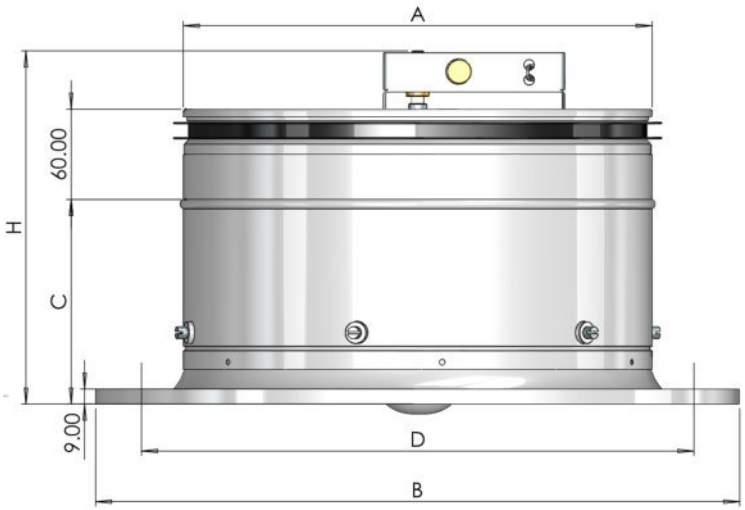
Adjustable Swirl Diffuser - RSW-TR

RSW-TR is a rotation diffuser particularly suitable for rooms with a high ceiling.
The diffuser is equipped with adjustable blades so the supply air pattern can be changed from vertical to horizontal. The blades can come manually adjustable, with a thermal actuator or an electric motor.



Multiple Variations





A	B	C	D	H	Weight KG
250	360	143	285	240	2.4
315	460	168	365	267	3.1
400	560	178	450	292	4.4
500	670	226	570	341	6.8
630	870	273	740	391	9.9

How to Order

Type	Blade Type	Size	Edge Type	Finish
		250		
	M - Manual	315	C- Circular	
RSW-ADJ	TR - Thermal Actuator	400	L - Lay In Grid	RAL Colour
	M1 - Motorized - Modulating	500	T - Tegular	
	M2 - Motorized - On/Off	630	M - Clip In Metal Tile	

e.g. 10 No RSW-ADJ-TR-315-C-RAL 9010

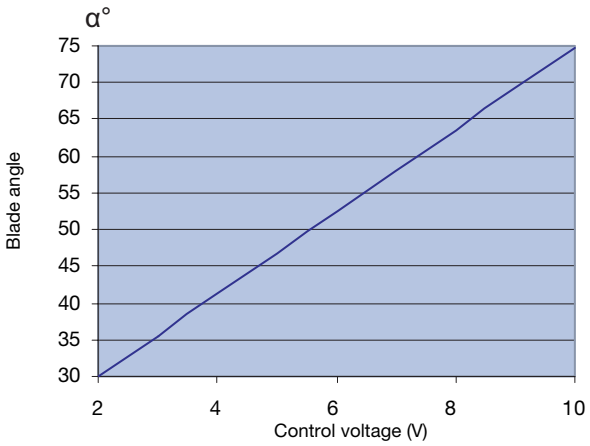
*Please contact our Sales Office on **01924 444174** for selection guidance on the above.*

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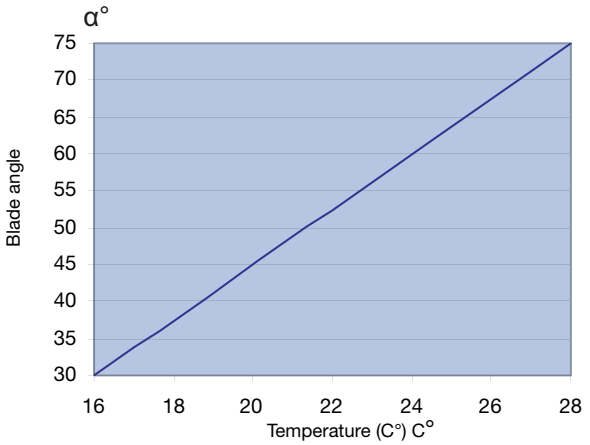
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Unit 2, Norquest Ind Park, Pennine View, Birstall, West Yorkshire
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www.briteair.co.uk

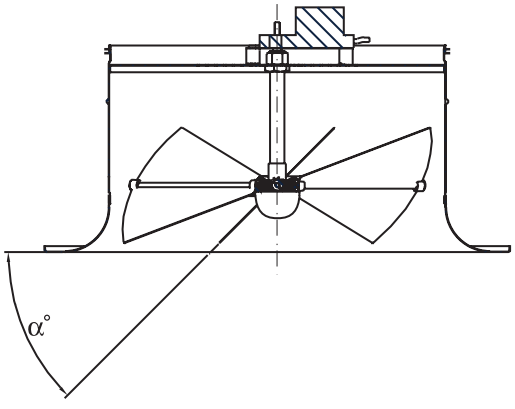
Technical data

RSW with electric modulating motor



RSW with thermal actuator





Capacity

Volume flow q_v [l/s] and [m^3/h], total pressure Δp_t [Pa], throw $l_{0.2}$ [m] and sound power level L_{WA} [dB(A)] can be seen in the diagrams.

Throw $l_{0.2}$ / turning point $l_{0.0}$

Throw $l_{0.2}$[m] can be seen in the diagrams for isothermal air at a speed of 0.2 m/s. Turning point $l_{0.0}$ [m] can be seen in the diagrams for heated air, +5 K, +10 K and +15 K respectively.

Frequency-related sound effect level

The sound effect level in the frequency band is defined as $L_{WA}+K_{ok}$. K_{ok} values are specified in charts beneath the diagrams on the following pages.

Quick selection

Size	Angle	qv [l/s]	qv [m^3/h]	Pt [Pa]	$l_{0.2}$ isoterm [m]	$l_{0.0}$ +10K [m]
		LWA= 40				
250	30°	138	498	63	10	
250	75°	138	498	22		5
315	30°	237	854	65	6	
315	75°	237	854	24		6
400	30°	361	1299	60	5	
400	75°	361	1299	22		6
500	30°	453	1630	52	5	
500	75°	453	1630	13		5
630	30°	818	2943	57	6	
630	75°	818	2943	17		7
		LWA= 50				
250	30°	192	692	121	13	
250	75°	192	692	42		7
315	30°	329	1183	124	8	
315	75°	329	1183	46		8
400	30°	513	1846	122	7	
400	75°	513	1846	44		8
500	30°	636	2290	103	6	
500	75°	636	2290	25		6
630	30°	1136	4088	110	8	
630	75°	1136	4088	32		9
		LWA= 60				
250	30°	267	962	234	18	
250	75°	267	962	81		10
315	30°	455	1638	238	10	
315	75°	455	1638	88		11
400	30°	729	2623	247	11	
400	75°	729	2623	89		12
500	30°	893	3216	203	8	
500	75°	893	3216	49		9
630	30°	1577	5679	213	11	
630	75°	1577	5679	62		12

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Adjustable Swirl Diffuser - RSW-TR

RSW-TR-250

Blade Position	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA
30°	<10	<10	13	<10	17	20	22	23	28	27	33	30	40	33	49	37
45°	<10	<10	<10	<10	<10	<10	10	14	13	18	16	22	19	24	25	27
60°	<10	<10	<10	<10	<10	<10	<10	<10	11	12	13	18	17	20	19	23
75°	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	12	16	14	17	17	20
Air Volumes	50	50	60	60	70	70	80	80	90	90	100	100	110	110	120	120

Blade Position	PA	DBA	PA	DBA	PA	DBA
30°	59	37	62	40	70	43
45°	28	30	30	32	36	33
60°	24	25	26	27	29	30
75°	19	22	23	24	26	25
Air Volumes	130	130	140	140	150	150

RSW-TR-315

Blade Position	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA
30°	12	<10	14	<10	17	10	20	21	23	23	27	26	30	26	34	30
45°	<10	<10	<10	<10	<10	<10	11	<10	13	10	14	18	17	21	19	21
60°	<10	<10	<10	<10	<10	<10	<10	<10	10	<10	12	<10	13	<10	15	10
75°	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	11	<10	13	<10
Air Volumes	100	100	110	110	120	120	130	130	140	140	150	150	160	160	170	170

Blade Position	PA	DBA	PA	DBA	PA	DBA	PA
30°	38	32	43	34	47	35	74
45°	21	25	24	26	27	28	40
60°	17	17	19	20	21	22	34
75°	14	<10	16	12	17	18	37
Air Volumes	180	180	190	190	200	200	250

RSW-TR-400

Blade Position	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA
30°	11	<10	12	<10	14	15	15	20	17	21	19	22	29	29	44	35
45°	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	10	<10	10	22	23	27
60°	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	18	22
75°	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	15	20
Air Volumes	150	150	160	160	170	170	180	180	190	190	200	200	250	250	300	300

Blade Position	PA	DBA	PA	DBA
30°	58	38	75	43
45°	31	32	40	37
60°	25	27	32	32
75°	21	25	27	29
Air Volumes	350	350	400	400

RSW-TR-500

Blade Position	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA
30°	10	<10	16	22	23	27	32	32	41	37	65	43	99	49	130	>50
45°	<10	<10	<10	<10	<10	<10	13	21	17	24	27	31	39	36	50	42
60°	<10	<10	<10	<10	<10	<10	<10	<10	12	19	19	26	29	32	38	36
75°	<10	<10	<10	<10	<10	<10	<10	<10	10	<10	16	23	24	29	31	34
Air Volumes	200	200	250	250	300	300	350	350	400	400	500	500	600	600	700	700

RSW-TR- 630

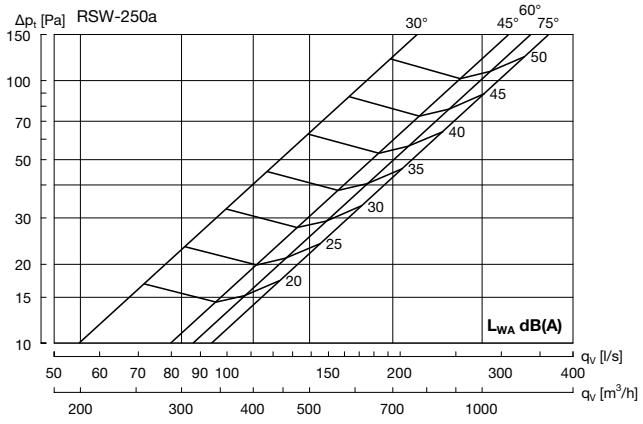
Blade Position	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA	PA	DBA
30°	14	18	22	25	32	31	44	36	56	39	70	43	88	46	>150	>50
45°	6	<10	10	20	15	26	20	30	26	33	34	37	40	40	92	>50
60°	<5	<10	8	18	11	24	14	28	19	32	25	35	30	38	68	50
75°	<5	<10	6	17	9	23	13	27	17	31	21	34	26	37	58	49
Air Volumes	400	400	500	500	600	600	700	700	800	800	900	900	1000	1000	1500	1500

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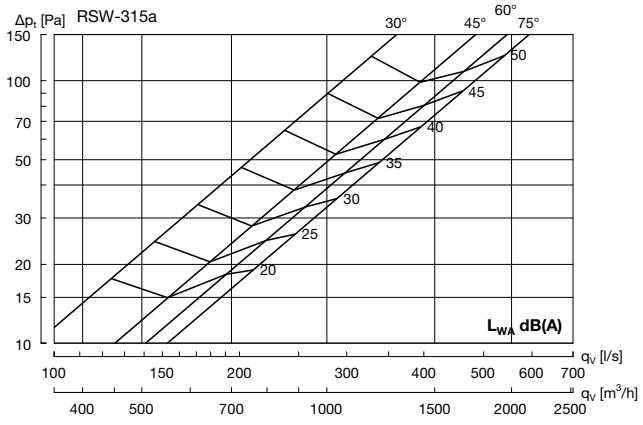
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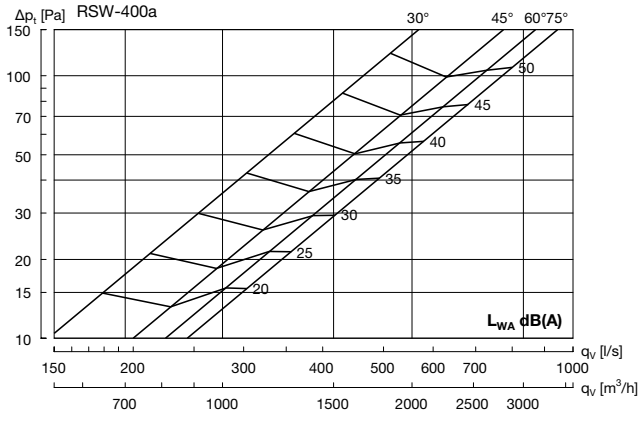
Performance Data



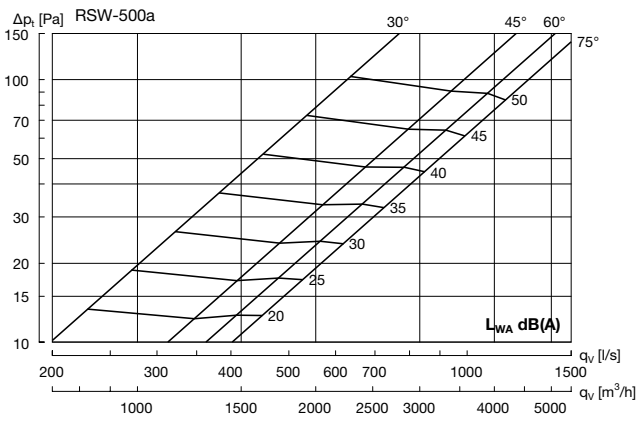
Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	7	1	-2	-2	-4	-9	-18	-21



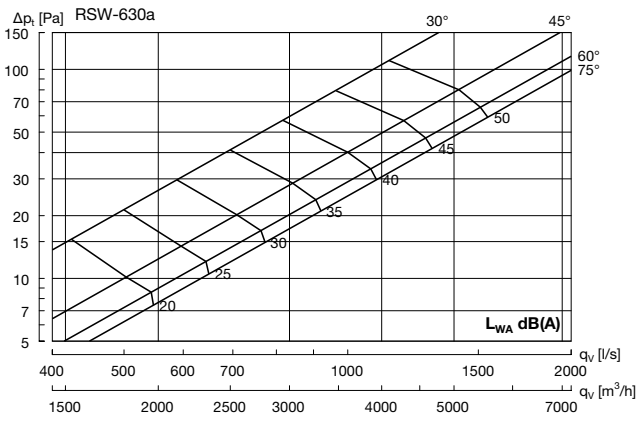
Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	10	2	-1	-3	-4	-10	-17	-21



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	12	1	-2	-2	-3	-13	-20	-23



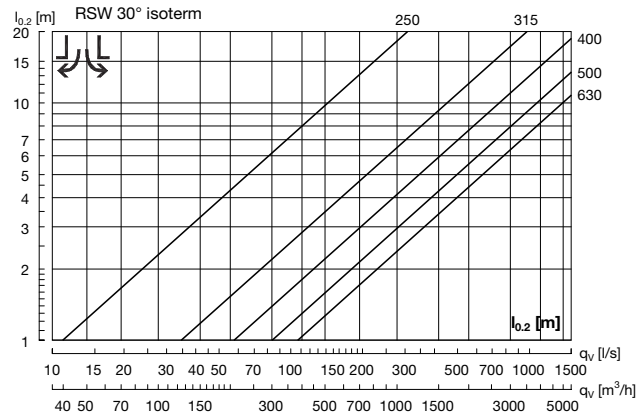
Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	12	1	-2	-1	-4	-12	-20	-22



Hz	63	125	250	500	1K	2K	4K	8K
K_{ok}	15	5	0	-2	-5	-12	-18	-22

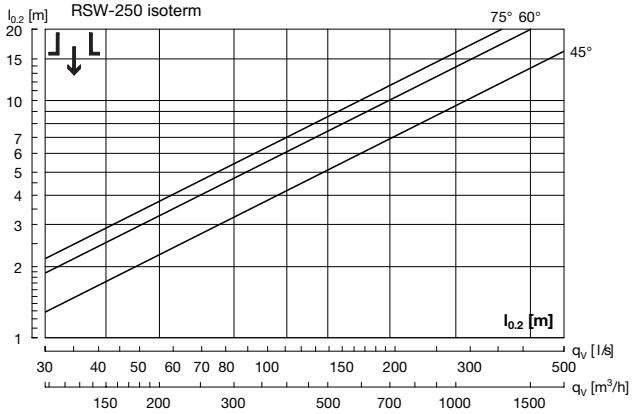
Throw $l_{0.2}$ horizontal

Horizontal throw $l_{0.2}$ is specified for free suspension. If the diffuser is installed < 300 mm from the ceiling, the value must be multiplied by 1.4.

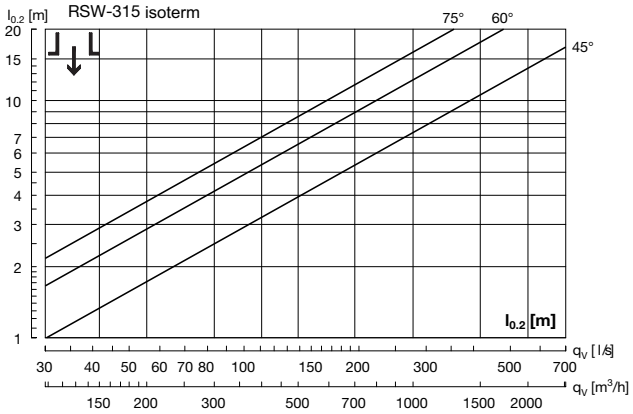


Performance Data

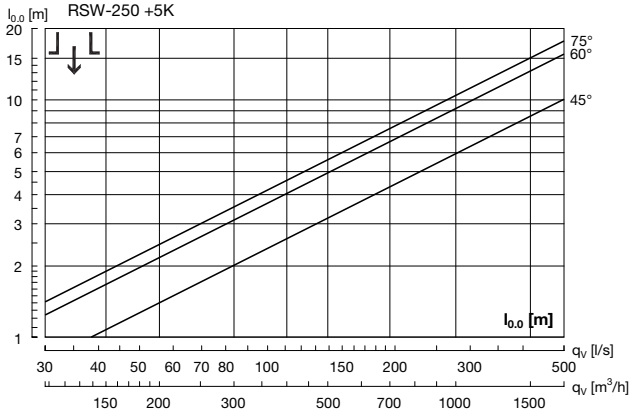
RSW-250 isoterm



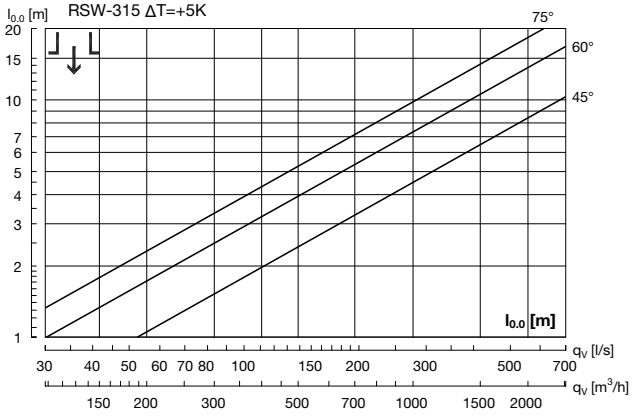
RSW-315 isoterm



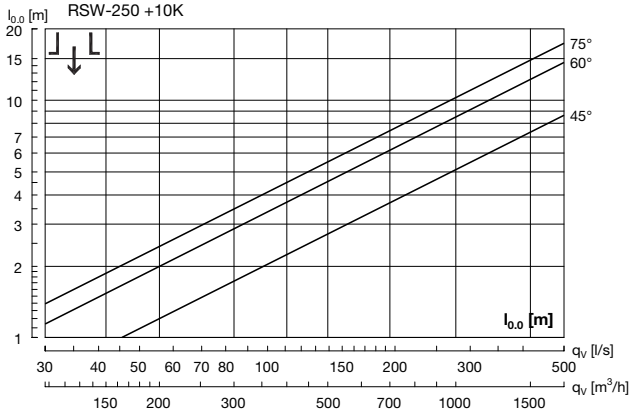
RSW-250 +5K



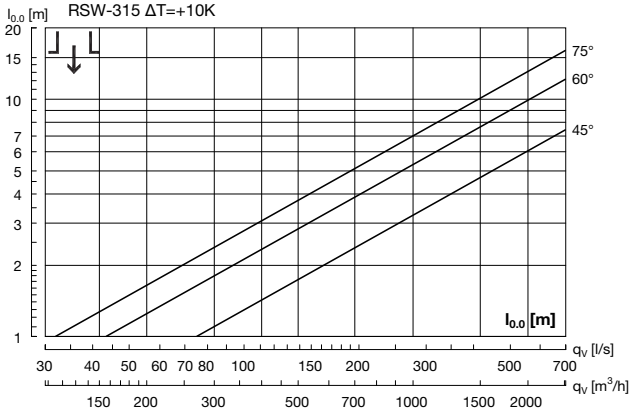
RSW-315 ΔT=+5K



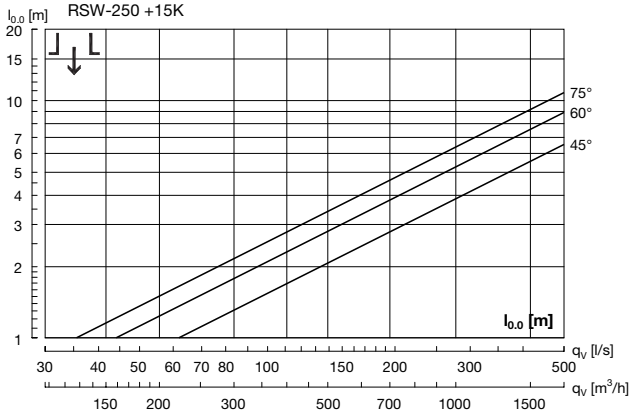
RSW-250 +10K



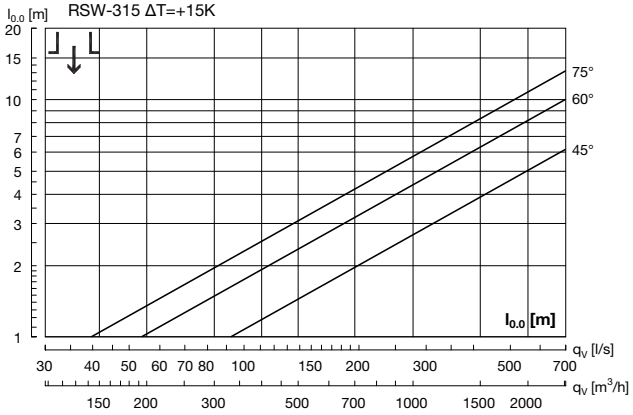
RSW-315 ΔT=+10K



RSW-250 +15K

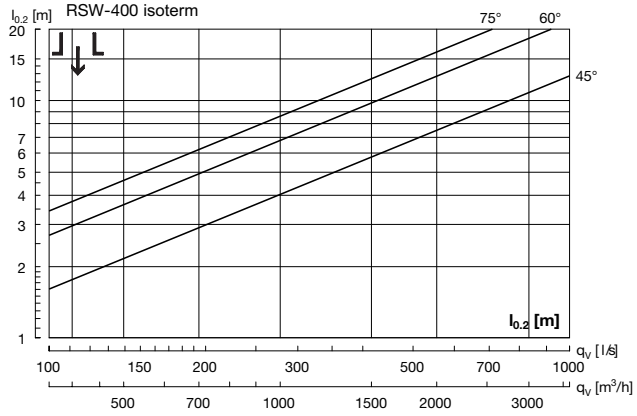


RSW-315 ΔT=+15K

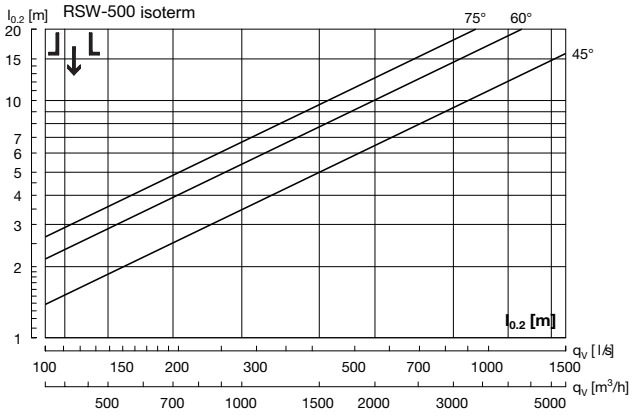


Performance Data

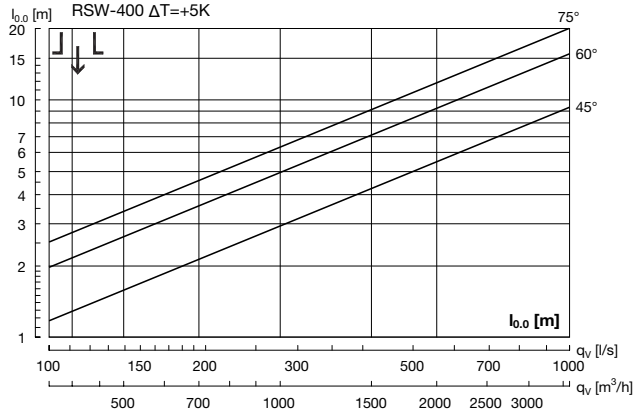
RSW-400 isoterm



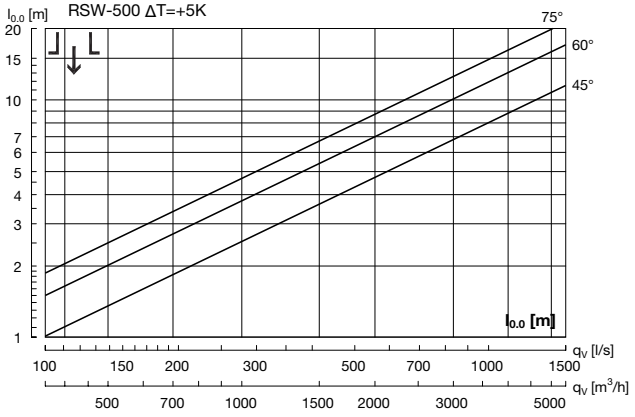
RSW-500 isoterm



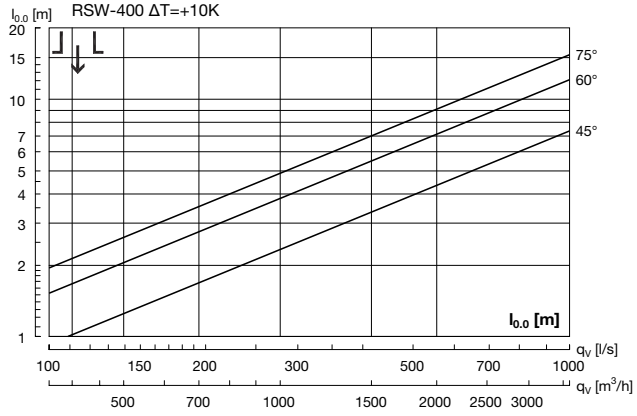
RSW-400 ΔT=+5K



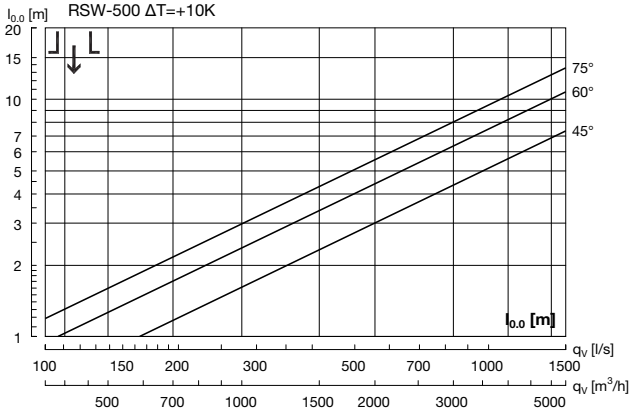
RSW-500 ΔT=+5K



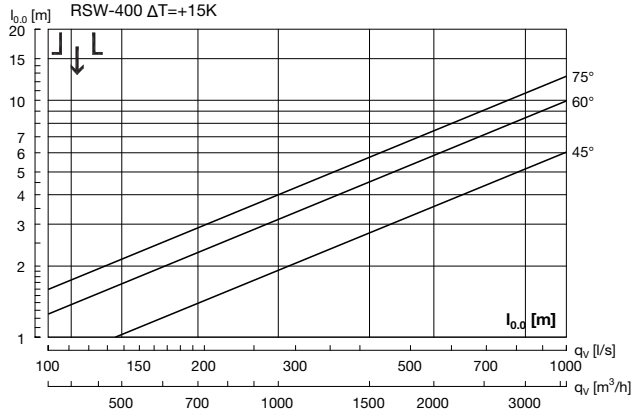
RSW-400 ΔT=+10K



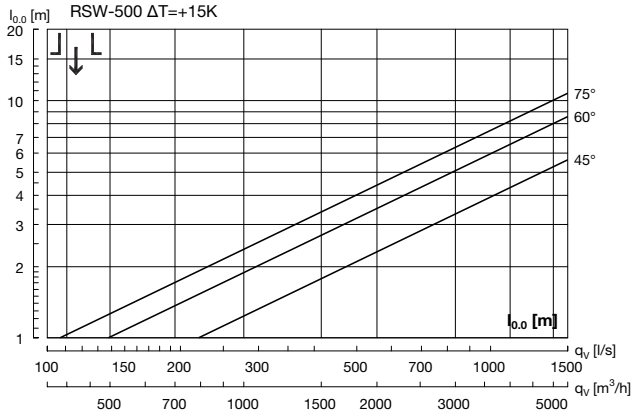
RSW-500 ΔT=+10K



RSW-400 ΔT=+15K



RSW-500 ΔT=+15K



Performance Data

