

**PS/RWR-4 TS
(RAL9016)**

- Swirl diffusers
- Circular
- Steel
- White, RAL 9016



Variable thermostatic swirl diffusers type PS/RWR-4 TS (RAL9016)

Round thermoadjustable swirl ceiling diffuser for high ceiling
Set blade angle switches automatically between set angles for cooling and heating.

Brand

- Cairox

Application

- For air supply in ventilation and air conditioning systems.

Material

- Steel and aluminium

Colour

- Standard colour white, RAL 9016
- Other colours available upon request

Composition

- Adjustable blades with thermostatical regulator (bimetal)
- Perforated plate in the collar of the diffuser
- α = Blade angle

Order example

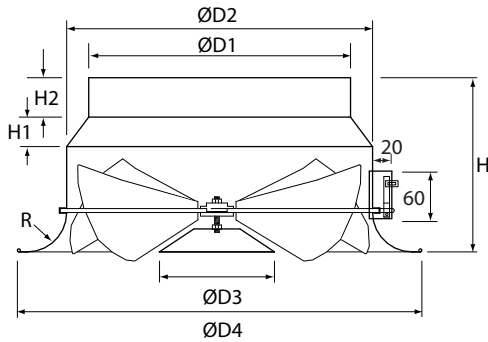
- **PS/RWR-4 TS, 315**

Explanation

PS/RWR-4 = Diffuser type

TS = Thermostatic control element (bi-metal)

315 = Neck size of diffuser



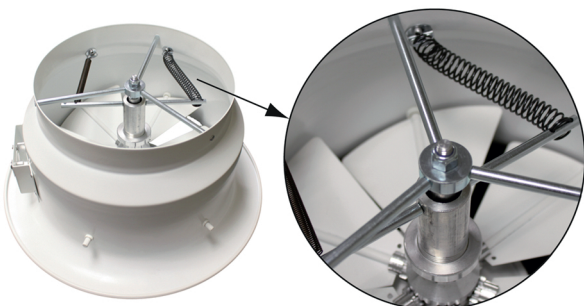
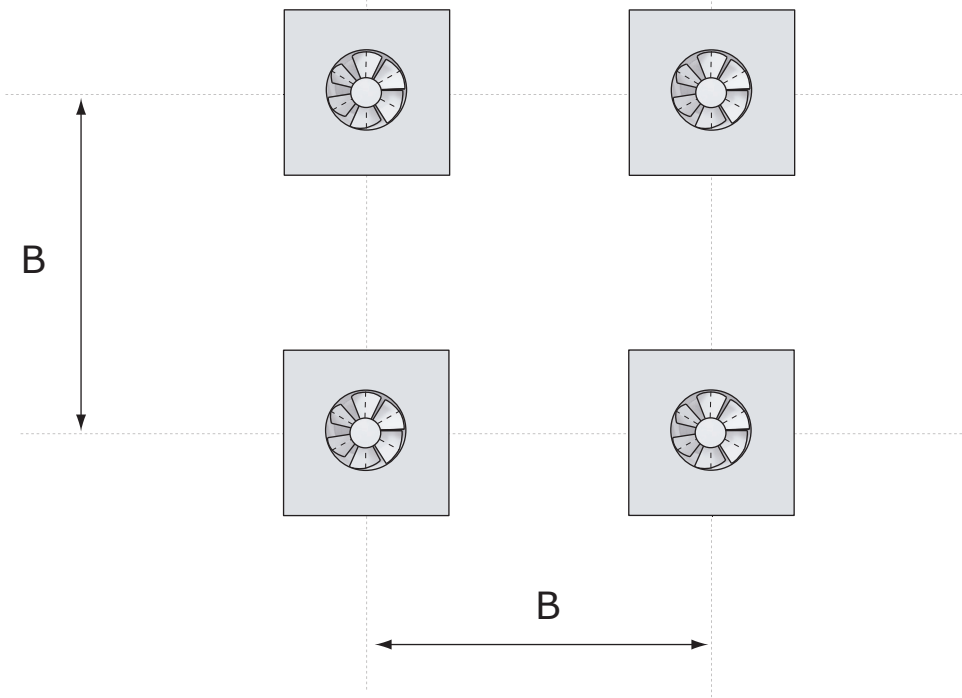
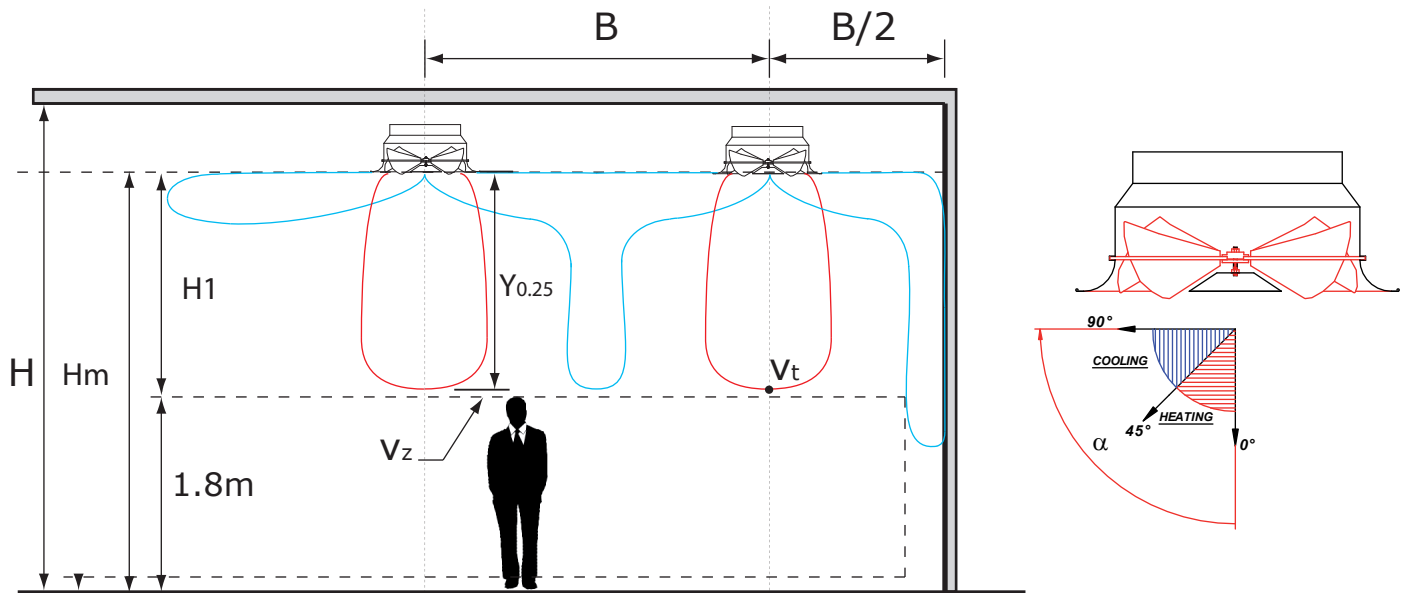
Type	Dimensions						
	D1 [mm]	D2 [mm]	D3 [mm]	H [mm]	H1 [mm]	H2 [mm]	R [mm]
PS/RWR-4 TS 200	198	248	96	180	20	40	30
PS/RWR-4 TS 250	248	298	133	205	30	40	30
PS/RWR-4 TS 315	313	398	175	230	30	40	30

PS/RWR-4 TS		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
300	B(min)	2.4	1.6	
	Vk	2.7	1.7	
	Ps	7	3	
	Lw(A)	33	22	
400	B(min)	3	2.2	
	Vk	3.6	2.3	
	Ps	12	5	
	Lw(A)	42	30	
500	B(min)	3.8	2.8	2
	Vk	4.6	2.9	1.8
	Ps	19	7	3
	Lw(A)	49	37	22
600	B(min)		3.4	2.4
	Vk		3.5	2.2
	Ps		11	4
	Lw(A)		42	27
800	B(min)			3
	Vk			2.9
	Ps			8
	Lw(A)			36
1000	B(min)			3.8
	Vk			3.6
	Ps			12
	Lw(A)			43

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
- 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 are automatically altered according to air supply temperature. The minimum and maximum angle of the blades can mechanically be limited. The ideal set angles can be determined in function of 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.

Placement instruction

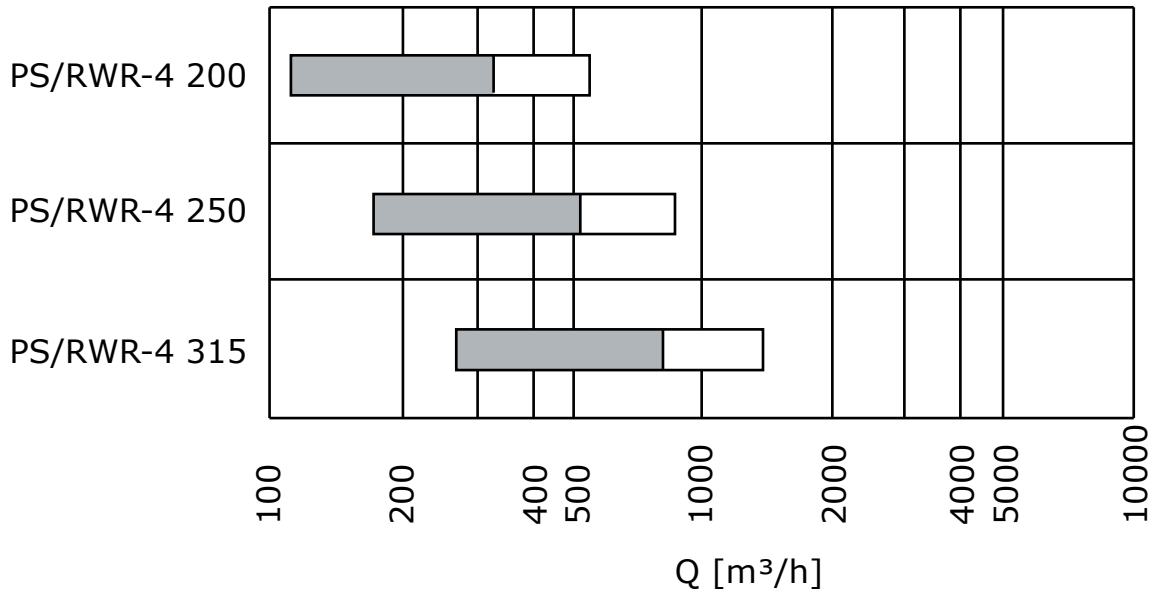


Noise selection table

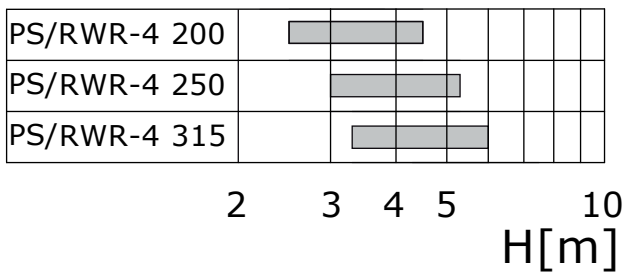
$\alpha = 45^\circ$

■ $35 < (LwA [dB(A)]) < 20$

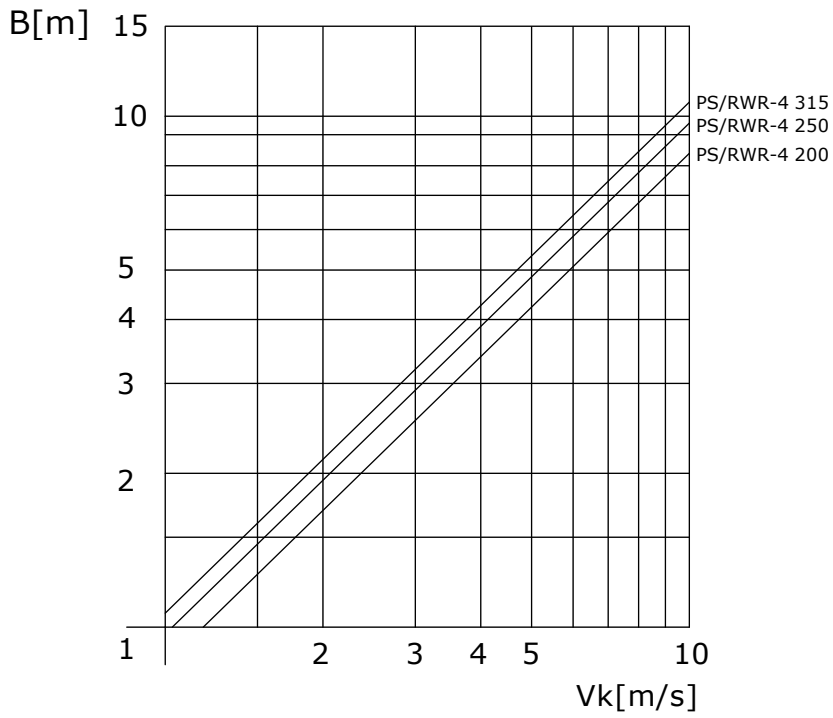
□ $50 < (LwA [dB(A)]) < 35$



Placement height selector



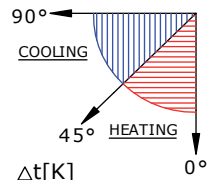
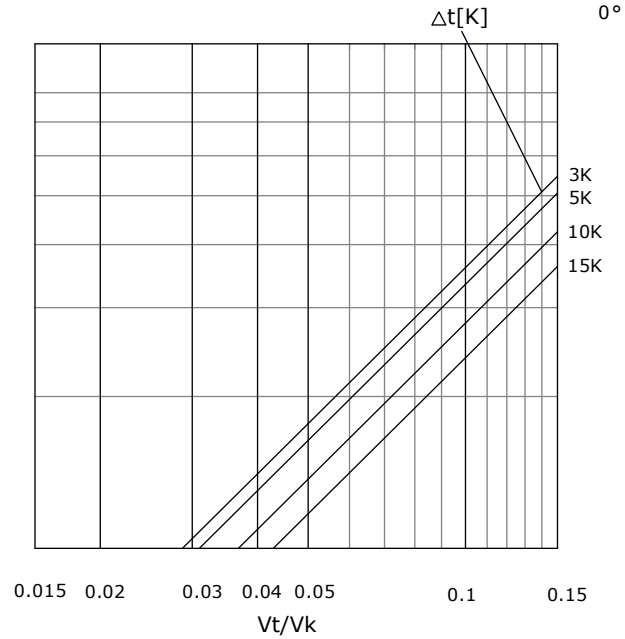
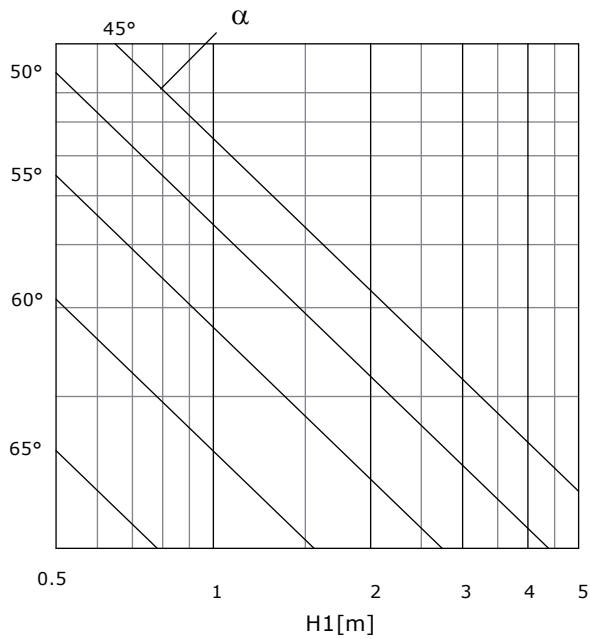
Minimum distance selection



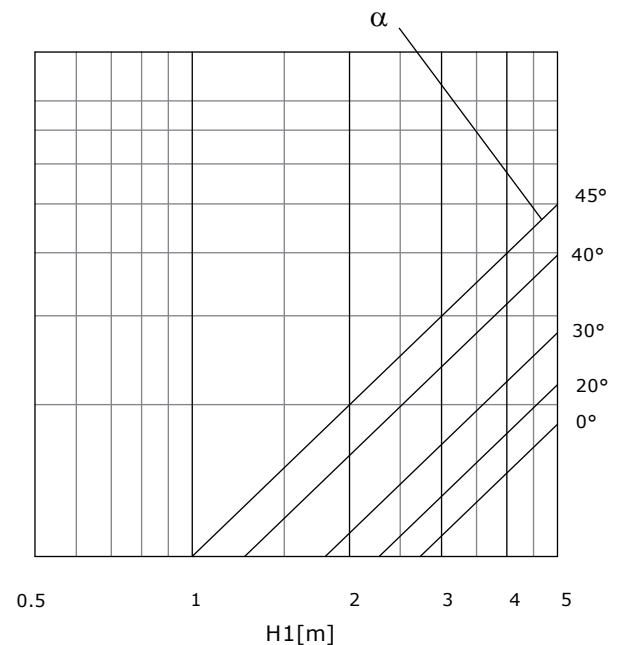
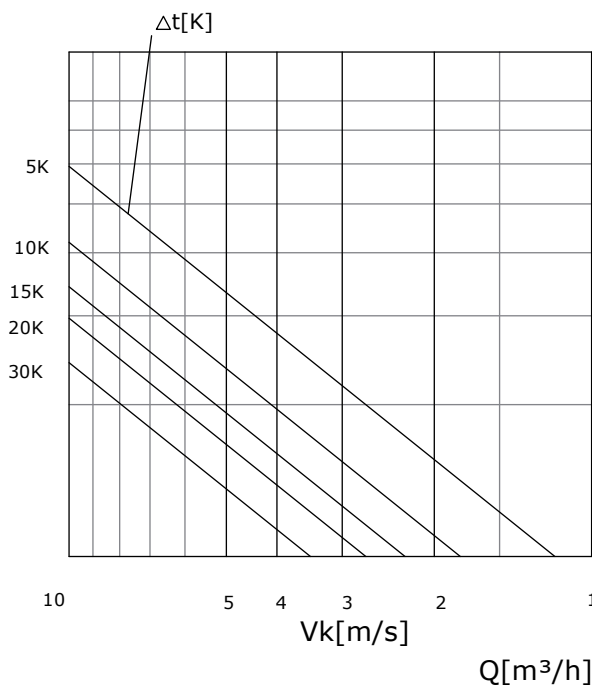
Angle setting size 200

α -setting PS/RWR-4 200

COOLING



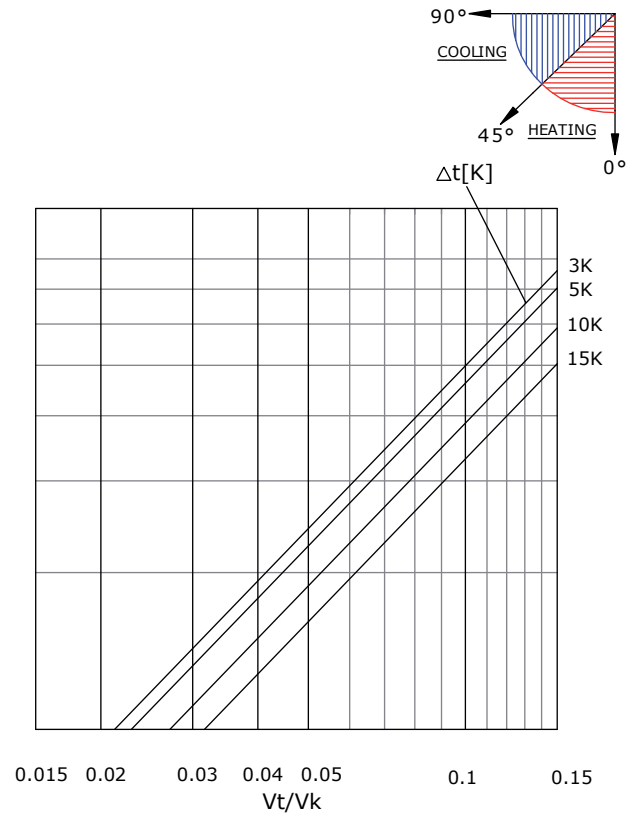
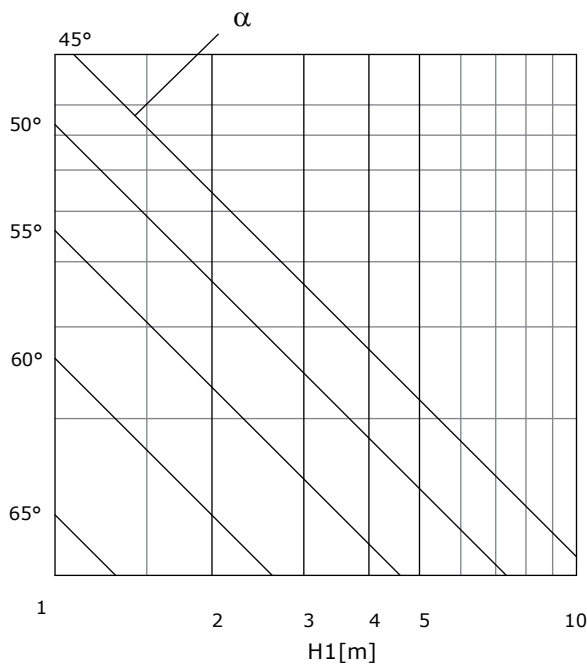
HEATING



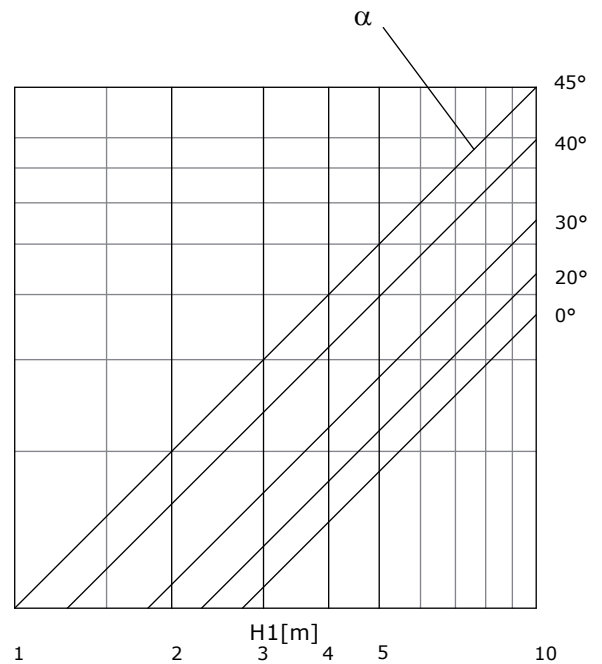
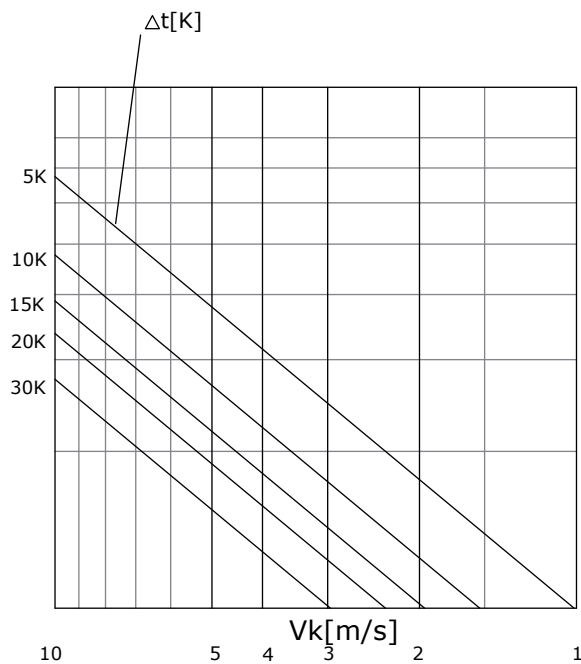
Angle setting size 250

α -setting PS/RWR-4 250

COOLING



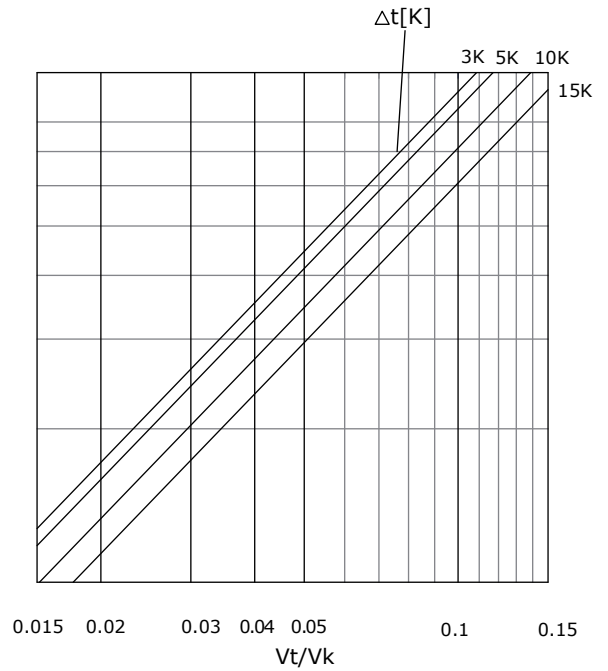
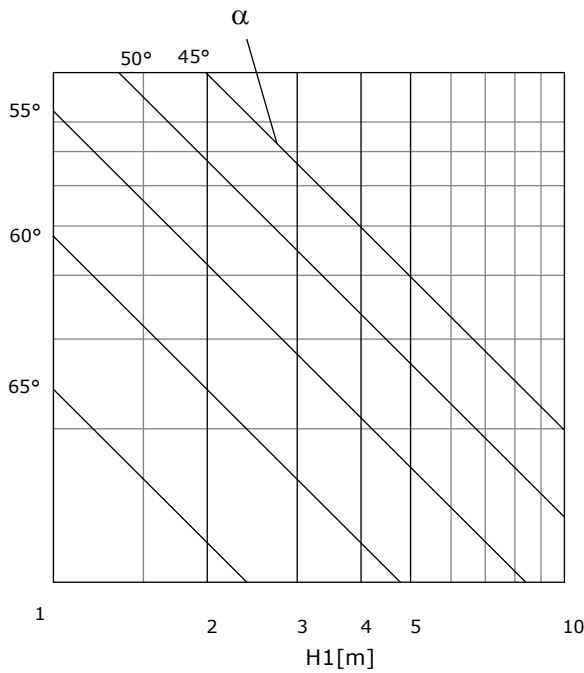
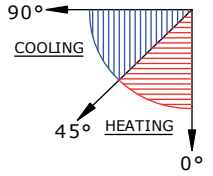
HEATING



Angle setting size 315

α -setting PS/RWR-4 315

COOLING



HEATING

