

MASTERVEIL

The art of invisible doors

MODELS

COMPACT 400-S/2,5H (Single standing) 4 fans

COMPACT 400-S/2,5H (Single standing) 5 fans

COMPACT 450-S/2,5H (Single standing) 4 fans



version 3.2 - C4

When you are looking for TOP Design, tailormade and compact approach for your invisible door, this is the system you are looking for.

Not only architect's choice but also highly efficient in a double standing setup. For your comfort, different types of hot water batteries are available, electrical heaters and also integrated connection with heatpump.

Exceptional asset for this range is the high performance and design.



YOUR ADVANTAGES

- Create the ideal environment for your clients
- The best working conditions for your employees
- Ideal combination of design and optimal protection
- Stable temperature and/or better comfort
- Keep wrong influences outside
- Save money by reducing energy losses
- Stop influence from outside
- Tailormade adaption possible (high design)

CHARACTERISTICS

	Compact400	Compact450
Mono-Phase	X	
Mono-Phase Fan		X
3-Phase Electrical Heater		X
Tailor-made height*	X	X
Compact Design	X	X
High Pressure Airstop	X	X
Temp. Difference 20-30°C	X	X
Preferred Height 2m60	X	
Preferred Height 2m50 (to max 3m)		X
* Maximum Outblow 2,60m	X	

STEERING

TYPE	Compact400	Compact450
STRM-745V	X	X

APPLICATION DOMAINS

COOL	DESIGN	FREEZERS	LOGISTICS & COMFORT	OUTSIDE	RETAIL
	X		X	X	

ESPECIALLY SUITABLE FOR

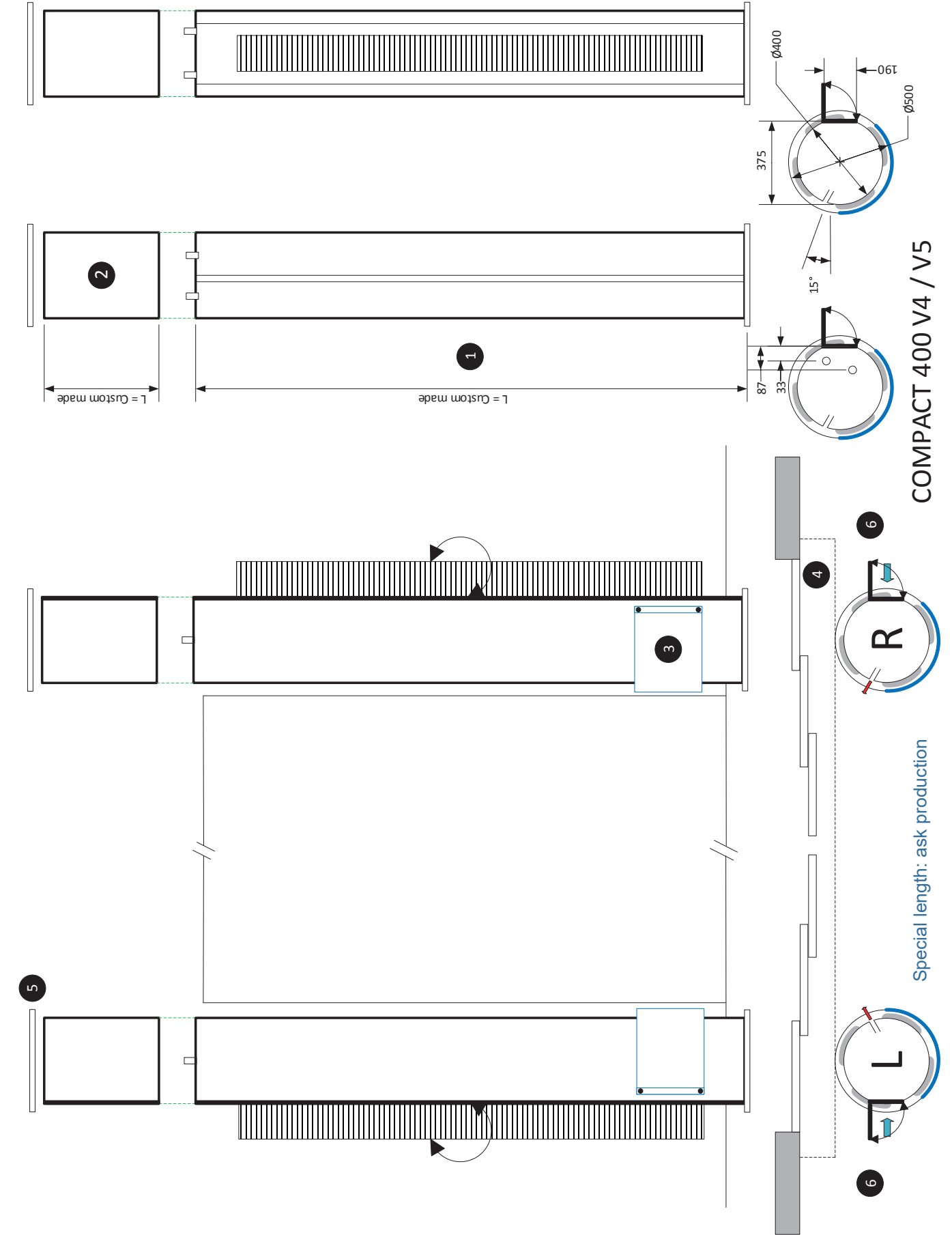
- Special shops and supermarkets
- Entrance of office buildings
- Public buildings
- Dust and clean air

AVAILABLE OPTIONS

Model		Compact 400V4	Compact 400V5	Compact 450E
Drumposition	Horizontal			
	Vertical	X	X	X
	Double standing	Opt	Opt	Opt
	Airlock			
Drumdesign	Industrial			
	Round	X	X	X
	Compact	X	X	X
No. Fans		4	5	4
Heater	Electrical			X
	H2O	X	X	
	Heat pump	Opt	Opt	
Filter	Flatfilter	X	X	-
	Pleated filter			
	Bagfilter			
	Minibag			
Steeringpanel		STRM	STRM	STRM/EL
Control	EC			
	Frequency			
	Modbus	X	X	X
	Transform	X	X	X
	Stepless			
	X-step	X	X	X
Heater parts	Freeze protect	Opt	Opt	
	Zone valve	Opt	Opt	
	Indoor sensor	X	X	X
	Outdoor sensor	Opt	Opt	Opt
	Thyristor			
Switcher	Mechanical	Opt	Opt	Opt
	Magnet	Opt	Opt	Opt
	Photosensor	Opt	Opt	Opt
Drum type	Galvanized			
	Aluzinc			
	RAL painted	X	X	X
	Stainless	Opt	Opt	Opt
Fanbox	Galvanized			
	Stainless			

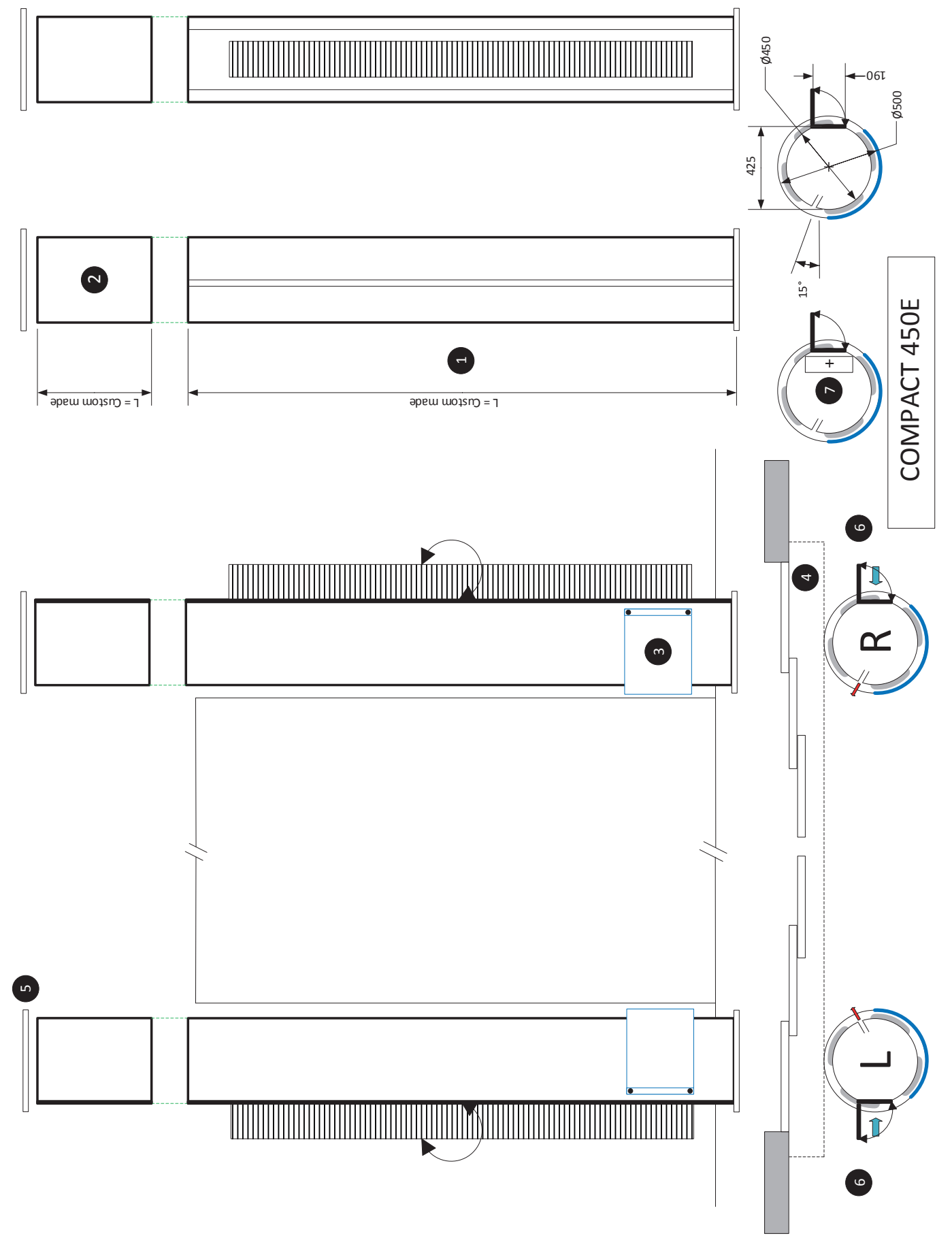
IN COMBINATION WITH HEATPUMP > SPECIAL STEERING PANEL

DIMENSIONS & MEASUREMENTS



1) Adjustable length	3) Collision protection	5) Ceiling cover
2) Extension	4) Accessibility door mechanism	6) Accessibility filter

DIMENSIONS & MEASUREMENTS



1) Adjustable length	3) Collision protection	5) Ceiling cover	7) Floor plate
2) Extension	4) Accessibility door mechanism	6) Accessibility filter	

TECHNICAL DATA

Type	Scan name	Dimension DxH	Drum-length	Type_of_fan	Fan model	Voltage	kW	Am-père	Freq
Compact 400V4	Kompact 400V4	Ø400	Custom made	Double inlet radial	4	230	0,92	4,60	50
Compact 400V5	Kompact 400V5	Ø400	Custom made	Double inlet radial	4	230	1,15	5,75	50
Compact 450E	Kompact 450E	Ø450	Custom made	Double inlet radial	4	230	0,92	4,60	50

Type	Water heated	Electrical heated	Heating	Ambi	Enviroment	Weight kg	Ral	Other colours	Inbuild	Stain-less
Compact 400V4	22	-	H2O/ HeatPump	Yes	40 /-25	85	9010	Opt	Opt	Opt
Compact 400V5	26		H2O/ HeatPump	Yes	40/-25	90	9010	Opt	Opt	Opt
Compact 450E	-	15kW	El.	Yes	40 /-25	80	9010	Opt	Opt	Opt

Type	Nr-fans	Conden-sator µF	IP	Motor-protect	Volume m³/h (WP)	Rota-tion	Volume m³/h (MAX volume) (Minimum Pa, on fan datafile)	Pressure Pa (max)	Sound db(A)	H2o_effect kW
Compact 400V4	4	5	44	Ext	2500	2000	3688/80pa	464	66	22
Compact 400V5	5	5	44	Ext	3000	2000	4610/80pa	464	67	26
Compact 450E	3	8	44	Ext	2500	2000	3688/80pa	464	67	15

Type	Air_in °C	Air_out °C	H2o_in °C	H2o_out °C	Design	Pressure drop (Water kPa)	Water flow l/s	Filter	Connec-tion	Steering
Compact 400V4	15	41	60	40	Circle 400	7	0,28	flatfilter EU3	DN25	STRM
Compact 400V5	15	40	60	40	Circle 400	8	0,31	flatfilter EU4	DN25	STRM
Compact 450E	15	32	-	-	Circle 450	-	-	flatfilter EU3		STRM/ EL

TECHNICAL SPECIFICATIONS DAIKIN

Outside unit:	Steering panel:
ERQ125A7W1B - 3F+N - 400V - 11,9 A	EKEQFCBAV3 - 1F+N - 230V - 0,2 A

		DAIKIN
Air	Capacity	14,7kW
	Flow rate	2500 m³/h
	Temperature in	15°
	Temperature out	32,5°
	Pressure drop	39Pa
	Velocity	2,0 m/s
R410a	Condense temperature	46°
	Op. Pressure	2,7MPa
	Flow rate	0,10kg/s

		DAIKIN
Dimension	Width	1800mm
	Height	200mm
	Tube rows	2
	Fin pitch	1,8mm
	Liquid Passes	10
	Connection number	DN 1x12/1x12
	Surface	0,36/21m²
	Weight-Volume	25/3kg/l
	Tube material	Copper
	Lamela	Aluminium
Material	Header material	Copper
	Casing material	Galvanized

MOUNTING INFO

- Place the air curtain inside.
- Make sure that the air curtain has a free intake.
- Make sure that the air curtains have a free outblow.
- Position the outblowmouth close to the door.
- Our preference: outblow angle can be adjusted (+/- 15°).
- Position optimal outblow angle considering draught/ wind/temperature difference.
- In critical applications, space between wall and air curtain must be protected.
- By preference, use a minimal overlap of 10cm on top of door
- Take into consideration: accessibility of door mechanism.
- Keep a distance between wall and drum for about 10cm.
- Free outblow is necessary, check driving protection, electronica, door contacts, panel, ...
- In case drum needs to be placed close to the wall, make sure that you have free flow without deviation through objects.
- Consider the comfort of people that go through the door.
- Adjust appropriate speed.
- Consider comfort options like electrical/water heater/heat pump.
- Check how many people that are in direct/indirect airstream.
- Adjust outblowangle.
- Keep in mind that air curtains are not 100% solution.
- Check capacity to compensate remaining losses.
- Fluent access to equipment & filters.
- Easy exchange parts must be foreseen.

ARRANGEMENT & MOUNTING

! INSTALLATION CAN ONLY BE EXECUTED BY CERTIFIED & SKILLED TECHNICIANS !

Mount the Compact 400/450 unit vertically in a weather-protected place. Make sure that the fan is protected against vibration and shocks. Supply open inlet and discharge openings with guards according to valid regulations. Also make sure the drive motor is sufficiently vented. The permitted maximum temperature of the surrounding is 40°C.

The Compact 400/450 fan unit have an internal automatic thermocontact (by normal temperature it will restart automatically).

The fan is designed for continuous use. Its rotation speed can be regulated with external equipment by changing the current supply. It is not designed for operation with flammable, hazardous or explosive gases, polishing dust, flour etc.

Intake air can NOT contain aggressive (cleaning) products.

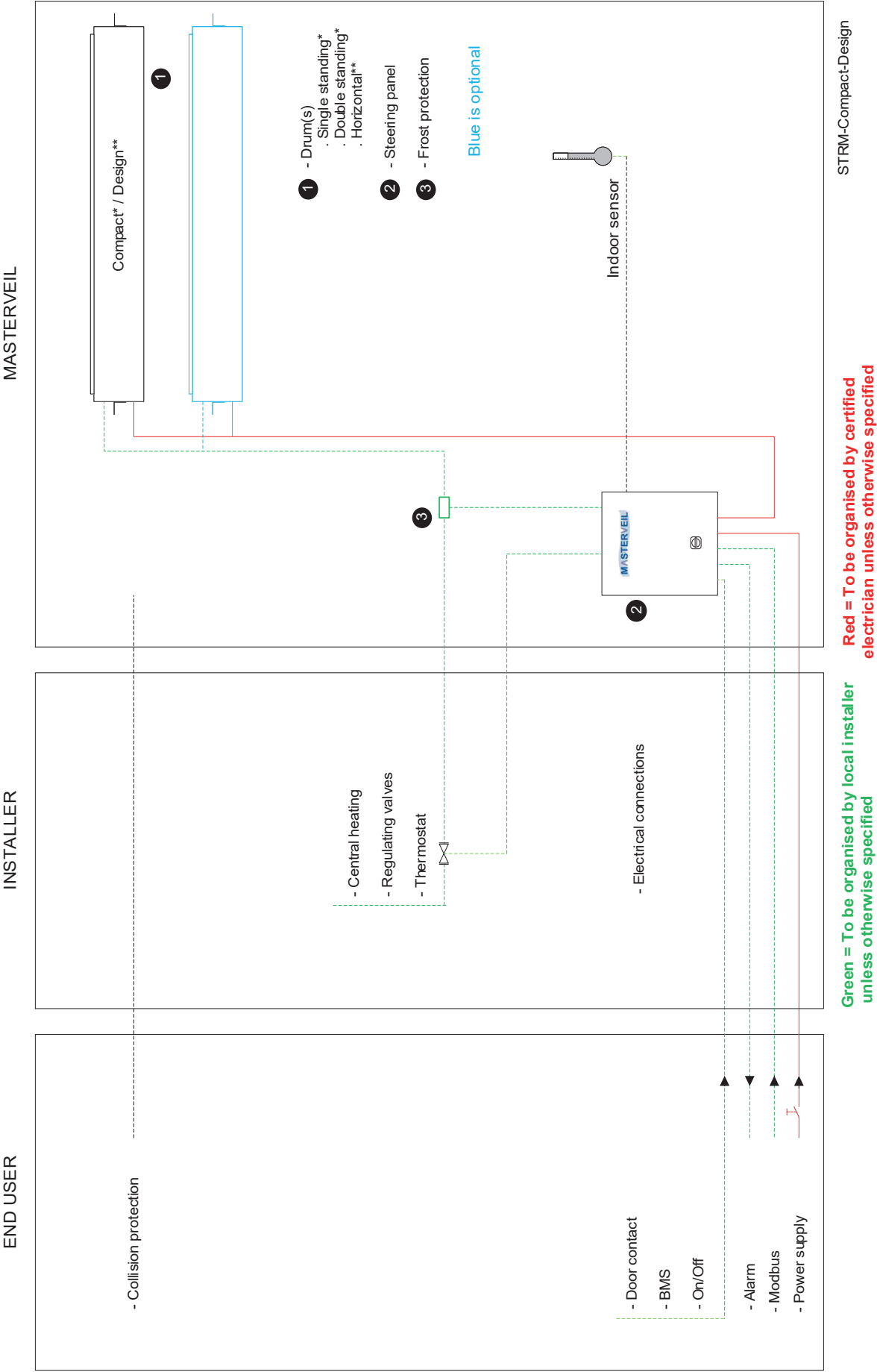
We decline all responsibility for any errors and for the accuracy of the information provided.

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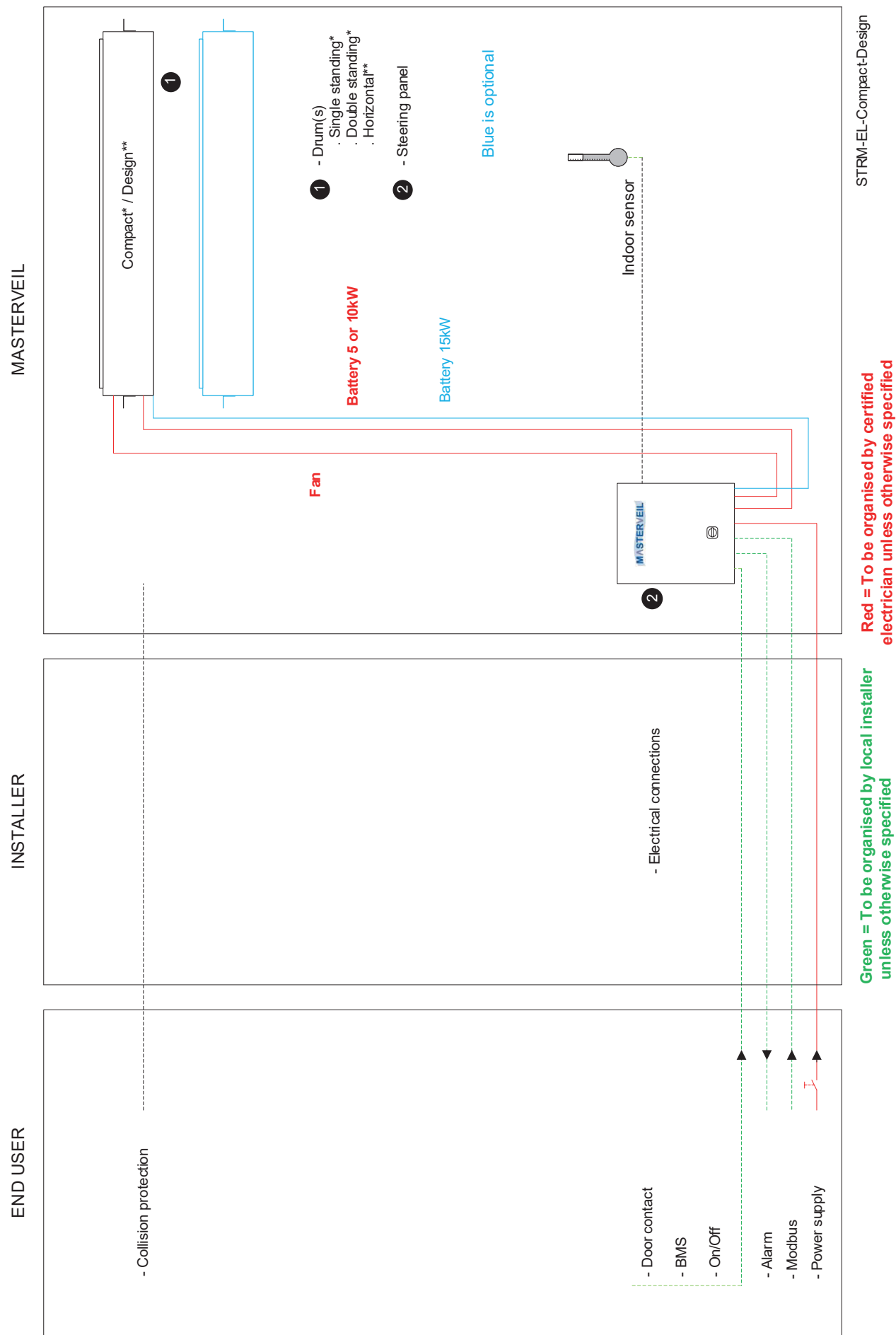
Minor adaptations can occur depending on regulations, versions, ...

! IN CASE OF QUESTIONS CONTACT THE DEALER OR A CERTIFIED PARTNER !

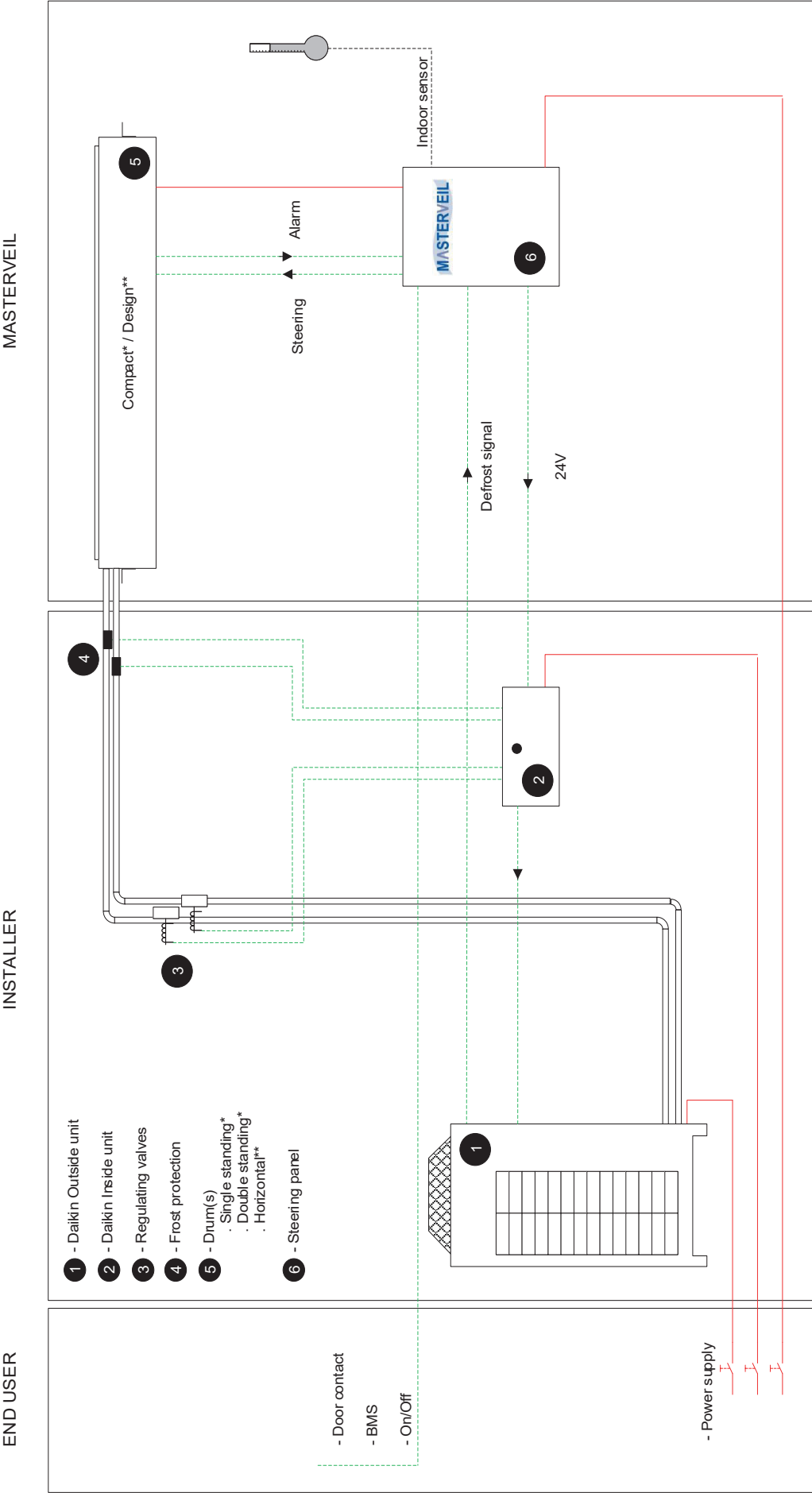
GRAPHICAL PRESENTATION - STRM-STEERING COMPACT 400 V4/V5



GRAPHICAL PRESENTATION - STRM/ELEC-STEERING COMPACT 450E



GRAPHICAL PRESENTATION COMPACT 400/V4 (HEATPUMP)







MASTERVEIL

The art of invisible doors



Invisible doors



Freezer solutions



Humidification



Dehumidification

MASTERVEIL CERTIFIED PARTNER

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