

**RWR-4
(RAL9010)**

- Variable swirl diffusers
- Manually adjustable blades
- Steel aluminium
- White, RAL 9010



Variable swirl diffusers type RWR-4 (RAL9010)

Circular adjustable swirl ceiling diffuser for high ceiling

Application

- For air supply in ventilation and air conditioning systems

Material

- Combination of steel and aluminium

Colour

- White, RAL 9010

Composition

- Manually adjustable blades with α = blade angle
- Perforated plate in the collar of the diffuser

Text for tender

- The air supply diffusers for high ceilings are of the swirl type with manually adjustable blades. They are made of steel and aluminium with white powder coating finish RAL 9010.
- Cairox** type **RWR-4**

Other available products

- Motorized versions **RWR 4 B1** (24V on/off) or **RWR 4 B2** (230V on/off) available upon request

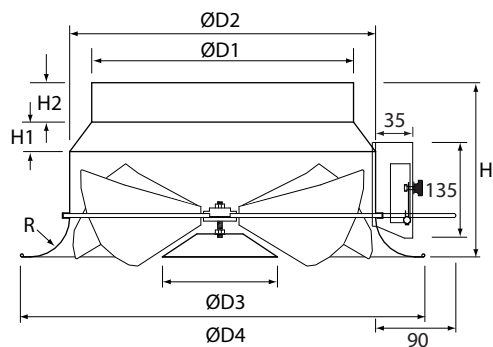
Order example

- RWR-4, 400**

Explanation

RWR-4 = Diffuser type

400 = Neck size of diffuser



	Dimensions							
	D1 [mm]	D2 [mm]	D3 [mm]	D4 [mm]	H [mm]	H1 [mm]	H2 [mm]	R [mm]
RWR-4 200	198	248	96	350	180	20	40	30
RWR-4 250	248	298	133	400	205	30	40	30
RWR-4 315	313	398	175	500	230	30	40	30
RWR-4 400	398	465	175	615	270	45	60	60
RWR-4 500	498	565	225	780	320	35	60	80
RWR-4 630	628	665	273	935	390	25	80	100
RWR-4 800	798	798	368	1020	390	0	80	100

		Quick selection						
RWR-4		200	250	315	400	500	630	800
Q	Ak	0.0305	0.0479	0.0765	0.1238	0.194	0.3088	0.4989
	Hm	2,5 - 3,8	3,0 - 5,3	3,3 - 6	4,3 - 7,5	5,5 - 16	7,5 - 26	8,0 - 29
300	B(min)	2.4	1.6					
	Y0.25	1.7	1.3					
	Vk	2.7	1.7					
	Ps	13	5					
	Lw(A)	35	24					
	B(min)	3	2.2	2				
400	Y0.25	2.3	1.8	1.1				
	Vk	3.6	2.3	1.5				
	Ps	22	9	4				
	Lw(A)	44	32	22				
	B(min)	3.8	2.8	2				
	Y0.25	2.9	2.2	1.4				
500	Vk	4.6	2.9	1.8				
	Ps	34	13	5				
	Lw(A)	51	39	24				
	B(min)		3.4	2.4	2.8			
	Y0.25		2.7	1.7	1			
	Vk		3.5	2.2	1.3			
600	Ps		20	7	4			
	Lw(A)		44	29	22			
	B(min)			3	2.8			
	Y0.25			2.2	1.3			
	Vk			2.9	1.8			
	Ps			14	5			
800	Lw(A)			38	25			
	B(min)			3.8	2.8	3.4		
	Y0.25			2.8	1.7	2.2		
	Vk			3.6	2.2	1.4		
	Ps			22	9	4		
	Lw(A)			45	32	22		
1000	B(min)				5.4	4	4.2	
	Y0.25				3.4	4.6	3.5	
	Vk				4.5	2.9	1.8	
	Ps				34	13	5	
	Lw(A)				53	40	24	
	B(min)					6	4.4	3
2000	Y0.25					7	5.5	3.2
	Vk					4.3	2.7	1.7
	Ps					31	13	4
	Lw(A)					52	35	23
	B(min)						5.8	3.8
	Y0.25						7.5	4.6
3000	Vk						3.6	2.2
	Ps						22	7
	Lw(A)						44	30
	B(min)						7.2	4.8
	Y0.25						9.6	6
	Vk						4.5	2.8
4000	Ps						34	13
	Lw(A)						51	37
	B(min)							5.8
	Y0.25							7.5
	Vk							3.3
	Ps							18
5000	Lw(A)							43
	B(min)							
	Y0.25							
	Vk							
	Ps							
	Lw(A)							

Symbols and specifications

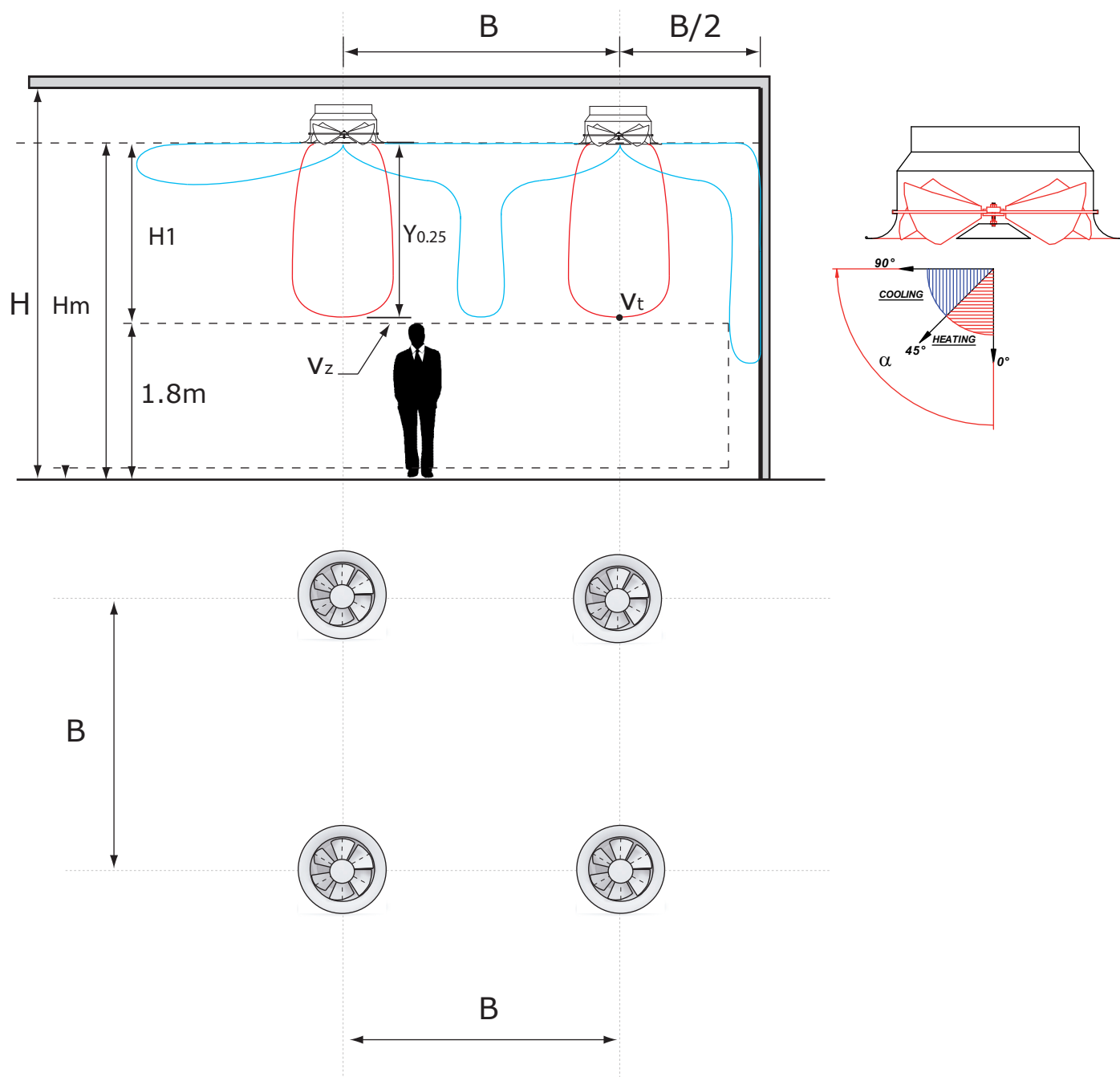
- Q = Air volume in m³/h
- Ak = Effective surface (free area) of the neck of the diffuser in m²
- Hm = Advised minimum - maximum mounting height in m
- Bmin = Advised minimum distance between diffusers in m
- Y0.25 = Maximum throw depth in m at end velocity Vt of 0,25 m/s
- Vk = Air velocity trough the neck of the diffuser in m/s

- P_s = Static pressure loss in Pa
- $L_w(A)$ = Acoustic power in dB(A)
- The values are given for isothermal supply air without Coanda effect.
- The values in the table are given at an inclination angle α of the vanes of the diffuser set at 45° .
- In order to achieve a high comfort level, the angle of the blades can be set according to the temperature difference Δt between the supply air and room air temperature. (see selection graphs)
- Acoustic powers below 20dB(A) are mentioned as "<20" in the tables.
- For all special requirements, please contact our engineering office.

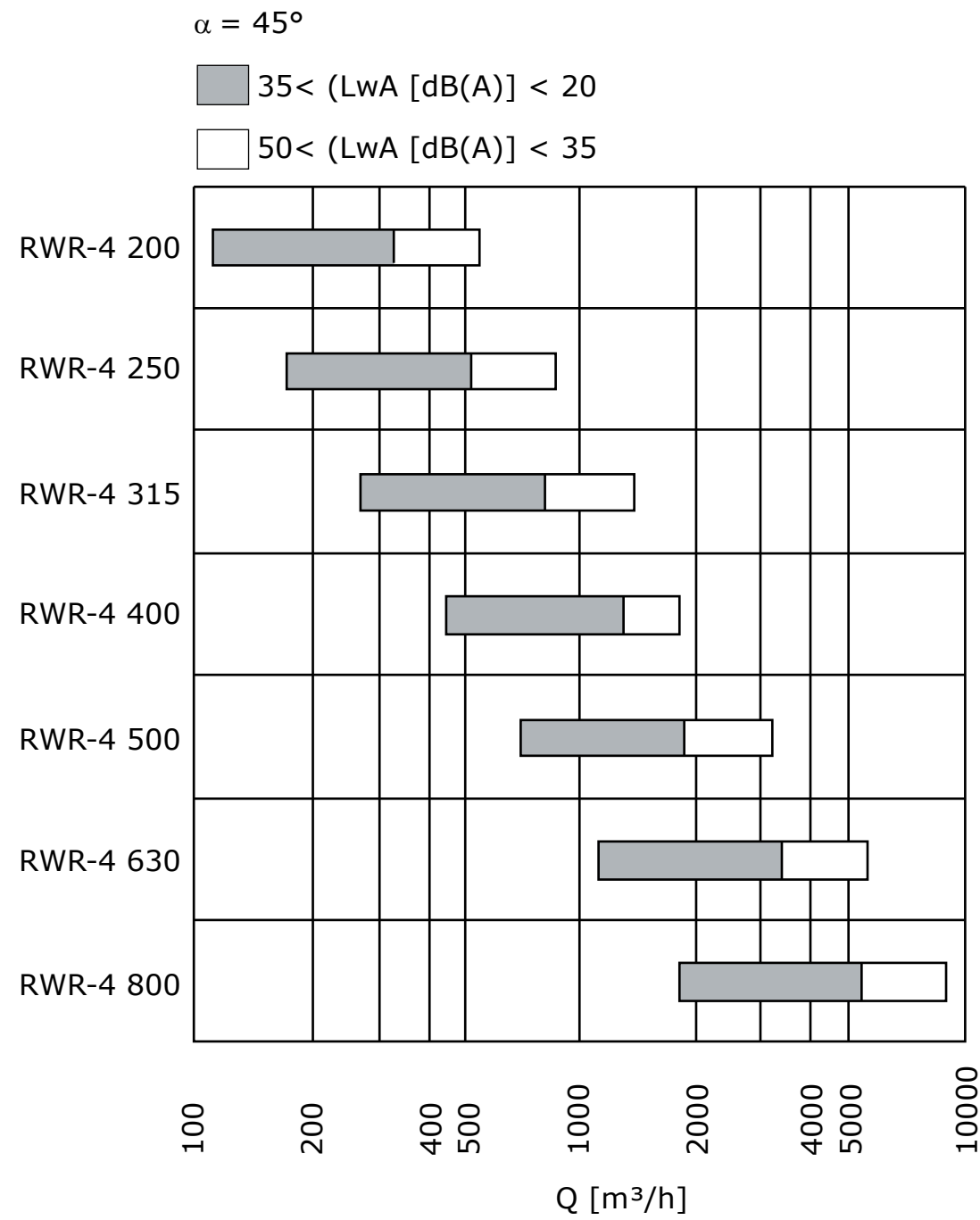
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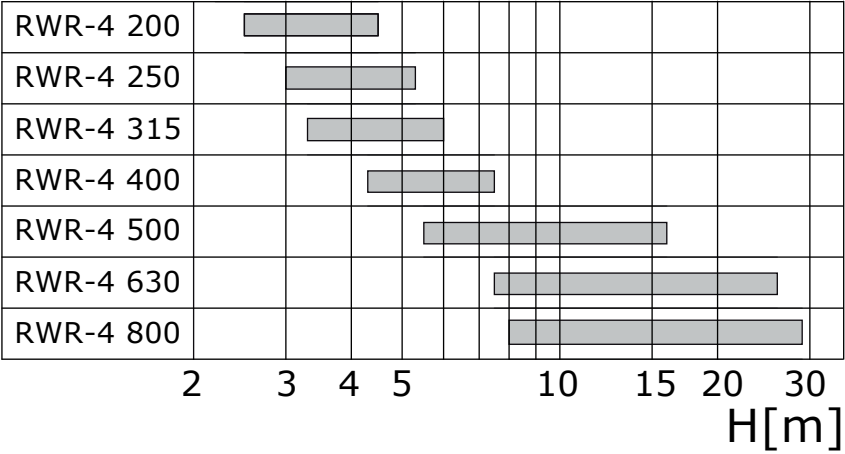
Placement instruction



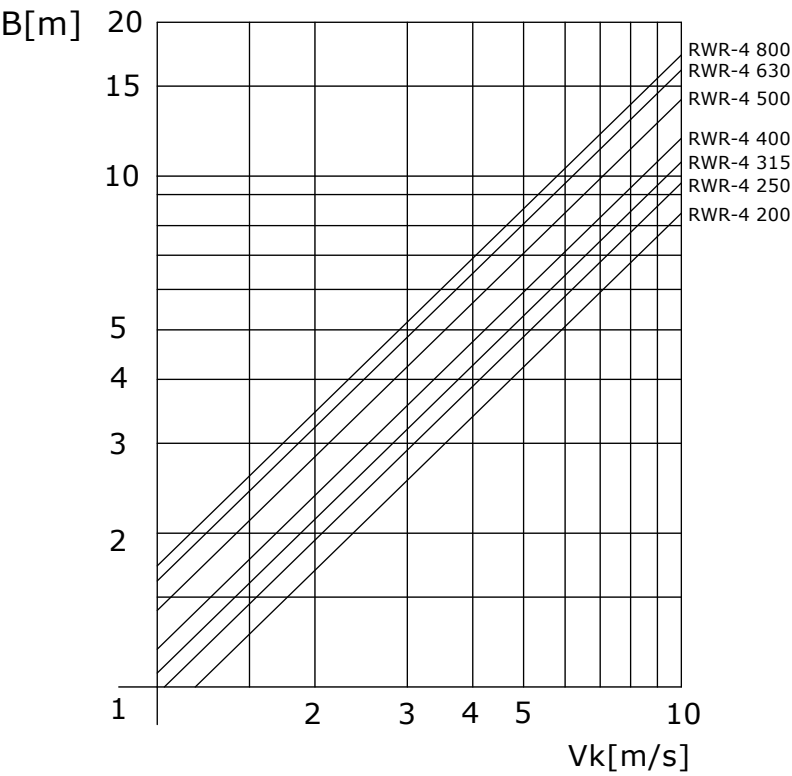
Noise selection table



Placement height selector



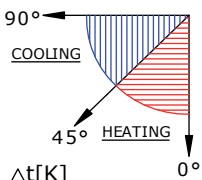
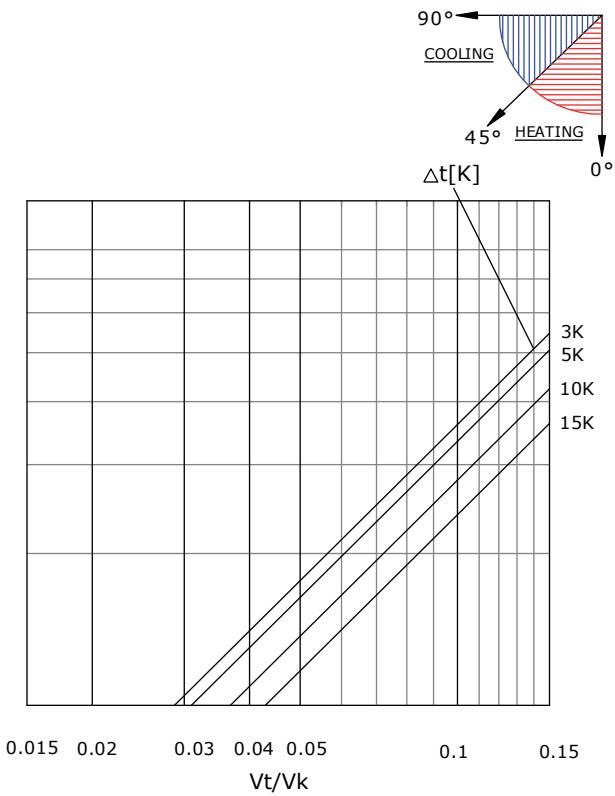
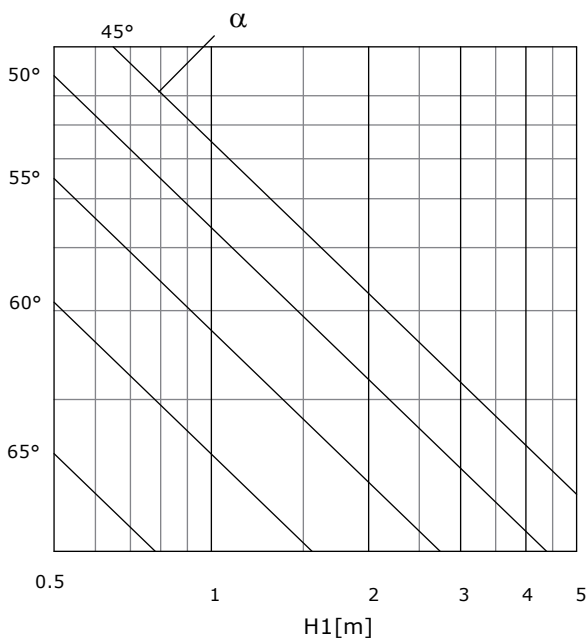
Minimum distance selection



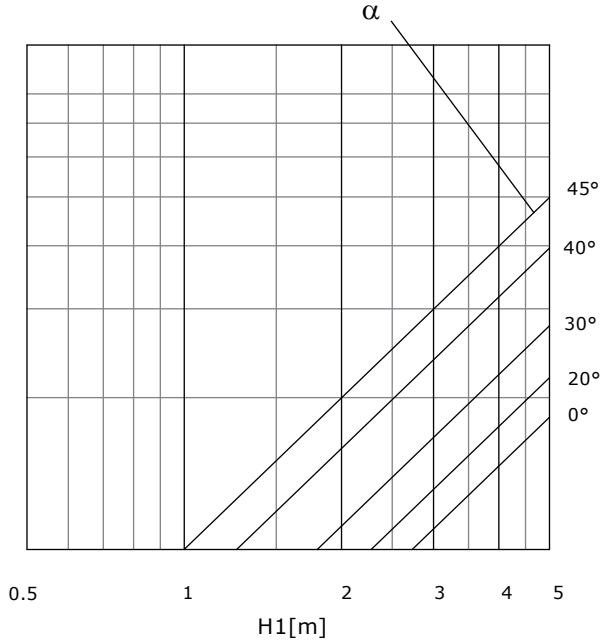
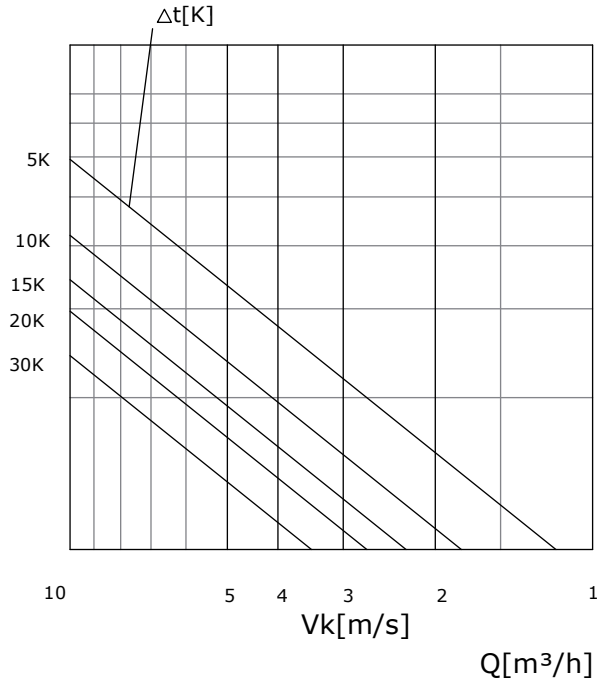
Angle setting size 200

α -setting RWR-4 200

COOLING



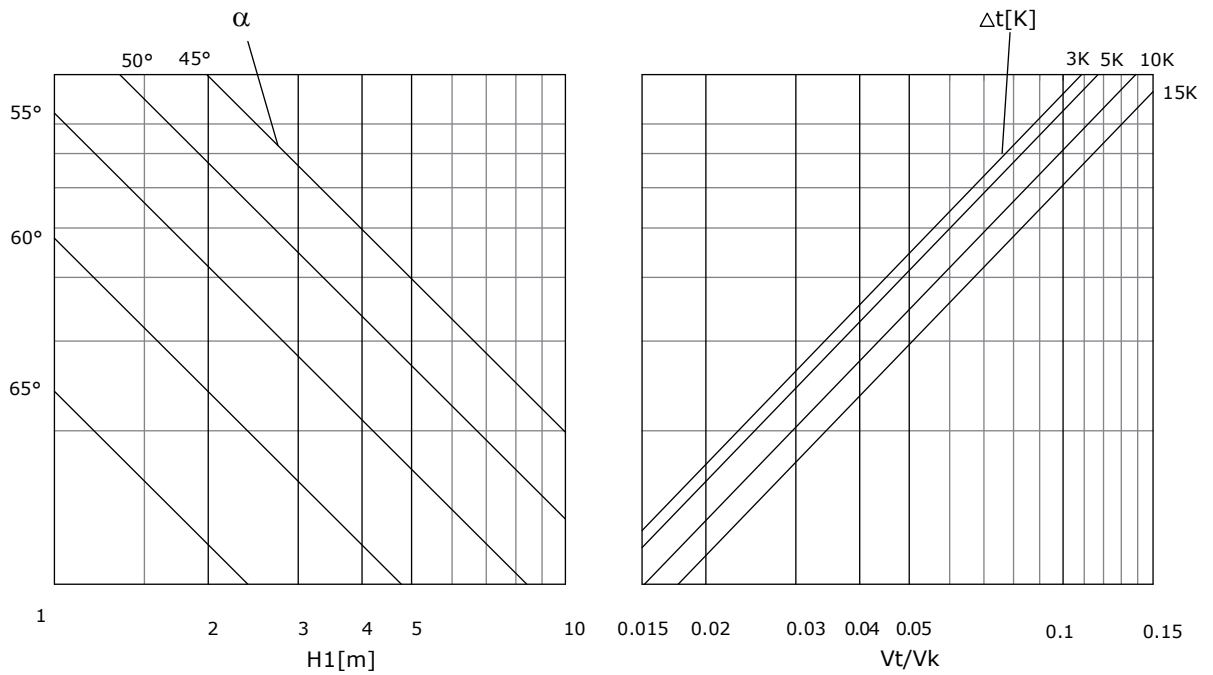
HEATING



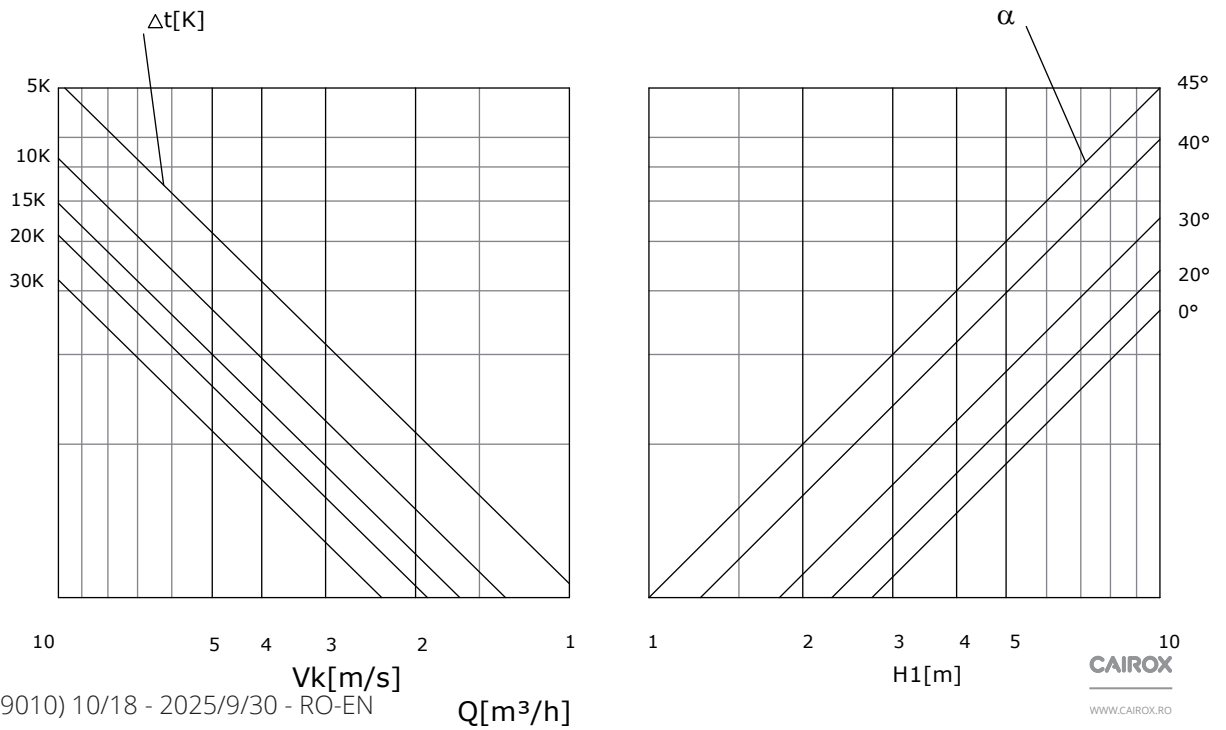
Angle setting size 315

α -setting RWR-4 315

COOLING



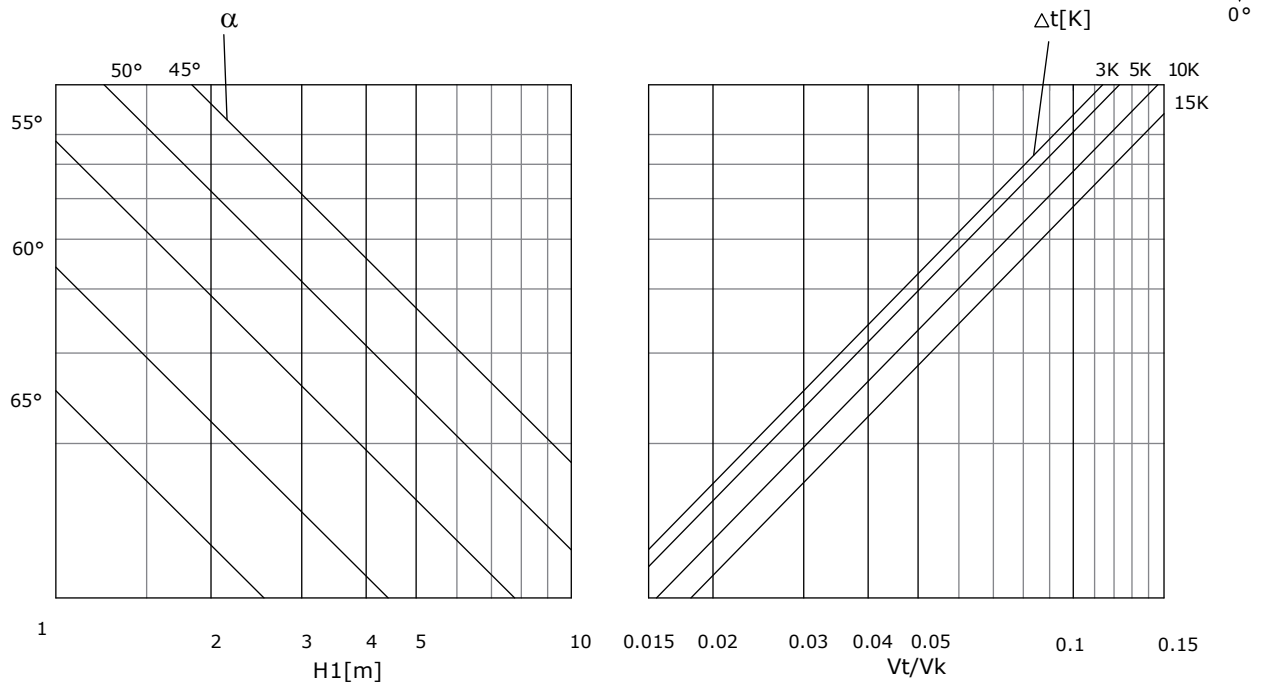
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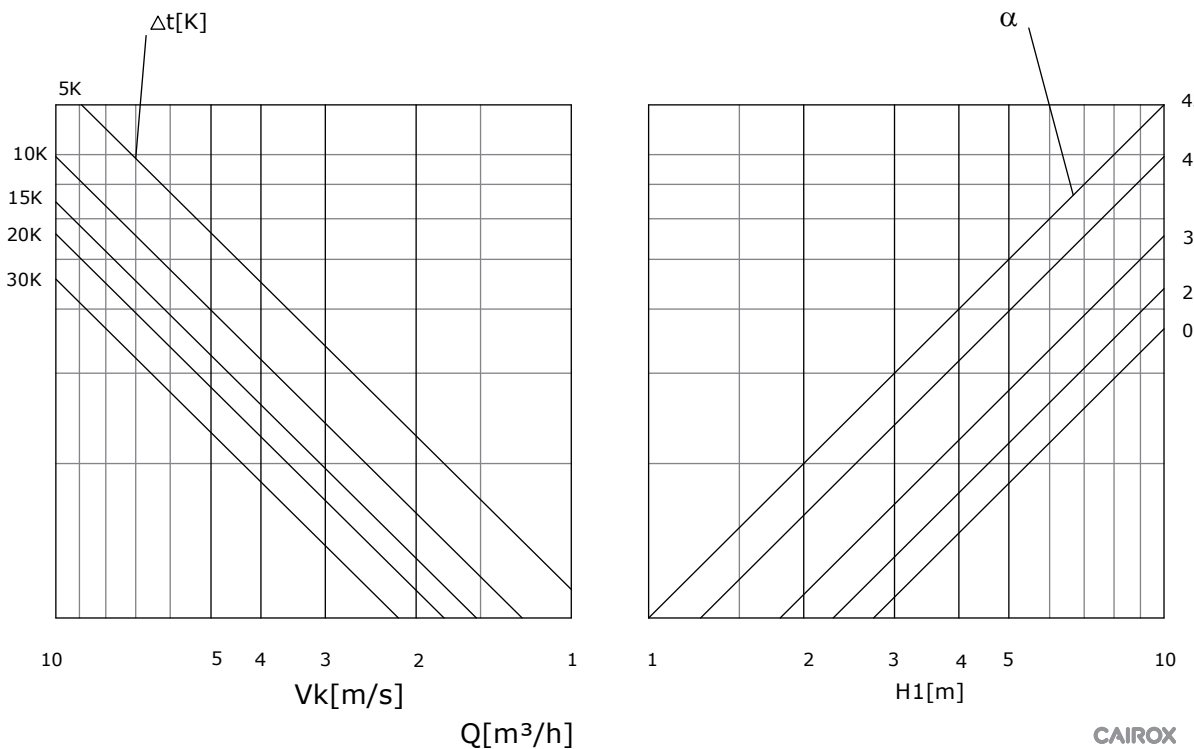
Angle setting size 400

α -setting RWR-4 400

COOLING



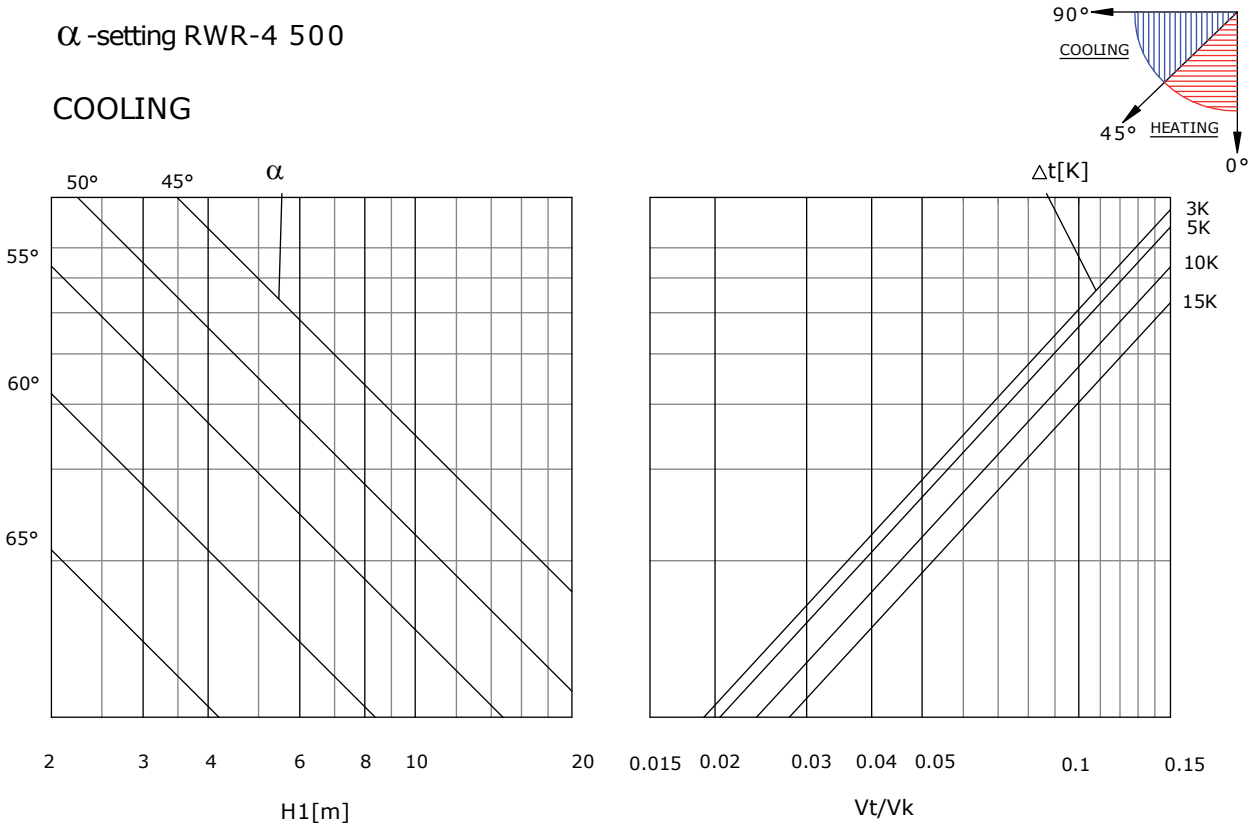
HEATING



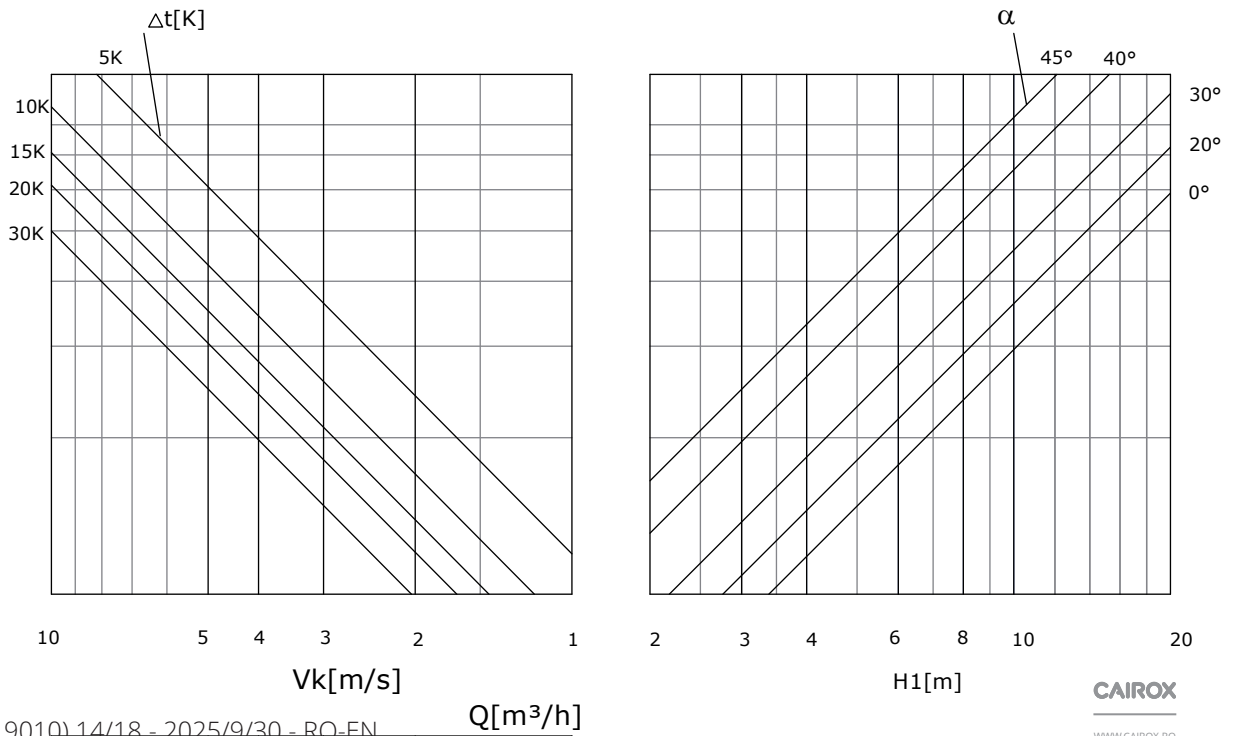
Angle setting size 500

α -setting RWR-4 500

COOLING



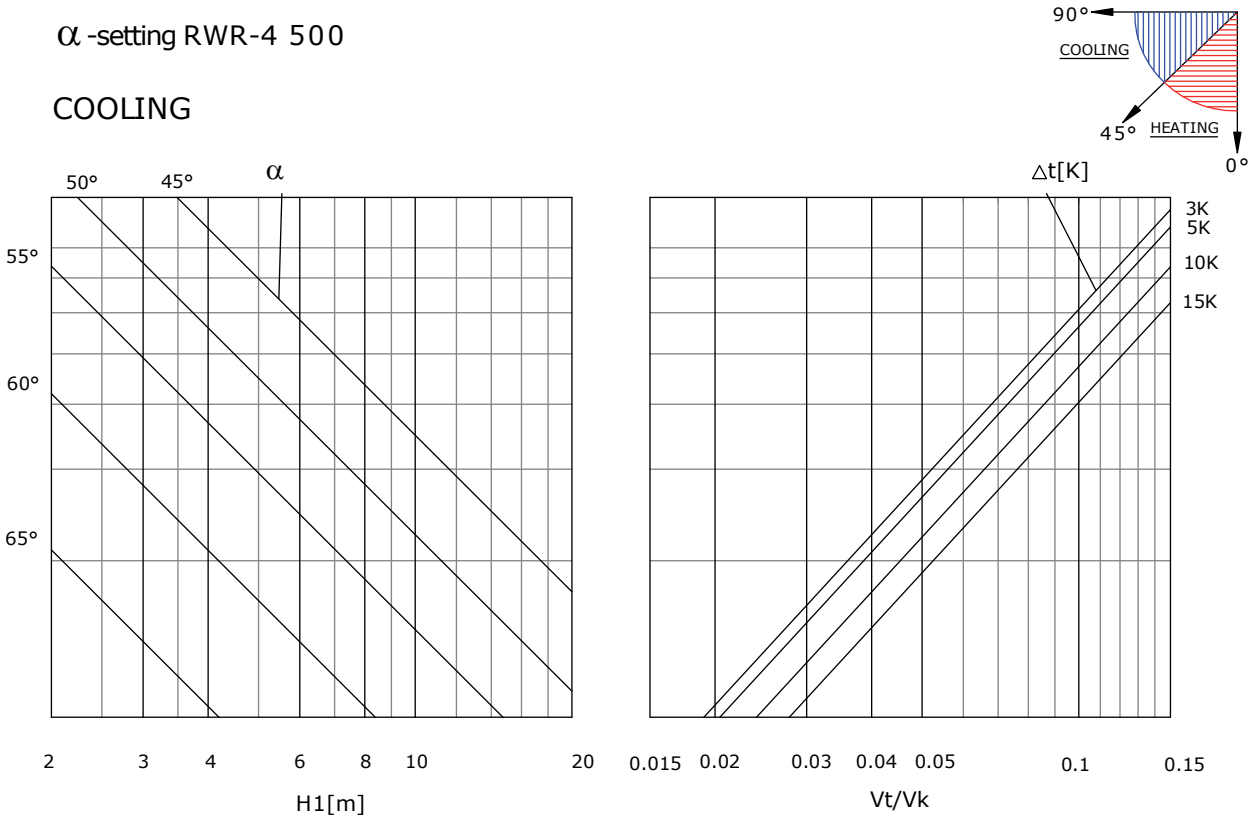
HEATING



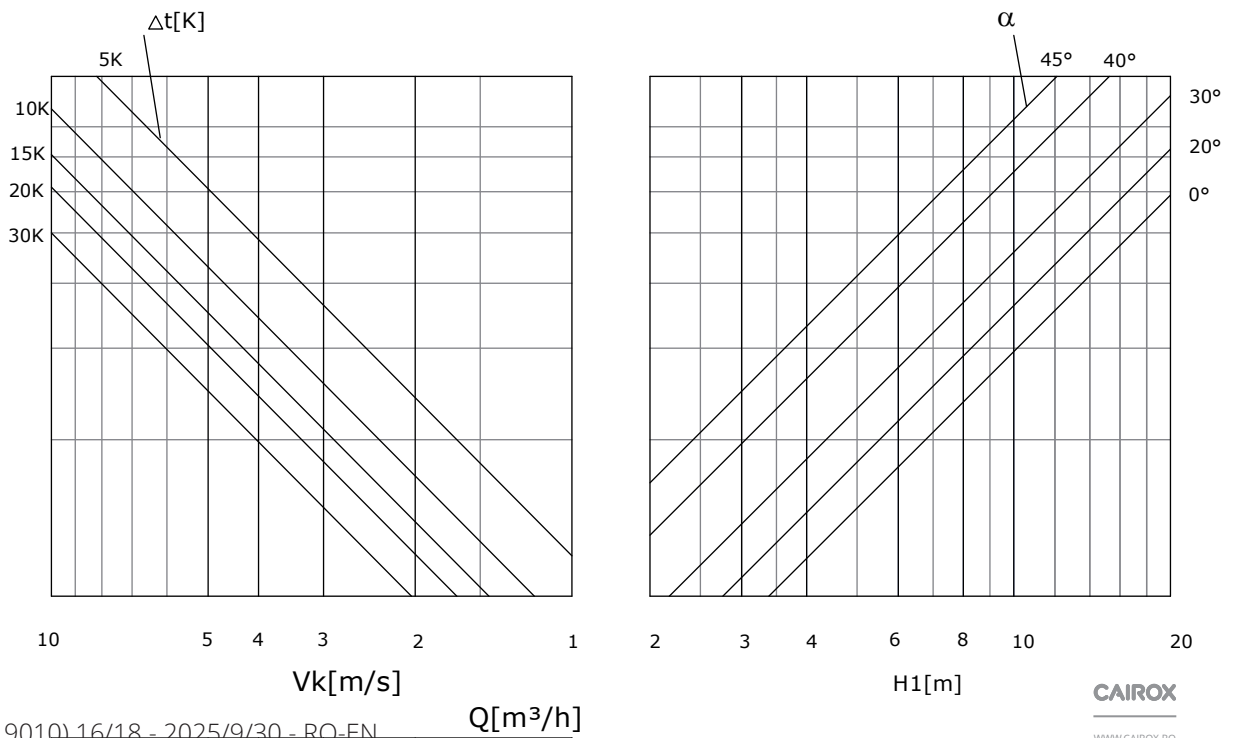
Angle setting size 630

α -setting RWR-4 500

COOLING



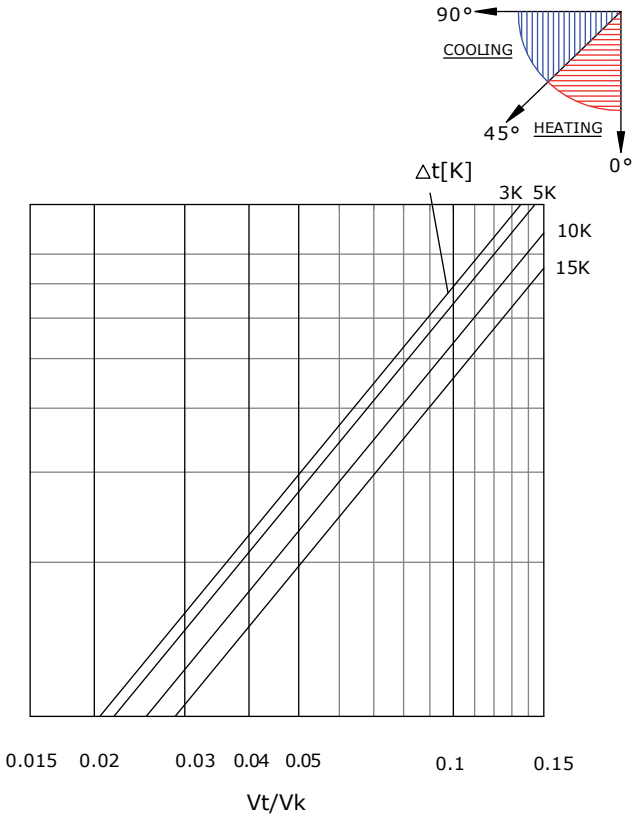
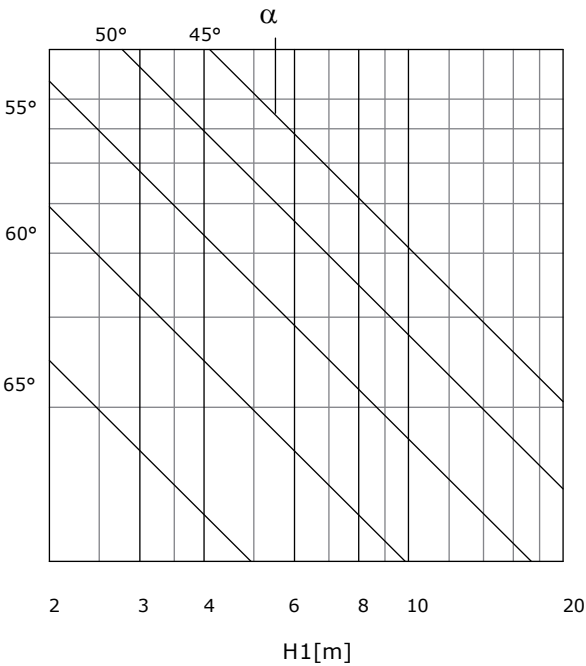
HEATING



Angle setting size 800

α -setting RWR-4 800

COOLING



HEATING

