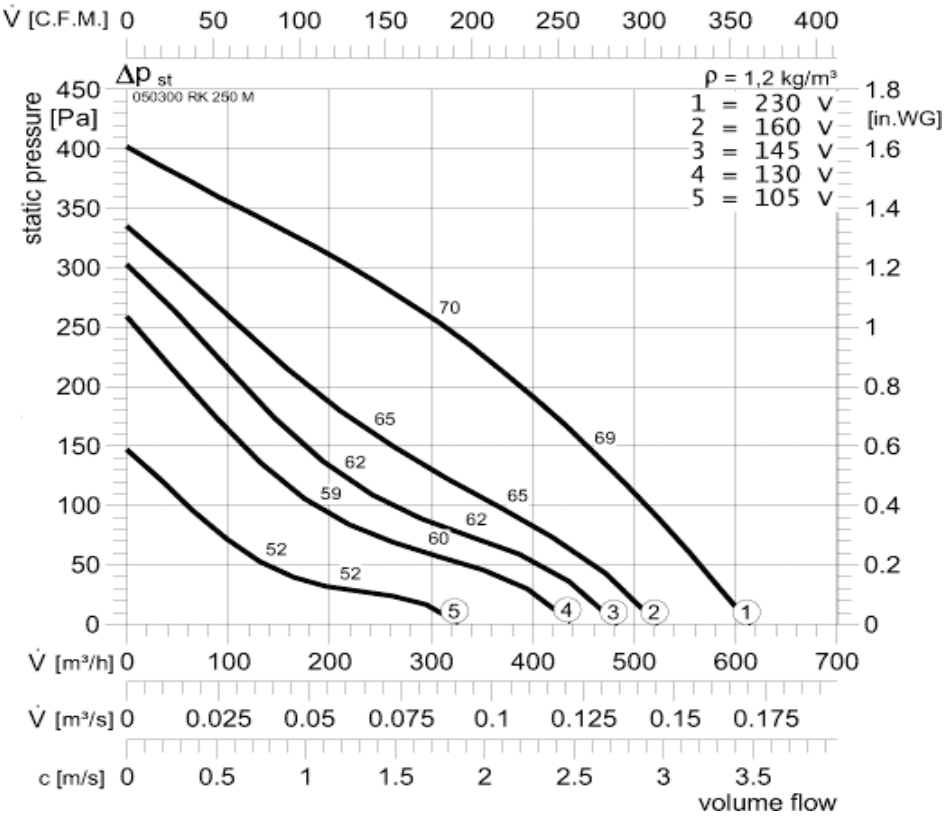
$L_{WA rel}$ ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
$L_{WA tot}$	-15	-1	0
125Hz	-38	-15	-14
250Hz	-31	-8	-7
500Hz	-25	-5	-4
1kHz	-17	-8	-7
2kHz	-25	-10	-9
4kHz	-31	-15	-14
8kHz	-39	-24	-23

RS 250M; 50Hz



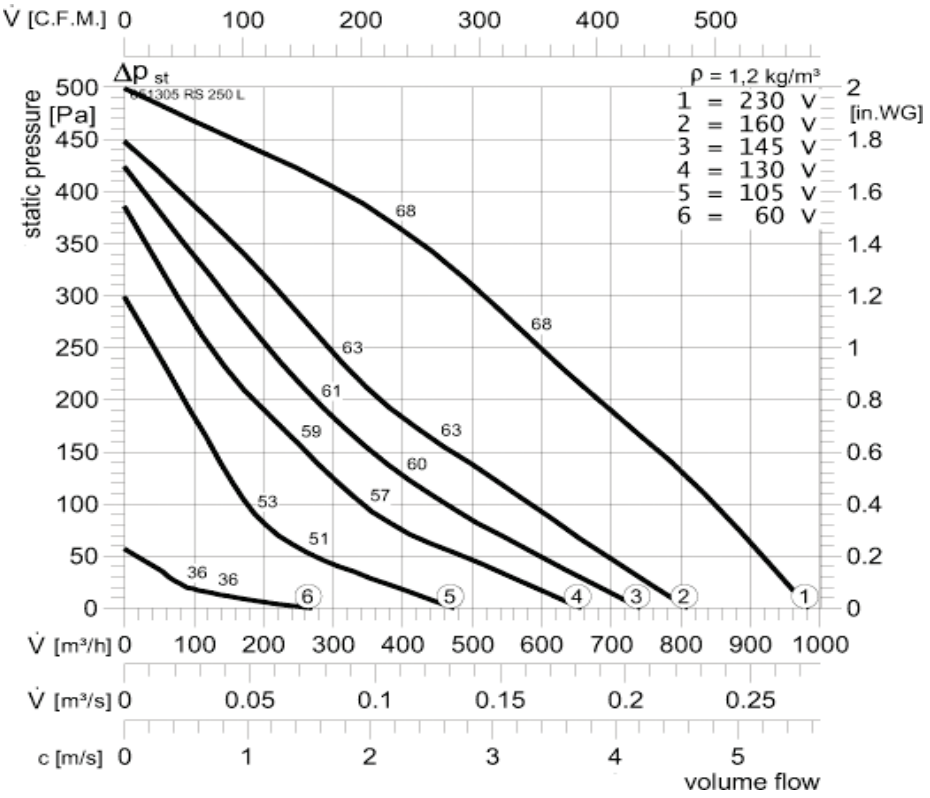
LWArel ΔdB	LWA 2	LWA 5	LWA 6
LWAtot	-13	0	0
125Hz	-25	-21	-20
250Hz	-18	-10	-9
500Hz	-20	-6	-7
1kHz	-18	-6	-6
2kHz	-24	-5	-5
4kHz	-29	-12	-10
8kHz	-38	-19	-18

RK 250M; 50Hz



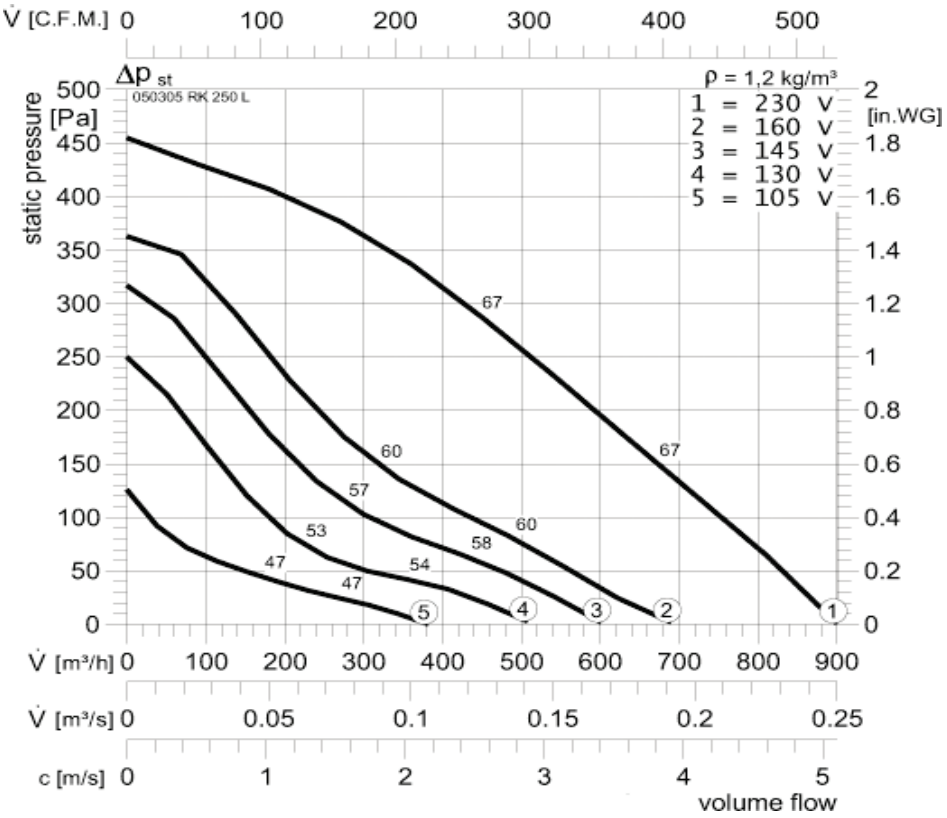
LWArel ΔdB	LWA 2	LWA 5	LWA 6
LWAtot	-15	-1	0
125Hz	-15	-1	0
250Hz	-28	-6	-5
500Hz	-26	-7	-6
1kHz	-17	-7	-6
2kHz	-22	-9	-8
4kHz	-27	-14	-13
8kHz	-31	-16	-15

RS 250L; 50Hz



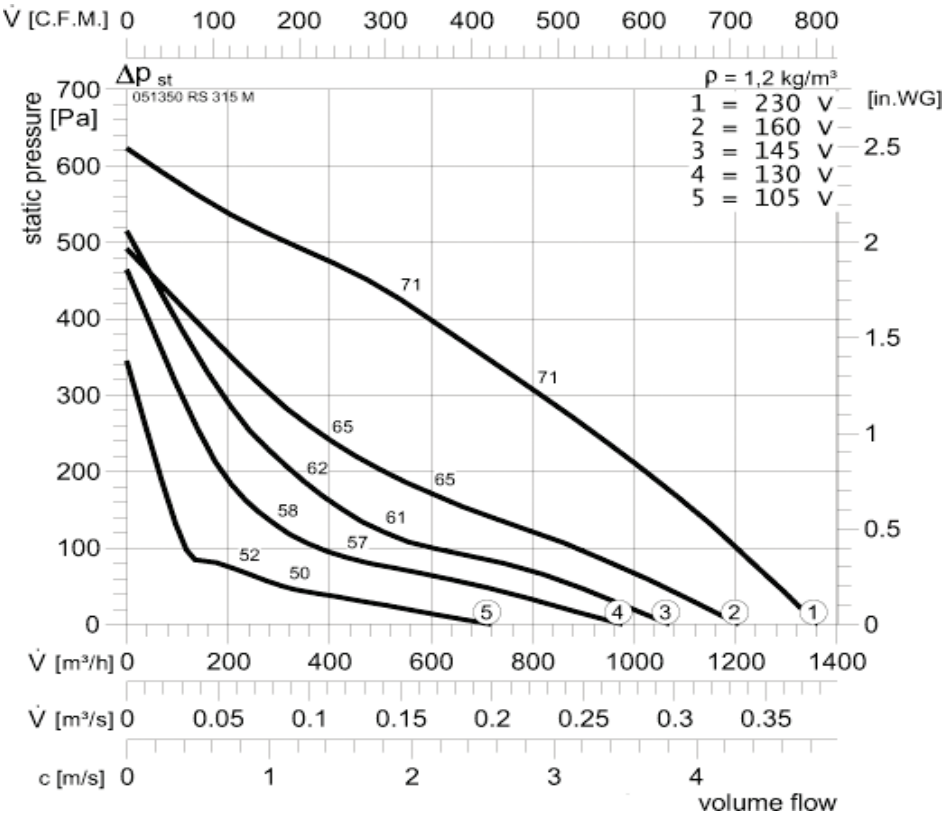
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-14	-1	0
125Hz	-31	-12	11
250Hz	-29	-5	-4
500Hz	-24	-7	-6
1kHz	-19	-10	-9
2kHz	-18	-12	-11
4kHz	-25	-17	-16
8kHz	-29	-29	-28

RK 250L; 50Hz



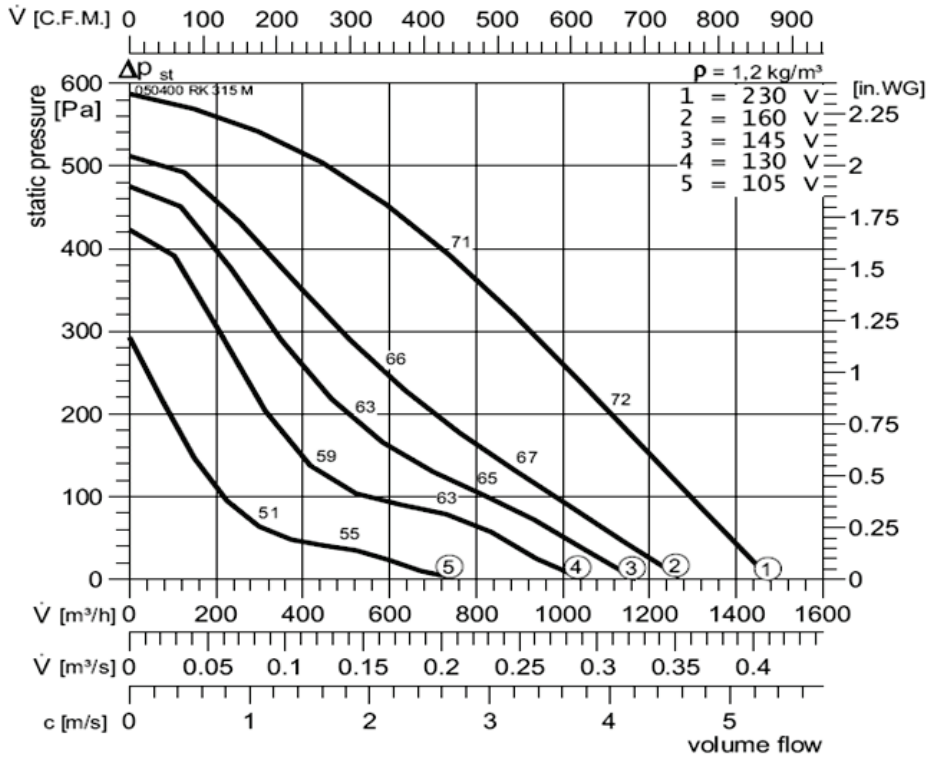
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-14	-1	0
125Hz	-14	-1	0
250Hz	-31	-8	-7
500Hz	-21	-7	-6
1kHz	-16	-8	-7
2kHz	-21	-9	-8
4kHz	-28	-11	-10
8kHz	-38	-15	-14

RS 315M; 50Hz



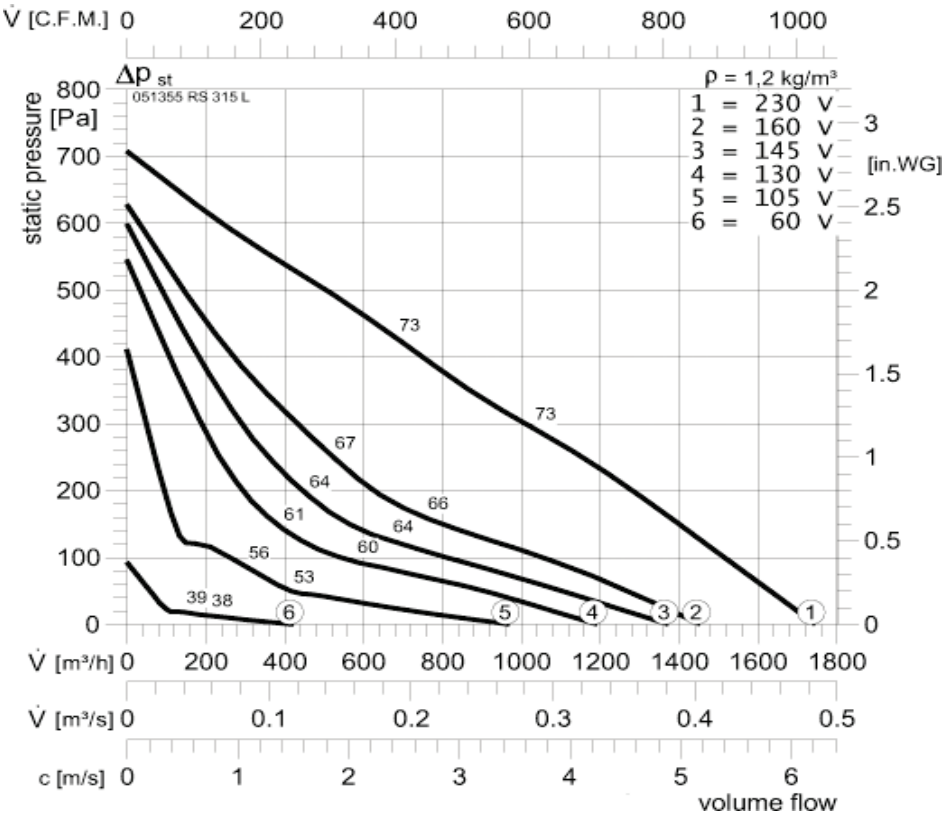
L_{WA} rel ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WA} tot	-16	0	0
125Hz	-29	-23	-17
250Hz	-25	-13	-12
500Hz	-22	-6	-10
1kHz	-21	-5	-5
2kHz	-23	-6	-5
4kHz	-28	-10	-8
8kHz	-37	-15	-15

RK 315M; 50Hz



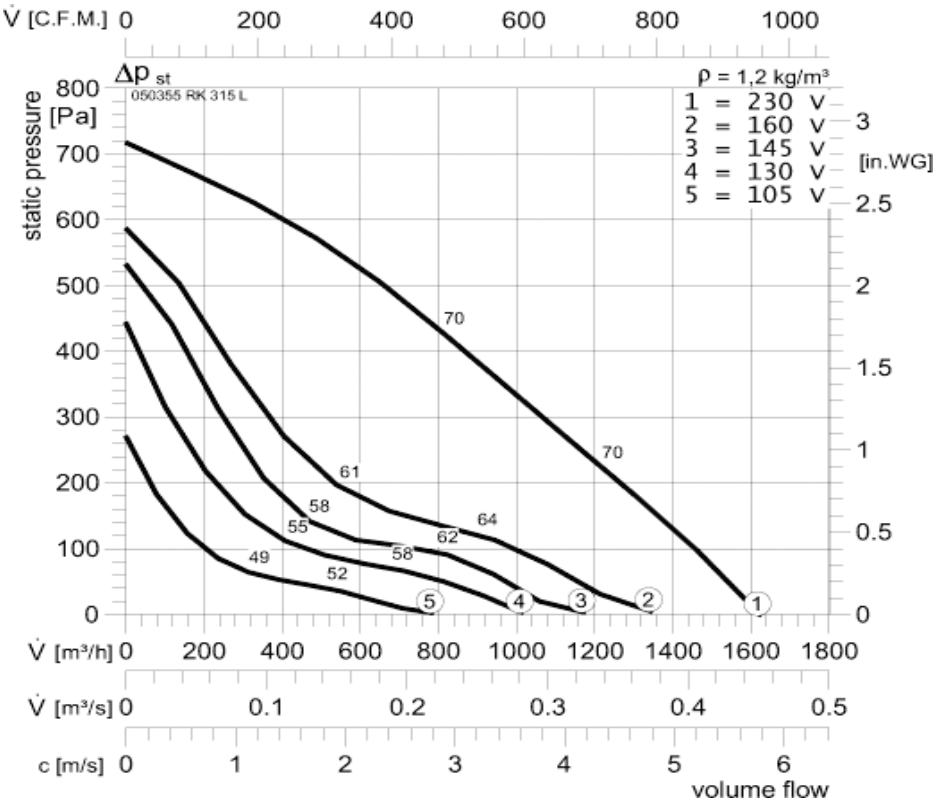
L_{WA} rel ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WA} tot	-17	-1	0
125Hz	-40	-21	-20
250Hz	-33	-14	-13
500Hz	-26	-13	-12
1kHz	-18	-7	-6
2kHz	-28	-5	-4
4kHz	-31	-8	-7
8kHz	-41	-11	-10

RS 315L; 50Hz



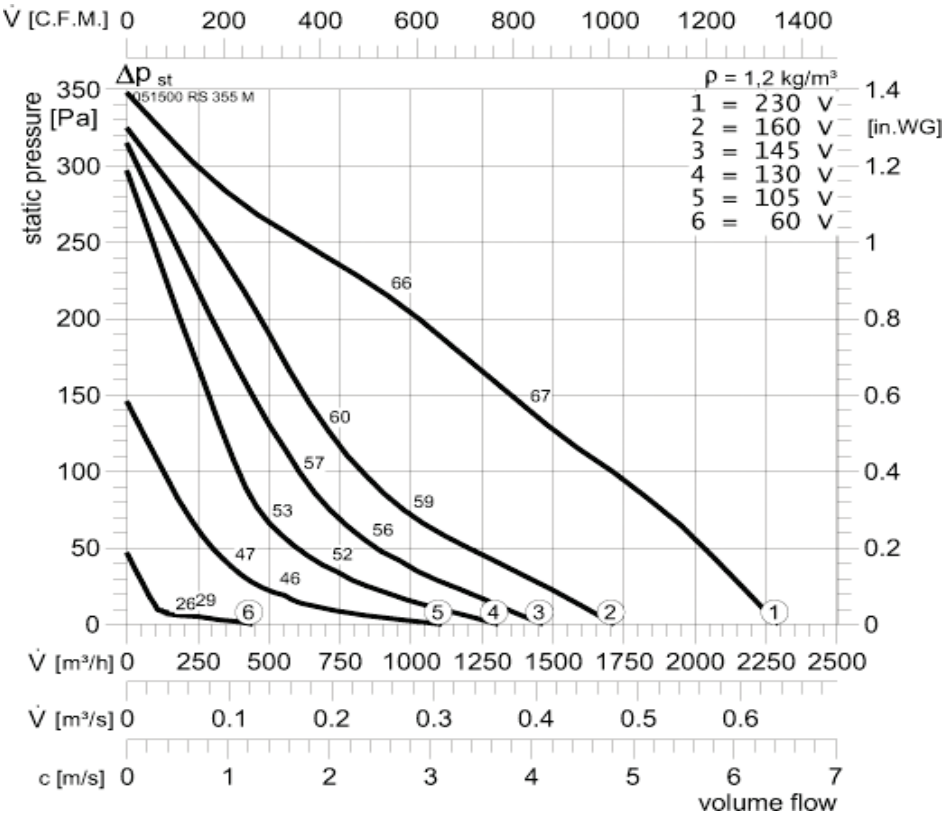
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-16	-1	0
125Hz	-32	-26	-27
250Hz	-24	-14	-15
500Hz	-22	-5	-11
1kHz	-22	-4	-5
2kHz	-23	-6	-5
4kHz	-26	-7	-8
8kHz	-35	-12	-10

RK 315L; 50Hz



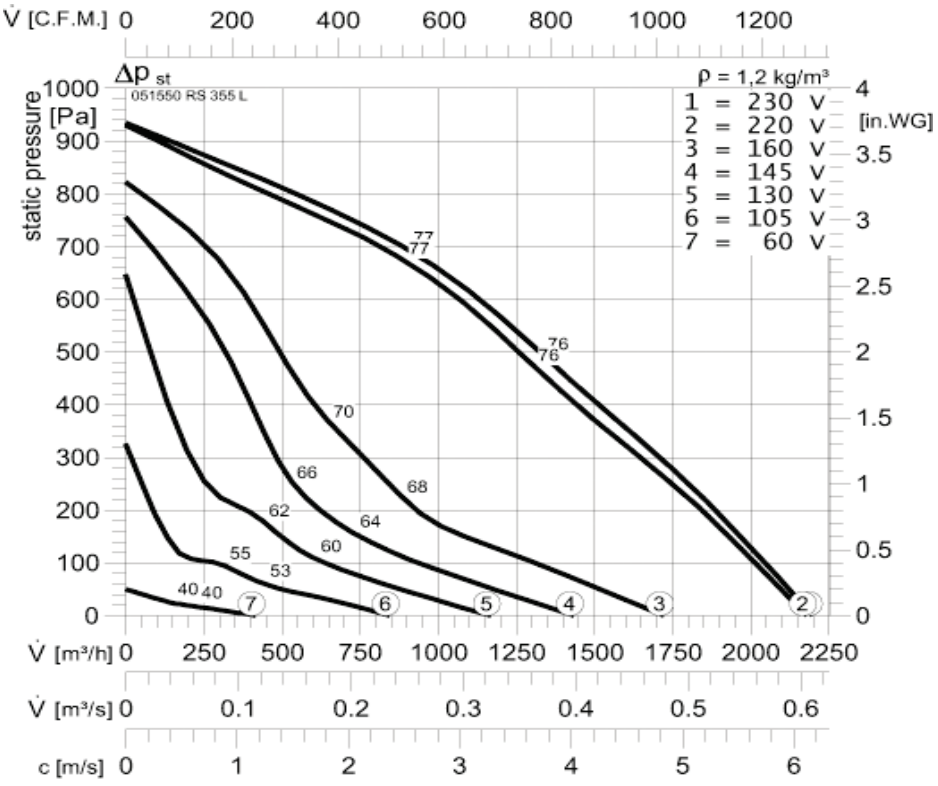
L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-20	-1	0
125Hz	-48	-23	-22
250Hz	-39	-14	-13
500Hz	-31	-11	-10
1kHz	-21	-8	-7
2kHz	-28	-7	-6
4kHz	-32	-9	-8
8kHz	-39	-11	-10

RS 355M; 50Hz



L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-12	-1	0
125Hz	-18	-13	-13
250Hz	-17	-6	-10
500Hz	-18	-6	-5
1kHz	-21	-8	-6
2kHz	-26	-12	-7
4kHz	-30	-15	-11
8kHz	-42	-25	-20

RS 355L; 50Hz



L_{WArel} ΔdB	L_{WA} 2	L_{WA} 5	L_{WA} 6
L_{WAtot}	-11	0	0
125Hz	-30	-7	-19
250Hz	-20	-5	-16
500Hz	-19	-6	-7
1kHz	-15	-6	-4
2kHz	-18	-11	-6
4kHz	-21	-13	-10
8kHz	-36	-21	-16