

Installation manual

Additional Filters Modular T

D-EIMOC2009-20_00EN



› Modular T

Original translations

REV	00
DATE	January 2023
REPLACES	

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

ADDITIONAL FILTERS

Size	Unit	Description	Material Name
03	ATB03*A	ISO COARSE 55% (G4) filter ePM10 75% (M5) filter ePM1 50% (F7) filter ePM1 80% (F9) filter	ATF03G4A ATF03M5A ATF03F7A ATF03F9A
04	ATB04*A	ISO COARSE 55% (G4) filter ePM10 75% (M5) filter ePM1 50% (F7) filter ePM1 80% (F9) filter	ATF04G4A ATF04M5A ATF04F7A ATF04F9A
05	ATB05*A	ISO COARSE 55% (G4) filter ePM10 75% (M5) filter ePM1 50% (F7) filter ePM1 80% (F9) filter	ATF05G4A ATF05M5A ATF05F7A ATF05F9A
06	ATB06*A	ISO COARSE 55% (G4) filter ePM10 75% (M5) filter ePM1 50% (F7) filter ePM1 80% (F9) filter	ATF06G4A ATF06M5A ATF06F7A ATF06F9A
07	ATB07*A	ISO COARSE 55% (G4) filter ePM10 75% (M5) filter ePM1 50% (F7) filter ePM1 80% (F9) filter	ATF07G4A ATF07M5A ATF07F7A ATF07F9A

Please note:

Supply air filter can be installed only whether the heating water coil is not present.

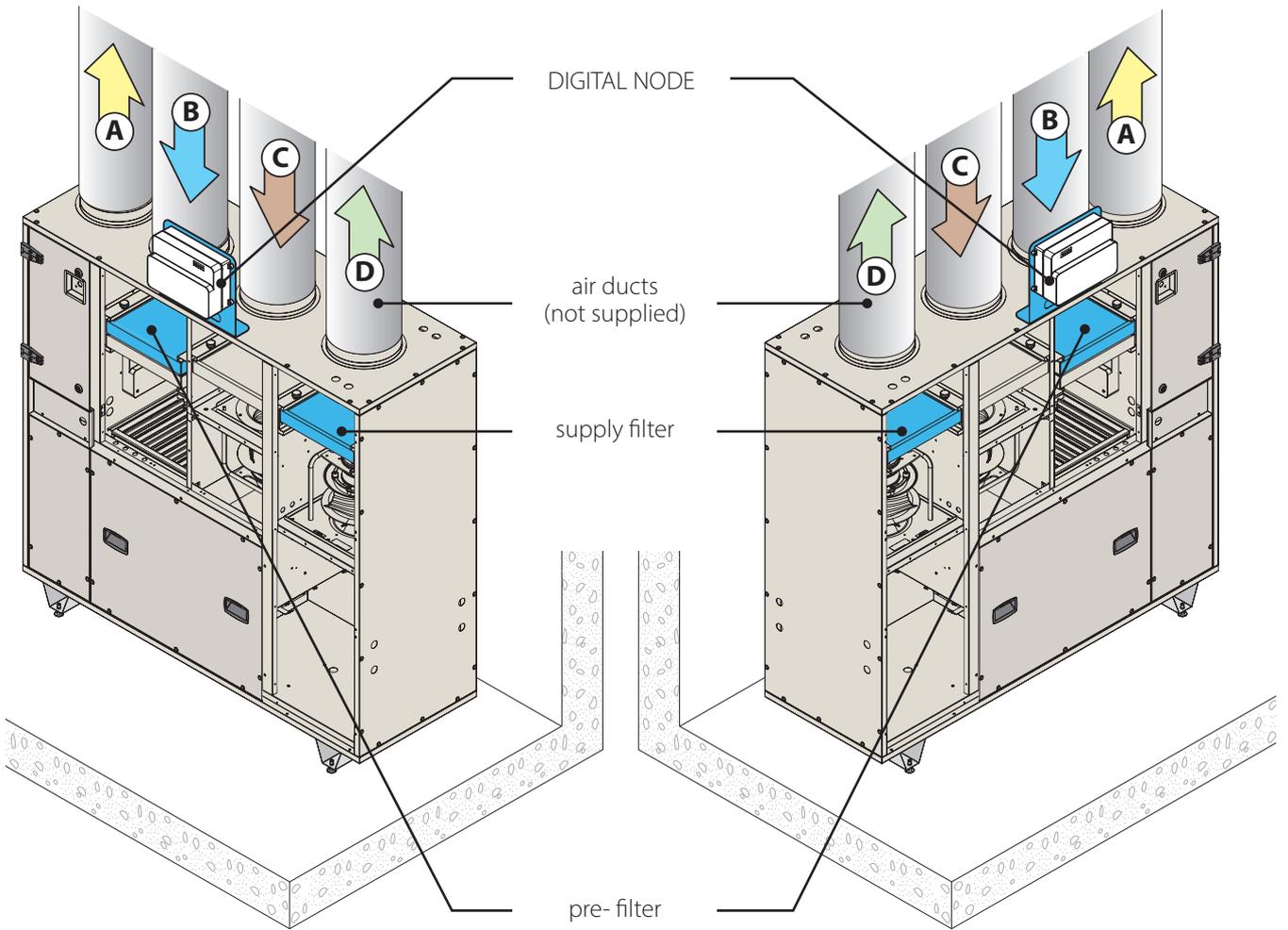
Standard unit is equipped with ePM1 50% (F7) on supply side and ePM10 75% (M5) on return side.

Monitoring the pressure drop for each filter is a requirement of VDI6022 (for air flow above 1000 m³/h). Additional accessory ATE00DPUA is required in case of additional filters (Modular T Pro only).

3 Installation

Right Handling
VERSION MACHINES
ATBR****

Left handling
VERSION MACHINES
ATBL****

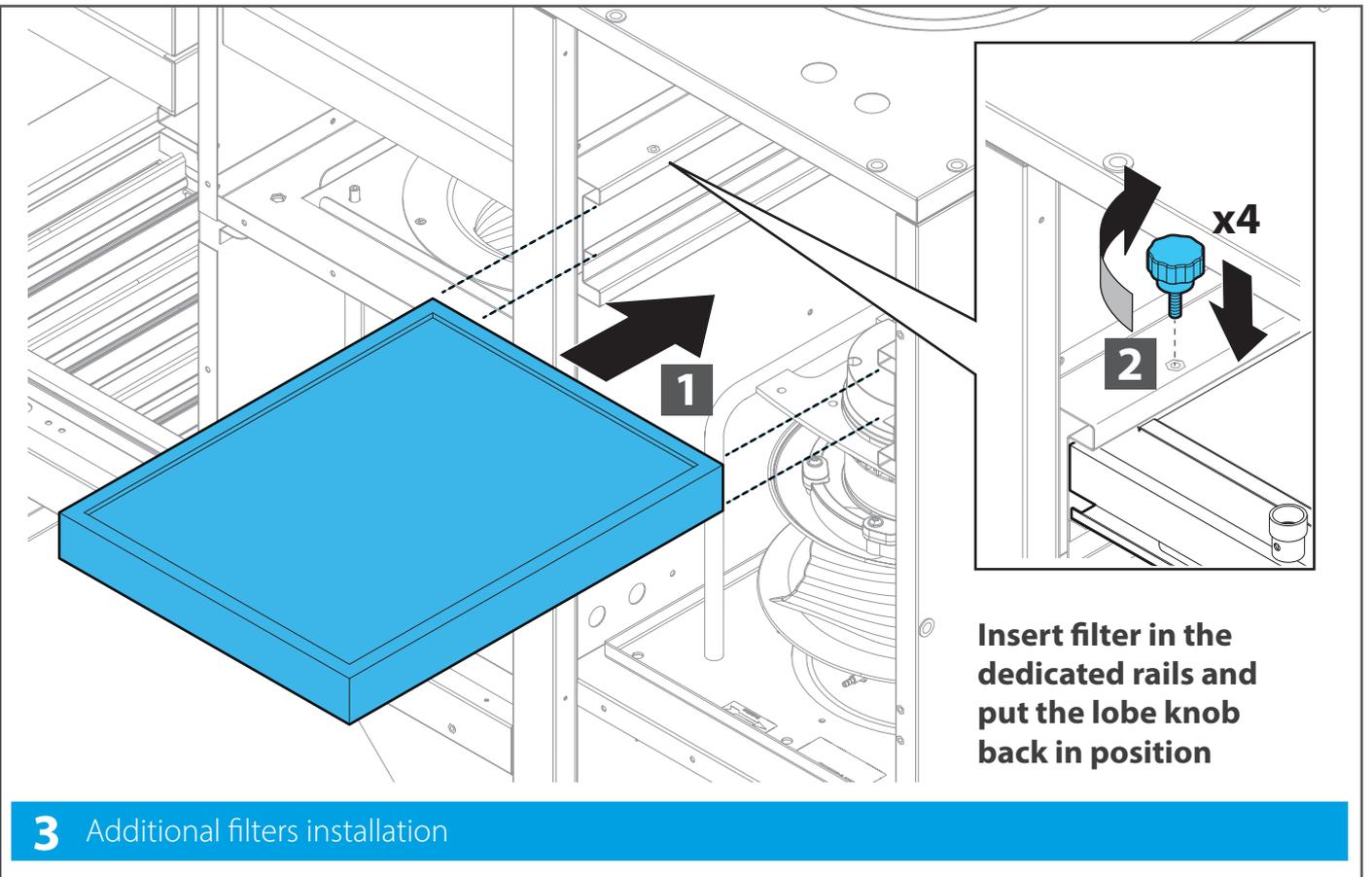
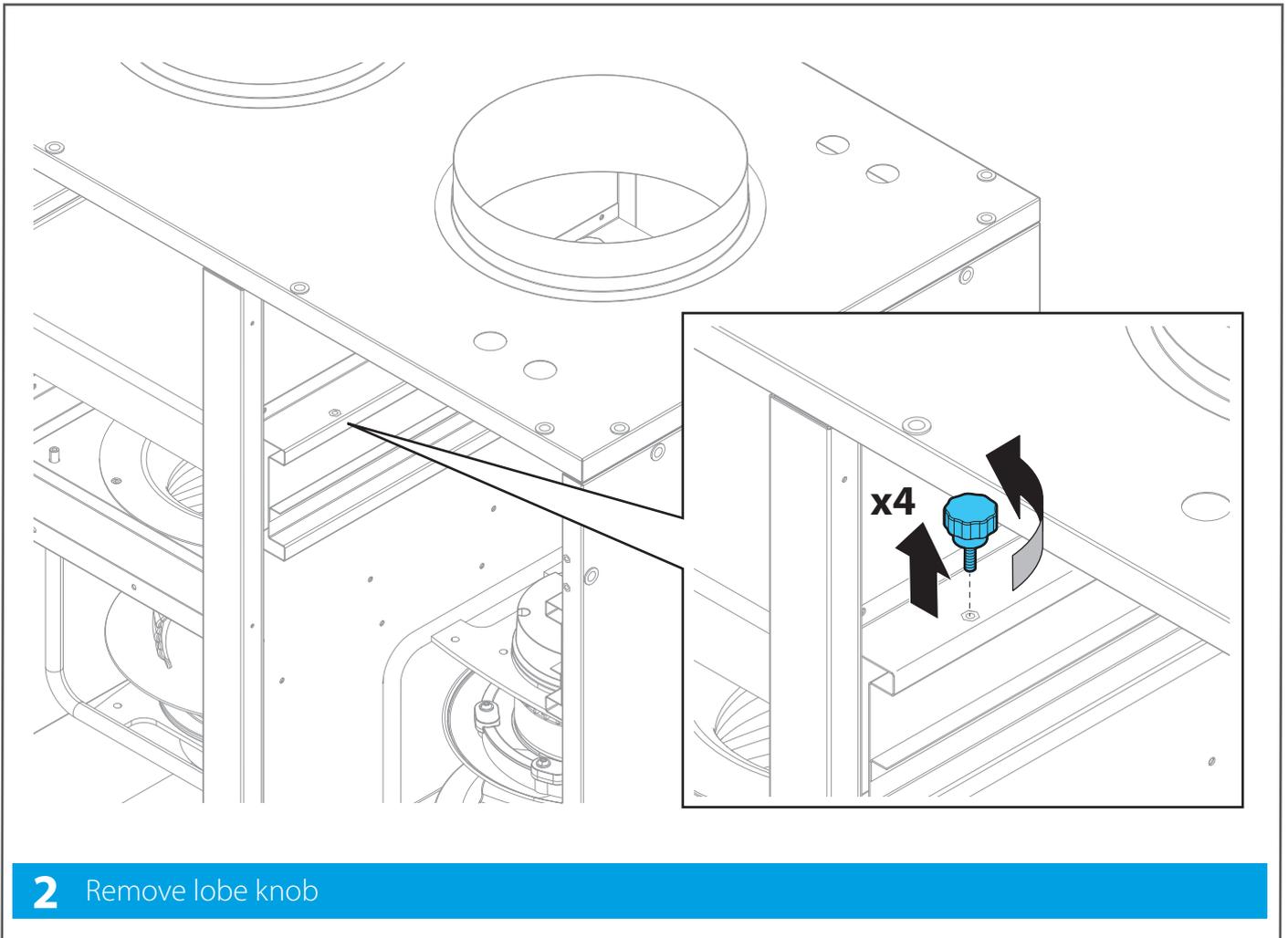


DUCT

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

1 Additional filters position

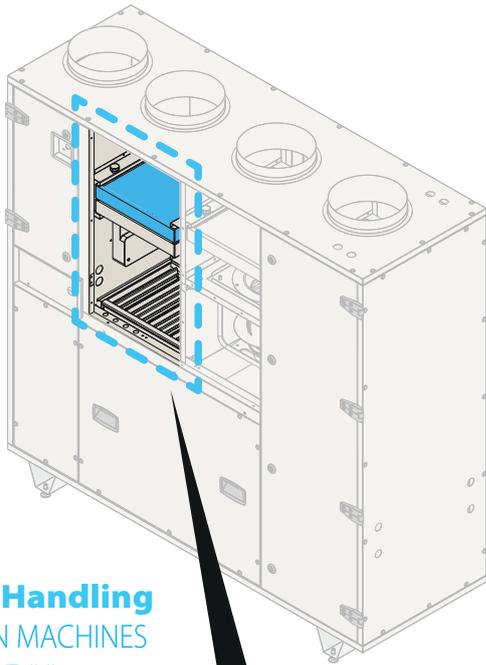
Additional filters mounting (the assembly of pre filter and supply filter is the same)



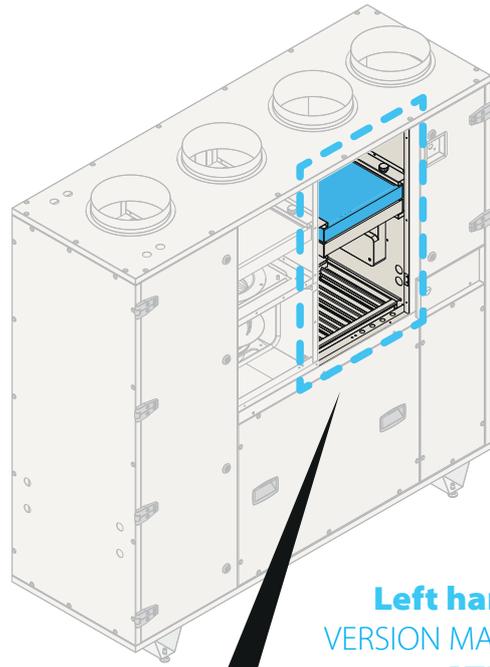
4a Connection (only for Modular T Pro)

Filter threshold table				
Size	Unit	Description	Warning threshold (Pa)	Fault threshold (Pa)
03	ATB03*A	ISO COARSE 55% (G4) filter	125	250
		ePM10 75% (M5) filter	160	330
		ePM1 50% (F7) filter	200	380
		ePM1 80% (F9) filter	300	450
04	ATB04*A	ISO COARSE 55% (G4) filter	150	300
		ePM10 75% (M5) filter	200	400
		ePM1 50% (F7) filter	230	460
		ePM1 80% (F9) filter	360	540
05	ATB05*A	ISO COARSE 55% (G4) filter	140	270
		ePM10 75% (M5) filter	180	360
		ePM1 50% (F7) filter	210	420
		ePM1 80% (F9) filter	330	500
06	ATB06*A	ISO COARSE 55% (G4) filter	140	270
		ePM10 75% (M5) filter	180	370
		ePM1 50% (F7) filter	210	420
		ePM1 80% (F9) filter	330	500
07	ATB07*A	ISO COARSE 55% (G4) filter	150	290
		ePM10 75% (M5) filter	200	390
		ePM1 50% (F7) filter	230	450
		ePM1 80% (F9) filter	350	530

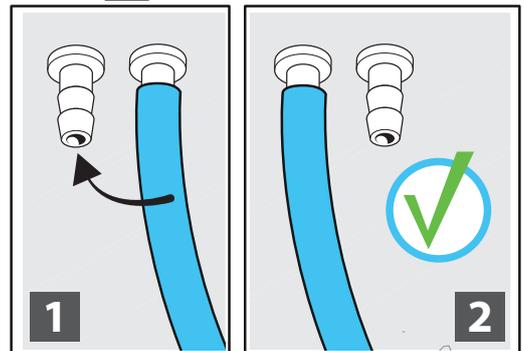
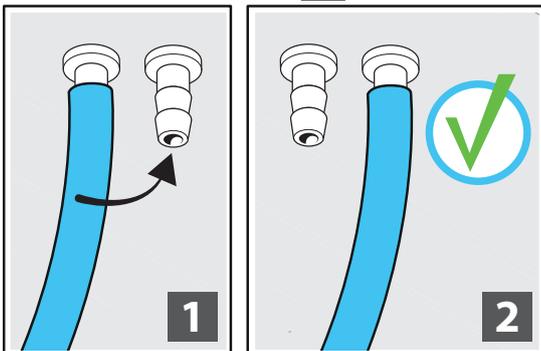
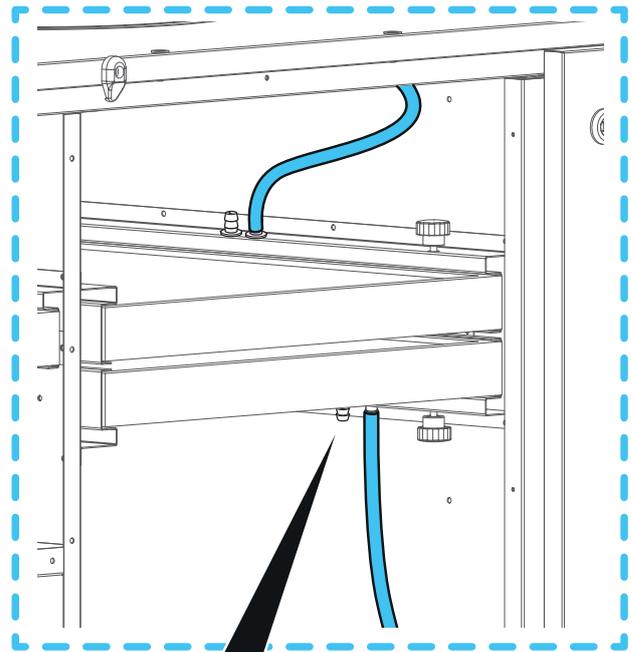
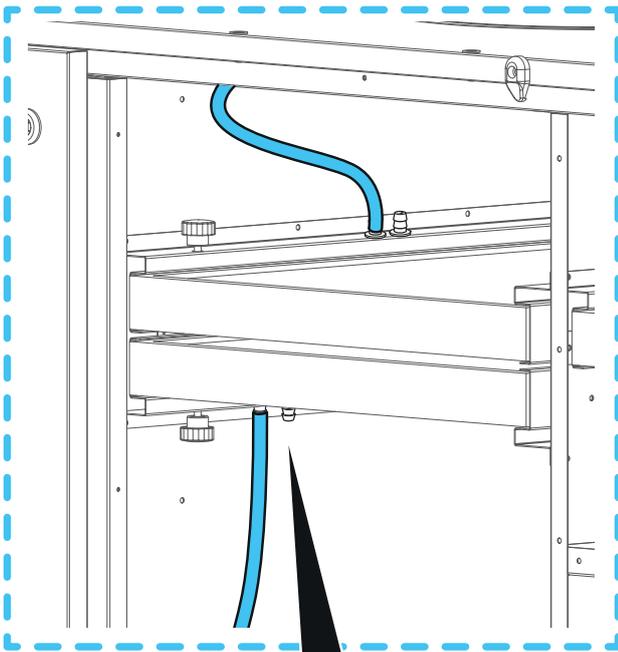
ADDITIONAL PRE-FILTER WITHOUT OPTIONAL DIGITAL NODE



Right Handing
VERSION MACHINES
ATBR****



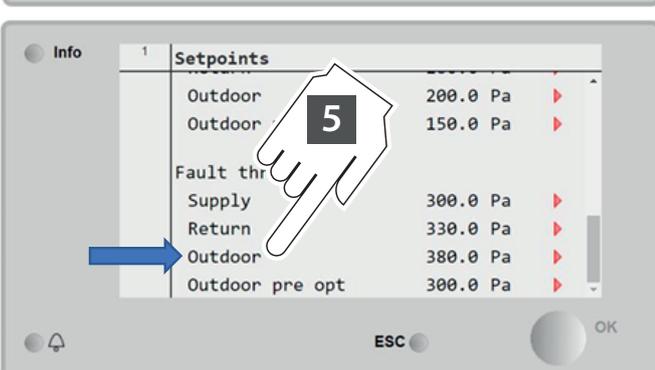
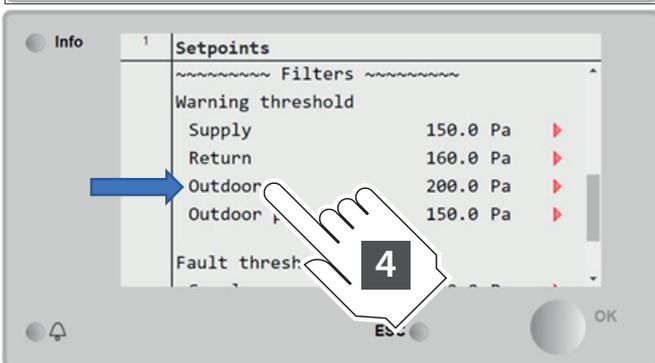
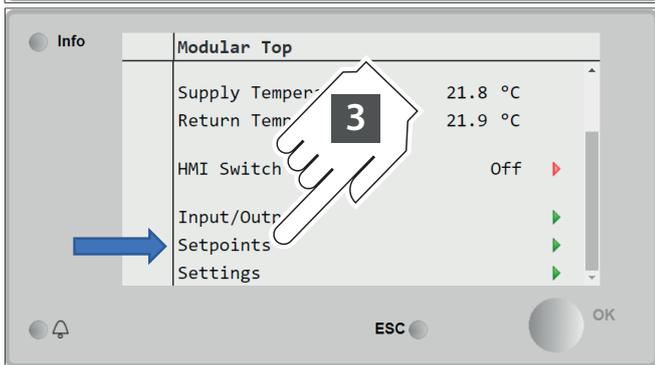
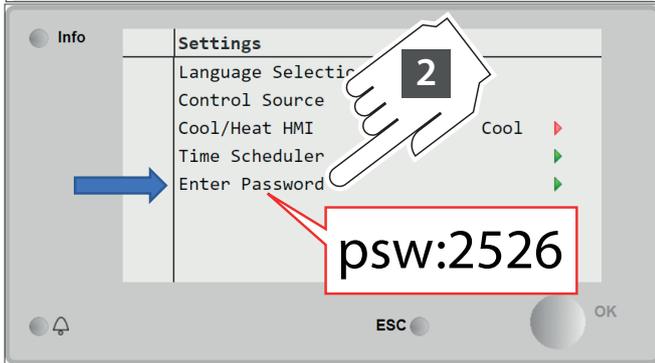
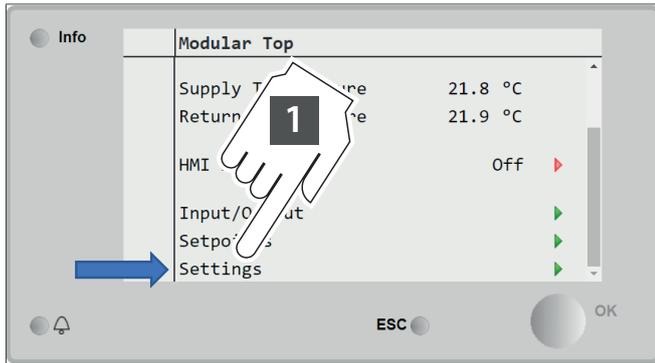
Left handing
VERSION MACHINES
ATBL****



4 Pre-filter connection

Commissioning module ALC00895A is required

The following commissioning steps to be followed if dual stage filters will be monitored using a single transducer only.



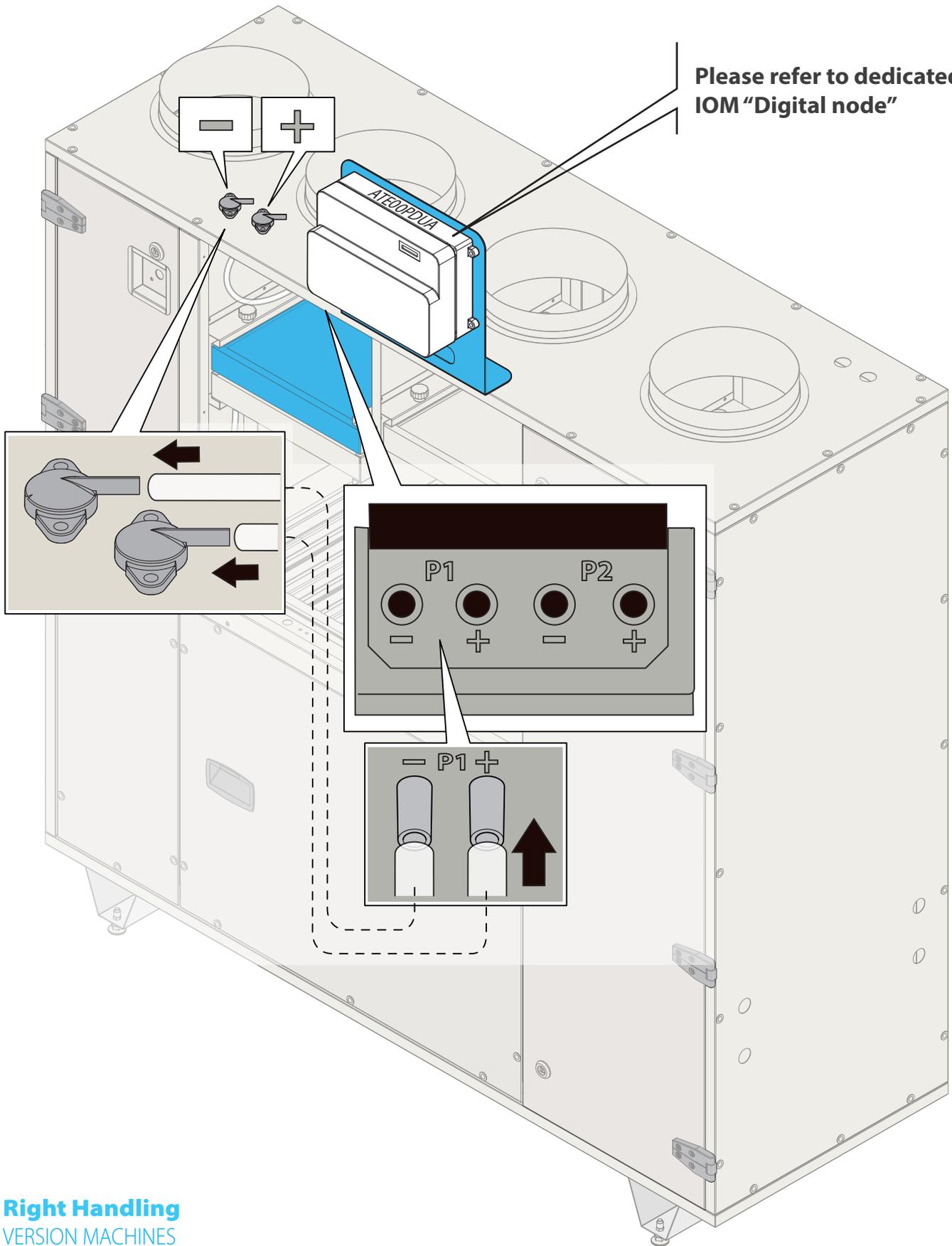
Please refer to the table "Filter threshold table" on page 7 to set the correct warning and fault thresholds.

ADDITIONAL PRE-FILTER

If two filters are combined and controlled by only one pressure switch, set the threshold equal to the sum of the two filters' limits (e.g. if there is a double filtering stage ISO COARSE 55% (G4) + ePM1 50% (F7) on size 03, the threshold value is 125+200 = 325 Pa).

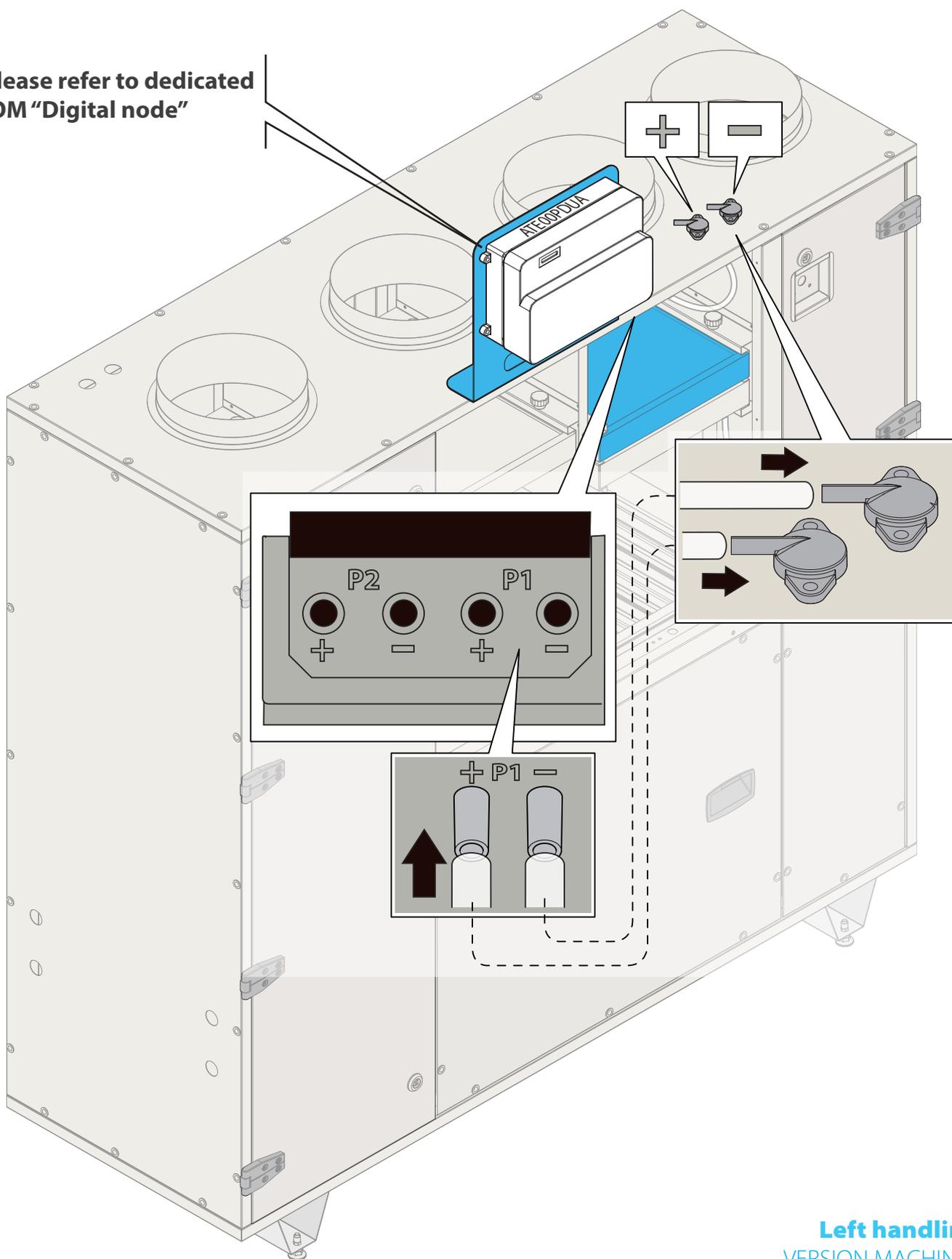
ADDITIONAL PRE-FILTER WITH OPTIONAL DIGITAL NODE

Please refer to dedicated IOM "Digital node"



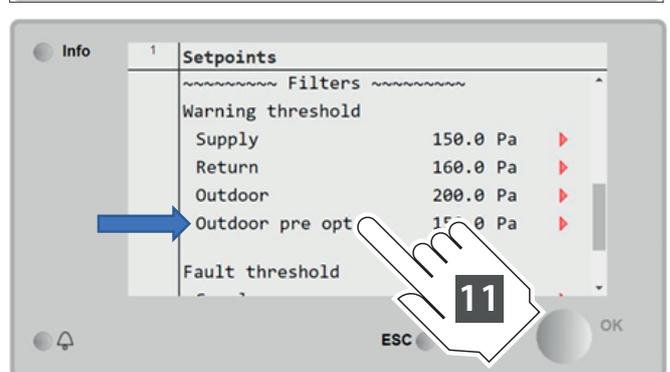
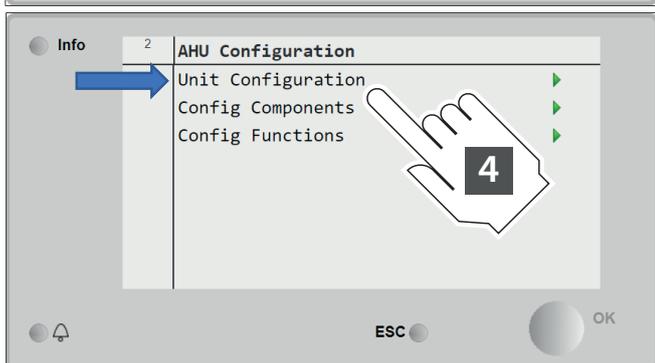
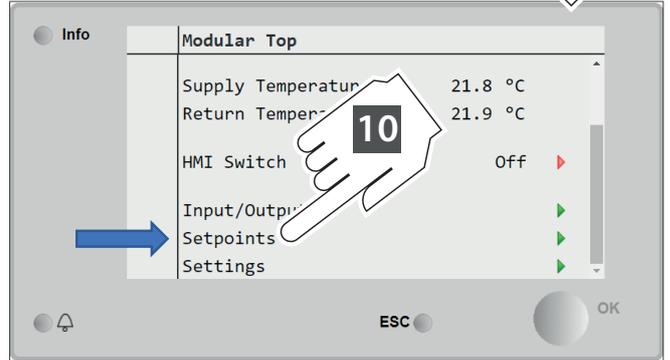
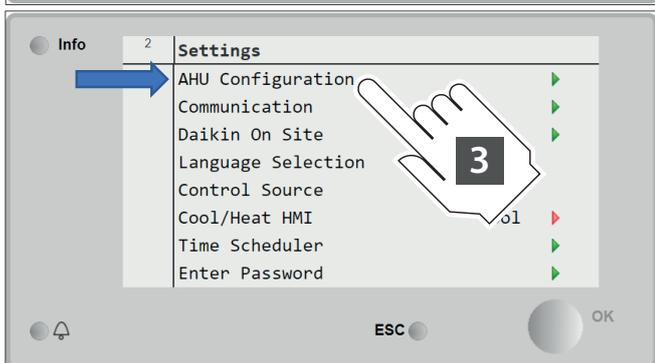
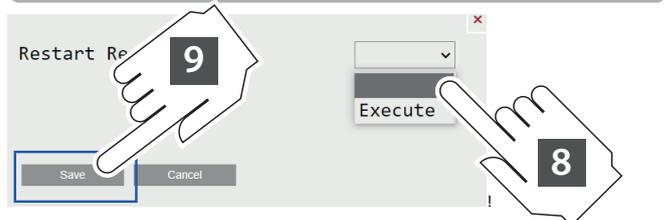
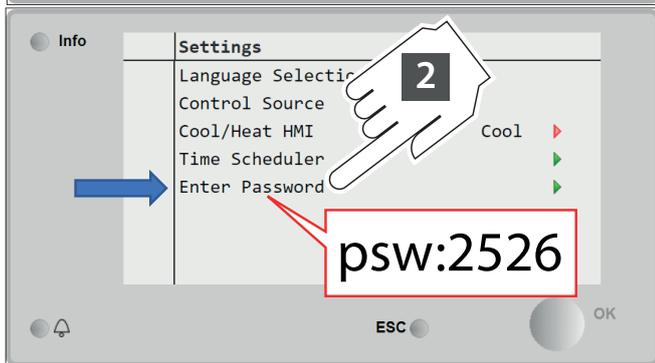
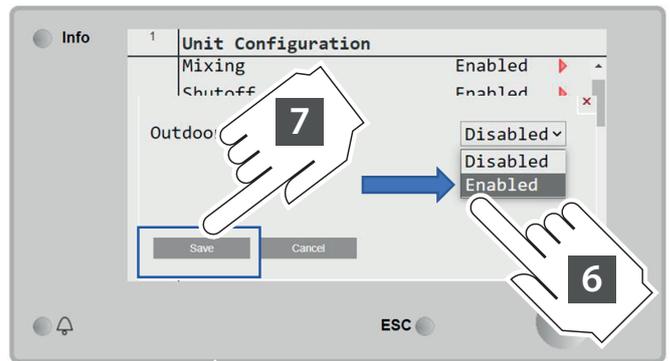
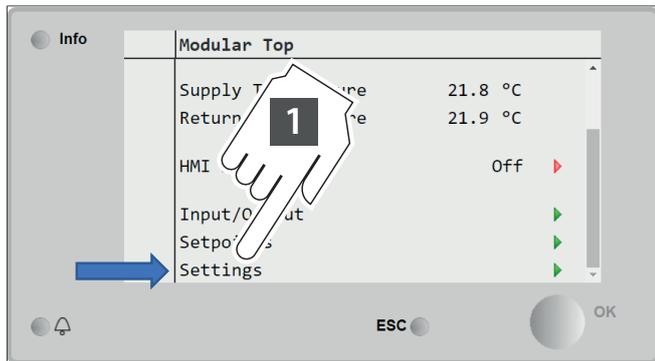
Right Handling
VERSION MACHINES
ATBR****

Please refer to dedicated IOM "Digital node"

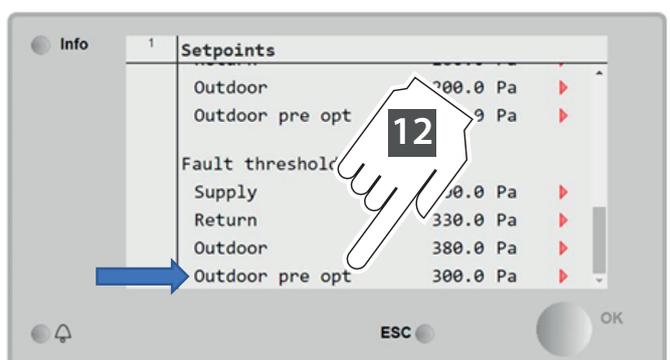
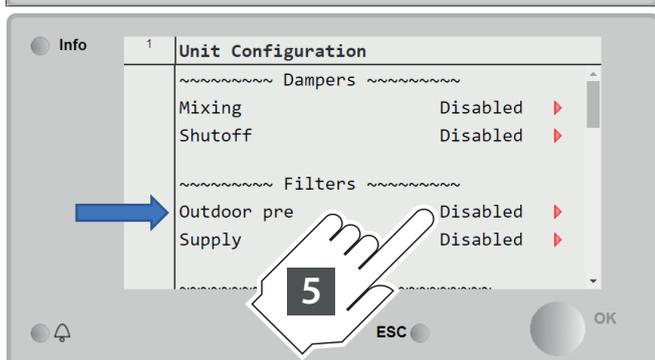


Left handling
VERSION MACHINES
ATBL****

Commissioning module ALC00895A is required

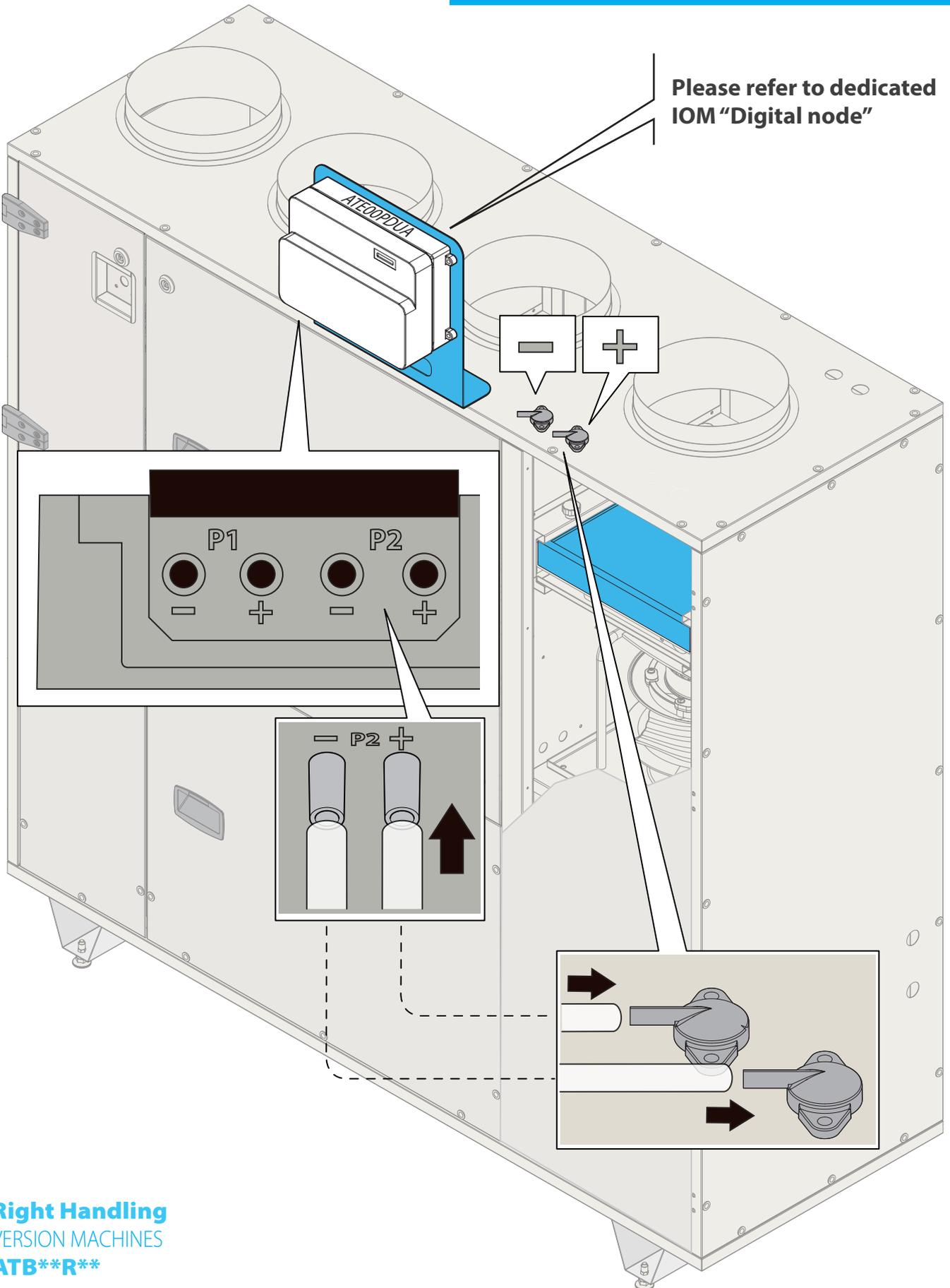


Please refer to the table "Filter threshold table" on page 7 to set the correct warning and fault thresholds.



SUPPLY FILTER

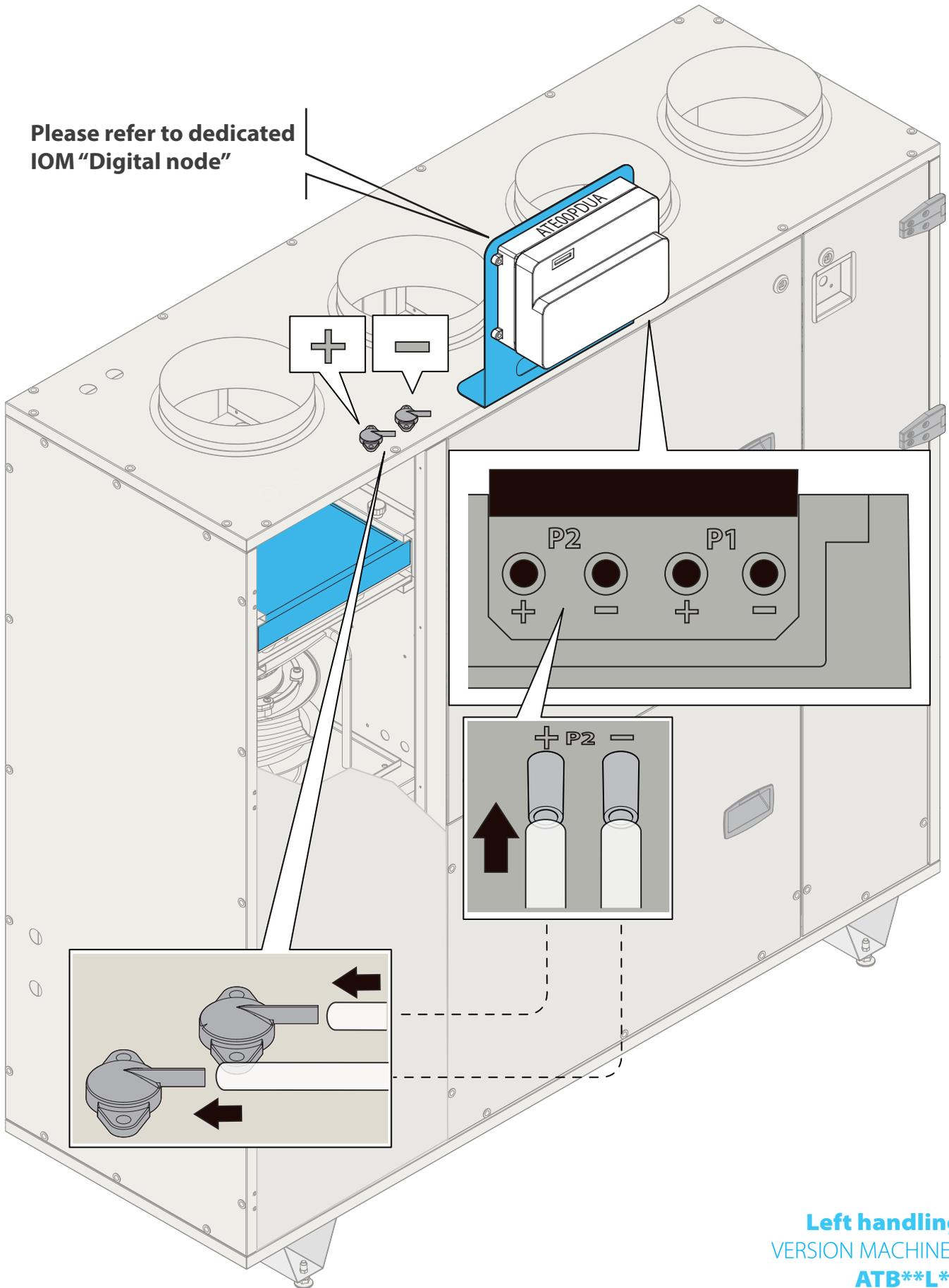
Please refer to dedicated IOM "Digital node"



Right Handling
VERSION MACHINES
ATBR****

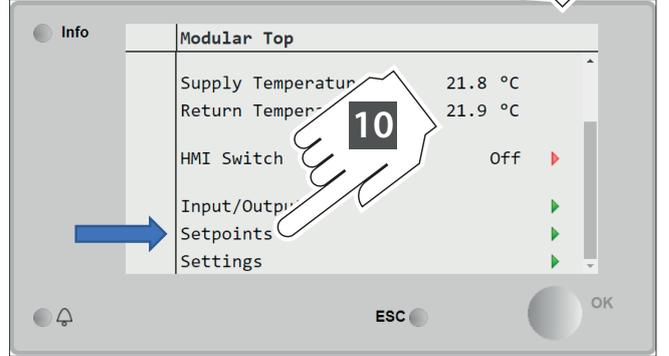
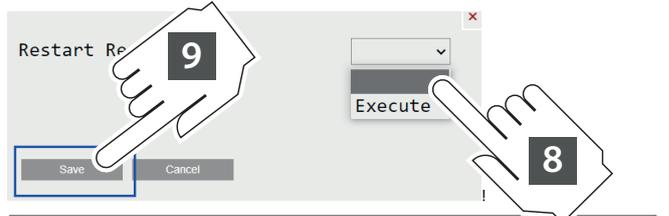
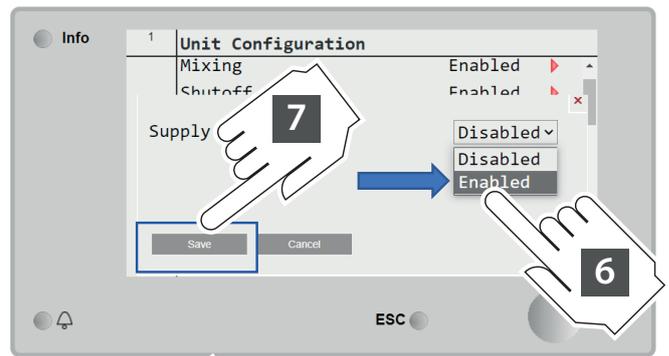
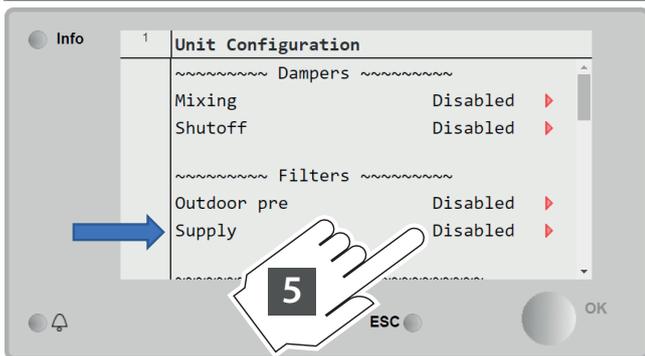
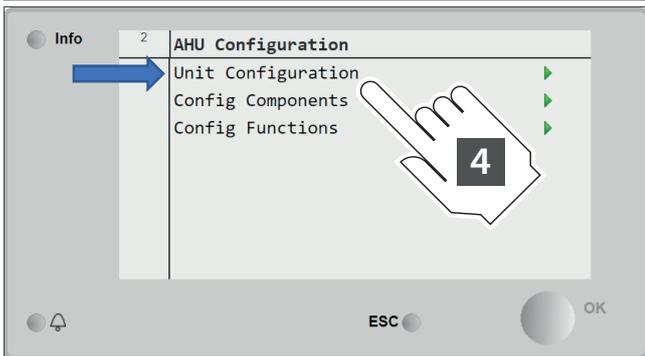
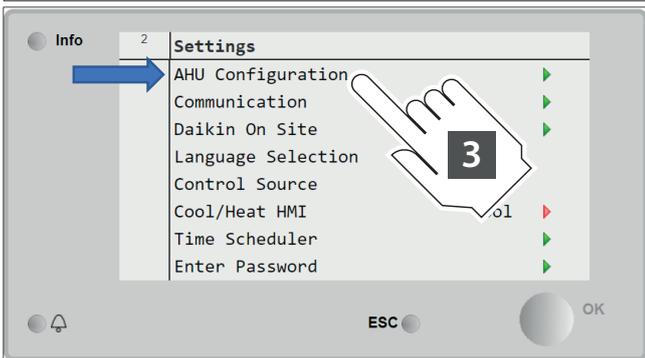
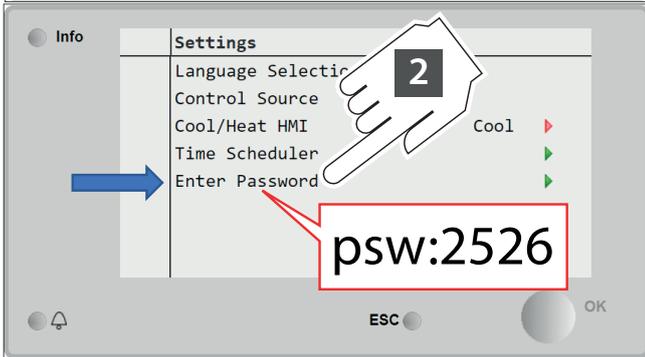
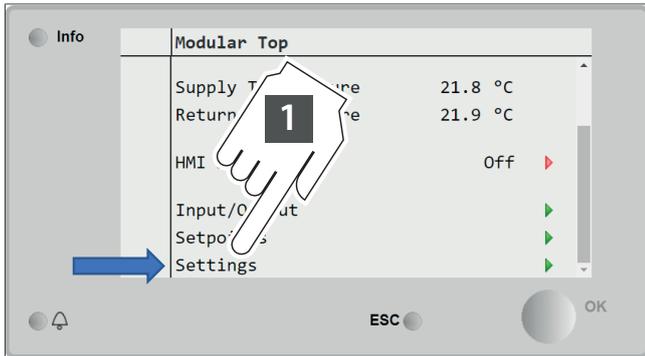
6 Supply filter connection

Please refer to dedicated IOM "Digital node"

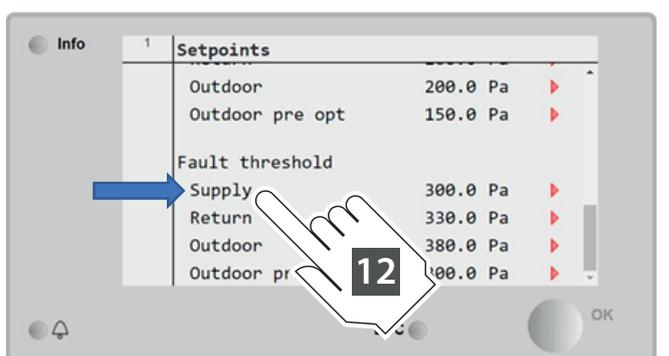
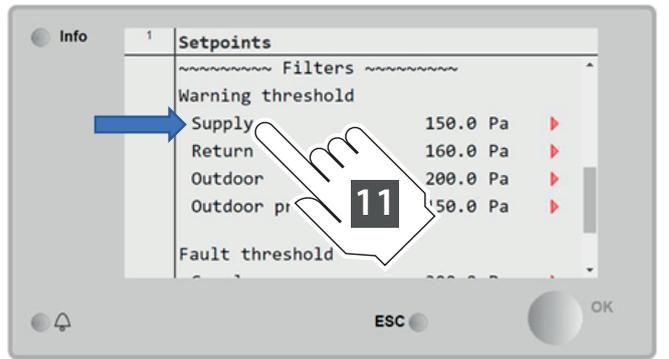


7 Supply filter connection

Commissioning module ALC00895A is required



Please refer to the table "Filter threshold table" on page 7 to set the correct warning and fault thresholds.

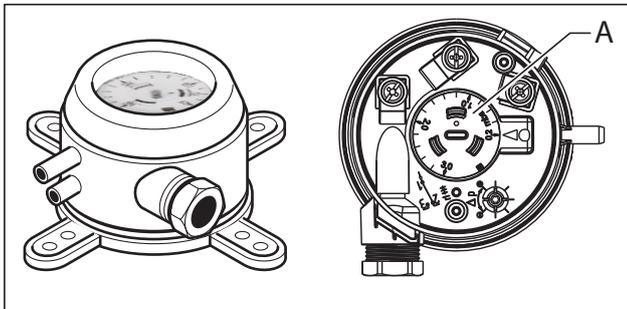


4b Connection (only for Modular T Smart)

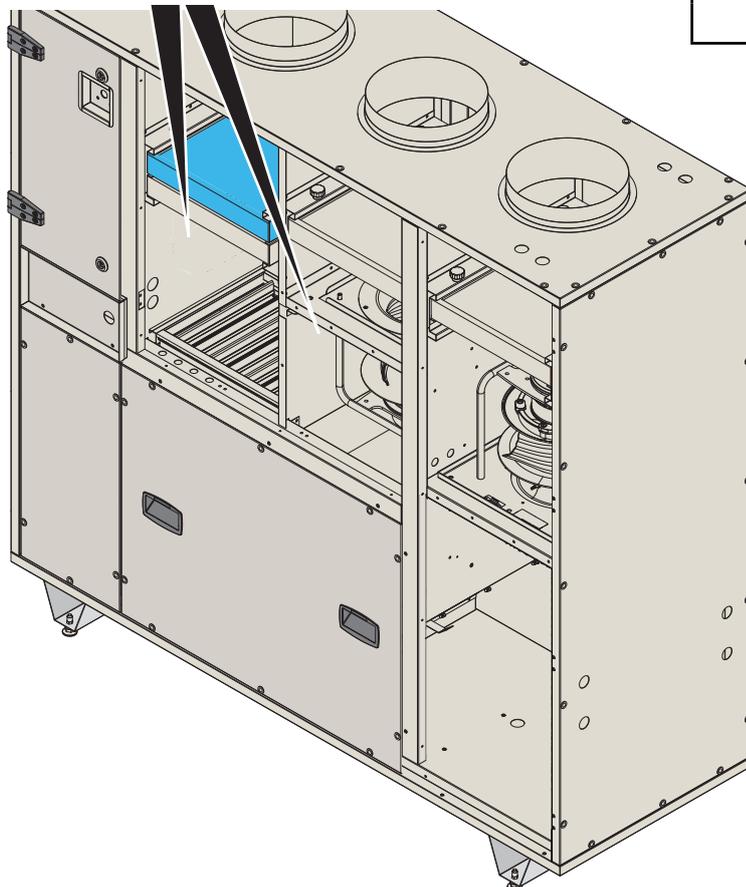
ADDITIONAL PRE-FILTER

In case of replacement of the standard filters, adjust the threshold using dial A, in order to match the values indicated in the table. Allow pressure to increase gradually (do not exceed max. pressure limit).

If two filters are combined and controlled by only one pressure switch, set the threshold equal to the sum of the two filters' limits (e.g. if there is a double filtering stage ISO COARSE 55% (G4) + ePM1 50% (F7) on size 03, the threshold value is $125+200 = 325$ Pa). Do not turn the dial (A) into the area of the black mark!



Filter threshold table			
Size	Unit	Description	Warning threshold (Pa)
03	ATB03*A	ISO COARSE 55% (G4) filter	125
		ePM10 75% (M5) filter	160
		ePM1 50% (F7) filter	200
		ePM1 80% (F9) filter	300
04	ATB04*A	ISO COARSE 55% (G4) filter	150
		ePM10 75% (M5) filter	200
		ePM1 50% (F7) filter	230
		ePM1 80% (F9) filter	360
05	ATB05*A	ISO COARSE 55% (G4) filter	140
		ePM10 75% (M5) filter	180
		ePM1 50% (F7) filter	210
		ePM1 80% (F9) filter	330
06	ATB06*A	ISO COARSE 55% (G4) filter	140
		ePM10 75% (M5) filter	180
		ePM1 50% (F7) filter	210
		ePM1 80% (F9) filter	330
07	ATB07*A	ISO COARSE 55% (G4) filter	150
		ePM10 75% (M5) filter	200
		ePM1 50% (F7) filter	230
		ePM1 80% (F9) filter	350



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