

**PS/RWR-4
(RAL9010)**

- Variable swirl diffusers
- Square
- Steel and aluminium
- White, RAL 9010



Variable swirl diffusers type PS/RWR-4 (RAL9010)

Adjustable swirl ceiling diffuser for high ceiling

Application

- For air supply in ventilation and air conditioning systems

Material

- Steel and aluminium combination

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 **PS/RWR-4**

Other available products

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

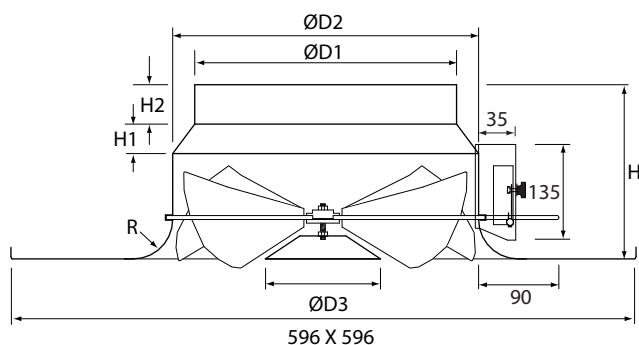
Order example

- PS/RWR-4, 315**

Explanation

PS/RWR-4 = Diffuser type

315 = Neck size of diffuser



Type	Dimensions						
	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	R [mm]
PS/RWR-4 200	198	248	96	180	20	40	30
PS/RWR-4 250	248	298	133	205	30	40	30
PS/RWR-4 315	313	398	175	230	30	40	30

PS/RWR-4		Quick selection		
		200	250	315
Q	Ak	0.0305	0.0479	0.0765
	Hm	2,5 - 3,8	3,0 - 5,3	3,3 - 6
	B(min)	2.4	1.6	
	Y0.25	1.7	1.3	
	Vk	2.7	1.7	
	Ps	13	5	
300	Lw(A)	35	24	
	B(min)	3	2.2	2
	Y0.25	2.3	1.8	1.1
	Vk	3.6	2.3	1.5
	Ps	22	9	4
	Lw(A)	44	32	22
400	B(min)	3.8	2.8	2
	Y0.25	2.9	2.2	1.4
	Vk	4.6	2.9	1.8
	Ps	34	13	5
	Lw(A)	51	39	24
	B(min)		3.4	2.4
500	Y0.25		2.7	1.7
	Vk		3.5	2.2
	Ps		20	7
	Lw(A)		44	29
	B(min)			3
	Y0.25			2.2
600	Vk			2.9
	Ps			14
	Lw(A)			38
	B(min)			3.8
	Y0.25			2.8
	Vk			3.6
800	Ps			22
	Lw(A)			45
	B(min)			
	Y0.25			
	Vk			
	Ps			
1000	Lw(A)			
	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
- Ps = Static pressure loss in Pa
- Lw(A) = Acoustic power in dB(A)

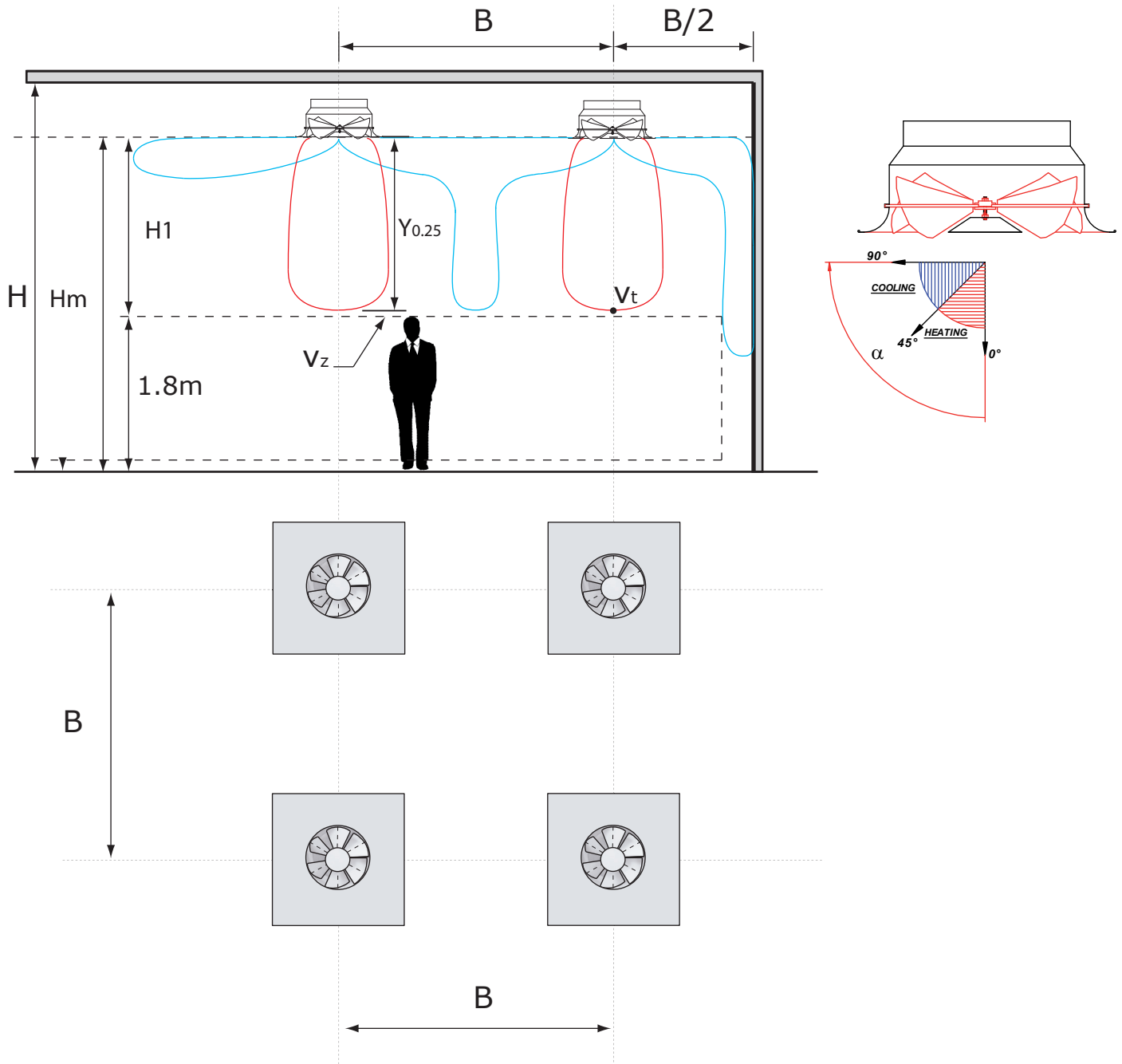
- The values are given for isothermal supply air without Coanda effect.
- The values in the table are given at an inclination angle α of the vanes of the diffuser set at 45°.
- In order to achieve a high comfort level, the angle of the blades can be set according to the temperature difference Δt between 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.

Symbols and specifications

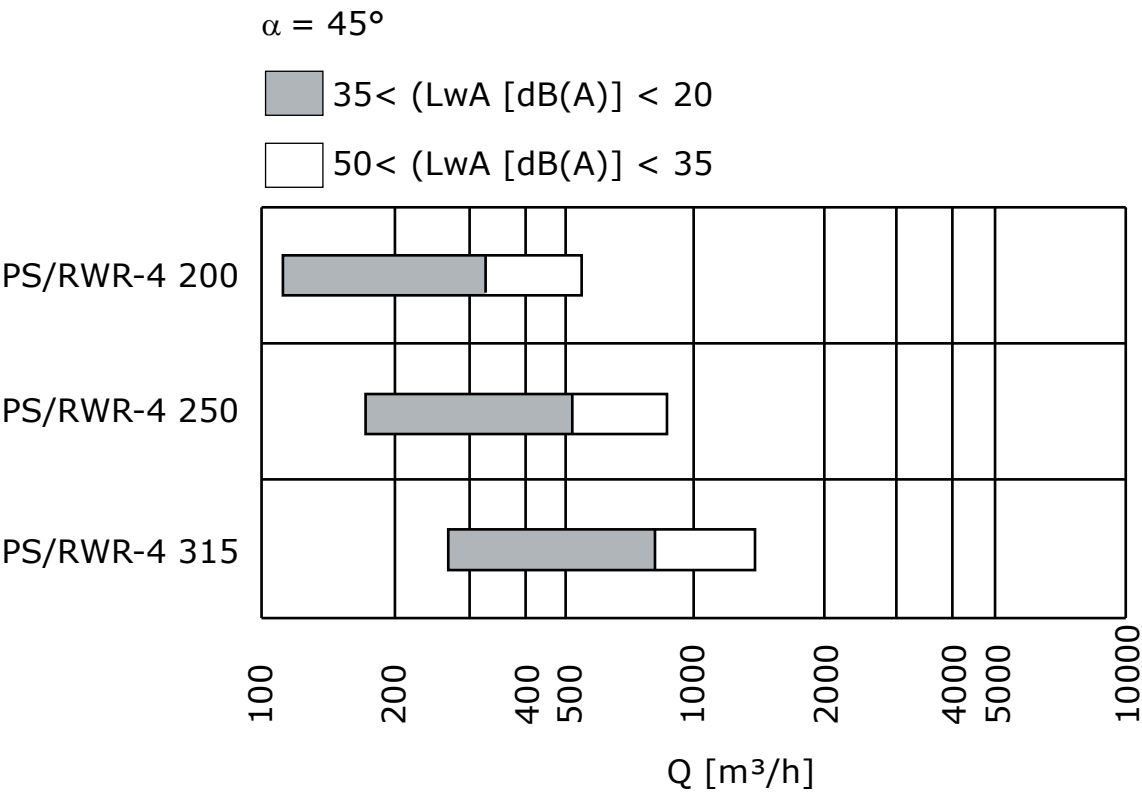
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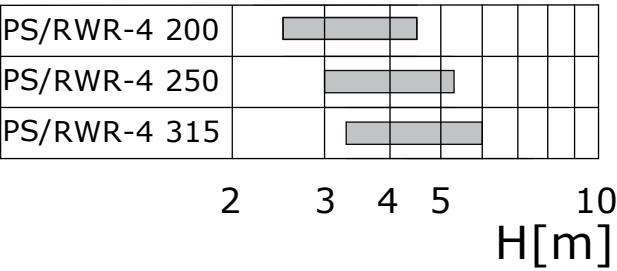
Placement instruction



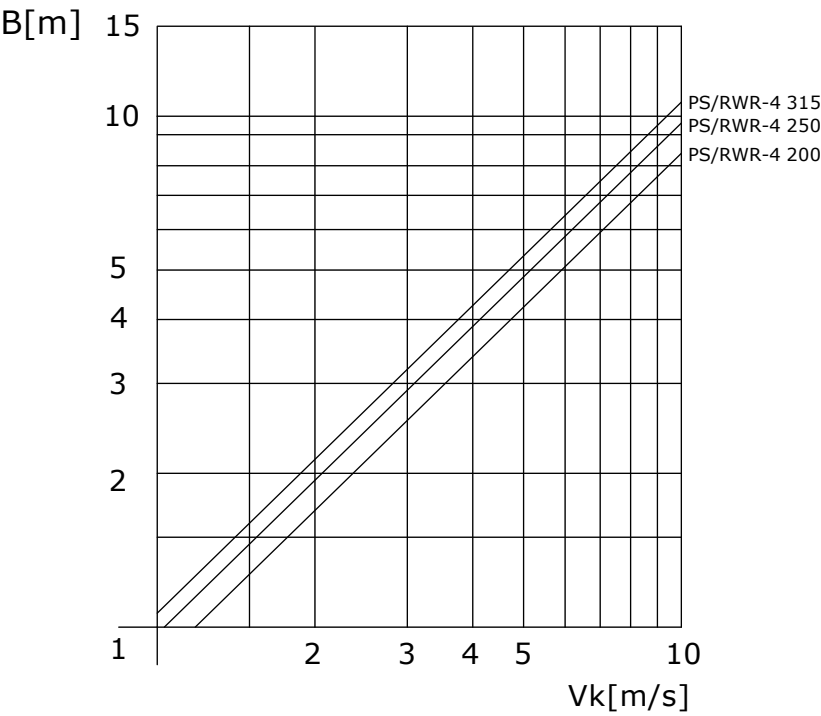
Noise selection table



Placement height selector



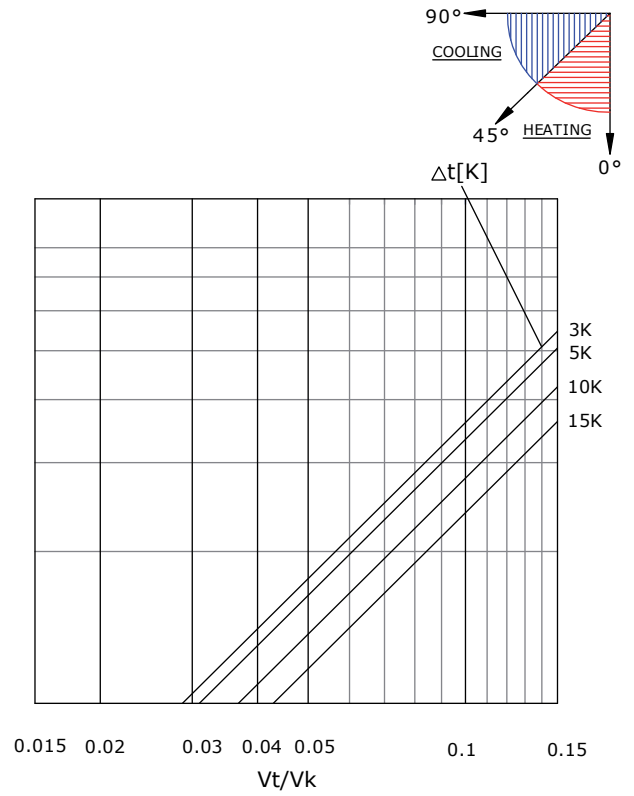
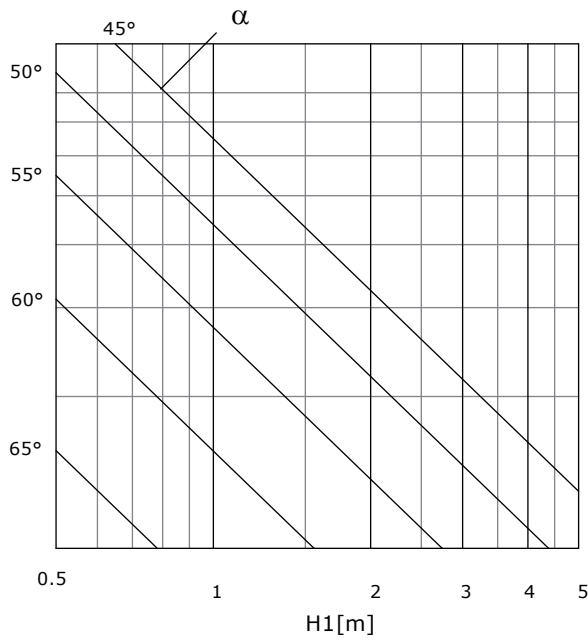
Minimum distance selection



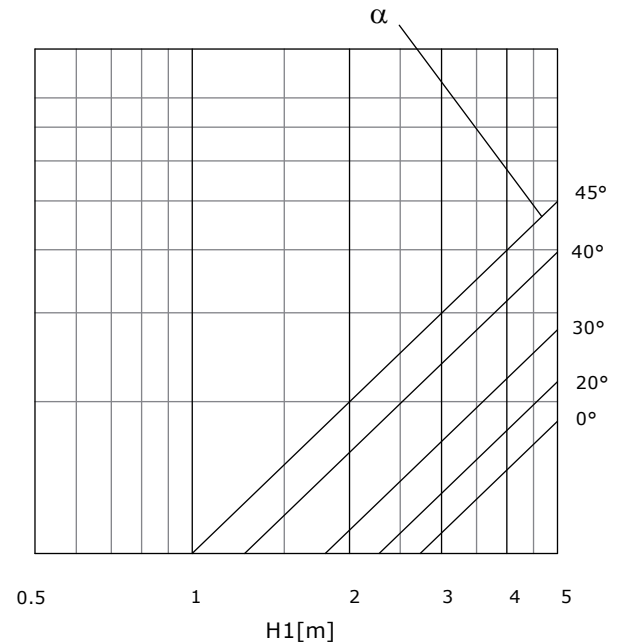
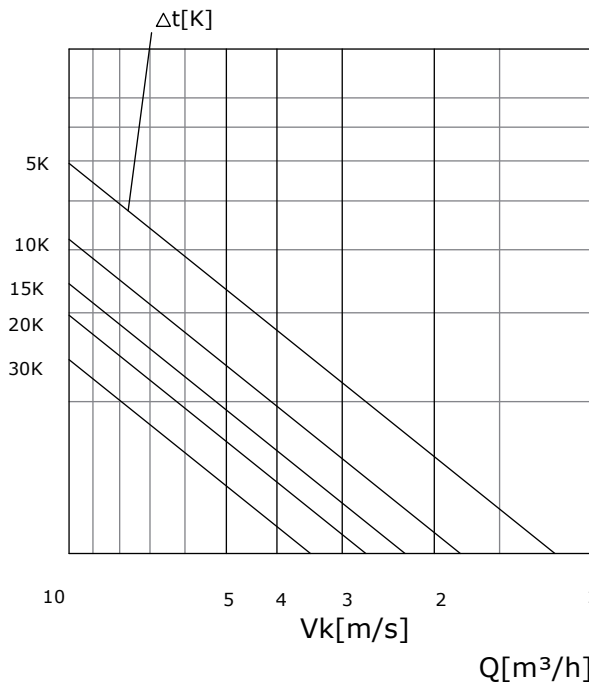
Angle setting size 200

α -setting PS/RWR-4 200

COOLING



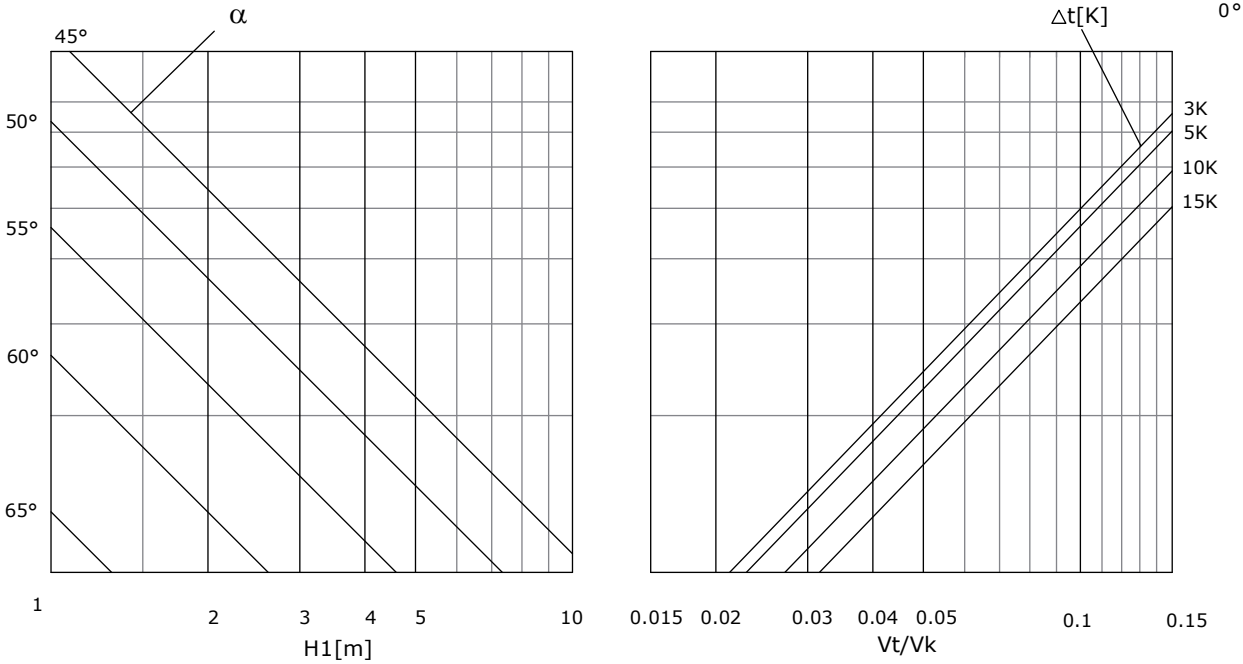
HEATING



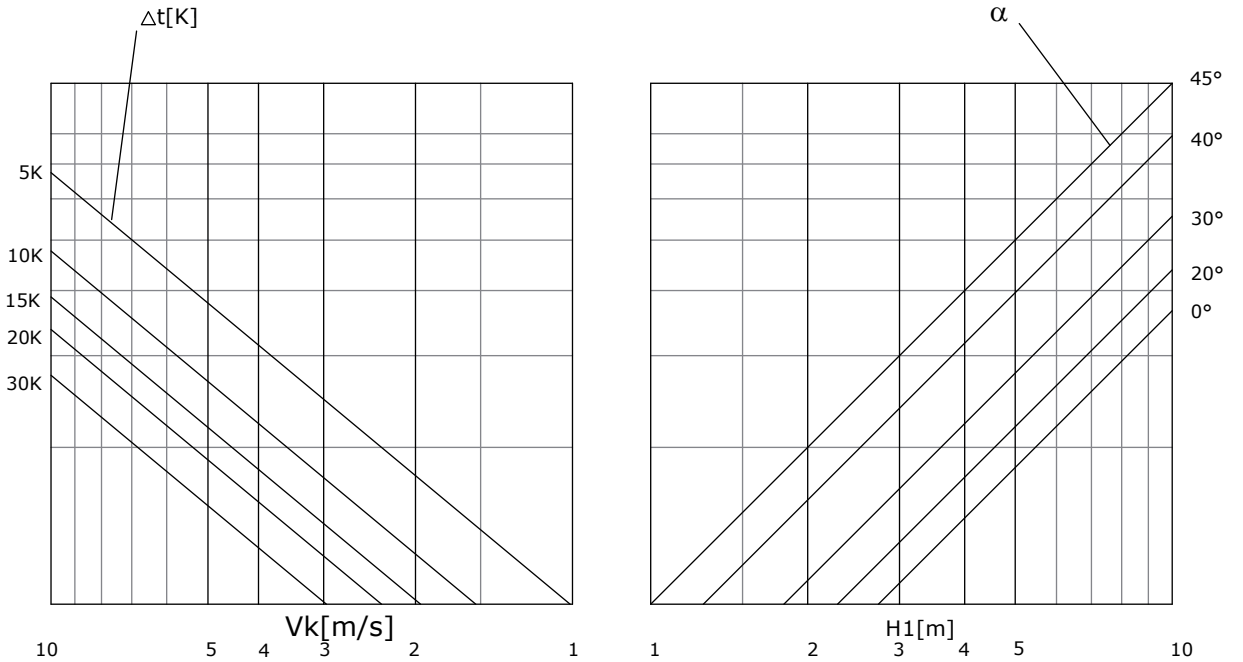
Angle setting size 250

α -setting PS/RWR-4 250

COOLING



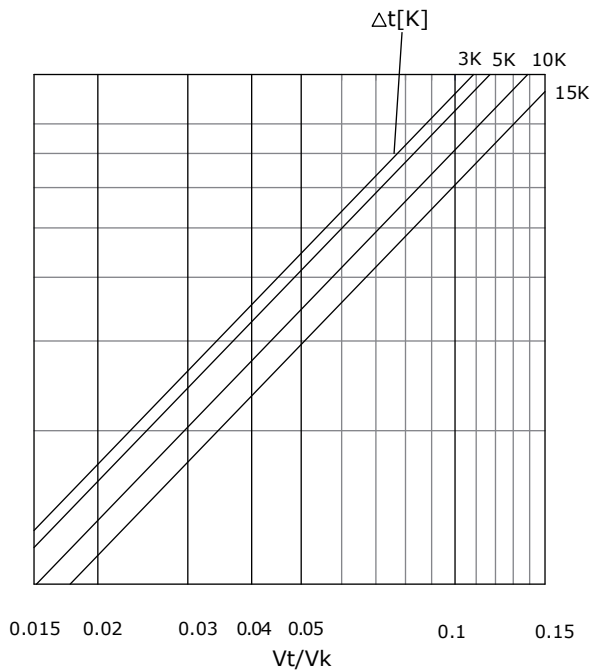
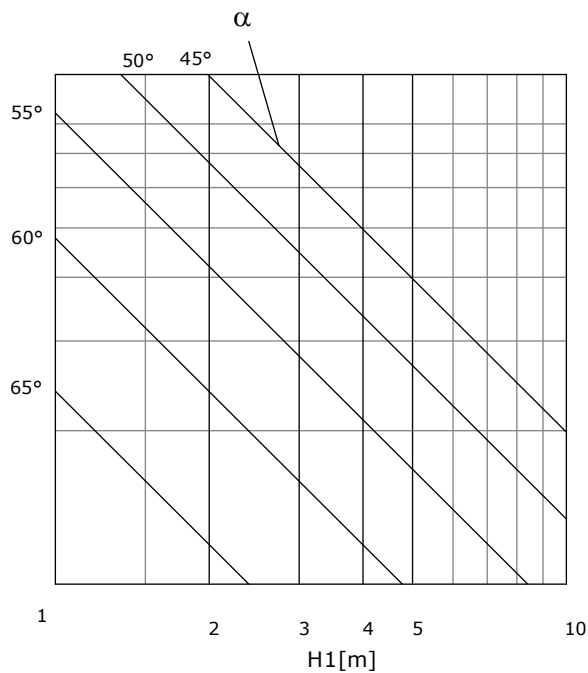
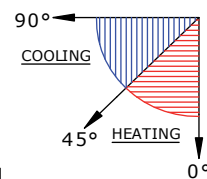
HEATING



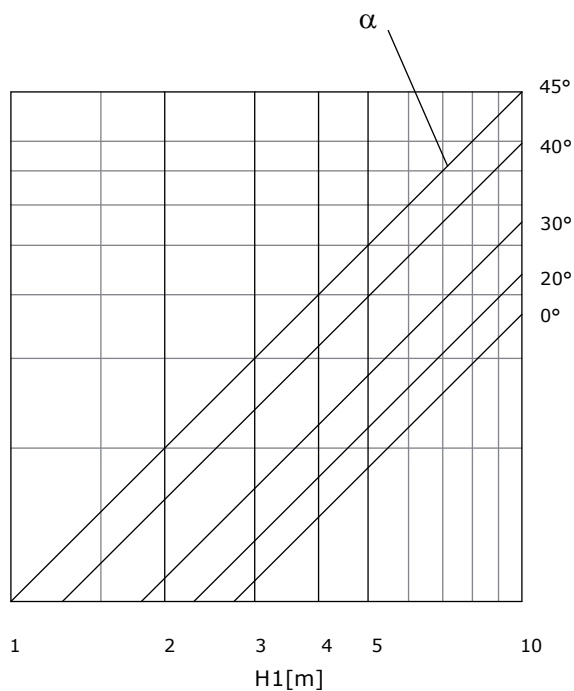
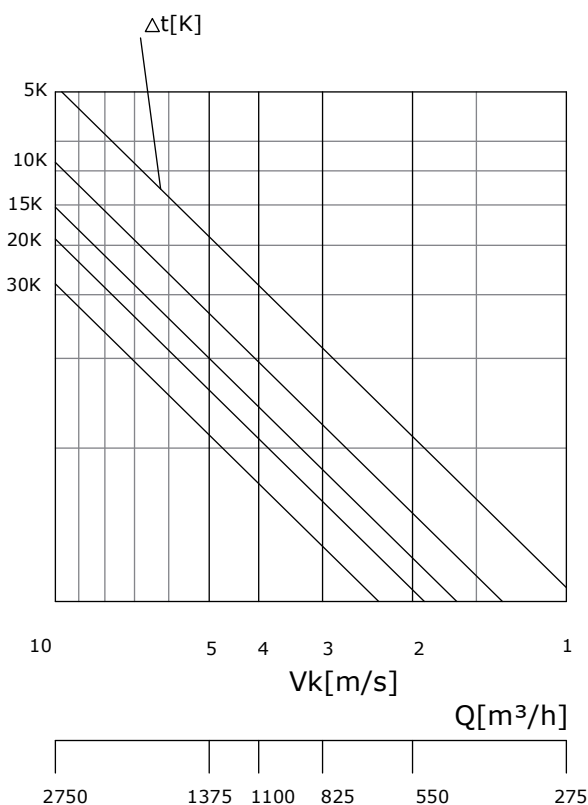
Angle setting size 315

 α -setting PS/RWR-4 315

COOLING



HEATING



Angle setting

- For angle setting see website