



Installation manual

Internal water / dx coil Compact R

D-EIMOC04006-26_01EN

› Compact R

Original translations

REV	01
DATE	September 2026
REPLACES	D-EIMOC04006-26_00EN

1

Important warnings



The pictogram shows a situation of immediate danger or a dangerous situation that might cause injuries or death.



The pictogram shows that it is necessary to adopt suitable behaviour in order to avoid jeopardising staff safety and cause damages to the equipment.



The pictogram shows particularly important technical information that should be taken into consideration by the people installing or using the equipment.



Read this manual carefully before installation and keep it for any further future consultation by the various operators. Do not remove, tear out or rewrite any part of this manual.



Failure to follow these instructions may cause damage and injuries, even fatal, voids the warranty and relieves the Manufacturer of any liability.



All installation, assembly, electrical connections to the mains and ordinary/extraordinary maintenance must be performed **only by technicians complying with the legal requirements**, after turning off the unit and using personal protective equipment (i.e. gloves, protective goggles, etc.), in compliance with the regulations in force in the country the equipment is to be used in and the laws on safety in the workplace.



Installation, use or maintenance other than those specified in the manual may cause damage, injury or death, invalidate the warranty and relieve the Manufacturer of all liability.



Use protective clothing and suitable equipment while handling or installing the equipment, in order to prevent accidents and safeguard your own and other people's safety. Individuals not assigned to installation or maintenance are NOT allowed to stand or pass through the work area while the unit is assembled.



Before carrying out any installation, disconnect the equipment from the power supply and wait at least 120 seconds before carrying out any operation.

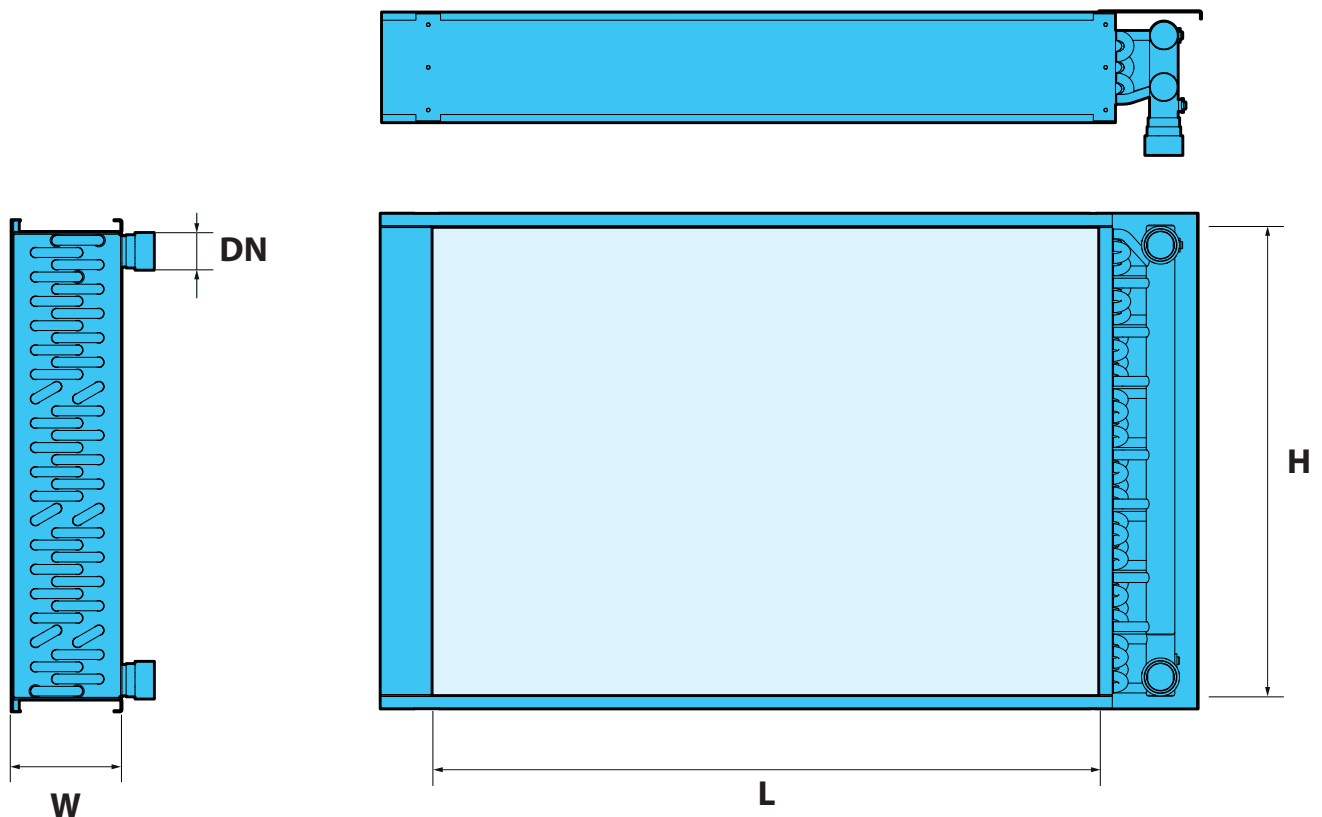


It is the responsibility of the user/installer to check the static and dynamic stability relative to the installation and to arrange environments so that **people who are not competent or authorised DO NOT have access to the unit or to its controls.**

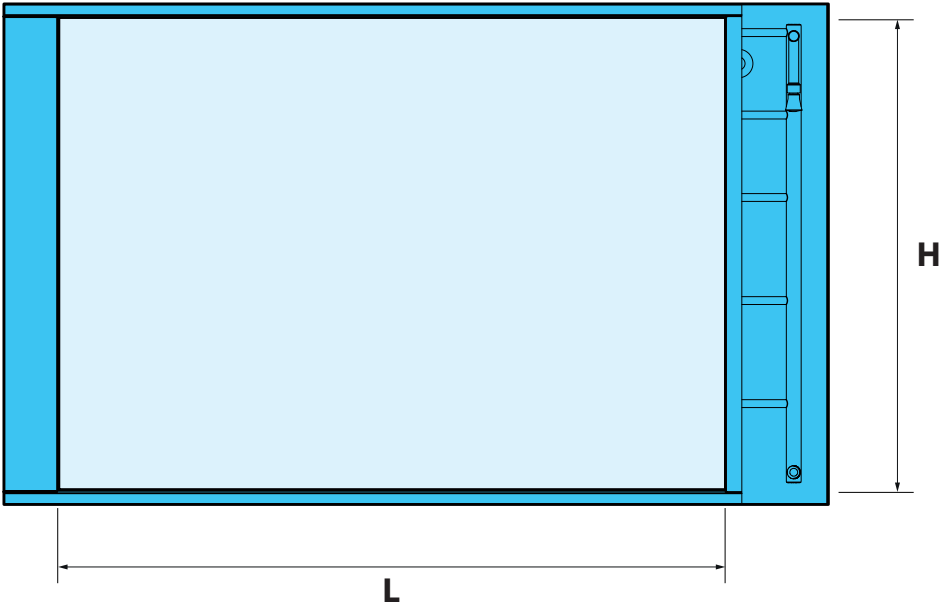
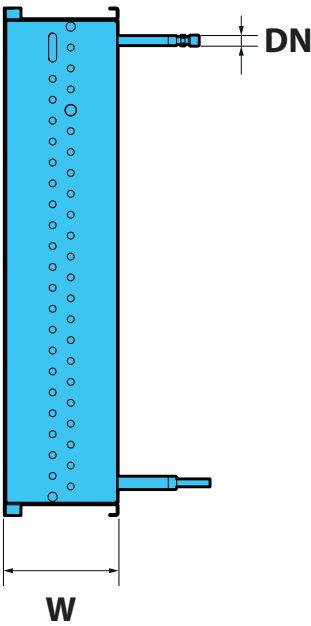
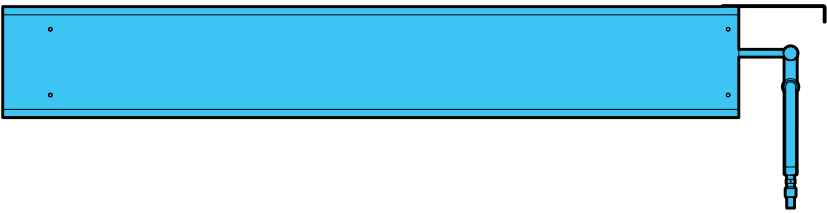
2 Technical data

Water coils | Cooling

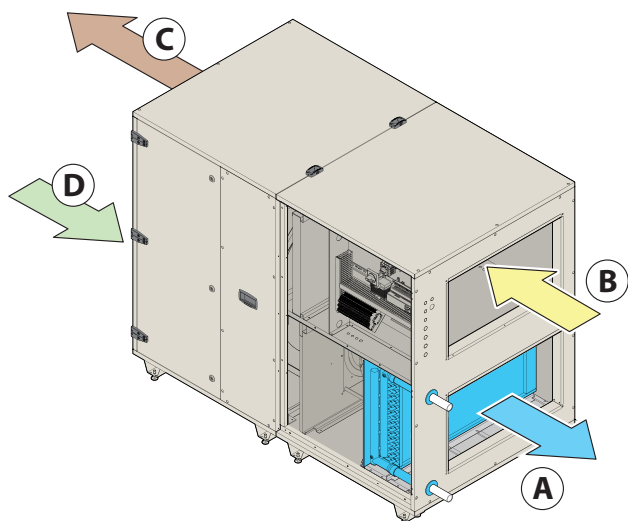
Size	Material name	Total Capacity [kW]	H [mm]	L [mm]	W [mm]	DN [inch]	WEIGHT [kg]
01	ARD01UWSAL	4,20	300	360	135	3/4	10
	ARD01UWSAR						
02	ARD02UWSAL	7,53	360	500	135	3/4	14
	ARD02UWSAR						
03	ARD03UWSAL	9,75	420	500	135	3/4	16
	ARD03UWSAR						
04	ARD04UWSAL	12,74	450	600	135	3/4	18
	ARD04UWSAR						
05	ARD05UWSAL	18,13	540	700	135	1 1/4	24
	ARD05UWSAR						
06	ARD06UWSAL	22,55	570	810	135	1 1/4	29
	ARD06UWSAR						
07	ARD07UWSAL	31,34	690	1010	135	1 1/4	37
	ARD07UWSAR						



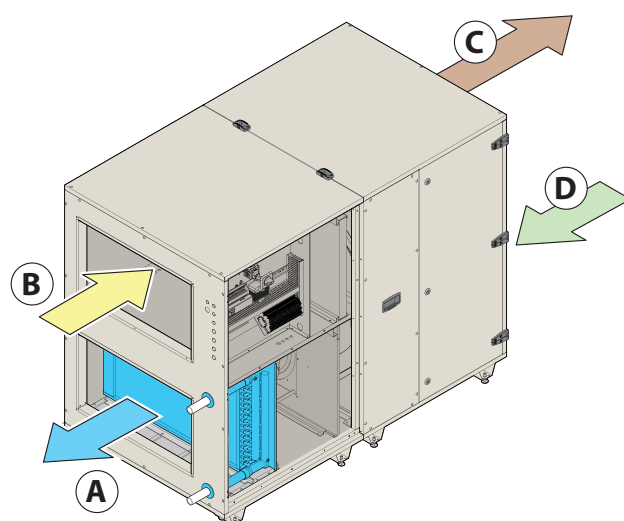
Size	Material name	Total Capacity [kW]	H [mm]	L [mm]	W [mm]	WEIGHT [kg]	Row of coil
03	ARD03UDSAL	8,16	425	500	135	12	3
	ARD03UDSAR						
04	ARD04UDSAL	10,83	475	600	135	15	3
	ARD04UDSAR						
05	ARD05UDSAL	10,91	550	700	135	18	2
	ARD06UDSAR						
06	ARD06UDSAL	13,61	575	810	135	20	2
	ARD06UDSAR						
07	ARD07UDSAL	19,43	700	1010	135	28	2
	ARD07UDSAR						



3 Installation



Right Handling
VERSION UNIT
ATBR****

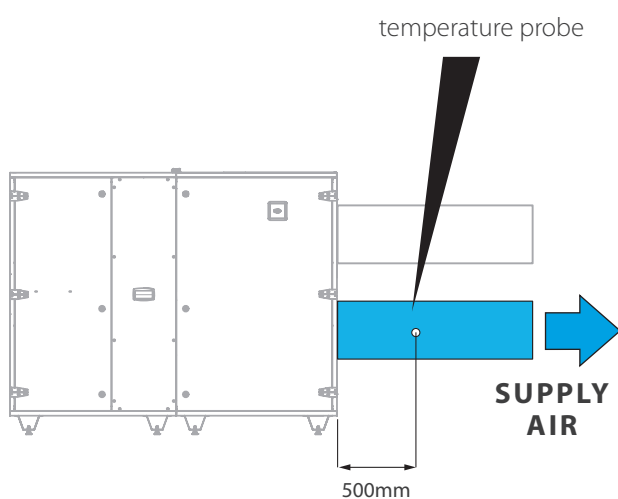


Left handling
VERSION UNIT
ATBL****

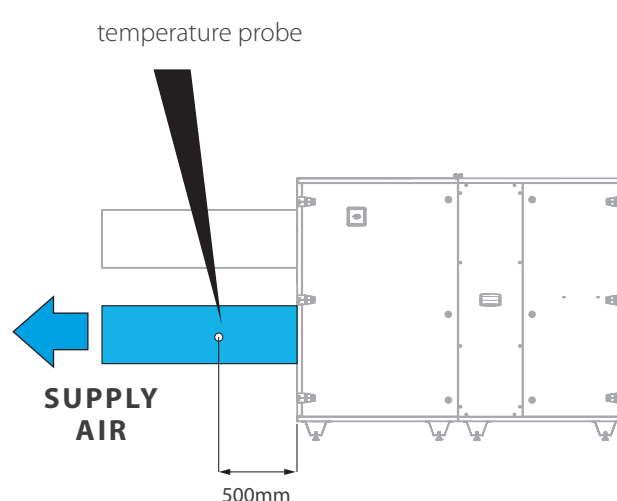
DUCT

- A** Supply air
- B** Return air
- C** Exhaust air
- D** Fresh air

1 Internal DX/water coil position



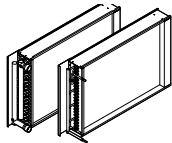
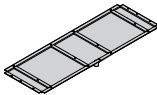
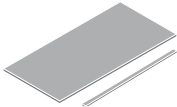
Left handling
VERSION UNIT
ARBR****

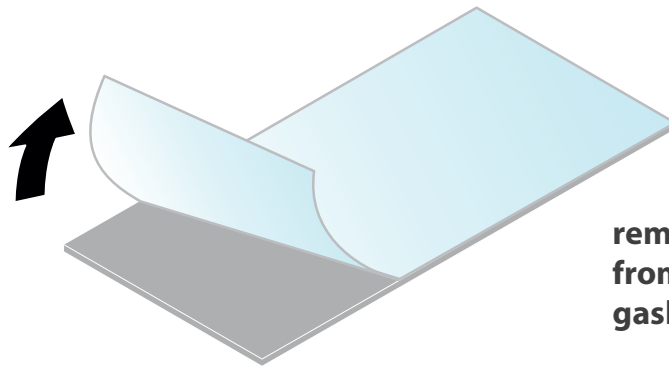


Right handling
VERSION UNIT
ARBL****

2 Correct installation of temperature probe

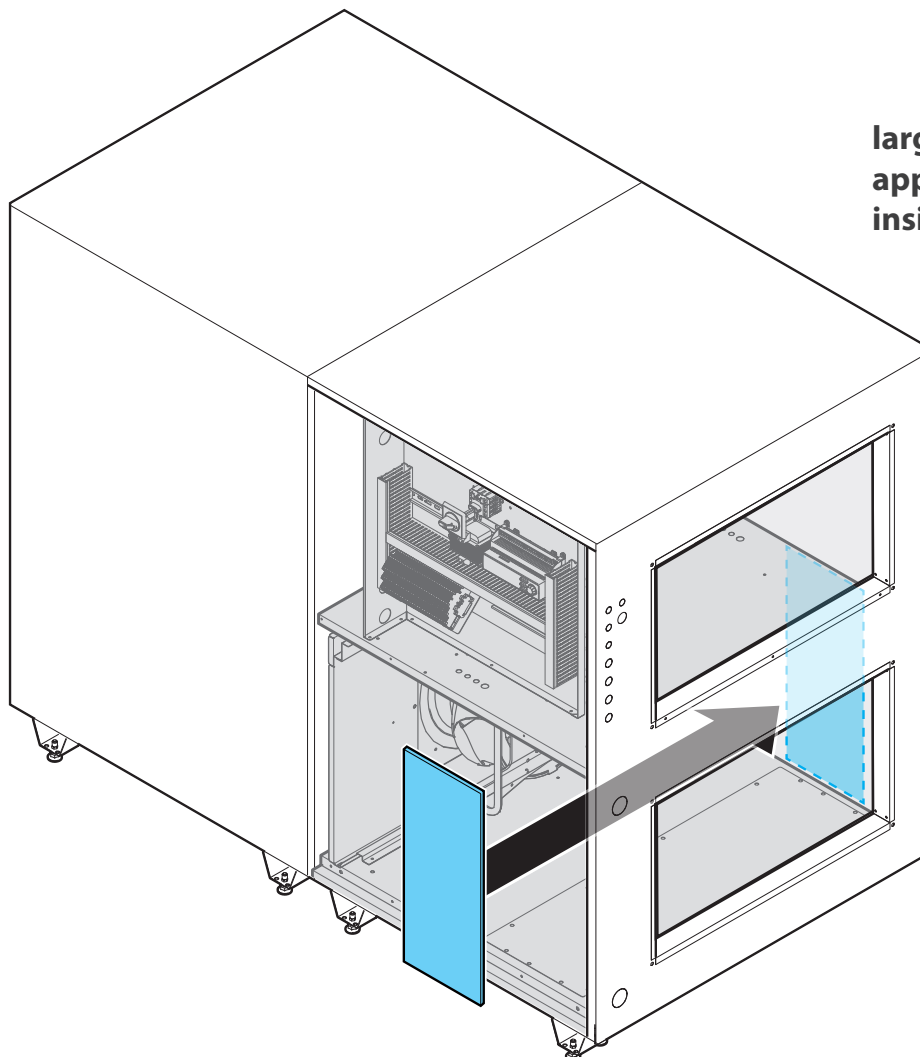
Components

	Component	WATER COILS	DX COILS																																													
		number of components																																														
	Coils	1	1																																													
	Drain pan	1	1																																													
	Extension pipes	2	-																																													
	Gasket	1 large, 1 tight	1 large, 1 tight																																													
		<table><tr><td></td><td colspan="2">LARGE GASKET [mm]</td><td colspan="2">TIGHT GASKET [mm]</td></tr><tr><td>SIZE</td><td>Width</td><td>Length</td><td>Width</td><td>Length</td></tr><tr><td>01</td><td>250</td><td>355</td><td>15</td><td>355</td></tr><tr><td>02</td><td>250</td><td>410</td><td>15</td><td>410</td></tr><tr><td>03</td><td>250</td><td>460</td><td>15</td><td>460</td></tr><tr><td>04</td><td>250</td><td>510</td><td>15</td><td>510</td></tr><tr><td>05</td><td>250</td><td>585</td><td>15</td><td>585</td></tr><tr><td>06</td><td>250</td><td>610</td><td>15</td><td>610</td></tr><tr><td>07</td><td>250</td><td>735</td><td>15</td><td>735</td></tr></table>			LARGE GASKET [mm]		TIGHT GASKET [mm]		SIZE	Width	Length	Width	Length	01	250	355	15	355	02	250	410	15	410	03	250	460	15	460	04	250	510	15	510	05	250	585	15	585	06	250	610	15	610	07	250	735	15	735
	LARGE GASKET [mm]		TIGHT GASKET [mm]																																													
SIZE	Width	Length	Width	Length																																												
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04	250	510	15	510																																												
05	250	585	15	585																																												
06	250	610	15	610																																												
07	250	735	15	735																																												
	Assembled metal sheets	4	4																																													
	Screw	14	14																																													



**remove the protective film
from the back of the large
gasket**

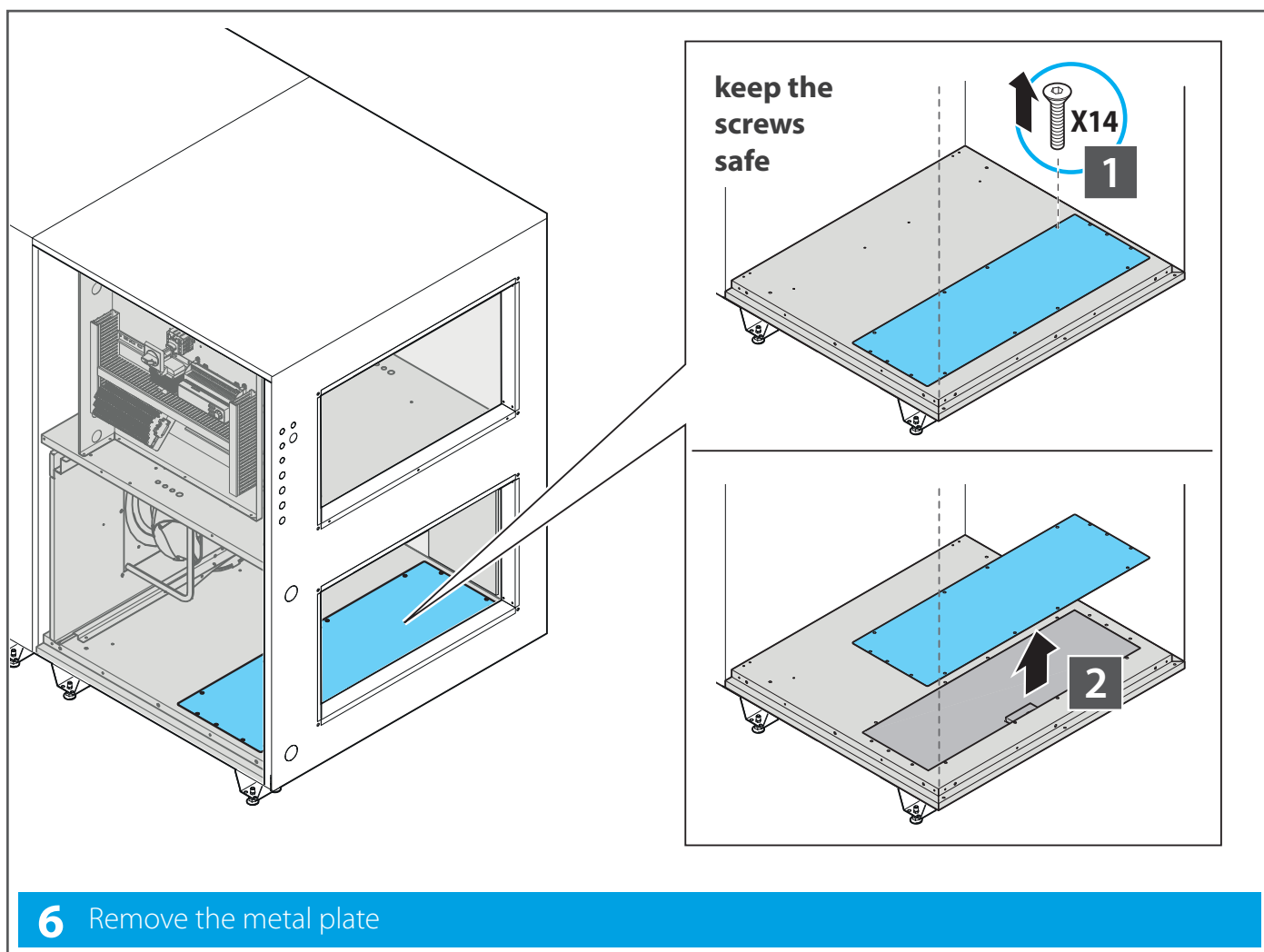
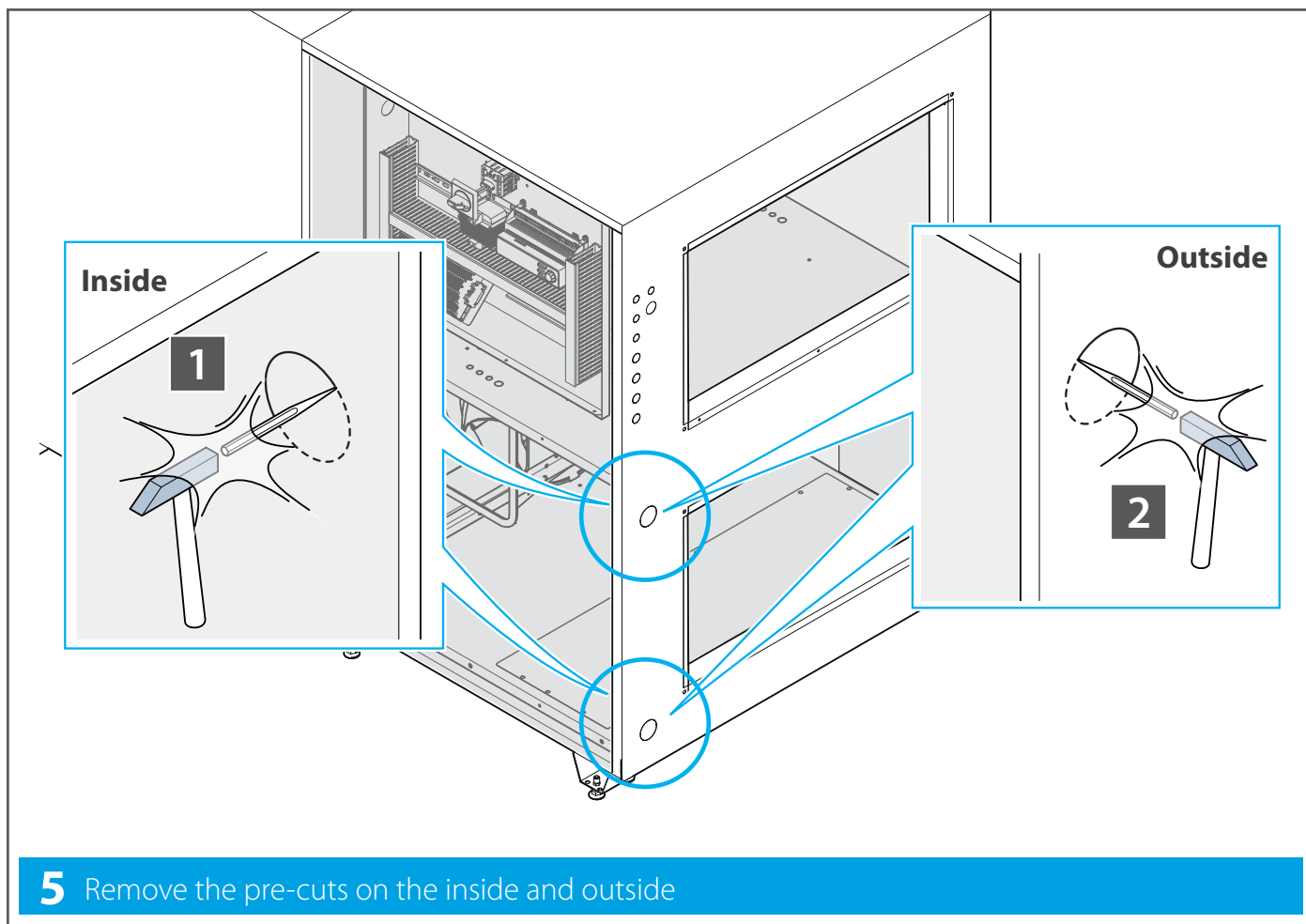
3 Preparation of the large gasket

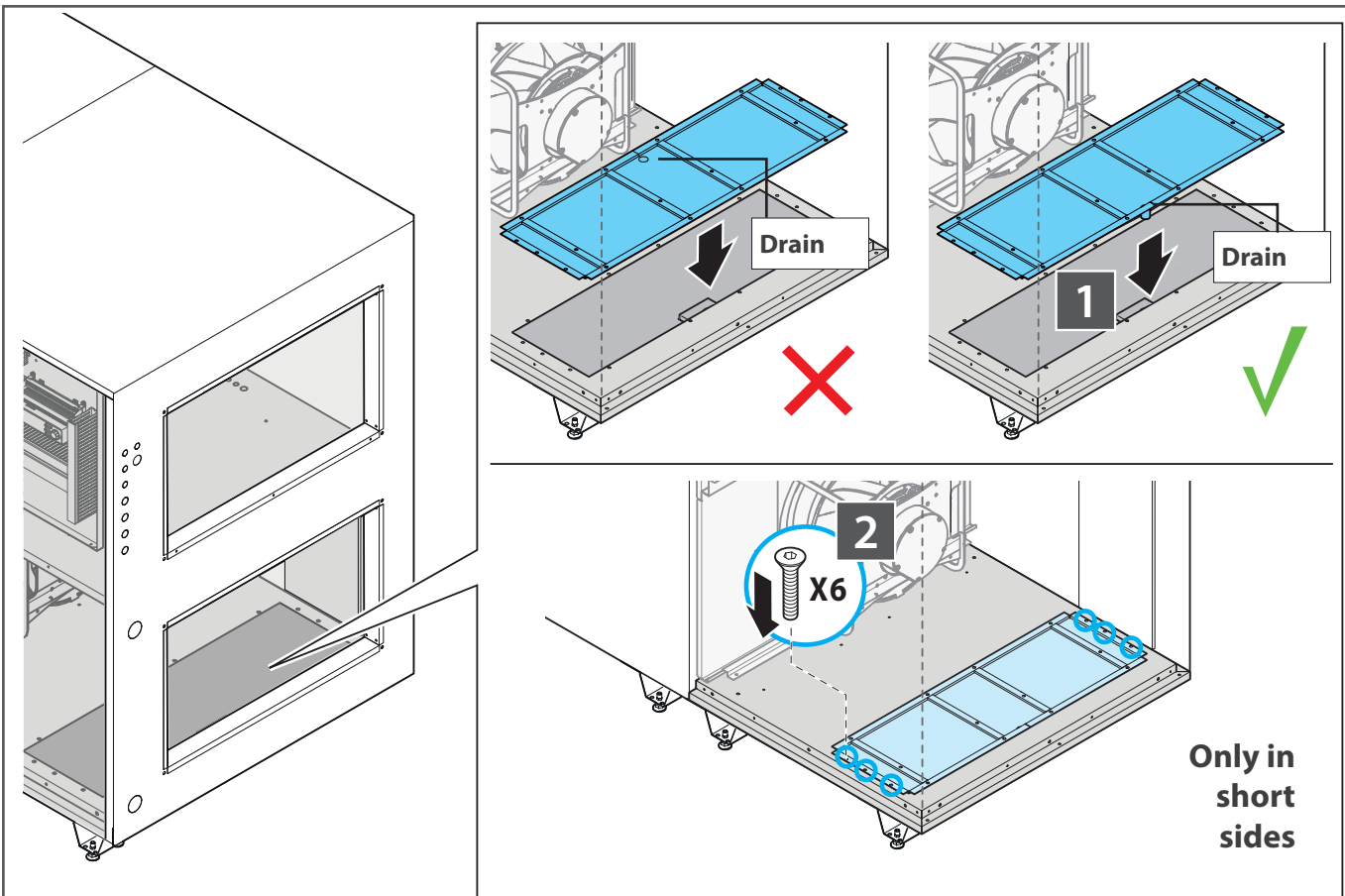


**large gasket
applied
inside of the unit**

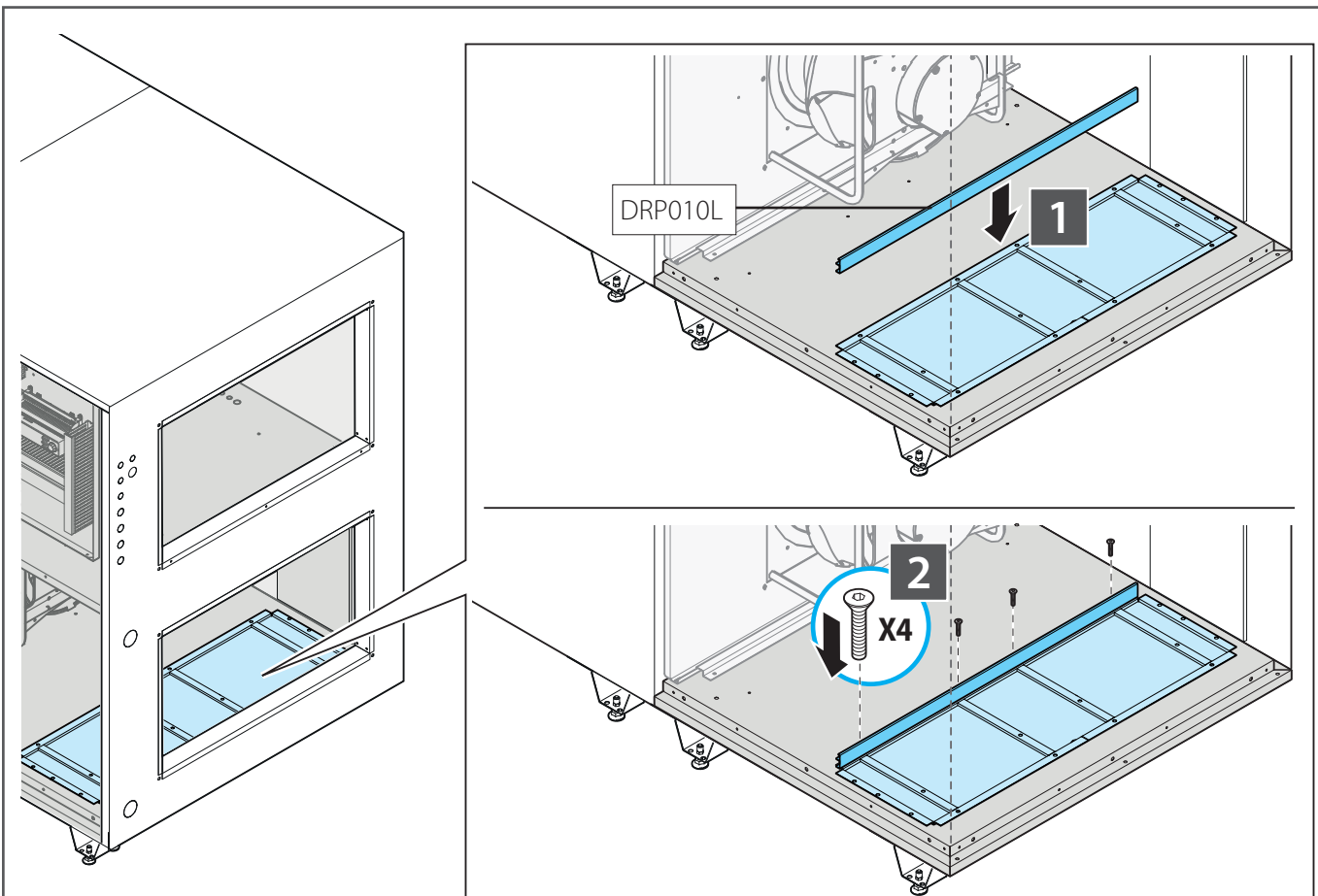
**Pay close attention to the correct
positioning of the large gasket**

4 Correct application of the large gasket

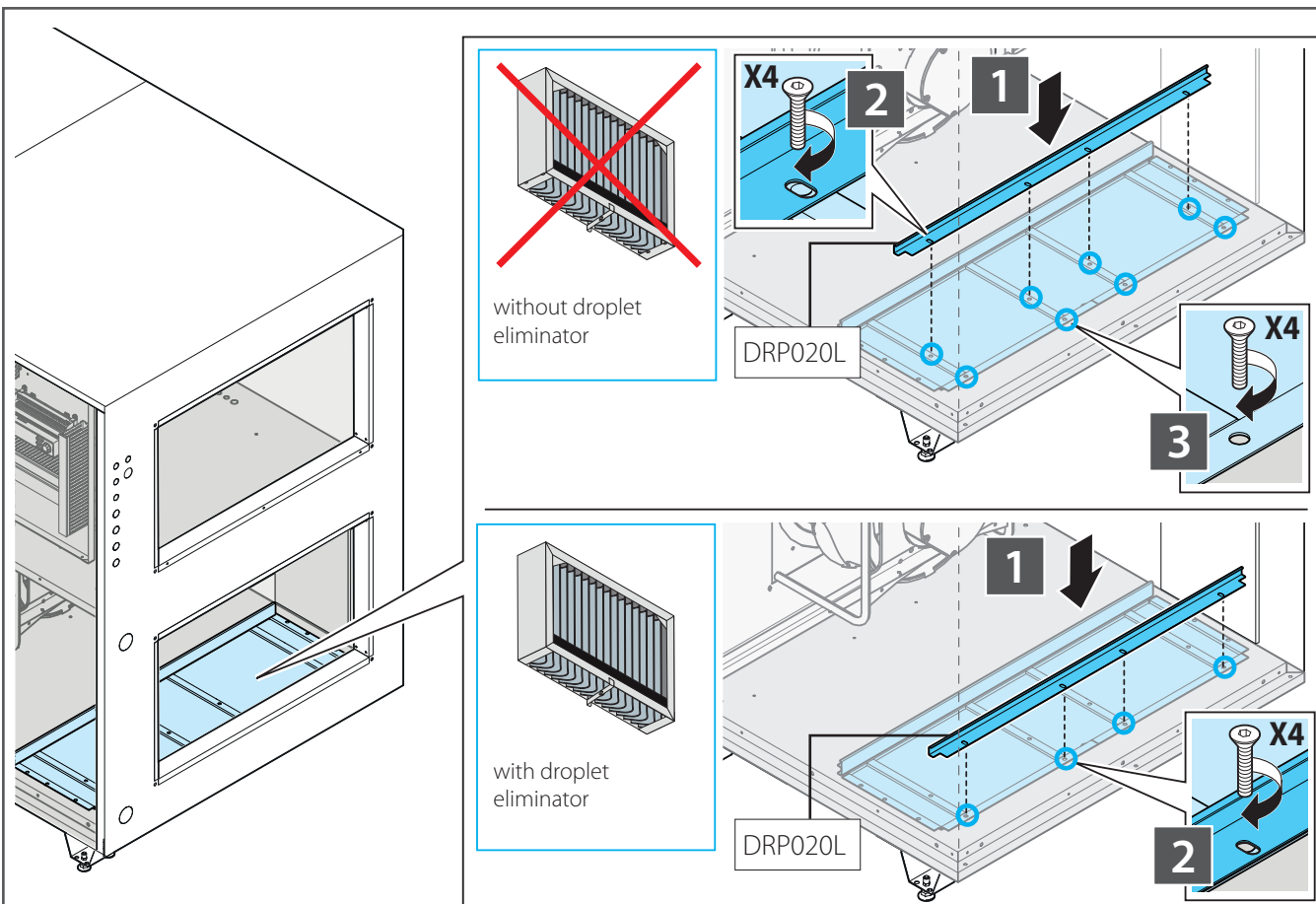




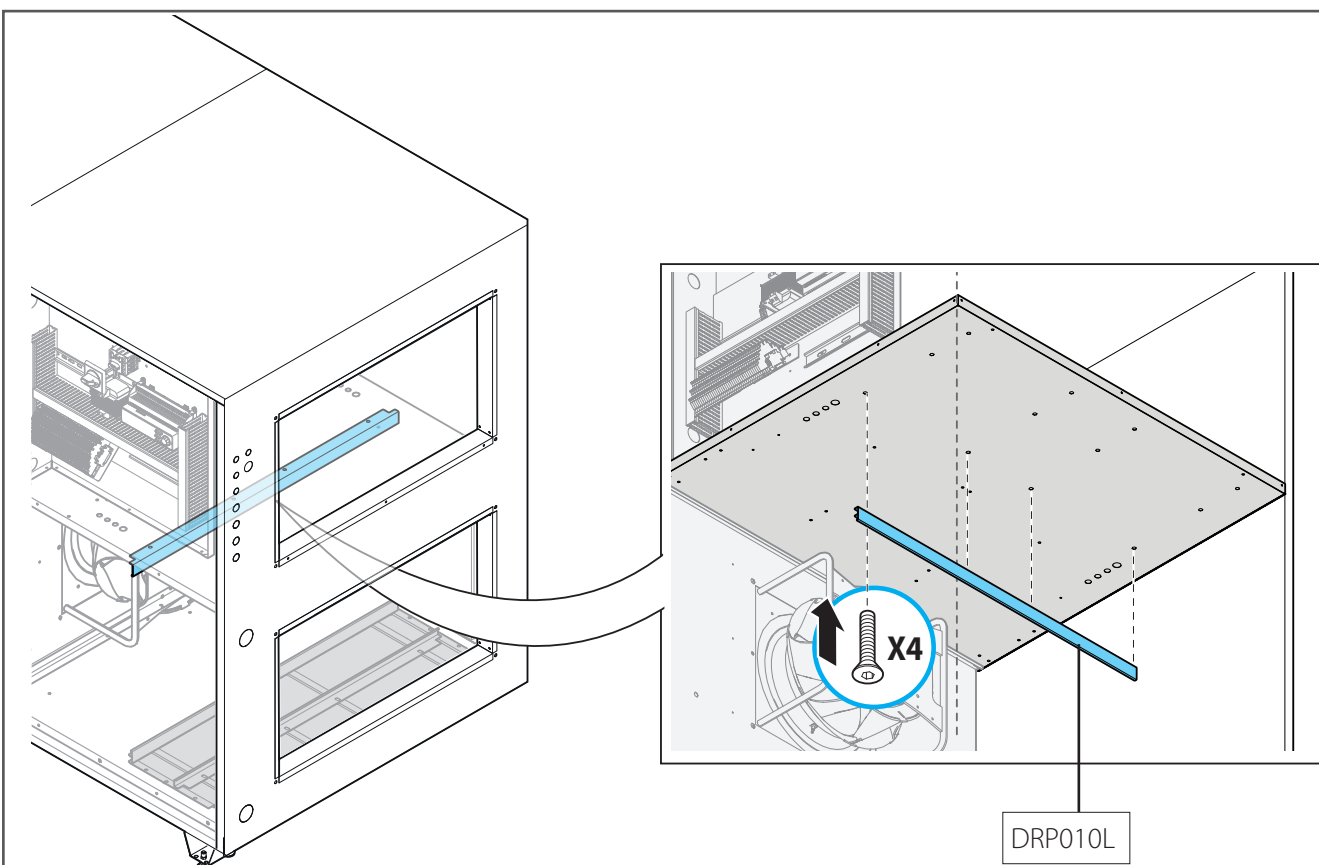
7 Position the drain pan



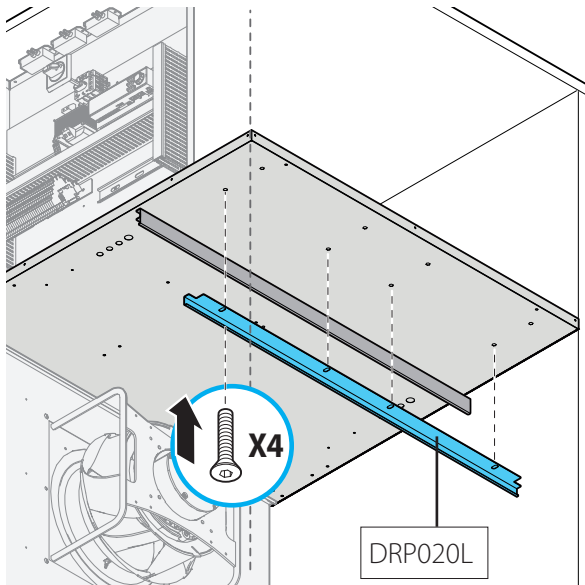
8 Position DRP010L guide



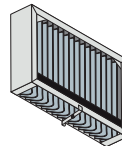
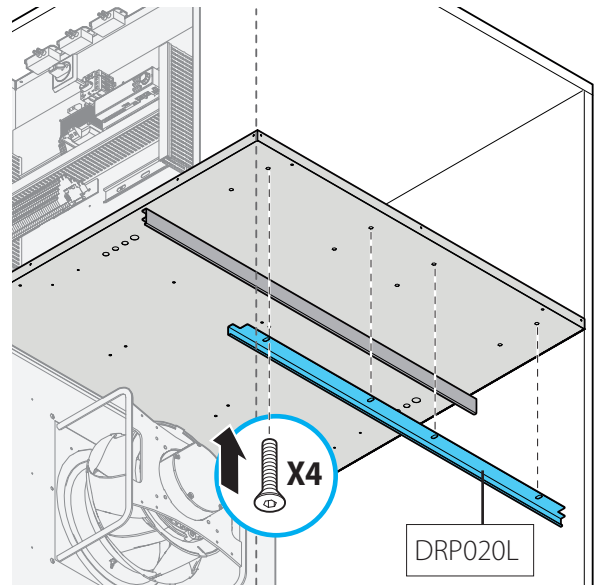
9 Position DRP020L guide



10 Position DRP010L guide



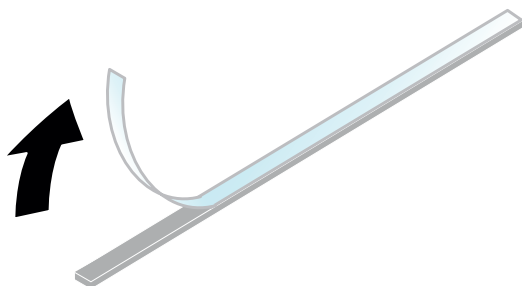
without droplet
eliminator



with droplet
eliminator

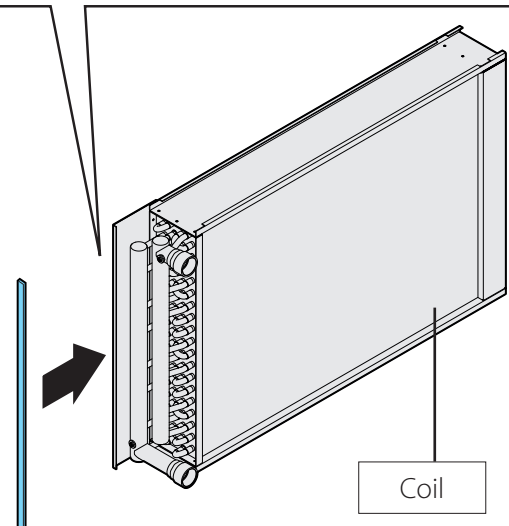
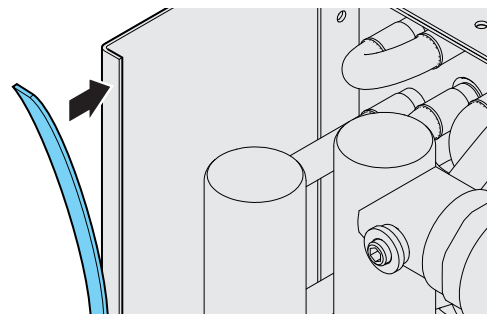
11 Position DRP020L guide

**remove the protective film
from the back of the tight
gasket**

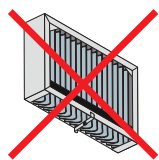


12 Preparation of the tight gasket

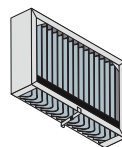
**Pay close attention to the correct
positioning of the tight gasket**



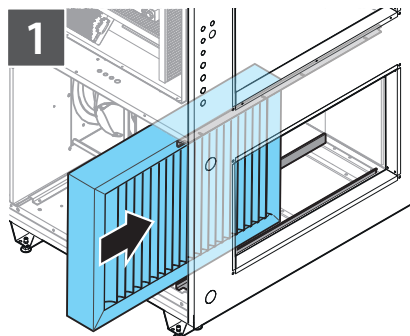
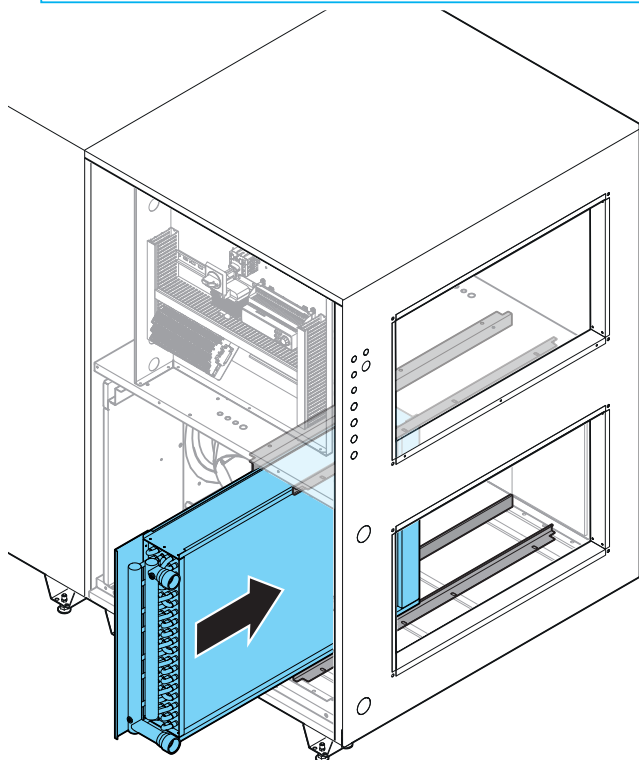
13 Correct application of the tight gasket



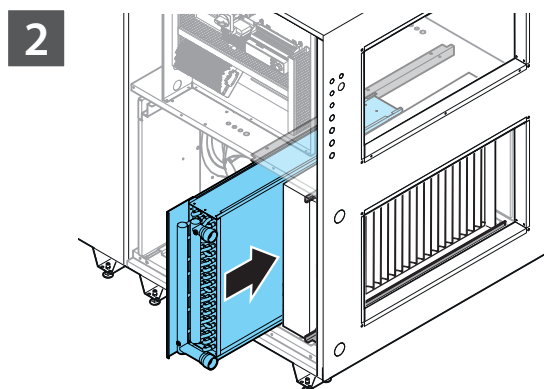
coil installation
without droplet
eliminator



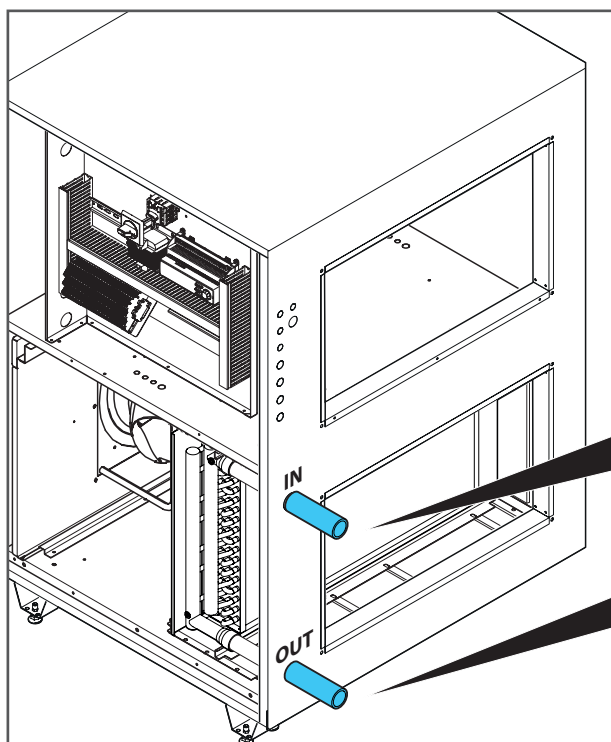
coil installation
with droplet
eliminator



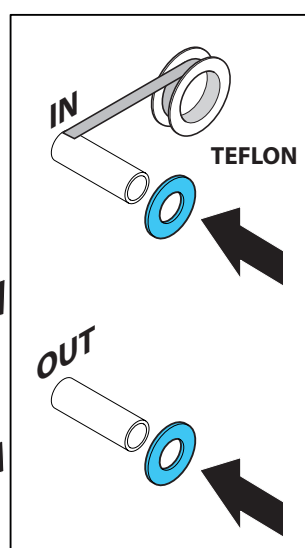
ARA01DEA
ARA02DEA
ARA03DEA
ARA04DEA
ARA05DEA
ARA06DEA
ARA07DEA



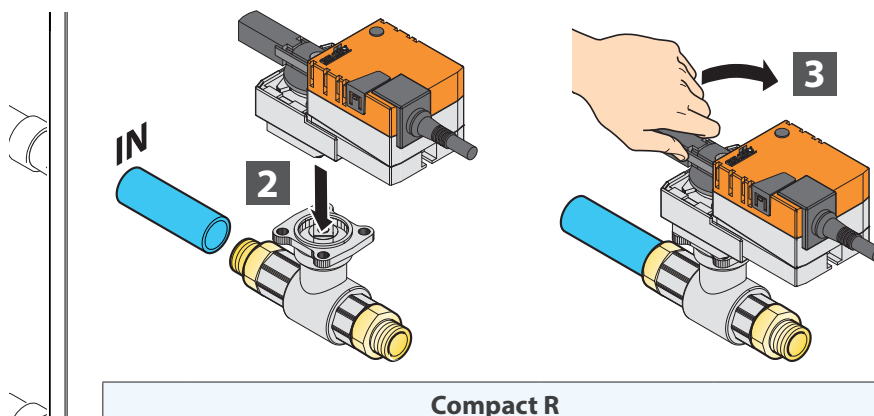
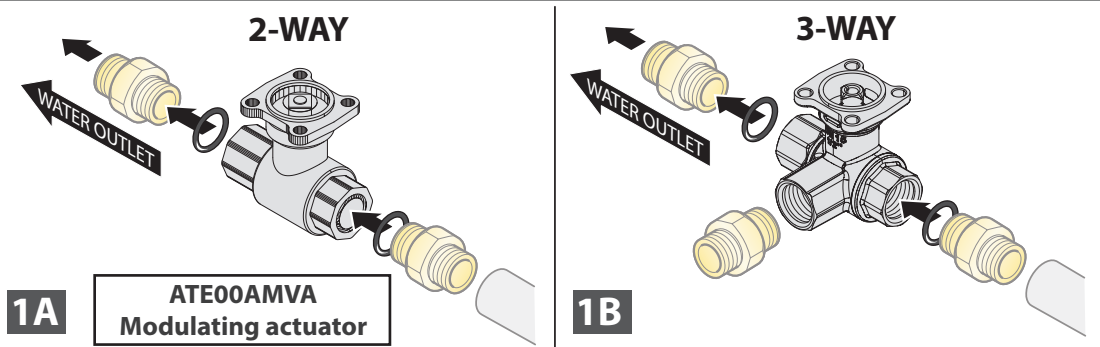
14 Coil installation



Internal water coils



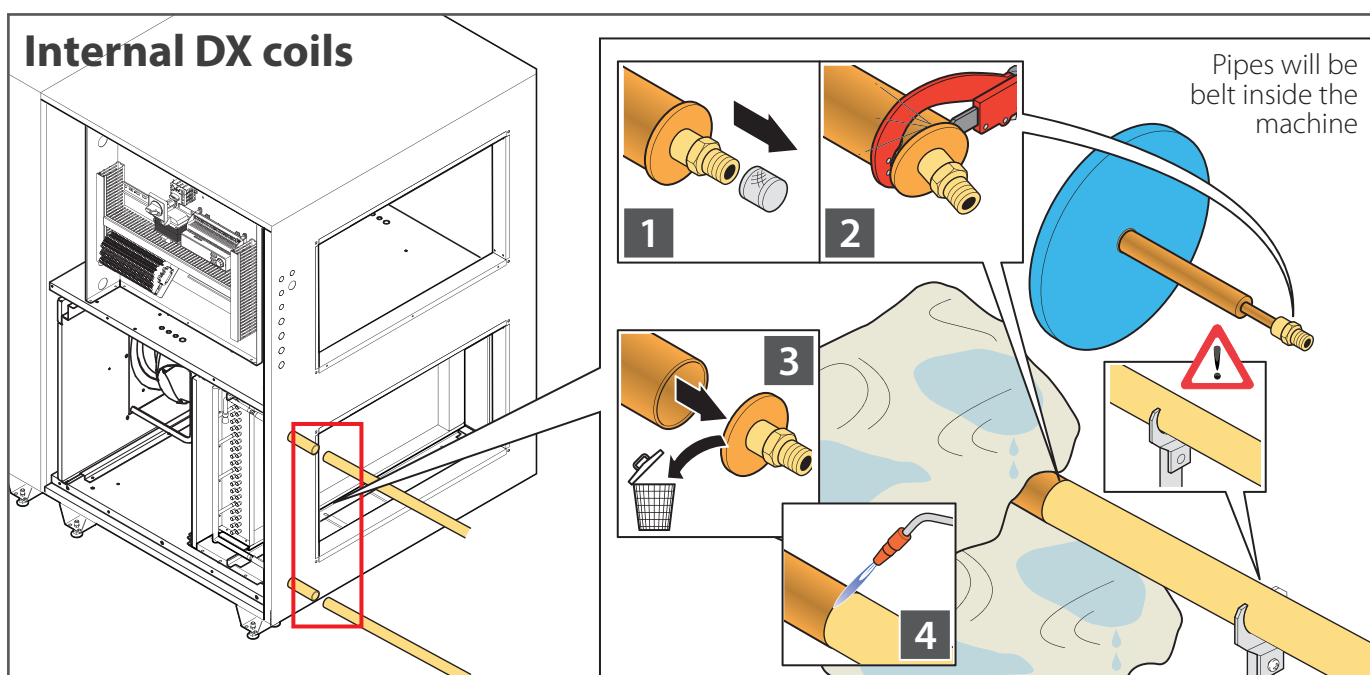
15 Extension pipes installation



Compact R				
Size	cooling water valves		valve DN [inch]	coil DN [inch]
	2 way	3 way		
01	ATV03CW2A	ATV03CW3A	1/2	3/4
02	ATV04CW2A	ATV04CW3A	1/2	3/4
03	ATV04CW2A	ATV04CW3A	1/2	3/4
04	ATV05CW2A	ATV05CW3A	3/4	3/4
05	ATV05CW2A	ATV05CW3A	3/4	1
06	ATV07CW2A	ATV06CW3A	1	1
07	ATV07CW2A	ATV06CW3A	1	1

16 Valve and actuator installation (opt.)

Internal DX coils



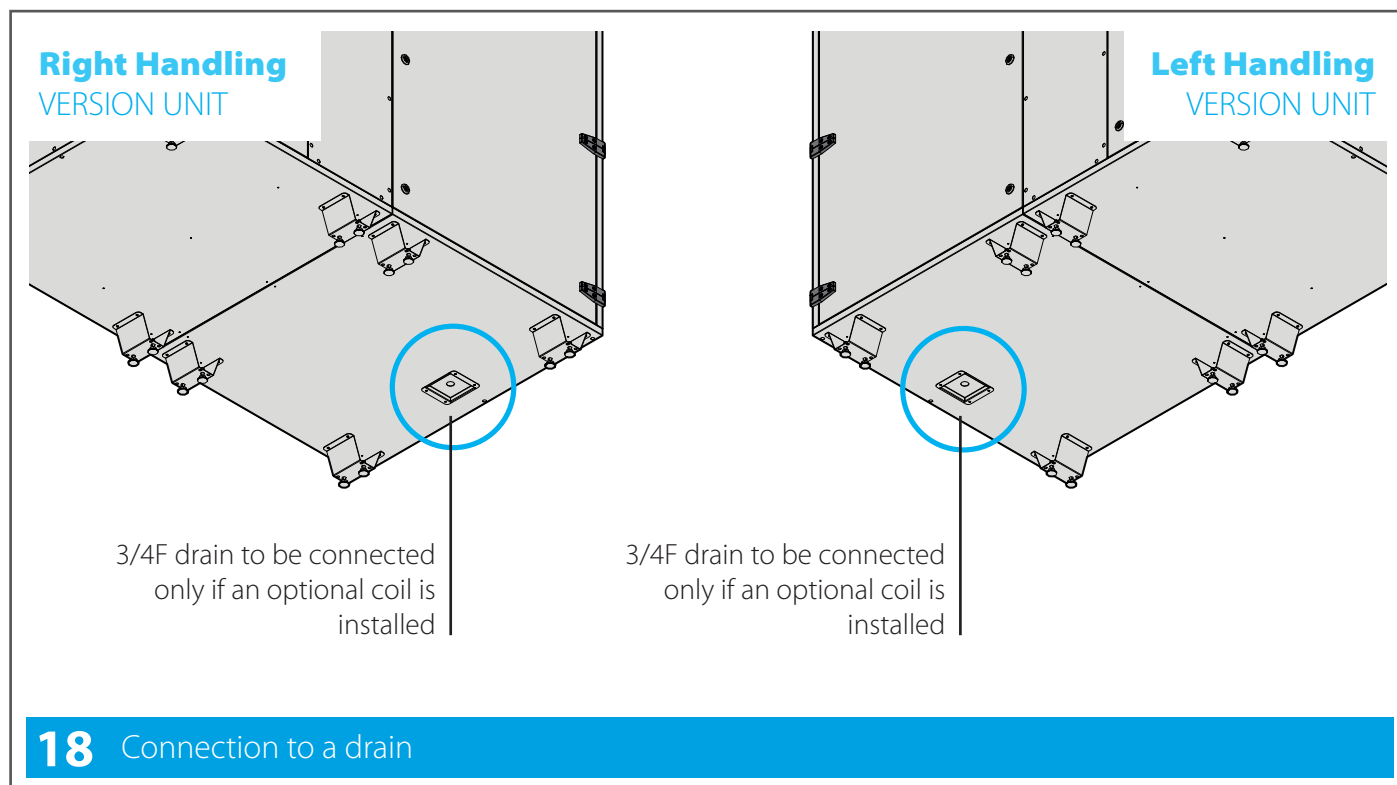
17 Pipes welding procedure

Acceptability limits of the quality of the water supplying the coils

PH(25°)	6.8÷8.0
Electrical conductivity $\mu\text{S}/\text{cm}$ (25°)	< 800
Chloride ion (mg Cl-/ l)	< 200
Sulphate ion (mg SO ₂₄ -/ l)	< 200
Total hardness (mg CaCO ₃ / l)	< 200

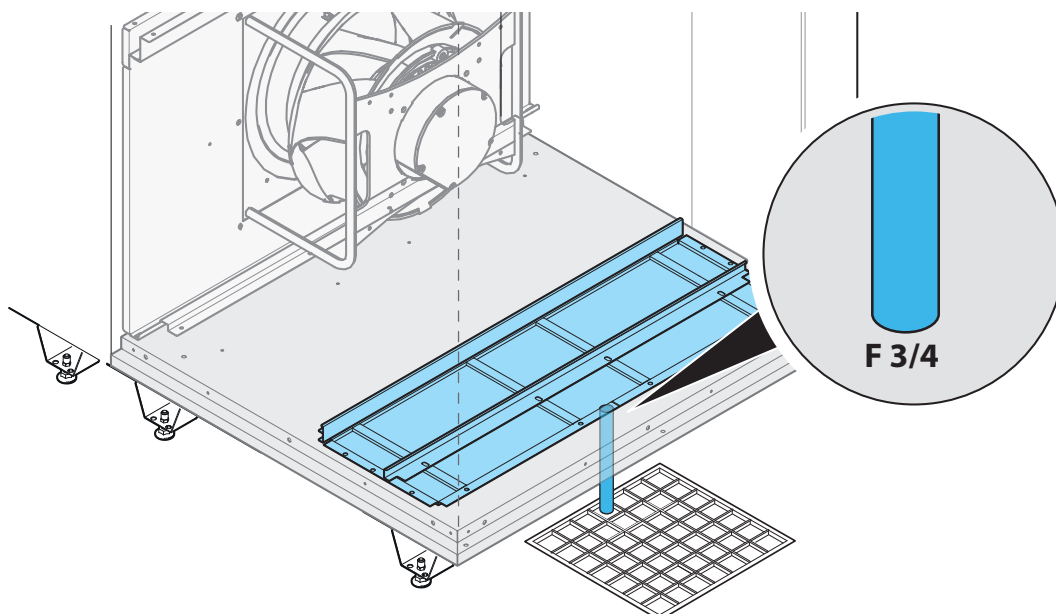
Iron (mg Fe / l)	< 1.0
Sulphide ion (mg S ₂ - / l)	None
Ammonium ion (mg NH ₄ + / l)	< 1.0
Silica (mg SiO ₂ / l)	< 50
Antifreeze	< 60%

The units are equipped with two 3/4" F drains in the lower part: the drain must only be connected if an optional DX or hot/cold water coil has been installed

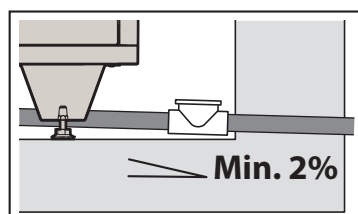
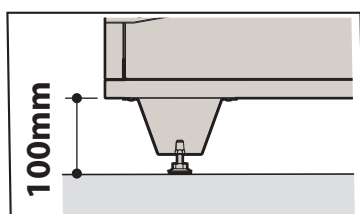
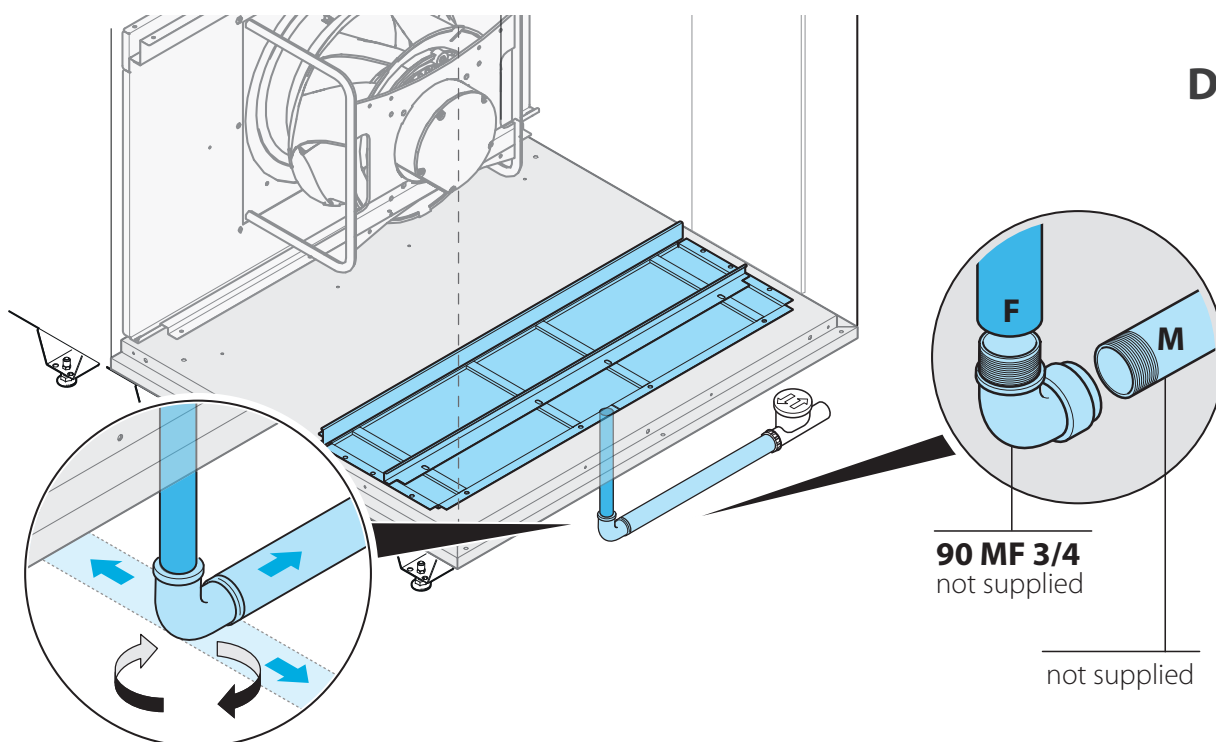


In order to absorb any recovery of air or sewage and to make the correct flow of drain water visually controllable, **each drain must be equipped with a siphon** (not supplied). To avoid overflows from the drain pan, the siphon must be equipped with **a drain** that allows the removal of the impurities that settle on the bottom; moreover, in order not to jeopardize the operation of the drain system, siphons operating under pressure must NOT be connected with others operating under depression. The choice of the type of siphon and its correct installation is the responsibility of the installer.

Floor DRAIN



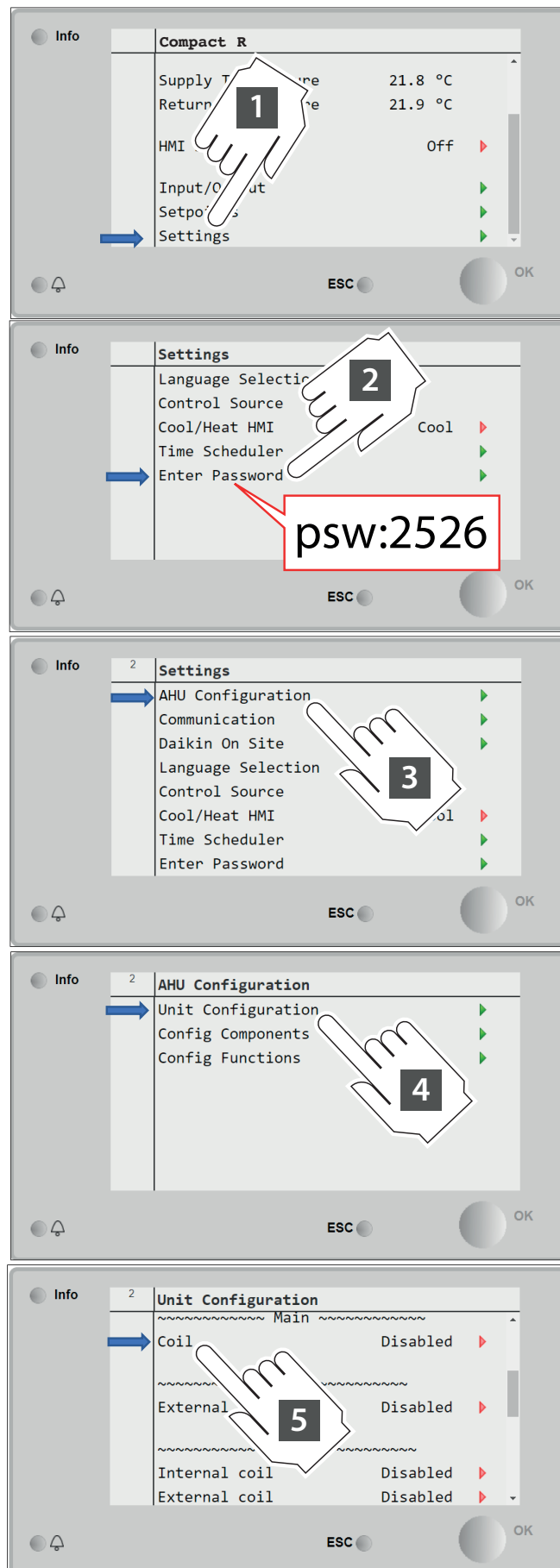
Wall DRAIN

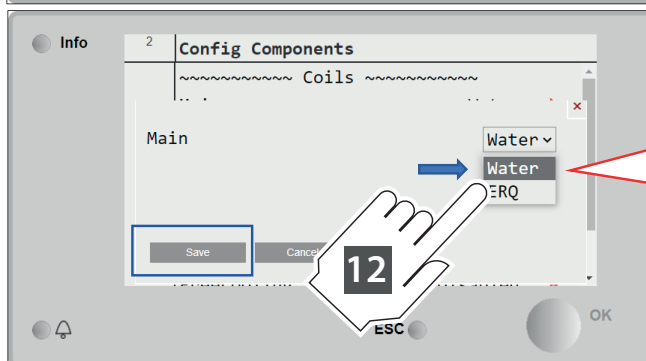
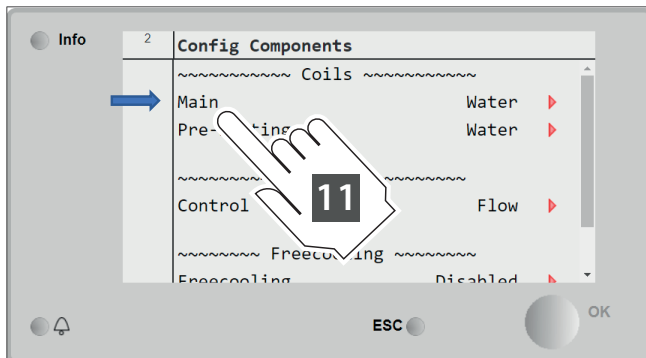
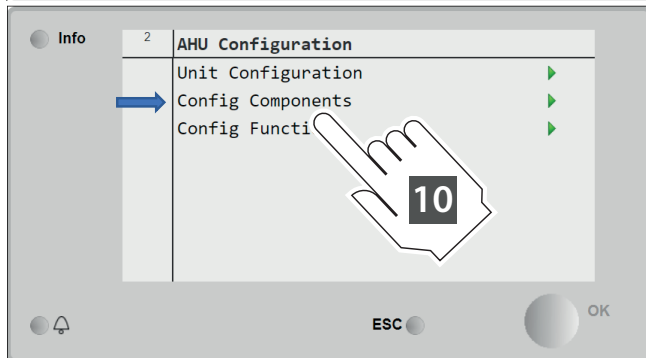
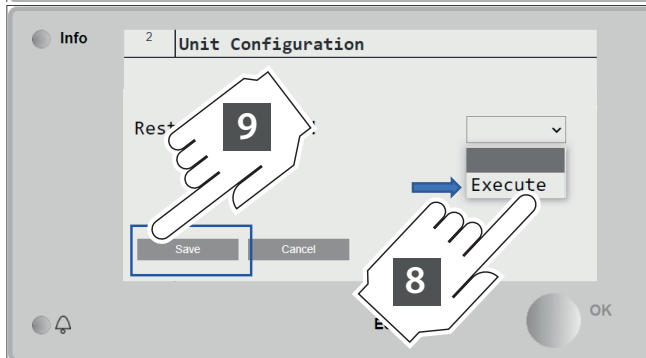
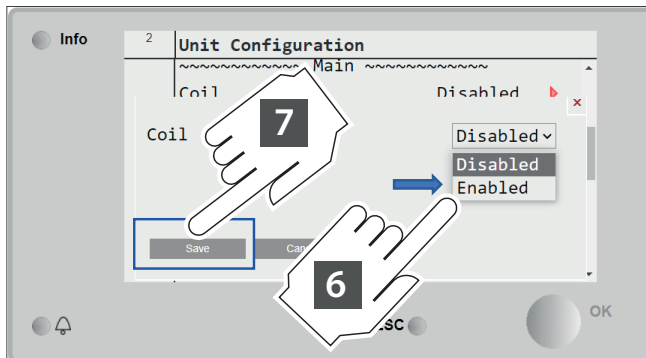


The drain pipe must have a larger diameter than the unit drain (3/4 "F) and a minimum inclination of 2% in order to guarantee its operation. In case of wall drain, it is advisable to use a 90MF 3/4" fitting (not supplied) to avoid narrowing in the drain pipe.

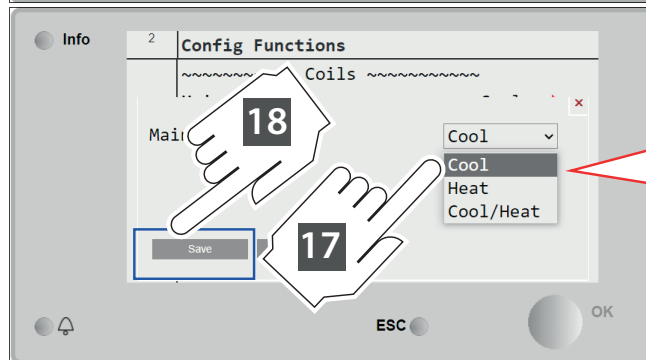
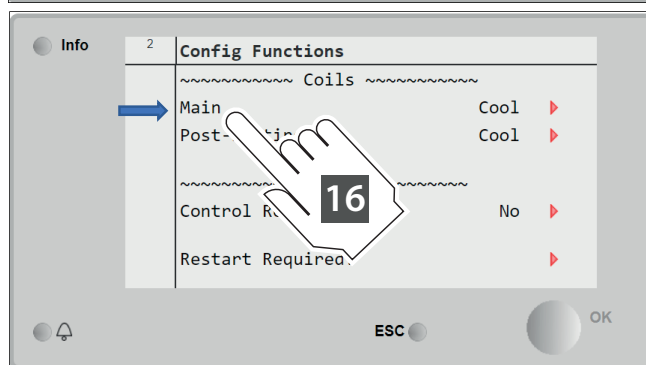
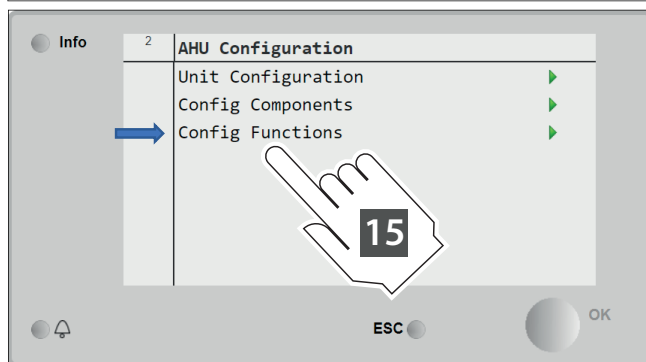
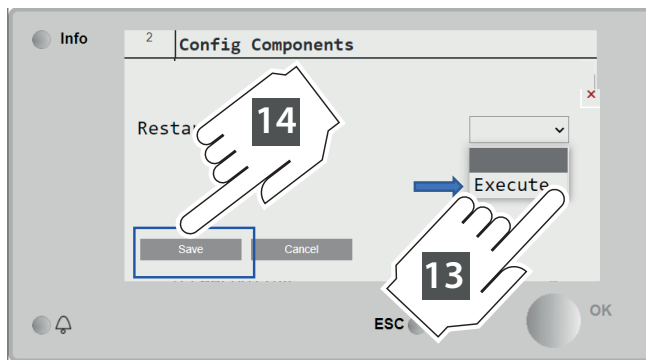
Software setup

Commissioning module ALC00895A is required



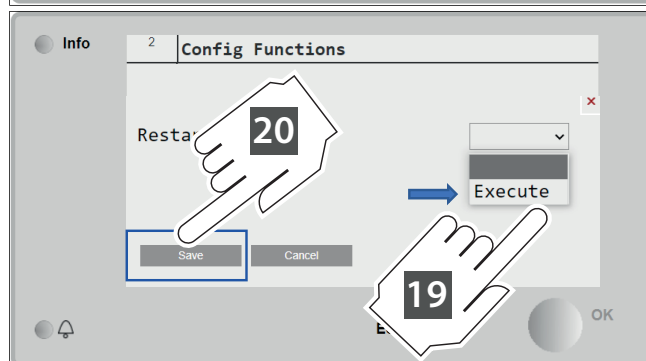


WATER -> Cooling coil water
ERQ -> DX Cooling coil



Select whether the coil is
will work as:

- cooling
- heating
- mixing (cooling/heating)

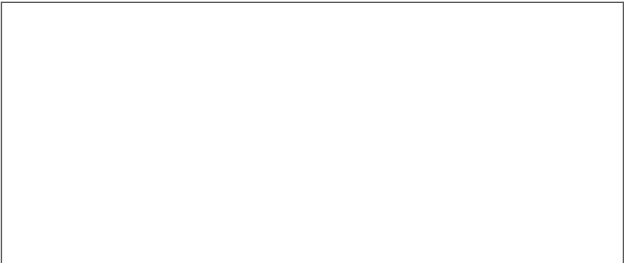


Note

Note

Note

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