

Door Air Curtains

ProtecTor

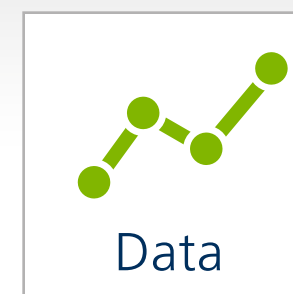
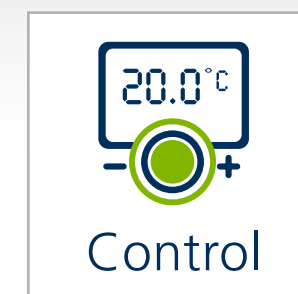
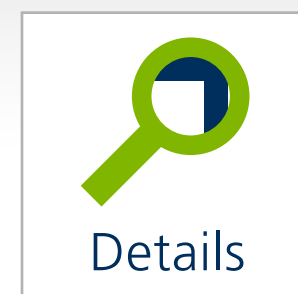
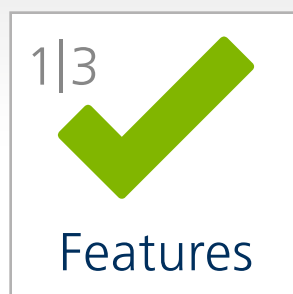
KAMPMAN
Genau mein Klima.

Enhanced space by doorways

Take advantage of enhanced space by improved use of space in spite of open doors, even close to doorways.

Invisible screening

The ProtecTor's ambient air stream and warm air stream are arranged parallel to each other, explaining why only one fan is needed to effectively screen cold air. The interior of the building remains pleasantly draught-free and warm. This technology was patented by the European Patent Office in early 2016.

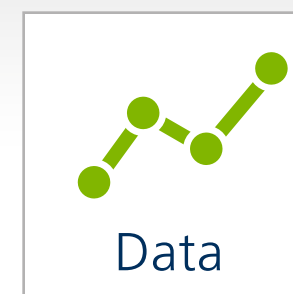
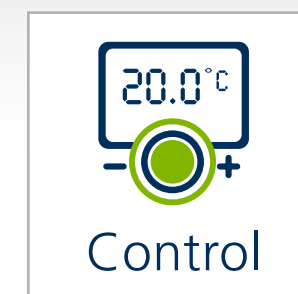
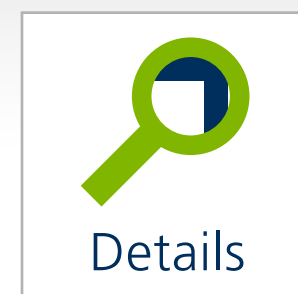
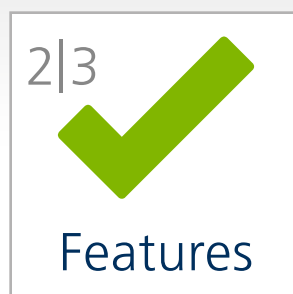


Double for improved savings

The operation of ambient air stream and warm air stream creates energy savings of up to 38 percent compared to conventional systems, resulting in faster payback for your new Kampmann door air curtain. Energy-efficient EC fans also contribute to your savings.

So many to choose from ...

Choose from vertical or horizontal installation and a range of different heat exchangers. Simply take the correct length for your narrow, wide or extra-wide doorway and you've got your perfect ProtecTor.

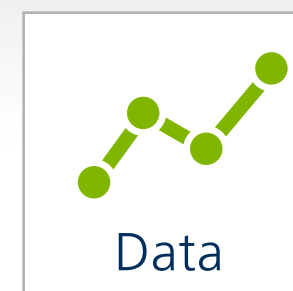
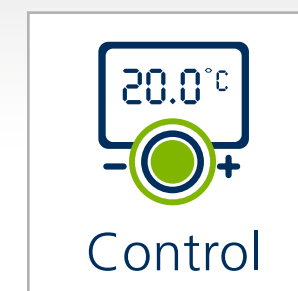
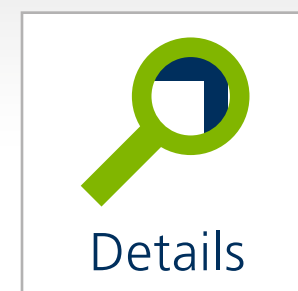
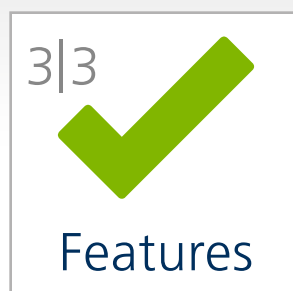


Perfectly controlled

The system is controlled by a stage switch combined with a door contact switch, infinitely variable speed controllers or the state-of-the-art KaControl room automation system. Of course, your special requests are also welcome!

Quickly delivered

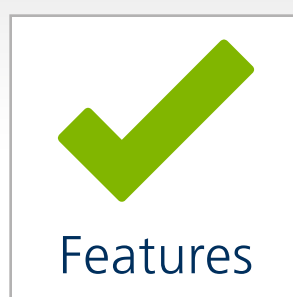
Short delivery times give you flexibility and speed: Standard ProtecTor units can be on your site only seven days after technical clarification. You can rely on us. After all, your customers rely on you.



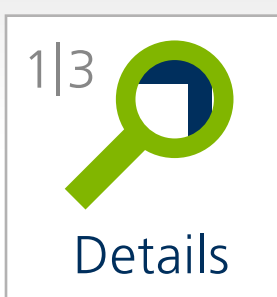
ProtecTor at a glance



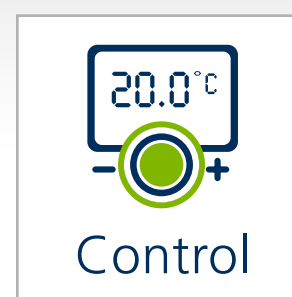
- ① Flow (2")
- ② Return (2")
- ③ PowerKon heat exchanger
- ④ Whisper-quiet, sickle-blade axial fan
- ⑤ Discharge nozzle (shown: central discharge)



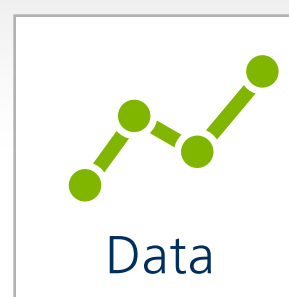
Features



Details

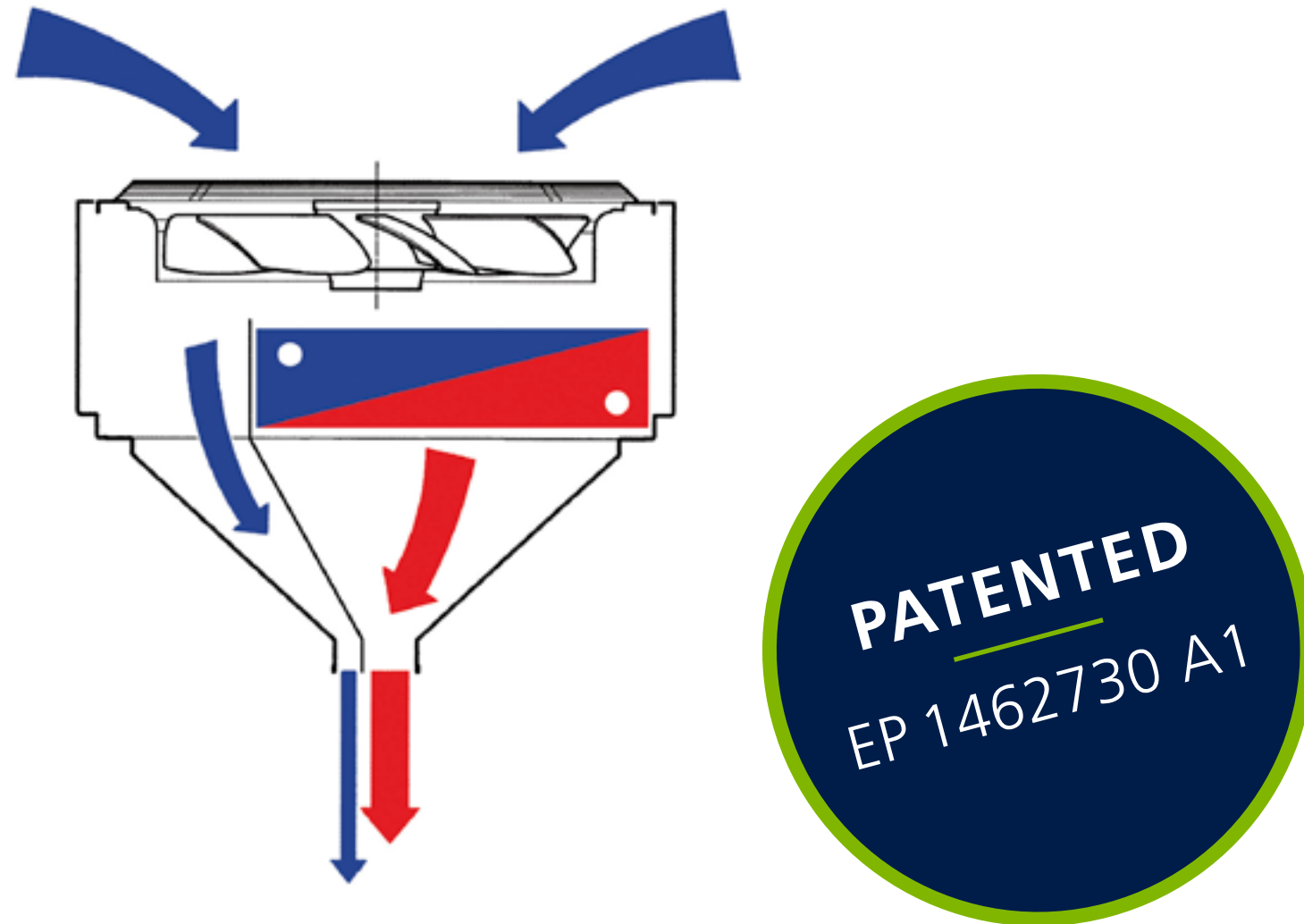


Control



Data

Air flow



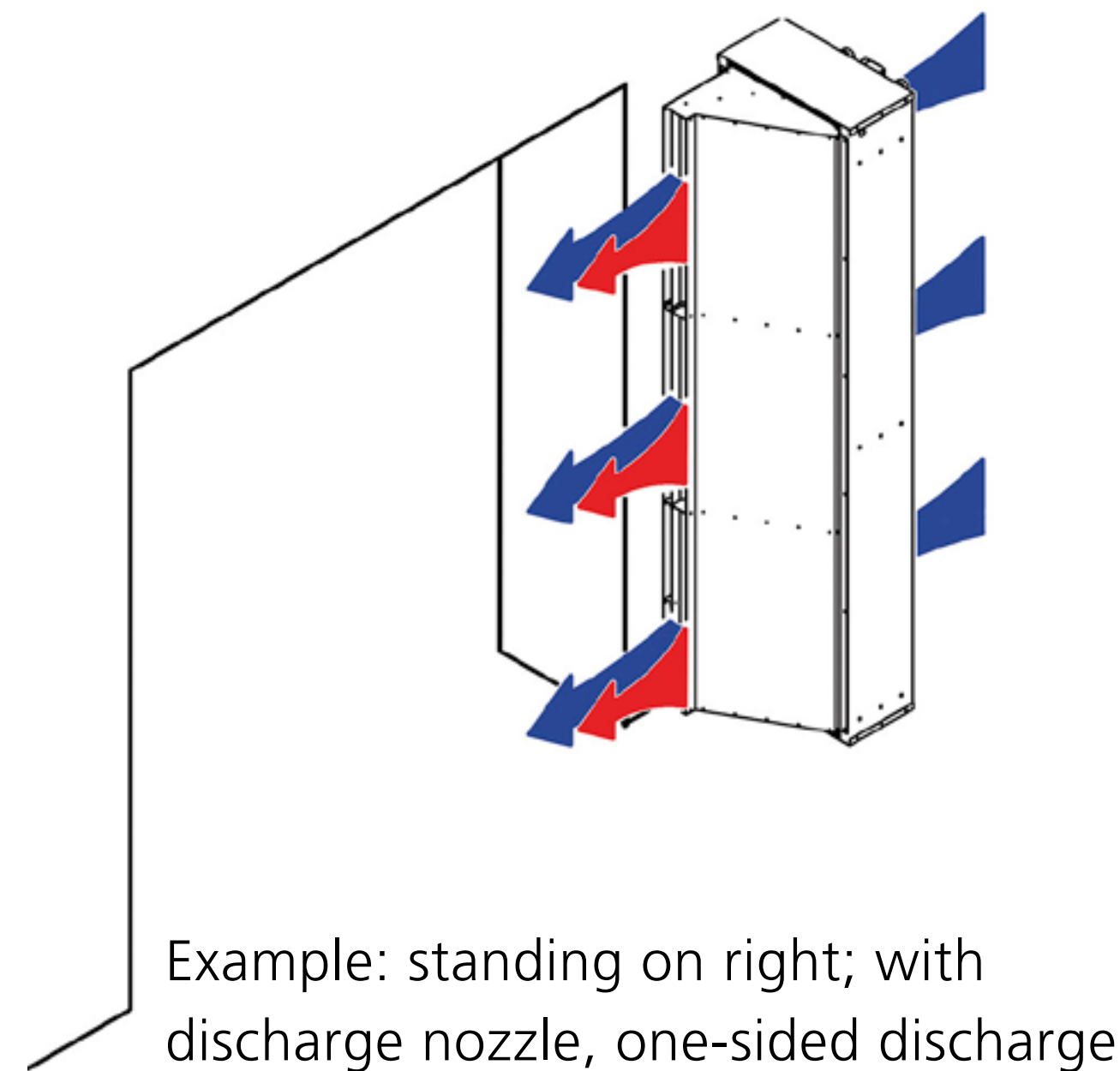
Coanda effect

- Increased penetration depth of both air streams: the ambient air stream pulls the warm air stream along with it
- Ambient air stream acts as a back-up air stream: it automatically optimises as the fan speed changes to match the warm air stream

Installation options

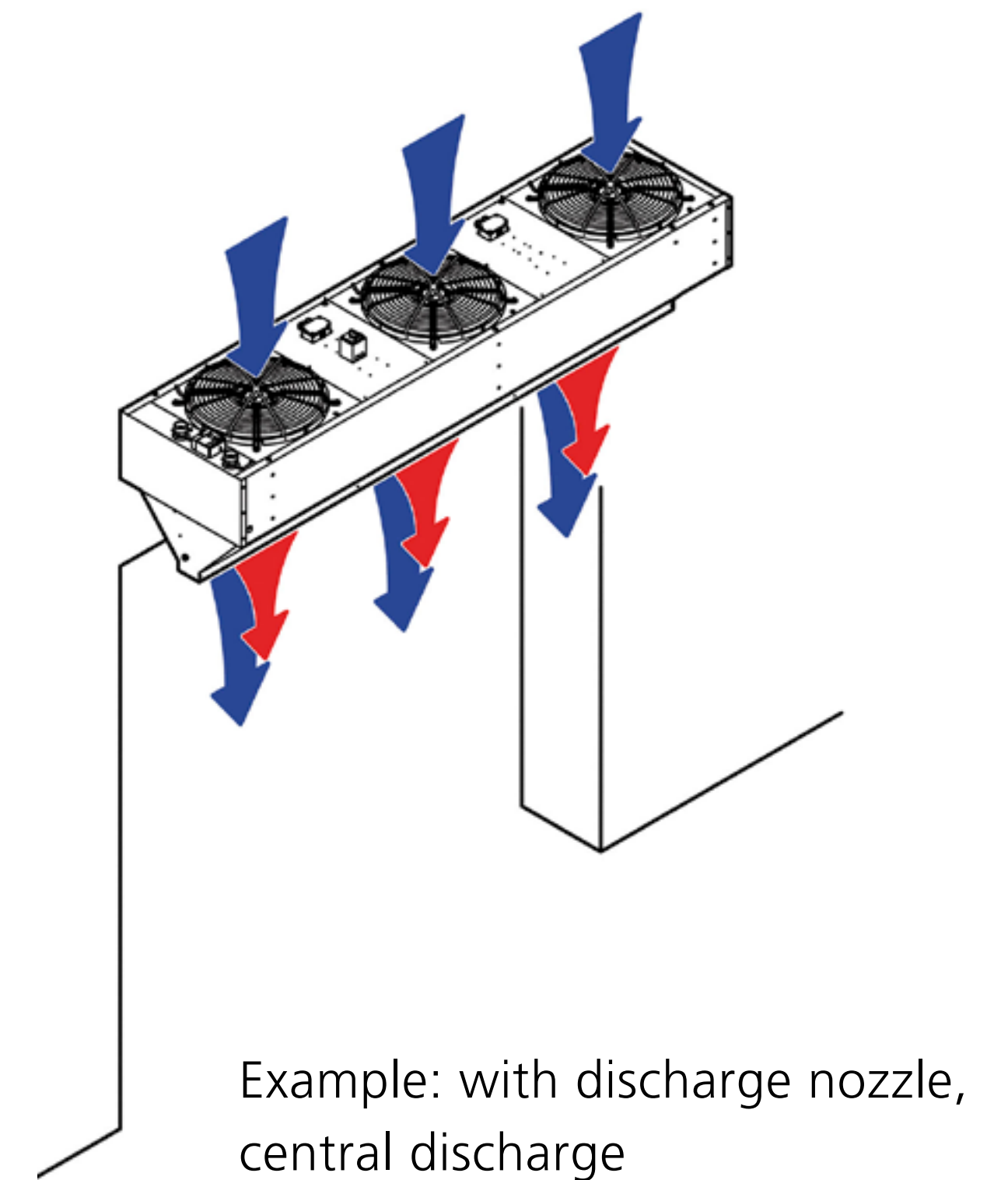
Upright model

- Air flow horizontally in front of the doorway (room side)
- Unit can stand on the right or left. Arrangement on both sides is also possible with extremely wide doorways.

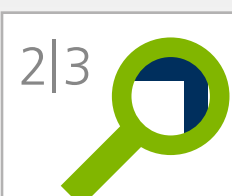


Horizontal model

- Air flow from top to bottom



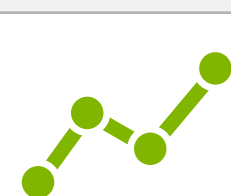
Features



Details



Control



Data

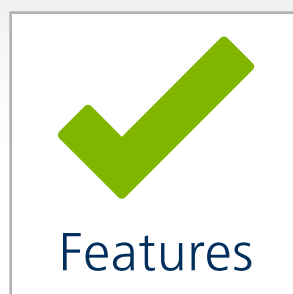
PowerKon heat exchanger

- ▶ Copper pipes with profiled special aluminium fins
- ▶ Optional: Galvanised steel model

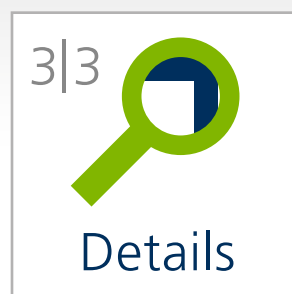


Whisper-quiet, sickle-blade axial fan

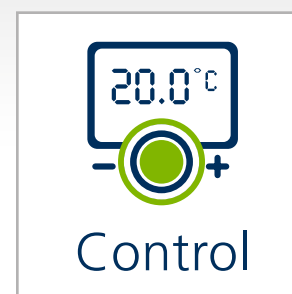
- ▶ 2-stage three-phase, 400V/50 Hz



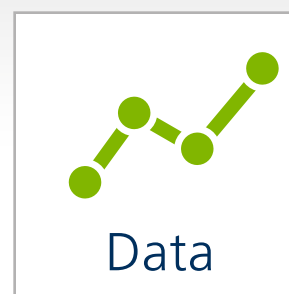
Features



Details



Control

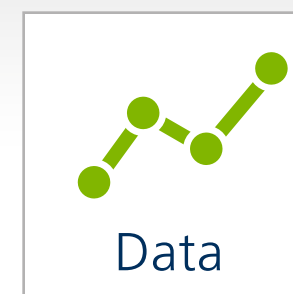
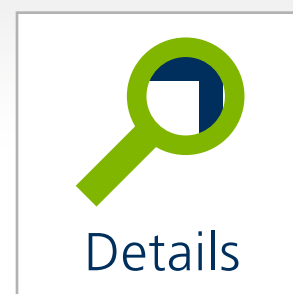
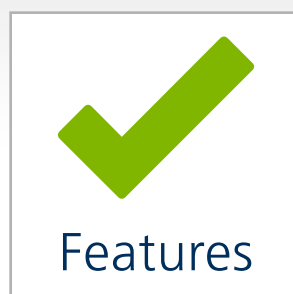


Data

Control options

KaControl room automation

- ▶ KaControl technology factory-integrated
- ▶ interfaces for KNX or Modbus building automation as an optional plug-in group
- ▶ 0–10 V analogue input for control of fan and valve via a single data point
- ▶ design room control unit with intuitive user navigation
- ▶ integrated timer program



Control options

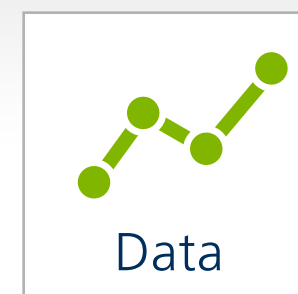
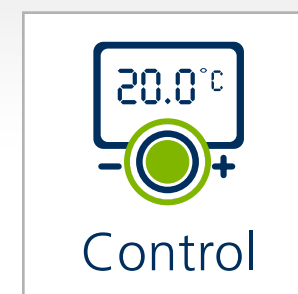
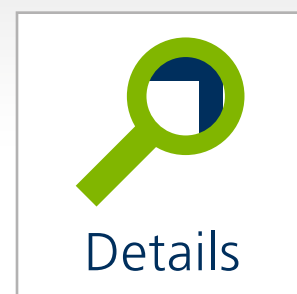
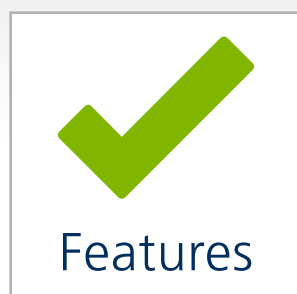
5-stage 3-phase controller

- ▶ with connection for room thermostat
- ▶ with timer or door contact switch



Infinitely variable speed controller

- ▶ infinitely variable fan operation 0–100 % pre-settable
- ▶ On/Off e.g. via room thermostat



Performance data ProtecTor models, with AC fan

Fan size	Max. discharge height or width	Max. door width or height	Number of fans	Fan stage	Total air volume ¹⁾	Heat output ²⁾	Sound pressure level ³⁾
	[m]	[m]			[m³/h]	[kW]	[dB(A)]
6	3,50	2,25	2	2	9250	43,3	61
				1	7300	33,3	54
		3,25	3	2	13900	65,0	63
				1	11000	50,0	56
		4,25	4	2	18500	86,7	64
				1	14700	66,6	57
		5,25	5	2	23200	108,3	65
				1	18300	83,3	58
7	4,50	2,25	2	2	14350	66,7	64
				1	11950	53,0	60
		3,25	3	2	21500	100,3	66
				1	17900	79,5	62
		4,25	4	2	28600	133,8	67
				1	23900	106,0	63
		5,25	5	2	35800	167,2	68
				1	29800	132,5	64

¹⁾ Total of ambient and warm air stream ²⁾ at LPHW 75/65 °C, EAT = 20 °C ³⁾ at a distance of 5 metre



Features



Details



Control



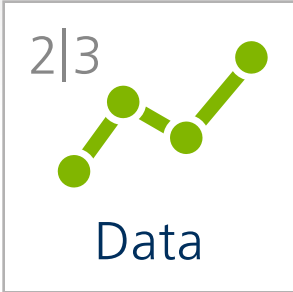
Data



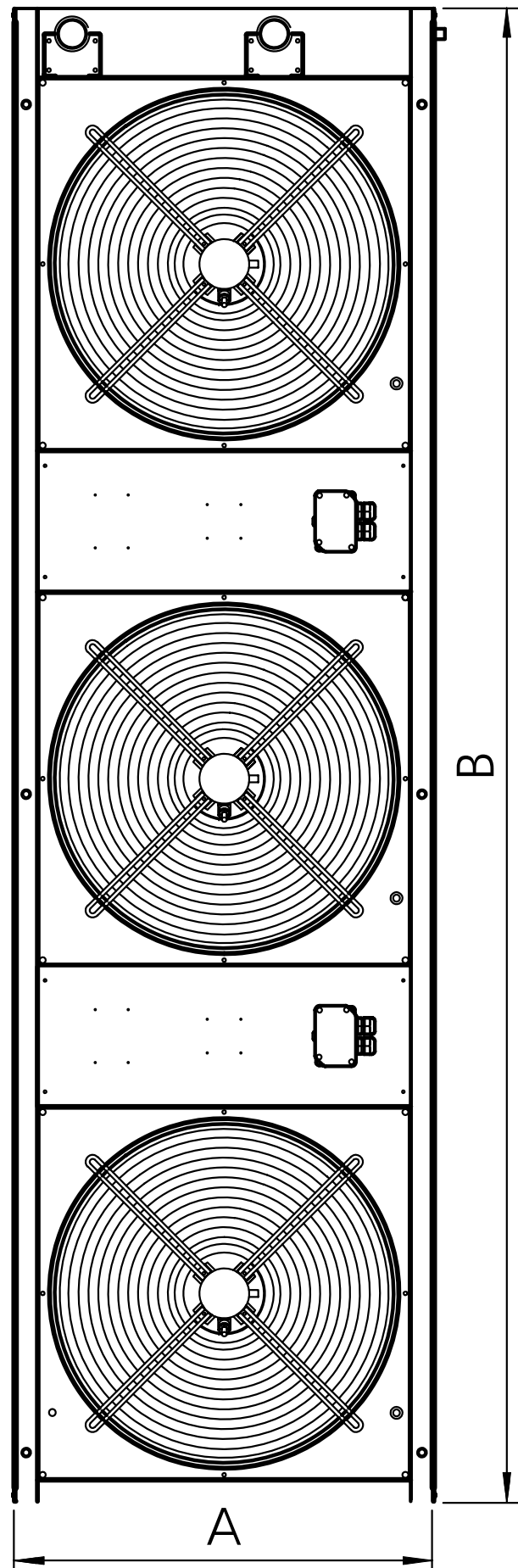
Performance data ProtecTor models, with EC fan

Fan size	Max. discharge height or width	Max. door width or height	Number of fans	Fan stage	Total air volume ¹⁾	Heat output ²⁾	Sound pressure level ³⁾
	[m]	[m]		[V]	[m³/h]	[kW]	[dB(A)]
6	3,50	2,25	2	10	10540	47,4	63
				6	5960	32,0	51
				2	1700	13,5	23
		3,25	3	10	15810	71,7	65
				6	8940	48,0	52
				2	2560	20,2	25
		4,25	4	10	21080	94,9	66
				6	11920	64,0	54
				2	3410	27,0	26
		5,25	5	10	26350	67,5	67
				6	14910	45,6	55
				2	4260	19,2	27
7	4,50	2,25	2	10	13710	64,6	64
				6	10210	52,8	58
				2	3810	26,7	36
		3,25	3	10	20560	97,2	66
				6	15310	79,3	59
				2	5710	40,2	38
		4,25	4	10	27420	130,0	67
				6	10410	125,0	61
				2	7620	53,7	39
		5,25	5	10	34270	162,2	68
				6	25520	132,4	62
				2	9520	67,0	40

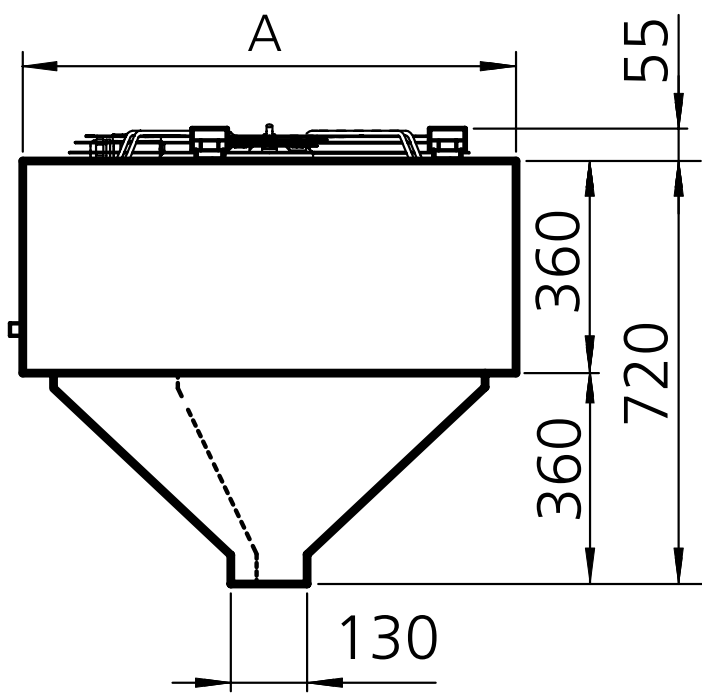
¹⁾ Total of ambient and warm air stream ²⁾ at LPHW 75/65 °C, EAT = 20 °C ³⁾ at a distance of 5 metre



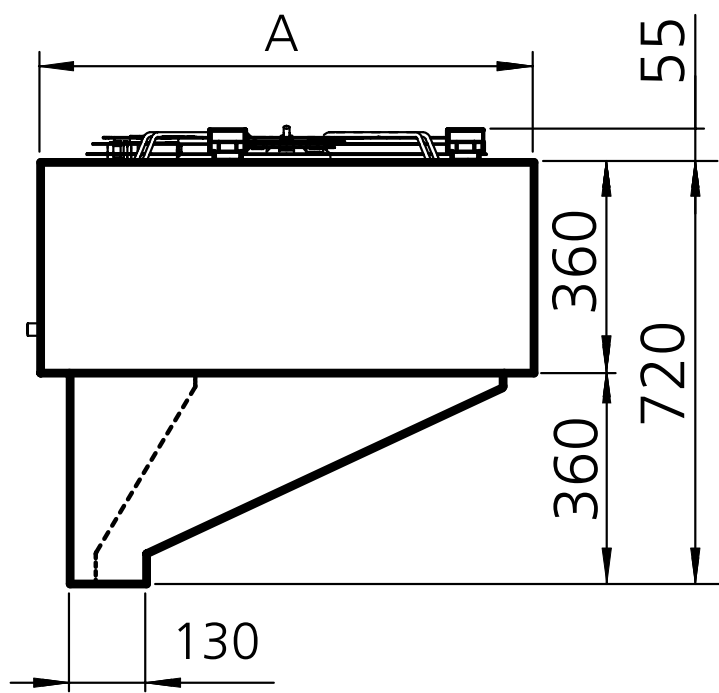
Dimensions



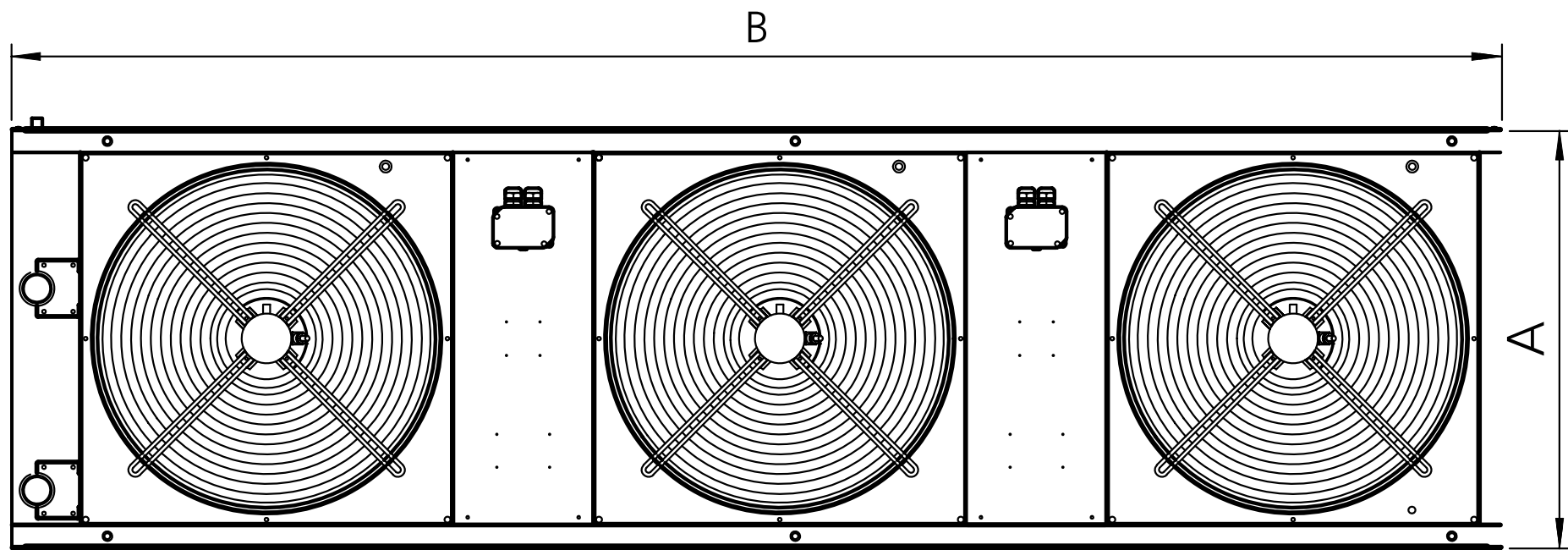
Upright model



Central discharge



Discharge at one side



Horizontal model

Fan size	A	B
	[mm]	[mm]
6	740	2.000
	740	3.000
	740	4.000
	740	5.000
7	840	2.000
	840	3.000
	840	4.000
	840	5.000



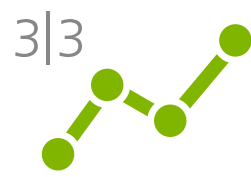
Features



Details



Control



Data

Benefits for you!

Kampmann offers you the following service benefits:

- ▶ On-site consultation
- ▶ Planning support
- ▶ System solutions
- ▶ Detailed discussions
- ▶ After-sales service

Find your contact person here:

[Kampmann.eu/contact](https://kampmann.eu/contact)

