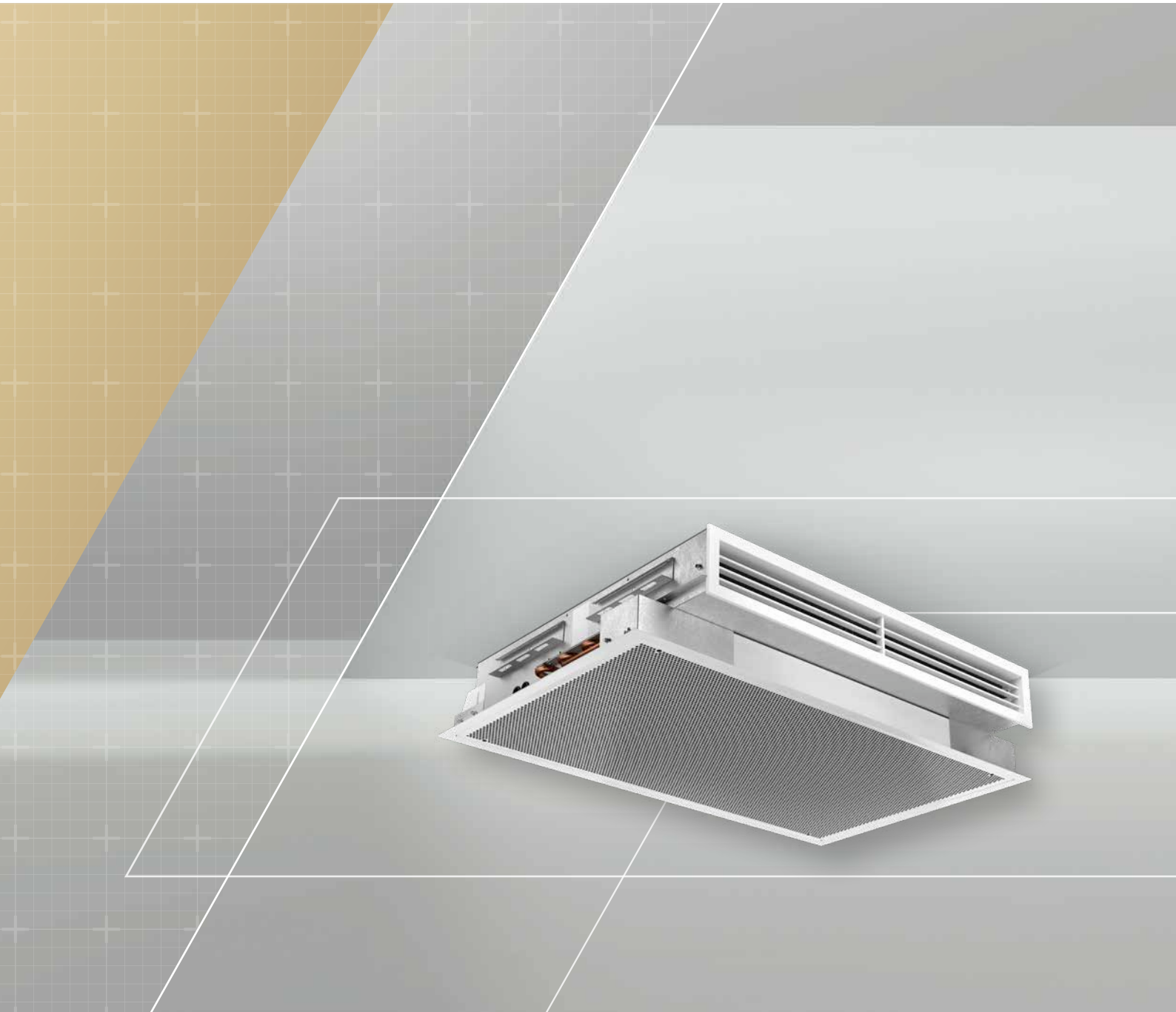
FläktGroup®

IQ STAR® ORION II CHILLED BEAM

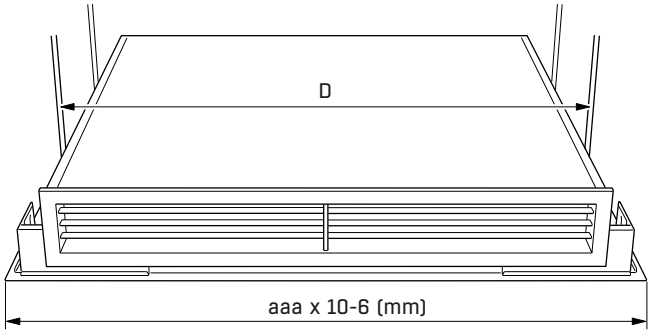
INSTALLATION, COMMISSIONING AND MAINTENANCE

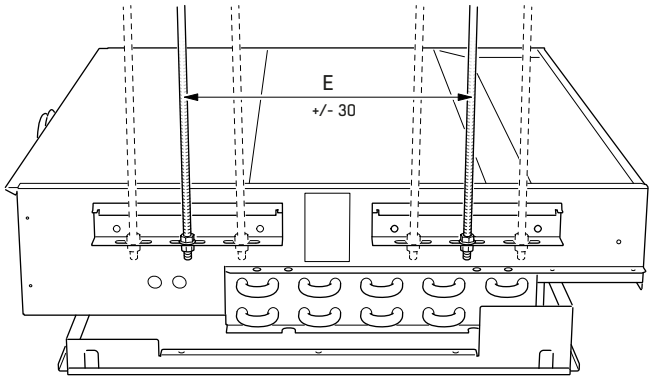
SE | MONTERING, INJUSTERING OCH UNDERHÅLL
FI | ASENNUS, KÄYTTÖÖNOTTO JA HUOLTO
DK | INSTALLATION, JUSTERING OG VEDLIGEHOLDELSE
DE | INSTALLATION, INBETRIEBNAHME UND WARTUNG
NL | INSTALLATIE, INBEDRIJFSTELLING EN ONDERHOUD
FR | MONTAGE, EQUILIBRAGE EN MAINTENANCE
IT | INSTALLAZIONE, MESSA IN SERVIZIO E MANUTENZIONE
PL | MONTAŻ, ROZRUCH I KONSERWACJA
CZ | INSTALACE, UVEDENÍ DO PROVOZU A ÚDRŽBA
LT | MONTAVIMAS, PARENGIMAS EKSPLOATUOTI IR PRIEŽIŪRA

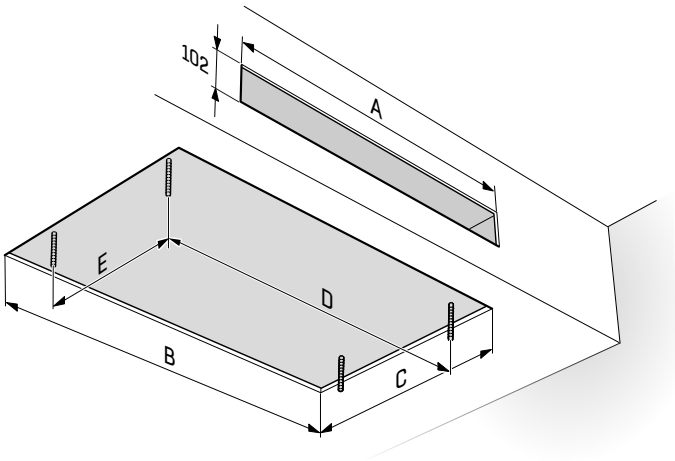


IQHA-aaa-b-cc-dd-1

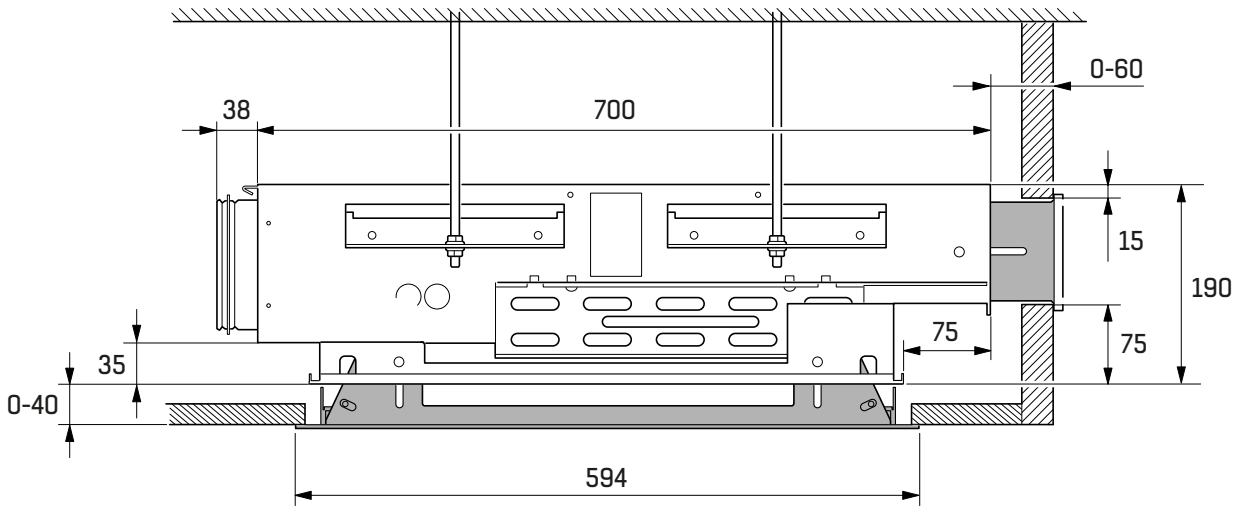
aaa (cm) = 100,120,140,160







aaa (cm)	Ceiling	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
100	Plaster	810	980	580	838	190/310/430
120		1010	1080		1038	
140		1210	1280		1238	
160		1410	1480		1438	
100	T24/T15	810	1000	600	838	
120		1010	1200		1038	
140		1210	1400		1238	
160		1410	1600		1438	



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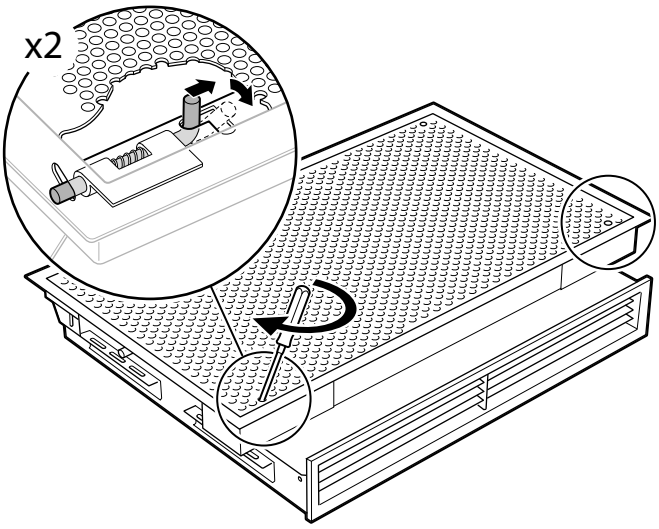

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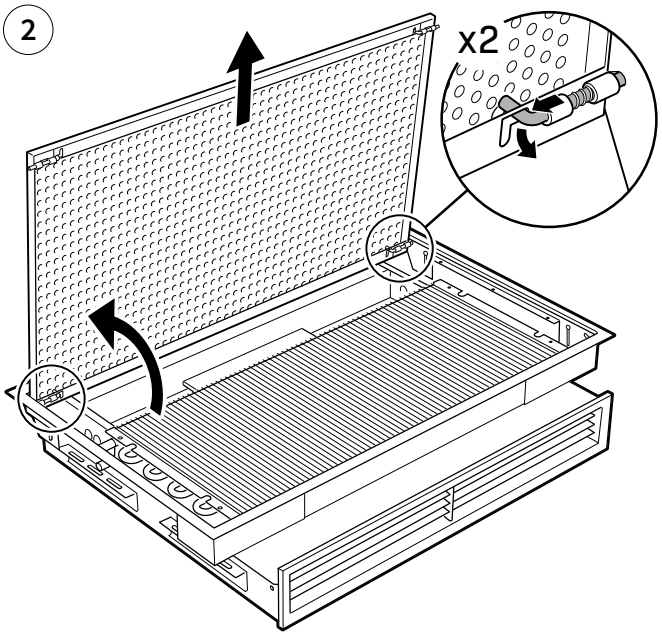

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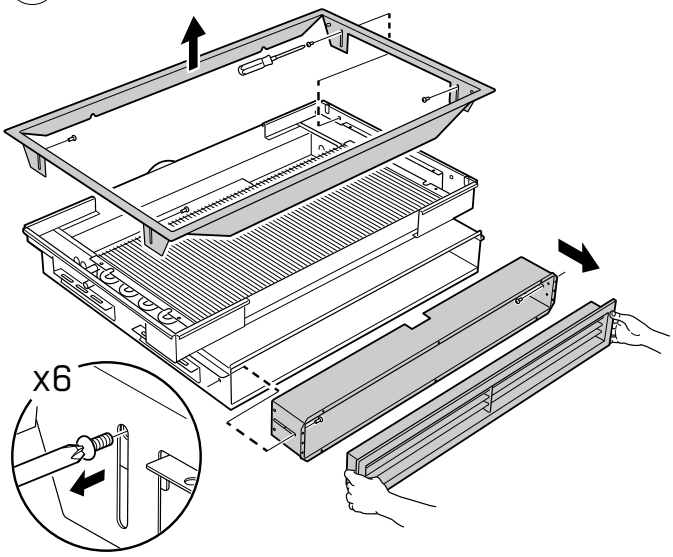

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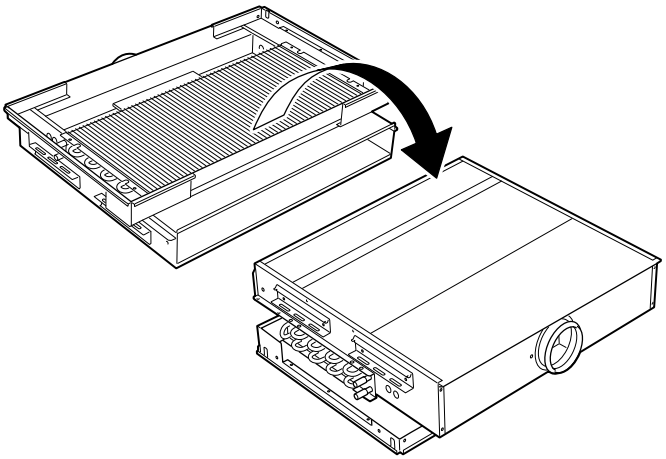
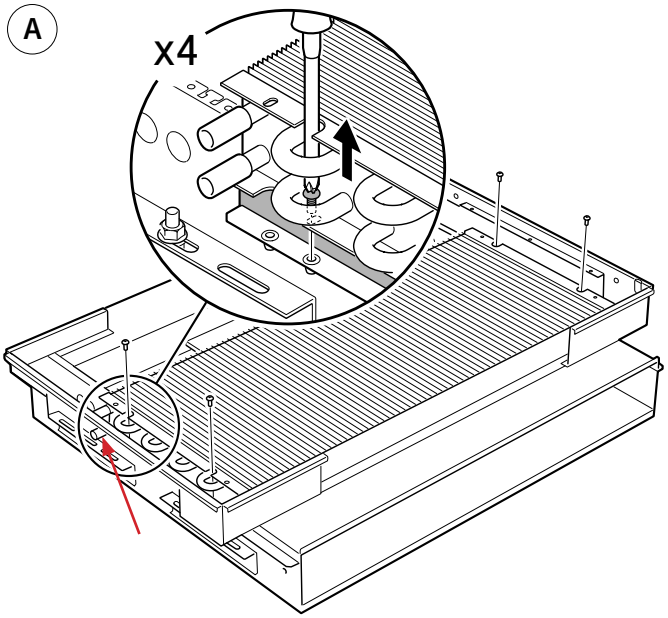
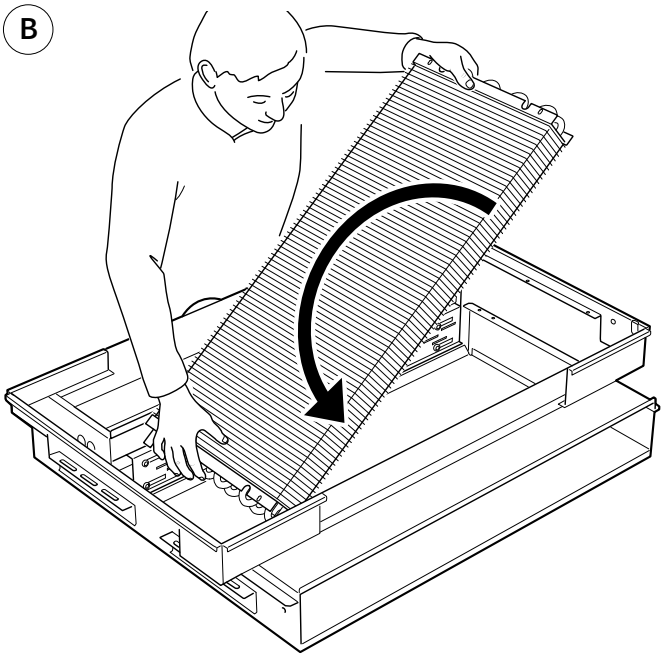


GB IF NEEDED, THE COIL CAN BE TURNED OVER
SE OM BEHOVET FINNS, VÄND PÅ BATTERIET
FI KÄÄNNÄ PATTERI TARVITTAESSA
DK OM NØDVENDIGT VENDES FLADEN
DE BEI BEDARF KANN DER WÄRMETAUSCHER UMGEDREHT WERDEN
NL DRAAI INDIEN NODIG HET ELEMENT OM
FR SI BESOIN, RETOURNER LA BATTERIE
IT ALL'OCCORRENZA, CAPOVOLGERE LA BATTERIA
PL W RAZIE POTRZEBY OBRÓĆ WĘŻOWNICĘ
CZ V PŘÍPADĚ POTŘEBY VÝMĚNÍK OTOČTE
LT JEI REIKIA, ŠILUMOKAITĮ GALIMA APVERSTI
LV JA NEPIECIEŠAMS, APGRIEZIET SPOLI OTRĀDI

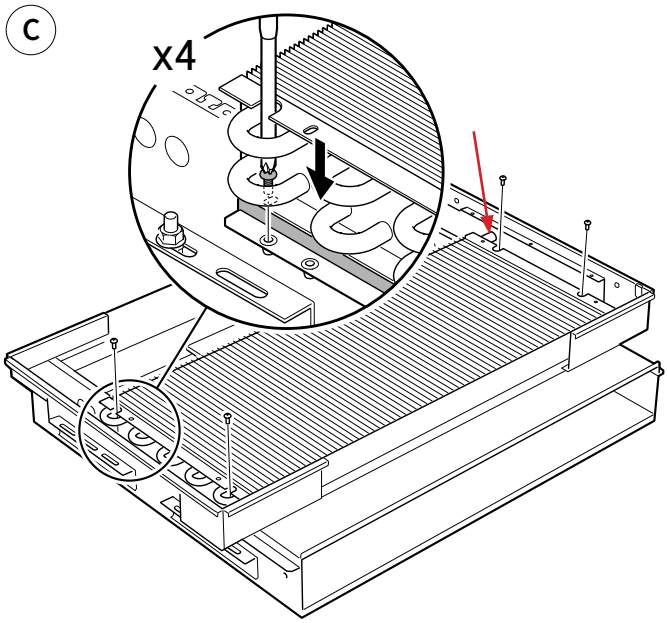
A



B



C



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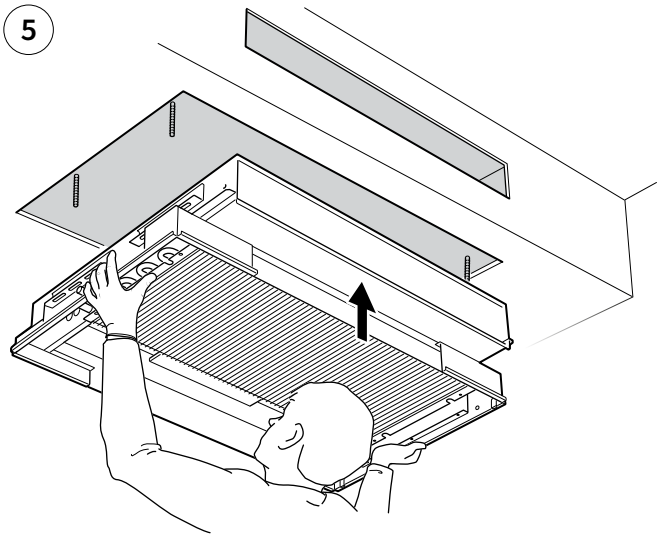

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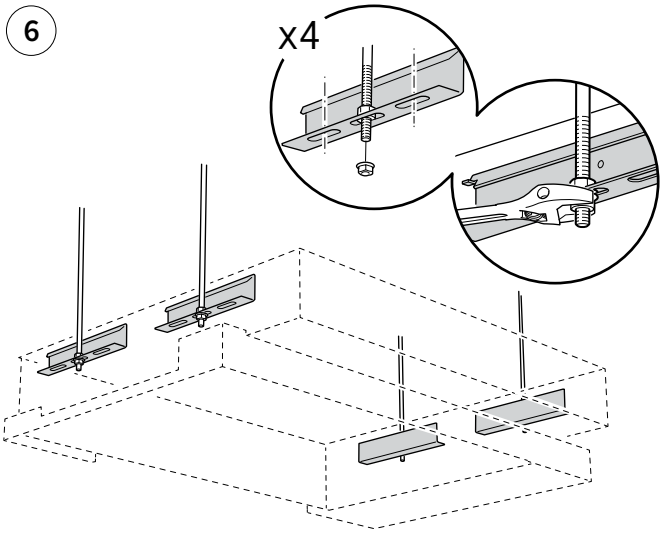

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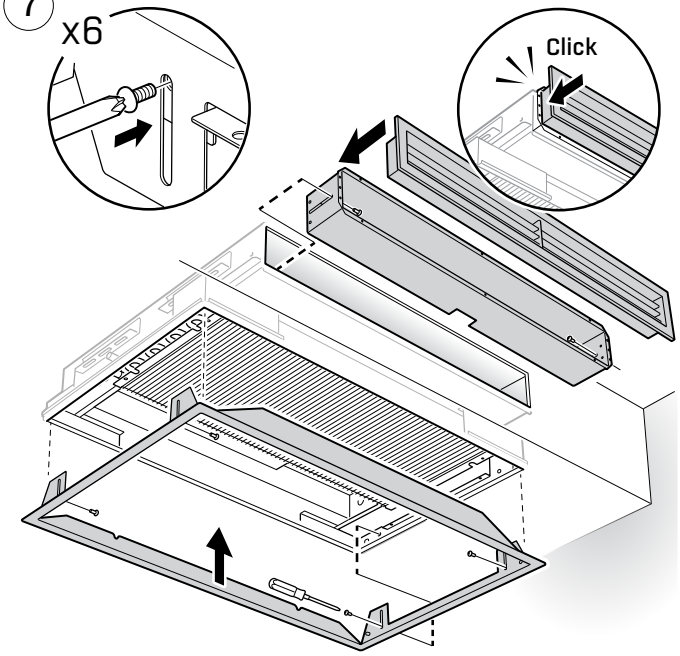

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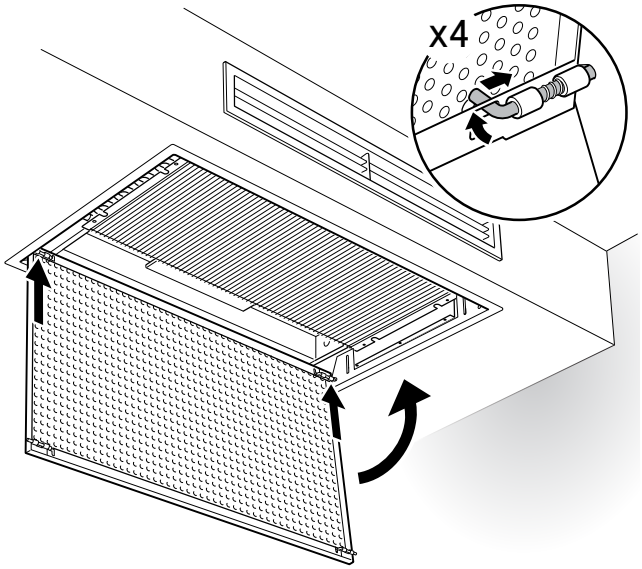

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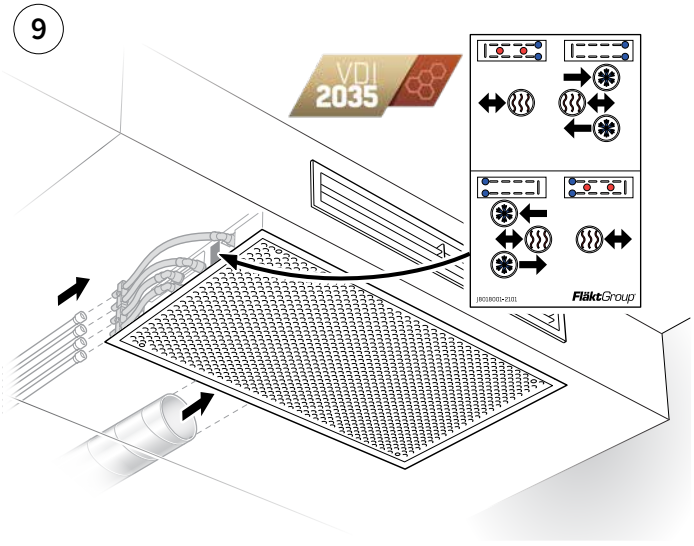

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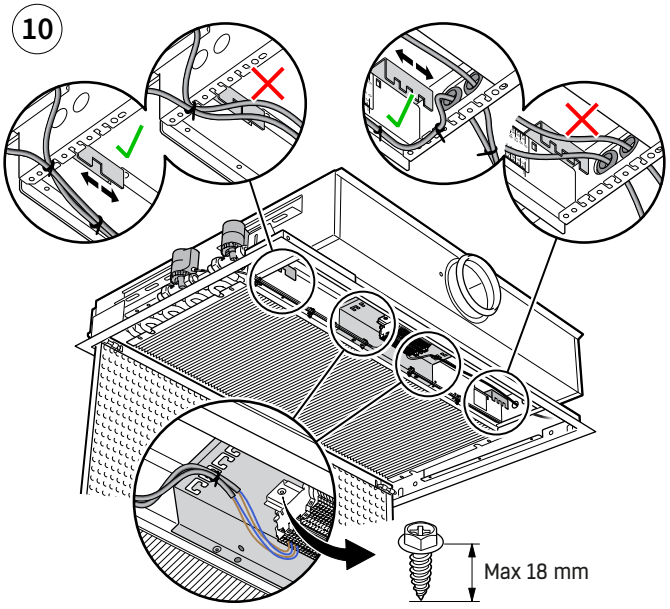
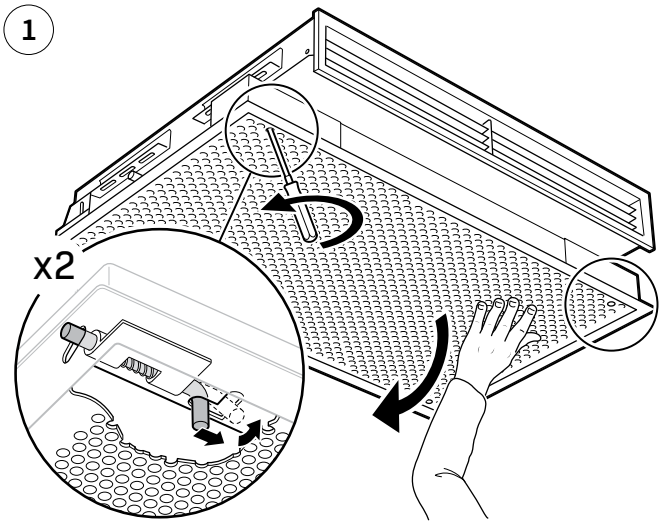


1



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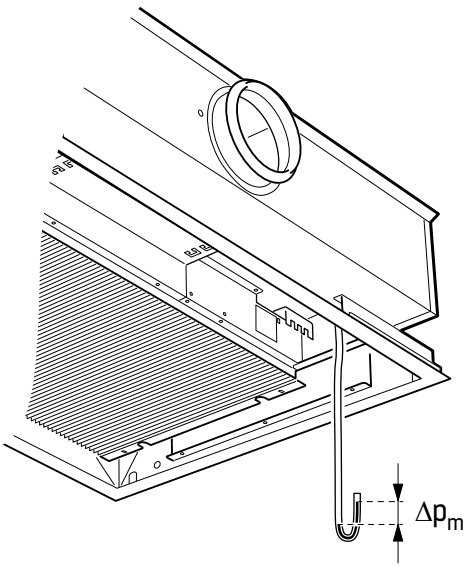

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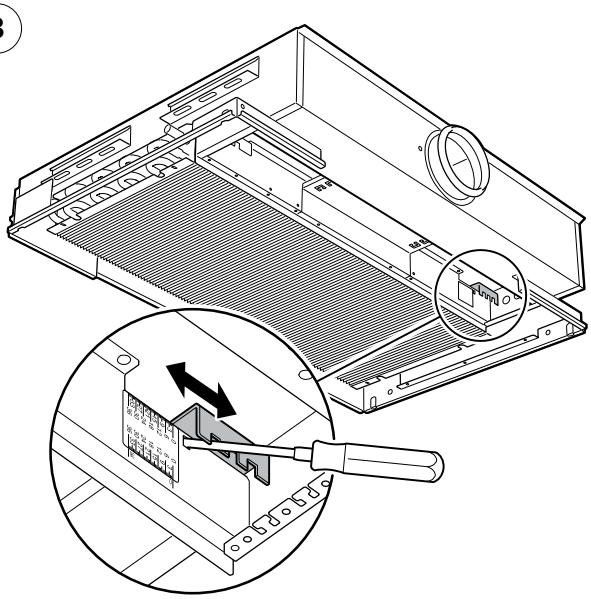
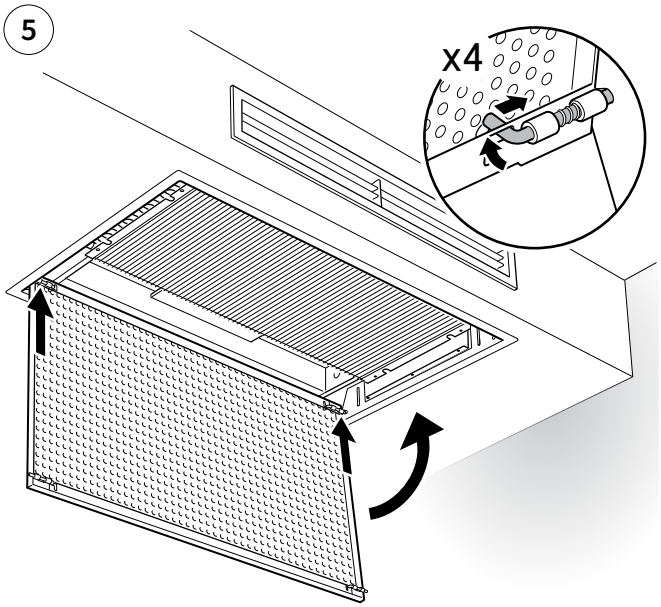


4

$q = k\sqrt{\Delta p_m}$ (l/s) (Pa)

$q = 3.6k\sqrt{\Delta p_m}$ (m^3/h) (Pa)

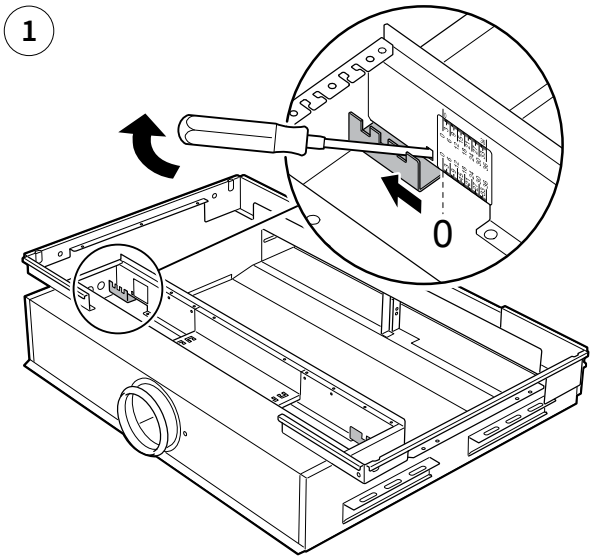
5



IQAZ-35-05

- GB RETROFITTING INTERNAL DAMPER MOTOR
- SE INSTALLATION I EFTERHAND AV INTERN SPJÄLLMOTOR
- FI SISÄISEN PELTIMOOTTORIN JÄLKIASENNUS
- DK EFTERFØLGENDE INSTALLATION AF INTERN SPJÆLDMOTOR
- DE NACHRÜSTUNG EINES INTERNEN KLAPPENMOTORS
- NL MONTAGE ACHTERAF VAN INTERNE KLEPMOTOR
- FR MONTAGE A POSTERIORI DU MOTEUR DE VOLET INTERNE
- IT INSTALLAZIONE SUCCESSIVA DEL MOTORINO INTERNO DELLA SERRANDA
- PL INSTALACJA SILNIKA PRZEPUSTNICY WEWNĘTRZNEJ
- CZ VÝMĚNNA MOTORU VNITŘNÍHO REGULÁTORU
- LT VIDINĖS SKLENDĖS MOTORO ĮMONTAVIMAS
- LV IEKŠĒJĀ AMORTIZATORA MODERNIZĒŠANA

1



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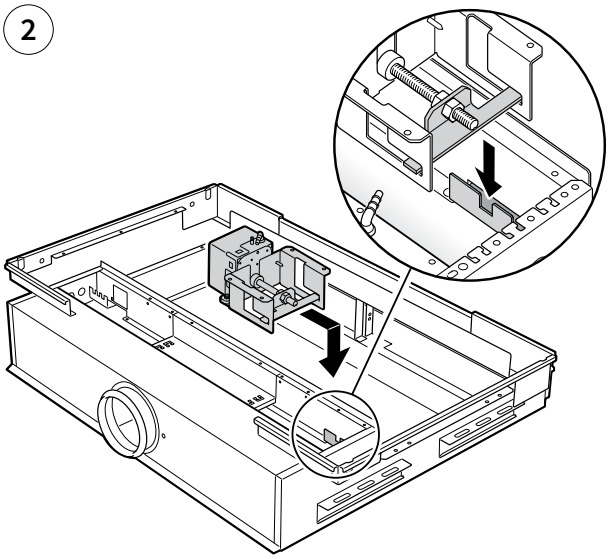

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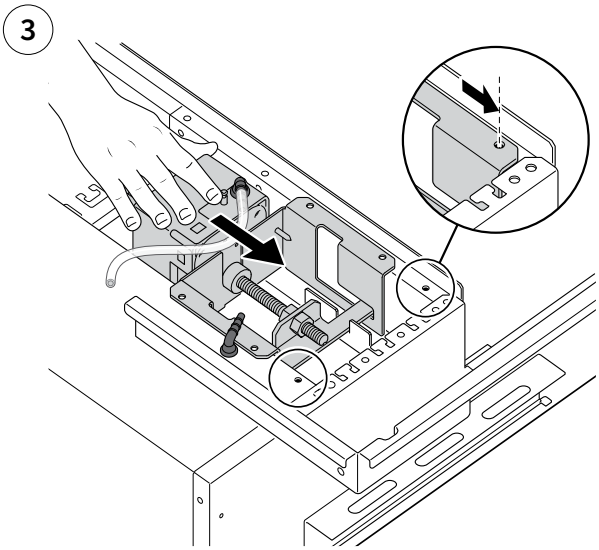

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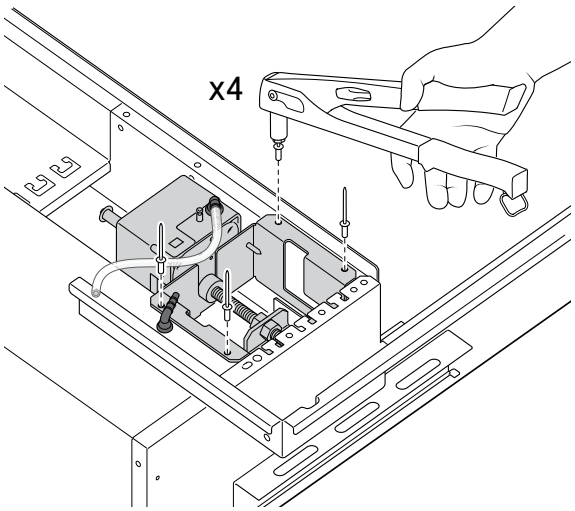

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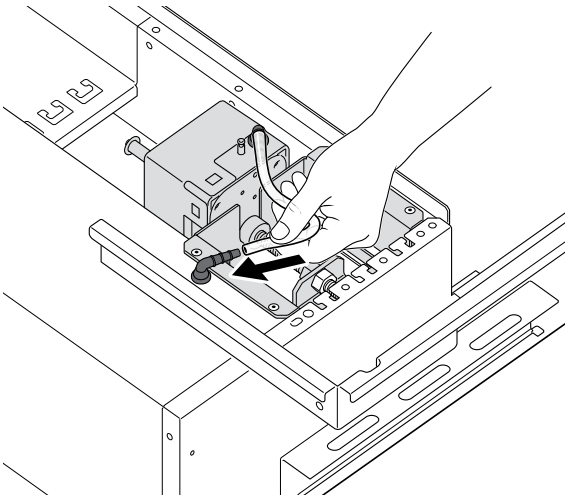
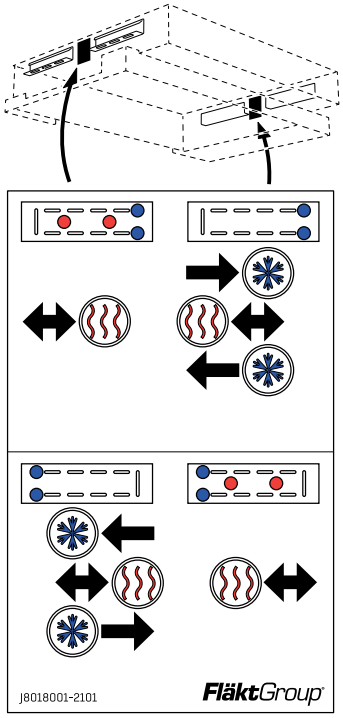


IQAZ-37-bb-2-1

- GB RETROFITTING FLEXIBLE HOSES
- SE INSTALLATION I EFTERHAND AV FLEXIBLA SLANGAR
- FI JOUSTAVIEN LETKUJEN JÄLKIASENNUS
- DK EFTERMONTERING AF FLEKSIBLE SLANGER
- DE NACHRÜSTUNG FLEXIBLER SCHLÄUCHE
- NL MONTAGE ACHTERAF VAN FLEXIBELE SLANGEN
- FR MONTAGE À POSTERIORI DES TUYAUX FLEXIBLES
- IT INSTALLAZIONE SUCCESSIVA DEI FLESSIBILI
- PL INSTALACJA WĘŻY ELASTYCZNYCH
- CZ DODATEČNÁ MONTÁŽ PRUŽNÝCH HADIC
- LT LANKSČIŲ ŽARNŲ MODERNIZAVIMAS
- LV ELASTĪGO ŠĻŪTEŅU MODERNIZĒŠANA

1



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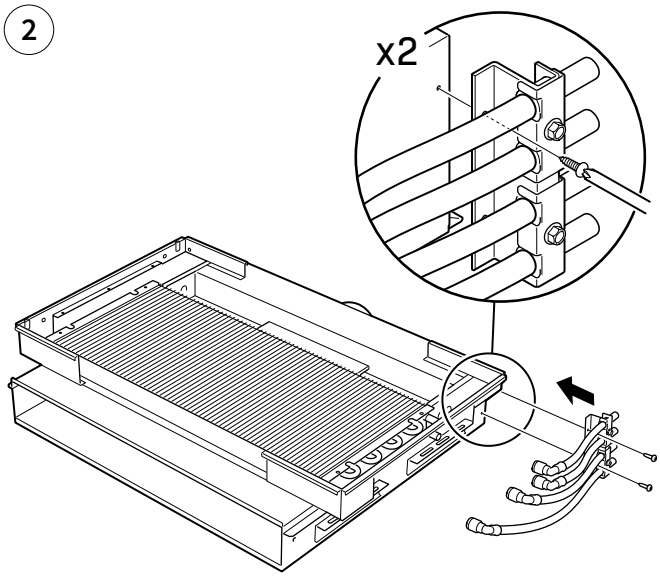

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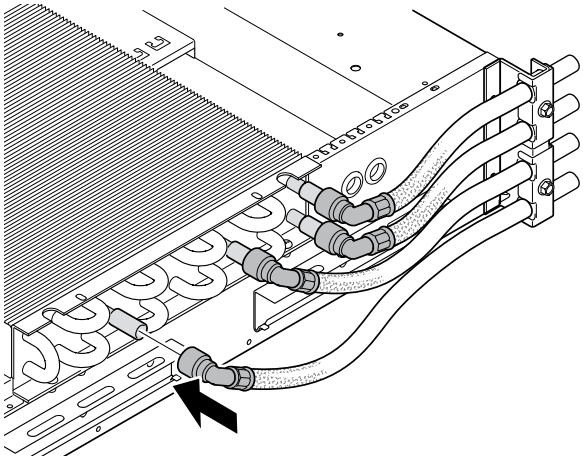
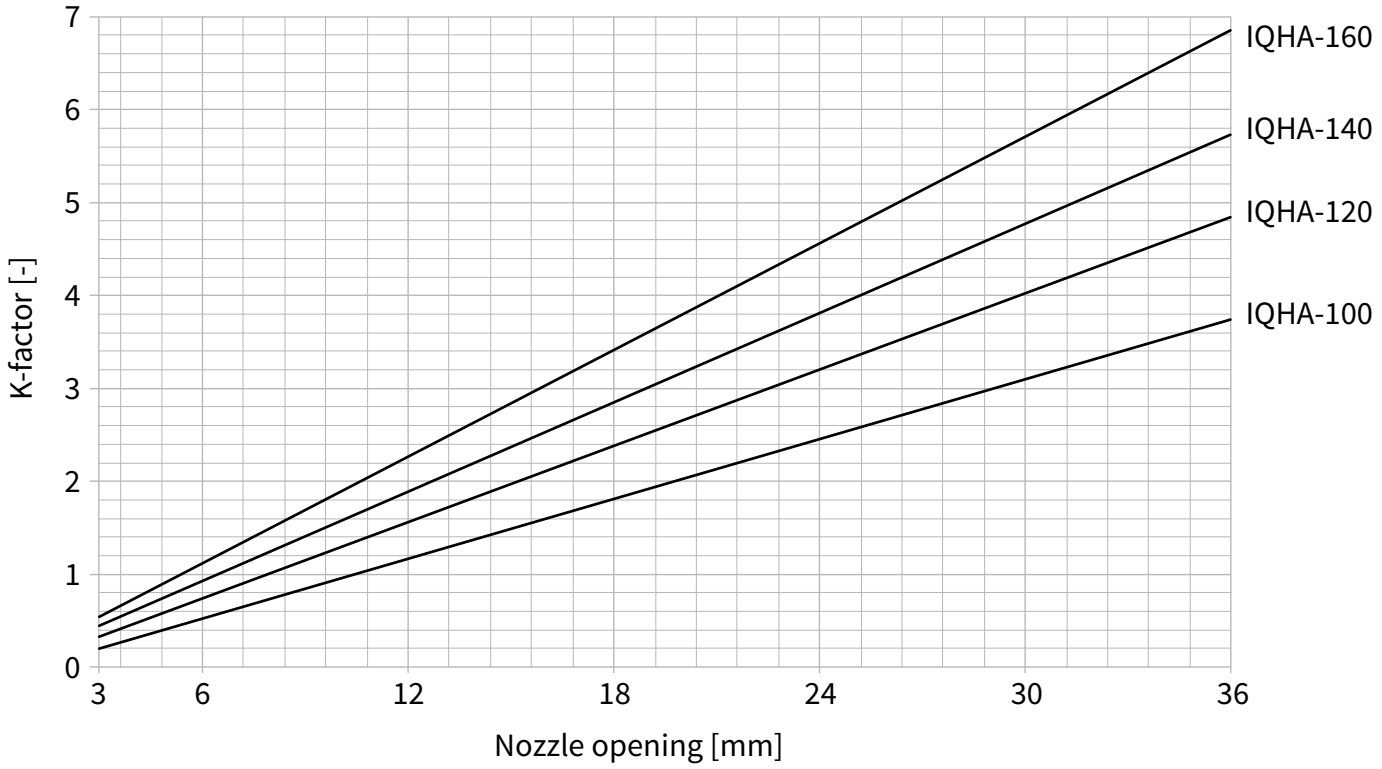


IQHA


K-factor [-]
0
1
2
3
4
5
6
7
3
6
12
18
24
30
36
Nozzle opening [mm]
IQHA-160
IQHA-140
IQHA-120
IQHA-100

309VM-024-150-MB-003
150 N
2,0 W (1,0 W) • 3,5 VA
12,5 mm/min • 36 mm
150 Pa • max.100 kPa

XXXXXXX • XX • 15/11
Serial nr. Software version YY/MM

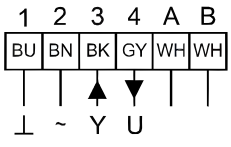
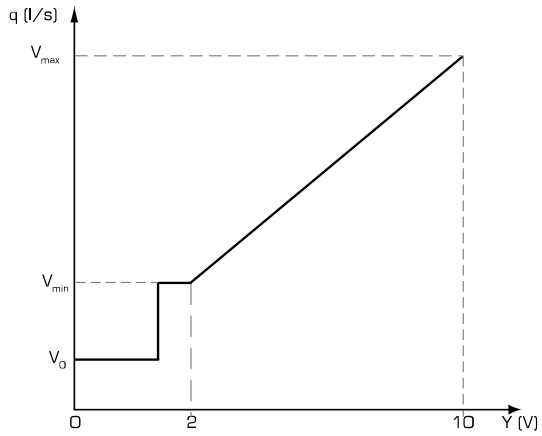
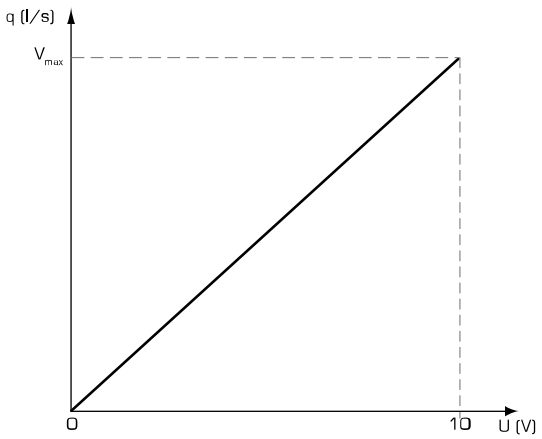


Table 1: **Wiring**

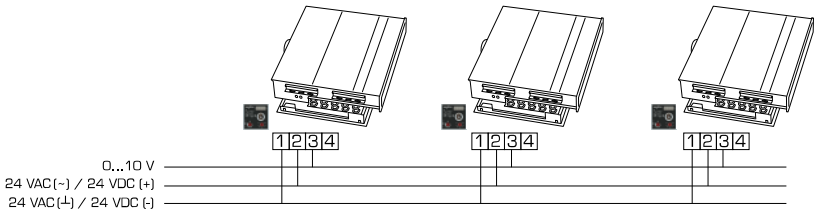
1	2	3	4	a	b
24 VAC (⊥) 24 VDC (-)	24 VAC (~) 24 VDC (+)	0–10 V	0–10 V	Modbus	
Operating Voltage		Control signal (Y)	Feedback signal (U)		
blue (BU)	brown (BN)	black (BK)	grey (GY)		

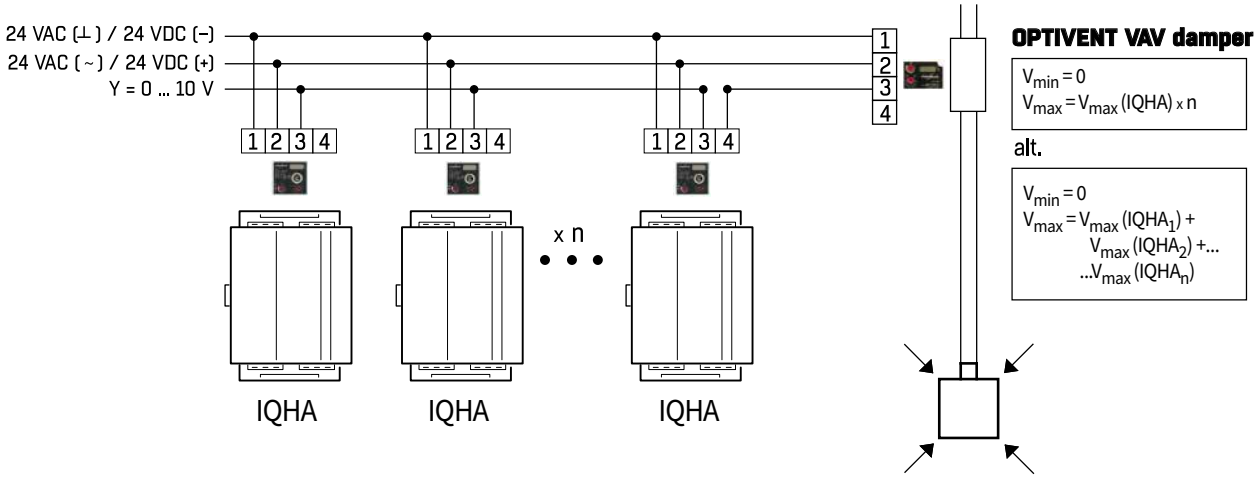




$$q_{act}\ (l/s) = V_{min}\ (l/s) + \frac{Y - 2}{8} \times (V_{max} - V_{min})\ (l/s)$$

$$U = 0 - 10\ (VDC) \quad (0\ V = 0\ l/s,\ 10\ V = V_{max})$$





OPTIVENT VAV damper

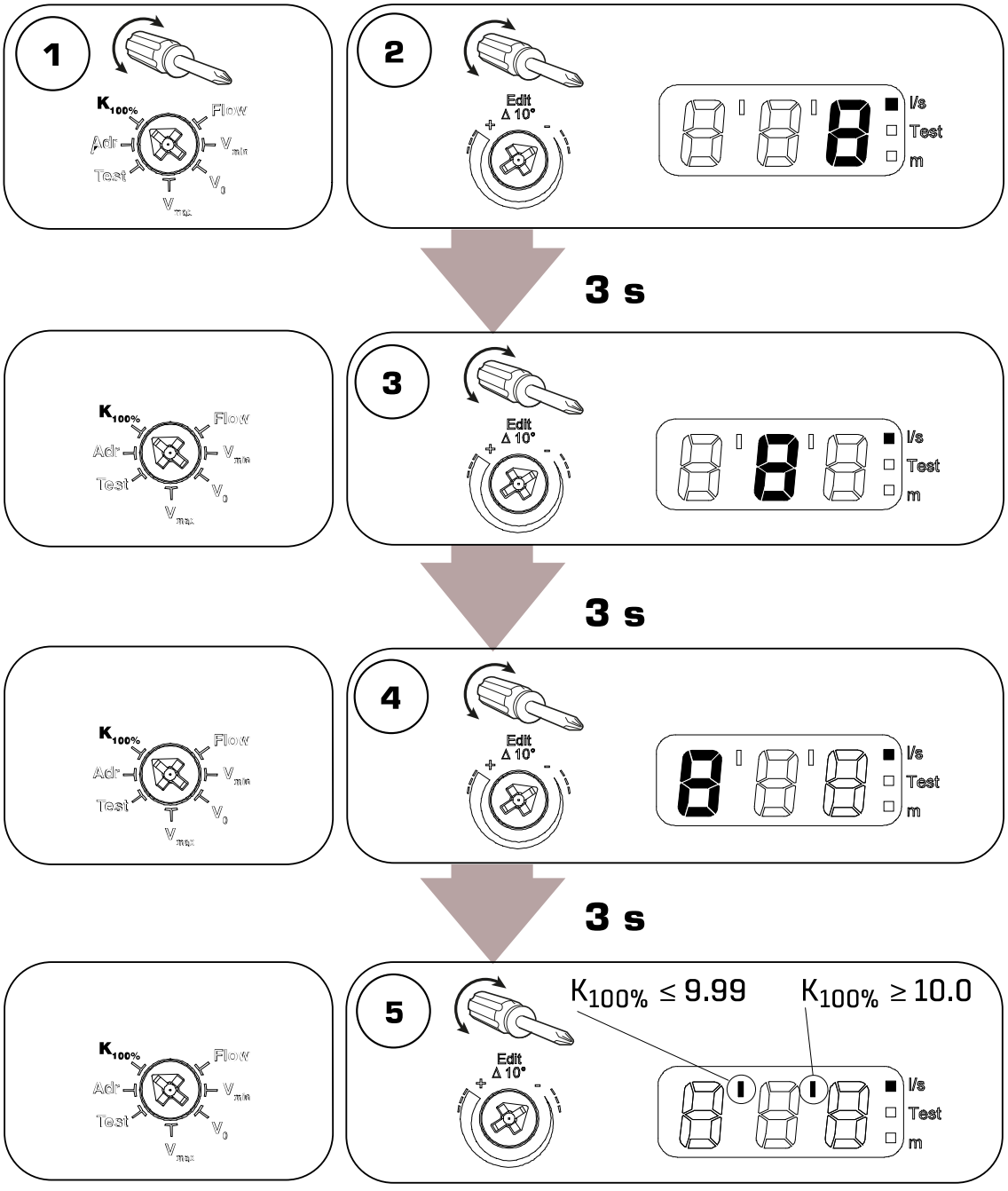
$V_{min} = 0$
$V_{max} = V_{max}\ (IQHA) \times n$

alt.

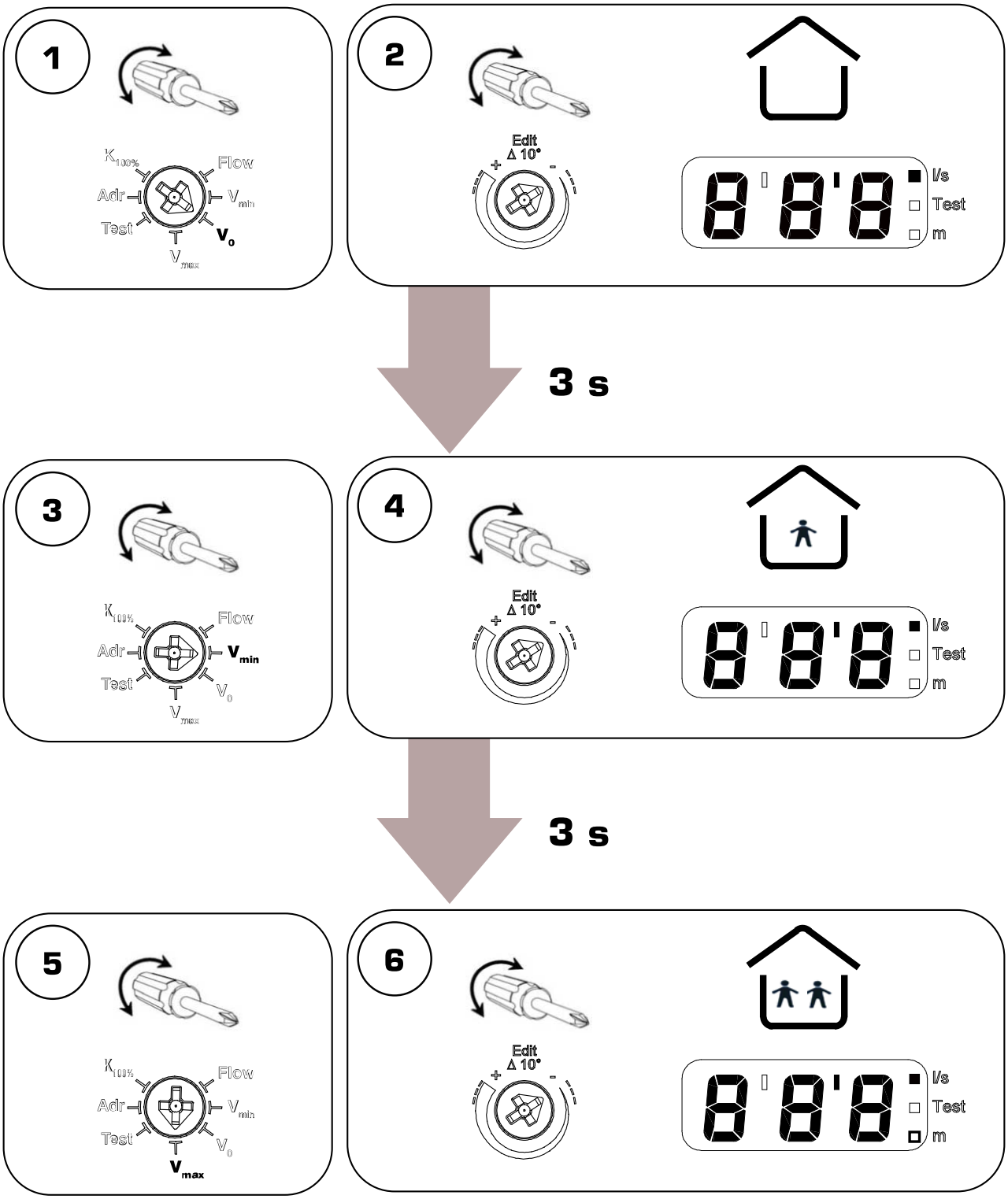
$V_{min} = 0$
$V_{max} = V_{max}\ (IQHA_1) + V_{max}\ (IQHA_2) + ... V_{max}\ (IQHA_n)$

$K_{100\%}$

aaa (cm)	K100%
100	3.7
120	4.8
140	5.7
160	6.8

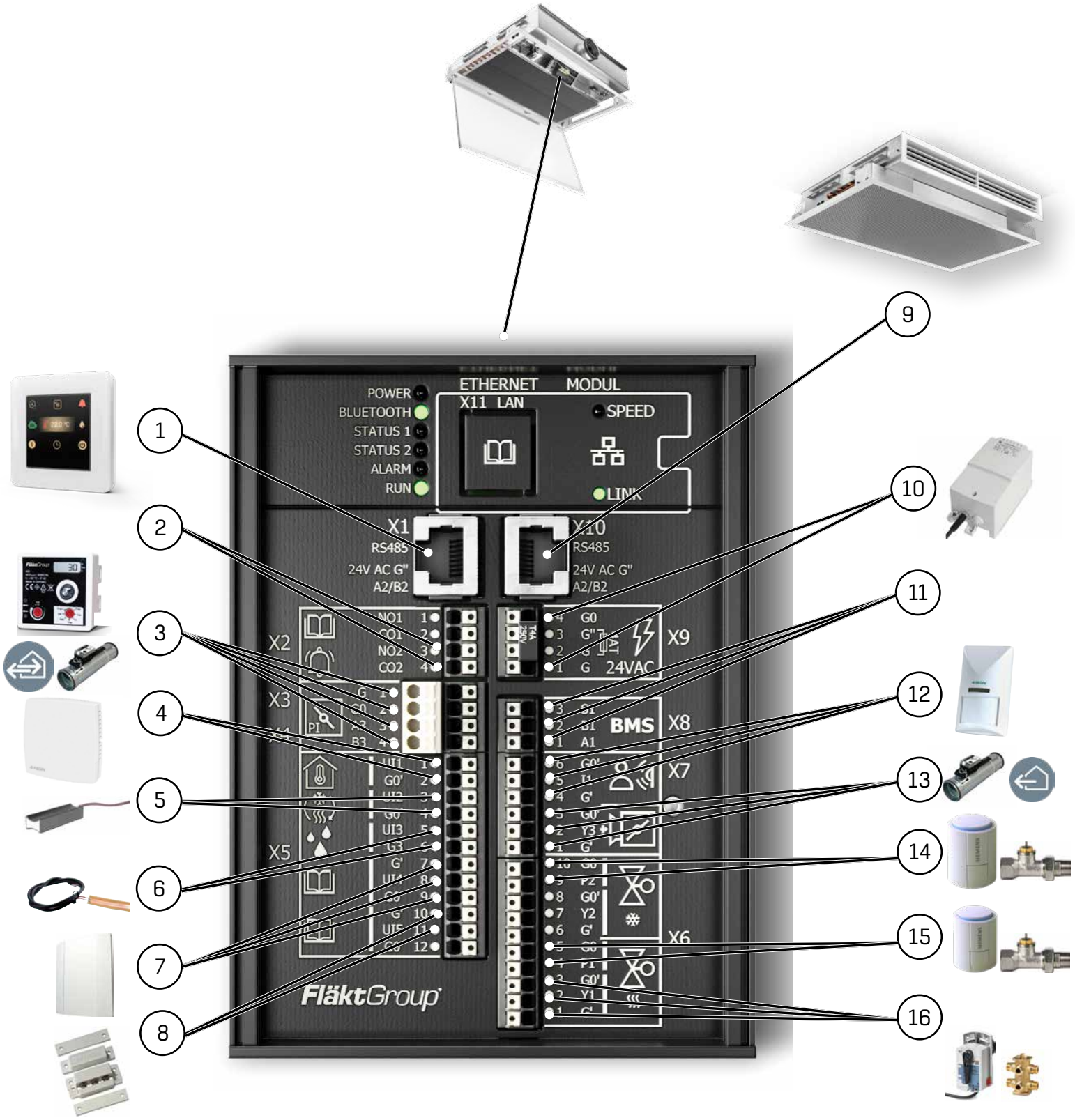


V_0, V_{MAX} & V_{MIN}


1
K100%
Flow
Adr
Vmin
Test
V0
Vmax
2
Edit
Δ 10°
l/s
Test
m
3 s
3
K100%
Flow
Adr
Vmin
Test
V0
Vmax
4
Edit
Δ 10°
l/s
Test
m
3 s
5
K100%
Flow
Adr
Vmin
Test
V0
Vmax
6
Edit
Δ 10°
l/s
Test
m

IQAZ 40

CLIENT CHILLED BEAM



	GB	SE	FI	DE	DK	NL	FR	IT	PL	CZ	LT
1	HMI via RJ45	HMI via RJ45	HMI via RJ45	HMI via RJ45	HMI via RJ45	HMI via RJ45	HMI via RJ45	HMI via RJ45	HMI via RJ45	HMI via RJ45	HMI via RJ45
2	Alarm contact	Alarmkontakt	Hälytysliitäntä	Alarmkontakt	Alarmkontakt	Alarmcontact	Contact d'alarme	Contatto di allarme	Styk alarmowy	Alarmový kontakt	Alarmo kontaktas
3[1)]	Pi actuator or VAV damper via Modbus RS-485-3	Pi-ställdon eller VAV-spjäll via Modbus RS-485-3	Pi-toimilaitteen tai VAV-ilmavirtasäädin Modbus RS-485-3:n kautta	Pi-Stellantrieb oder VAV-Klappe über Modbus RS-485-3	Pi-aktuator eller VAV-spjæld via Modbus RS-485-3	Pi-actuator of VAV-klep via Modbus RS-485-3	Actionneur Pi ou registre VAV via Modbus RS-485-3	Attuatore Pi o serranda VAV tramite Modbus RS-485-3	Siłownik Pi lub przepustnica VAV poprzez Modbus RS-485-3	Pi pohon nebo VAV klapka přes Modbus RS-485-3	Pi pavara arba VAV sklendė per Modbus RS-485-3
4	Room temperature sensor	Rumstemperaturgivare	Huonelämpötila-anturi	Raumtemperaturfühler	Rumtemperatursensor	Kamertemperatuur sensor	Sonde de température ambiante	Sensore di temperatura ambiente	Czujnik temperatury pomieszczenia	Snímač pokojové teploty	Kambario temperatūros jutiklis
5	Clamp-on temperature sensor	Fastklämbar givare	Pinta-anturi	Klemmfühler	Klemmesensor	Klem-temperatuursensor	Sonde de fixation	Sensore con morsetto attivo	Czujnik zaciskowy	Příložný snímač teploty	Kontaktinis temperatūros jutiklis
6	Condensate sensor	Kondensgivare	Kosteusanturi	Kondensationsfühler	Kondenssensor	Condensatiesensor	Sonde de condensation	Rilevatore di condensa	Czujnik skraplania	Snímač kondenzace	Kondensato jutiklis
7	CO2 sensor	CO2-givare	CO2-anturi	CO2-Fühler	CO2-sensor	CO2 sensor	Sonde CO2	Sensore di CO2	Czujnik CO2	Snímač CO2	CO2 jutiklis
8	Window contact	Fönsterkontakt	Ikkunakoskettin	Fensterkontakt	Vindueskontakt	Raamcontact	Contact de fenêtre	Contatto finestra	Styk okienny	Kontaktron	Langų kontaktas
9	To server chilled beam via RJ45	Till server kylbaffel via RJ45	To server jäähdytyspalkki via RJ45	Nach Server Kühlbalken über RJ45	Til server kølebaffel via RJ45	Naar de server koelbalk via RJ45	Pour server poutre climatique RJ45	Al server travi fredde tramite RJ45	Do serwerowej belki chłodzącej poprzez RJ45	K server chladicí trám přes RJ45	Prie server Šalčio sija per RJ45
10	Transformer 24 VAC	Transformator 24 VAC	Muuntaja 24 VAC	Transformator 24 VAC	Transformer 24 VAC	Transformator 24 VAC	Transformateur 24 VAC	Trasformatore 24 VAC	Transformator 24 VAC	Transformátor 24 VAC	Transformatorius 24 VAC
11	Building management system (BMS) via Modbus RS-485-1	Byggnads Hanteringssystem (BMS) via Modbus RS-485-1	Rakennuksen hallintajärjestelmä (BMS) Modbus RS-485-1:n kautta	Gebäudemanagementsystem (BMS) über Modbus RS-485-1	Bygnings Styringssystem (BMS) via Modbus RS-485-1	Gebouwbeheersysteem (BMS) via Modbus RS-485-1	Système de gestion technique du bâtiment (BMS) via Modbus RS-485-1	Sistema di gestione dell'edificio (BMS) tramite Modbus RS-485-1	System zarządzania budynkiem (BMS) poprzez Modbus RS-485-1	Systém správy budov (BMS) přes Modbus RS-485-1	Pastato valdymo sistema (BMS) per Modbus RS-485-1
12	Occupancy (PIR) sensor	Närvarogivare (PIR)	Läsnäoloanturi (PIR)	Anwesenheitssensor (PIR)	Bevægelsessensor (PIR)	Aanwezigheidssensor (PIR)	Détecteur de présence (PIR)	Rilevatore di presenza (PIR)	Czujnik obecności (PIR)	Snímač přítomnosti (PIR)	Užimtumo (PIR) jutiklis
13	Extract VAV damper (0-10V)	VAV-spjäll för frånluft (0–10 V)	Poisto ilmamääräsäädin (0–10 V)	VAV-Abluftklappe (0-10 V)	Udsugning VAV-spjæld (0-10 V)	Extract VAV-klep (0-10 V)	Registre VAV d'extraction (0-10 V)	Serranda VAV di estrazione (0-10 V)	Przepustnica VAV wyciągowa (0–10 V)	Odtahova klapka VAV (0–10 V)	šalinimo VAV sklendę (0–10 V)
14	Cooling valve	Kylventil	Jäähdytysventtiili	Kühlventil	Køleventil	Koelventiel	Vanne de refroidissement	Valvola di raffreddamento	Zawór chłodzący	Chladicí ventil	Aušinimo vožtuvas
15	Heating valve	Värmeventil	Lämmitysventtiili	Heizventil	Varmeventil	Verwarmingsventiel	Vanne de chauffage	Valvola di riscaldamento	Zawór grzewczy	Topný ventil	Šildymo vožtuvas
16	6-way valve	6-vägsventil	6-tieventtiili	6-Wegeventil	6-vejs ventil	6-wegklep	Vanne 6 voies	Valvola 6 vie	Zawór 6-drogowy	6-cestný ventil	6-krypčių vožtuvas

GB [1)] Supply (boost) or extract (balance) VAV damper

FI [1)] Tulo (tehostus) tai poisto (tasapainotus) VAV-pellti

DE [1)] Zuluft- (Boost) oder Abluft- (Balanciert) VAV-Klappe

SE [1)] Tilluft Boost eller frånluft Balans VAV-spjäll

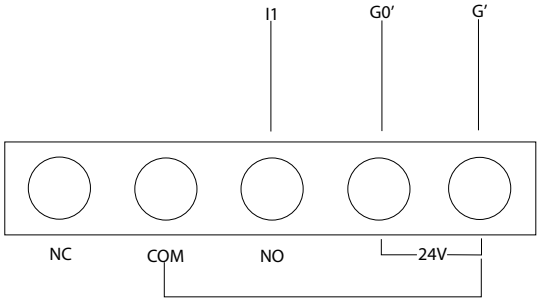
ISYteq 3060 (X5)	④ Room temperature sensor STRZ-05-7
UI1	N/A
G0’	N/A

ISYteq 3060 (X5)	⑥ Condensate sensor STRZ-16-1-00
UI3	Black
G3	Red

ISYteq 3060 (X5)	⑤ Clamp-on temperature sensor STRZ-05-8 (change-over)
UI2	N/A
G0’	N/A

ISYteq 3060 (X5)	⑧ Window contact STRZ-38-1
G’	N/A
UI5	N/A

Extra explanation drawing for STRZ-09 (PIR)



ISYteq 3060 (X7)	⑬ EMS(S,D) VAV damper (327VMZ-MB)	⑬ UL(S,D)A VAV damper (327VMZ-MB)
G’	2 (red)	2 (red)
Y3	Y (white)	Y (white)
G0’	1 (black)	1 (black)

ISYteq 3060 (X5)	⑦ CO2 sensor STRZ-18-3-1
G’	UB+
UI4	AOU1
G0’	GND

ISYteq 3060 (X6)	⑭ Cooling valve STRZ-70-01/11/21-01
G0 (10)	Blue
P2	Brown

ISYteq 3060 (X6)	⑮ Heating valve STRZ-70-01/11/21-01
G0 (5)	Blue
P1	Brown

ISYteq 3060 (X7)	⑫ Occupancy (PIR) sensor STRZ-09-1 (*=See attached picture)
G0’	0V
I1	NO
G’	24V*

ISYteq 3060 (X7)	⑫ Occupancy (PIR) sensor STRZ-09-2 (*=See attached picture)
G0’	0V
I1	NO
G’	24V*

ISYteq 3060 (X5)	⑦ CO2 sensor STRZ-18-1-2
G’	V+
UI4	CO2
G0’	GND

GB **Note:** The temperature sensor will not function.

FI **Huomautus:** Lämpötila-anturi ei toimi.

DE **Hinweis:** Der Temperatursensor funktioniert nicht.

SE **Obs:** Temperaturgivaren fungerar inte.

ISYteq 3060 (X5)	⑦ CO2 sensor STRZ-18-1-1
G’	G
UI4	0-10V (CO2)
G0’	G0

GB **Note:** The temperature sensor will not function.

FI **Huomautus:** Lämpötila-anturi ei toimi.

DE **Hinweis:** Der Temperatursensor funktioniert nicht.

SE **Obs:** Temperaturgivaren fungerar inte.

ISYteq 3060 (X3/X4)	③ EMS(S,D) VAV damper (327VMZ-MB)	③ UL(S,D)A VAV damper (327VMZ-MB)
G	2 (red)	2 (red)
G0	1 (black)	1 (black)
A3	CB (grey)	CB (grey)
B3	CA (pink)	CA (pink)

ISYteq 3060 (X3/X4)	③ Pi Actuator (IQAZ-35)
G	2 (brown)
G0	1 (blue)
A3	B (white)
B3	A (white)

ISYteq 3060 (X9)	⑩ Transformer STRZ-24-2
G0	G0
G (1)	G

GB **Note:** Use copper twisted conductors exclusively when connecting to the ISYteq 3060 room controller.

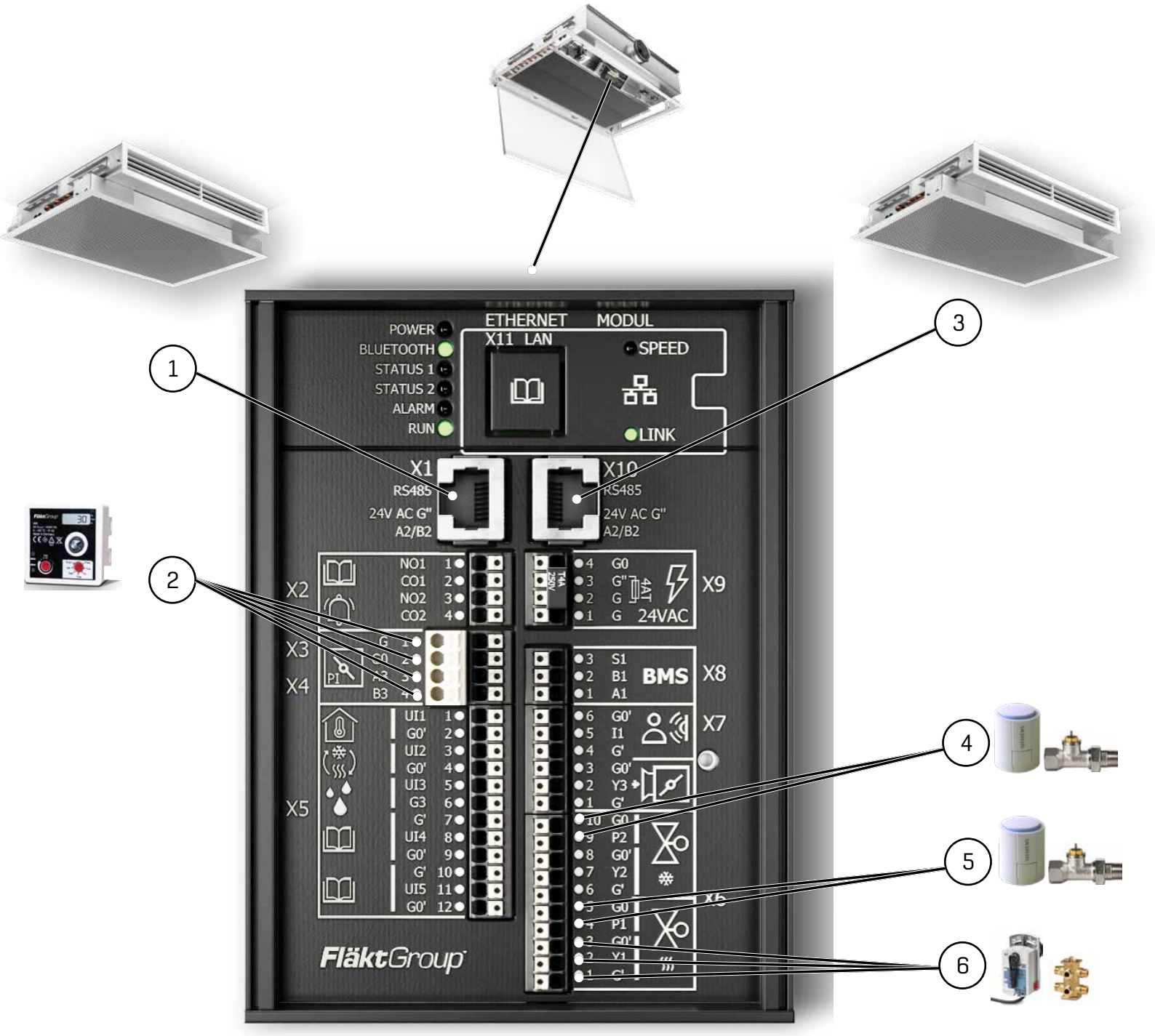
FI **Huomautus:** Käytä ISYteq 3060 -huoneen ohjainta liitettäessä yksinomaan kuparisia kierrettyjä johtimia.

DE **Hinweis:** Verwenden Sie ausschließlich verdrilltes isoliertes Kupferkabel, wenn Sie eine Verbindung zum Raumcontroller ISYteq 3060 herstellen.

SE **Obs:** Använd endast tvinnade kopparledare vid anslutning till ISYteq 3060-rumskontrollenheten.

IQAZ 40

SERVER CHILLED BEAM



	GB	SE	FI	DE	DK	NL	FR	IT	PL	CZ	LT
1	From server or client chilled beam via RJ45	Från server eller klient kylbaffel via RJ45	From server or client jäähdytys-palkki via RJ45	Vom Server oder Client über RJ45	Fra server eller klient kølebaffel via RJ45	Van server of client koelbalk via RJ45	Depuis le serveur ou le client, poutre climatique via RJ45	Da trave fredda server o client tramite RJ45	Z serwera lub klienta belki chłodzącej poprzez RJ45	Ze serveru nebo klientské chladicí trám přes RJ45	Iš serverio arba kliento šalčio sija per RJ45
2	Pi actuator via Modbus RS-485-3	Pi-ställdon via Modbus RS-485-3	Pi-toimilaitteen Modbus RS-485-3:n kautta	Pi-Stellantrieb über Modbus RS-485-3	Pi-aktuator via Modbus RS-485-3	Pi-actuator via Modbus RS-485-3	Actionneur Pi via Modbus RS-485-3	Attuatore Pi tramite Modbus RS-485-3	Siłownik Pi poprzez Modbus RS-485-3	Pi pohon přes Modbus RS-485-3	Pi pavara per Modbus RS-485-3
3	To server chilled beam via RJ45	Till server kylbaffel via RJ45	To server jäähdytys-palkki via RJ45	Nach Server Kühlbalken über RJ45	Til server kølebaffel via RJ45	Naar de server koelbalk via RJ45	Pour server poutre climatique RJ45	Al server travi fredde tramite RJ45	Do serwerowej belki chłodzącej poprzez RJ45	K server chladicí trám přes RJ45	Prie server Šalčio sija per RJ45
4	Cooling valve	Kylventil	Jäähdytysventtiili	Kühlventil	Køleventil	Koelventiel	Vanne de refroidissement	Valvola di raffreddamento	Zawór chłodzący	Chladicí ventil	Aušinimo vožtuvas
5	Heating valve	Värmeventil	Lämmitysventtiili	Heizventil	Varmeventil	Verwarmingsventiel	Vanne de chauffage	Valvola di riscaldamento	Zawór grzewczy	Topný ventil	Šildymo vožtuvas
6	6-way valve	6-vägsventil	6-tieventtiili	6-Wegeventil	6-vejs ventil	6-wegklep	Vanne 6 voies	Valvola 6 vie	Zawór 6-drogowy	6-cestný ventil	6-krypčių vožtuvas

ISYteq 3060 (X4)	② **Pi Actuator (IQAZ-35)**
G	2 (brown)
G0	1 (blue)
A3	B (white)
B3	A (white)

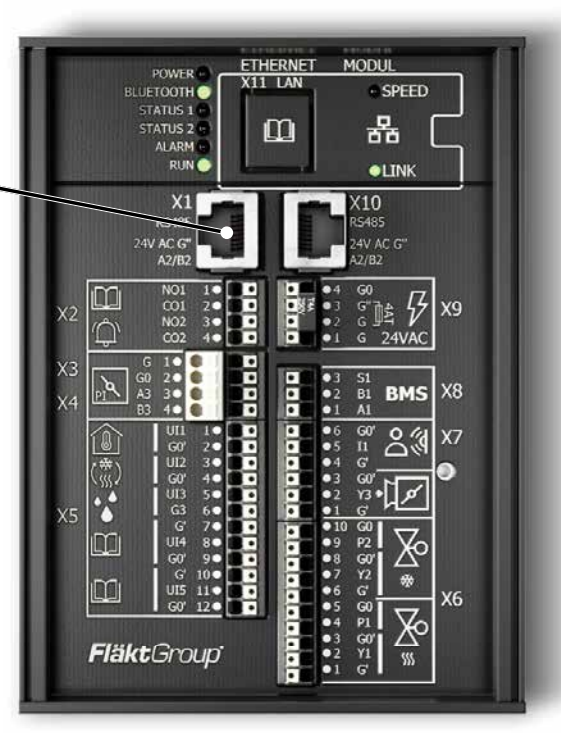
ISYteq 3060 (X6)	⑥ **6-way valve STRZ-70-81-41**
G0´ (3)	G0 (black)
Y1	Y (grey)
G´ (1)	G (red)

ISYteq 3060 (X6)	④ **Cooling valve STRZ-70-01/11/21-01**
G0 (10)	Blue
P2	Brown

ISYteq 3060 (X6)	⑤ **Heating valve STRZ-70-01/11/21-01**
G0 (5)	Blue
P1	Brown

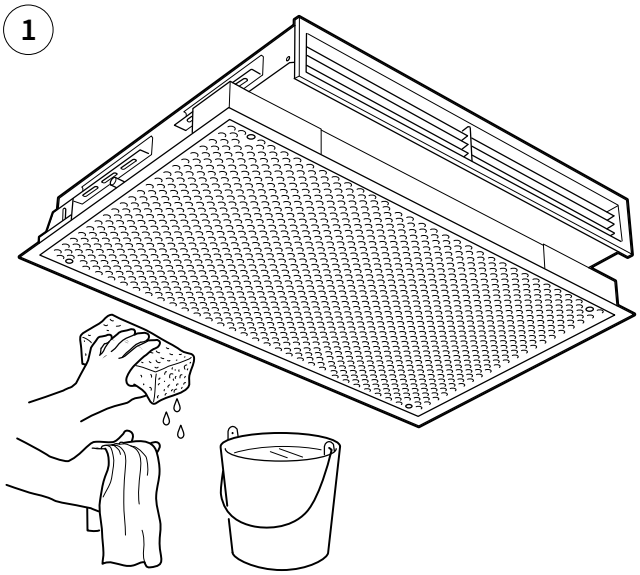
IQAZ 40

ISYTEQ TOUCH 2.1



Reference	Color TIA 568 B Patch	Remark
VDD	Blue-White	24VAC/VDC ±10% 1,2W
A+	Orange-White	Modbus RTU RX+/TX+
B-	Orange	Modbus RTU RX-/TX-
GND	Blue	GND for power supply
NC	Green-White	Must be insulated
NC	Green	Must be insulated
NC	Brown-White	Must be insulated
NC	Brown	Must be insulated

1



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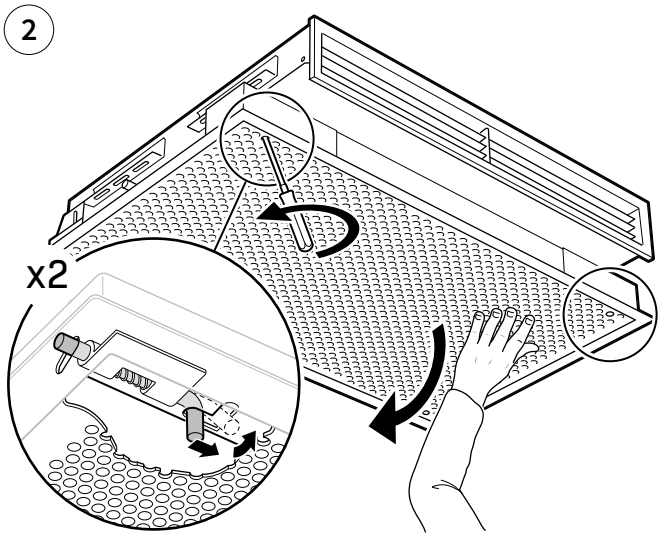

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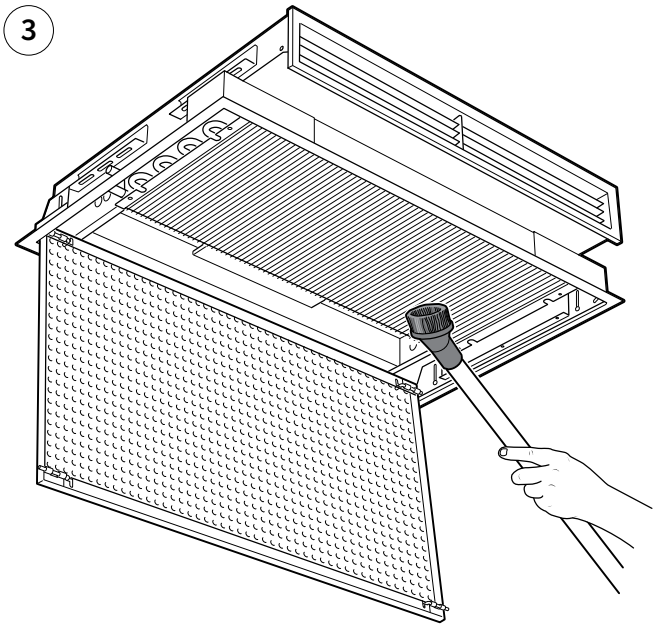

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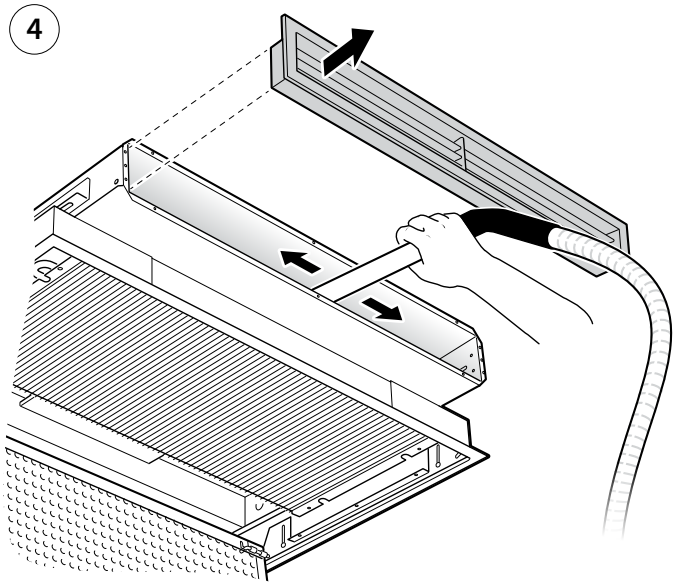

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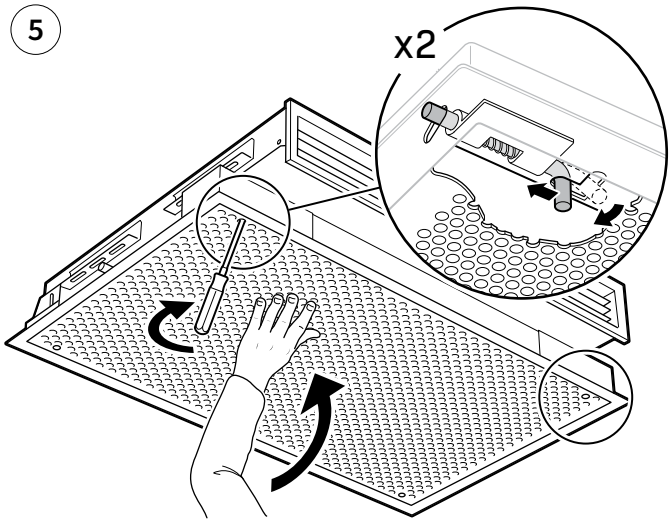
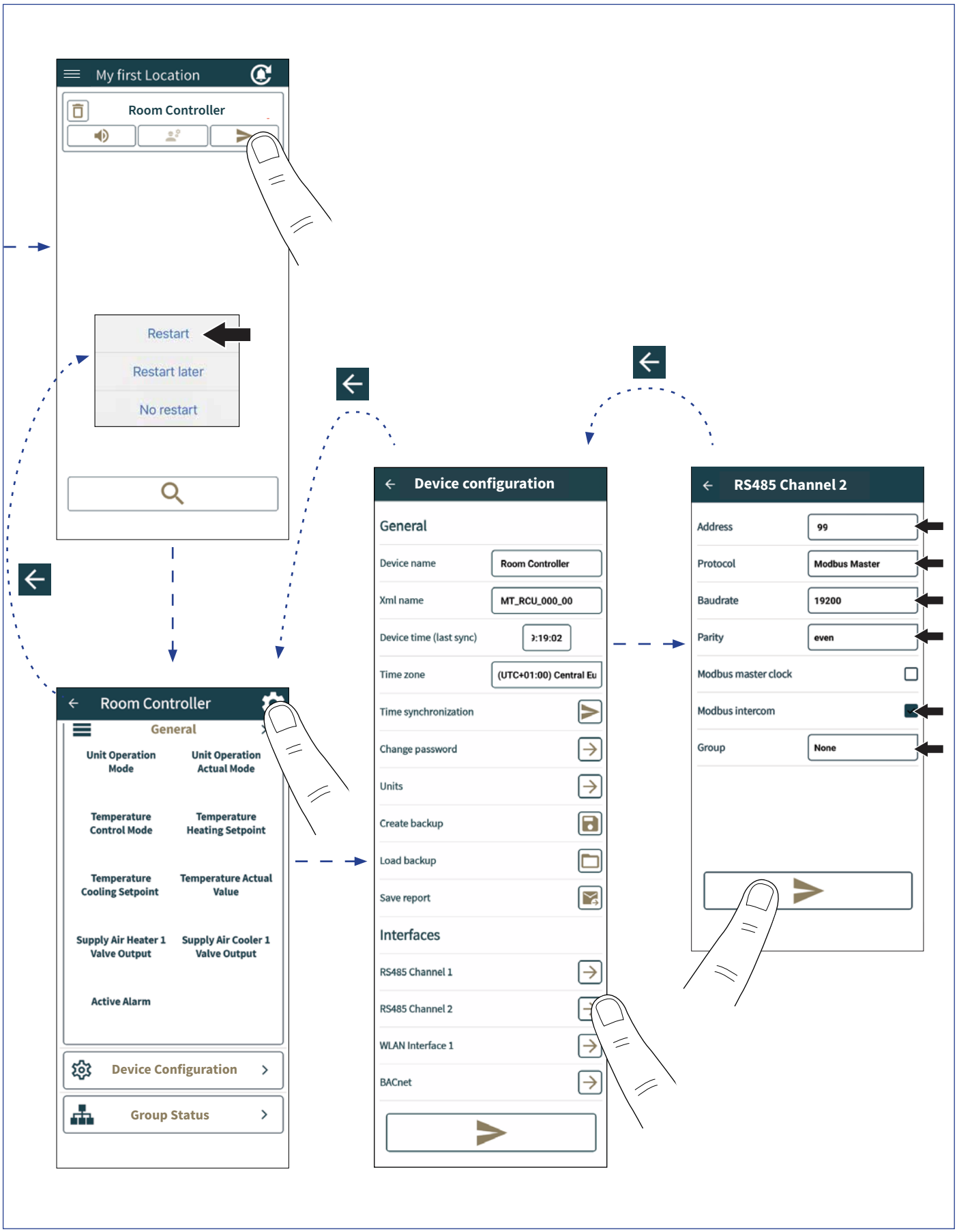
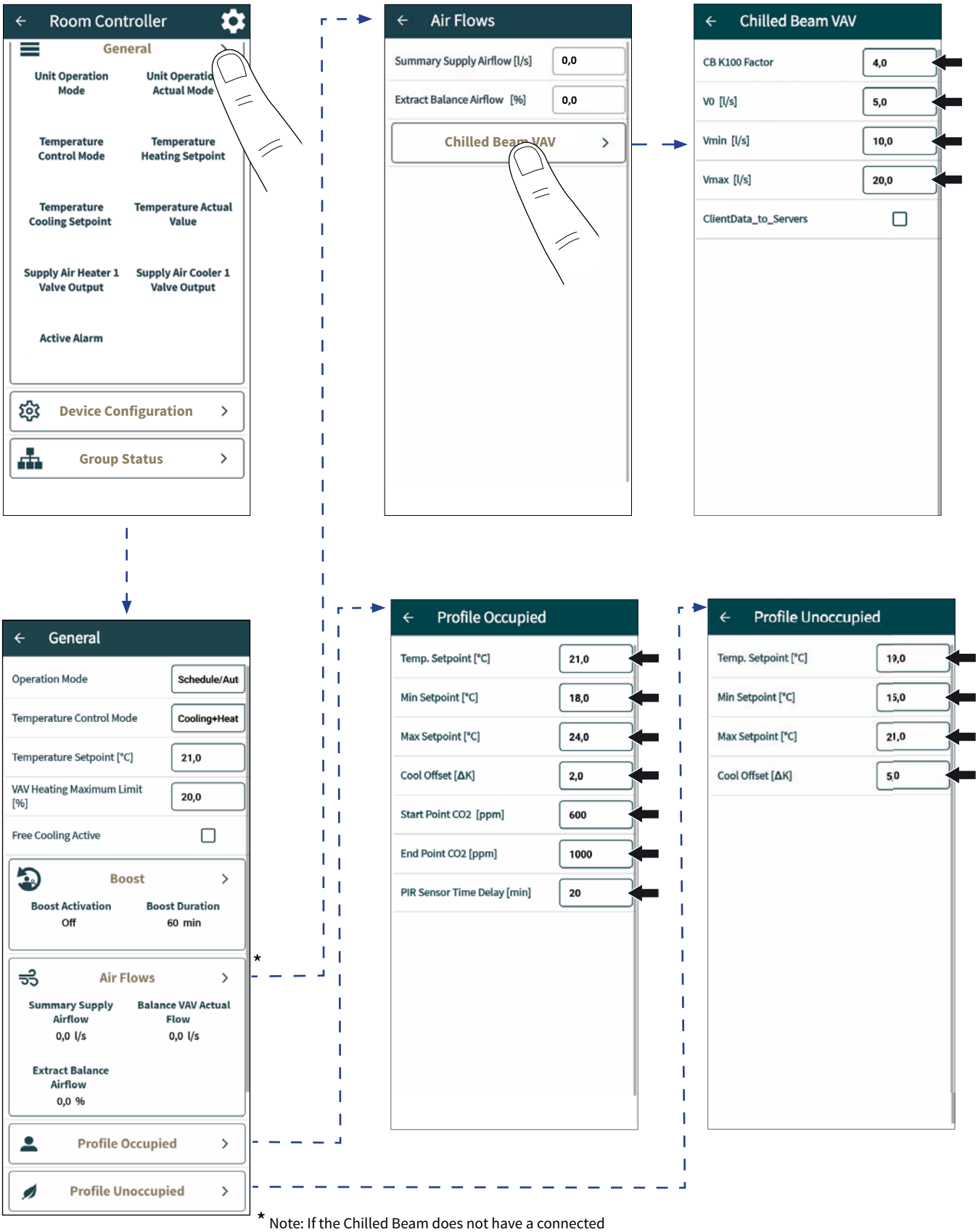


Guide 1

ISYteqGO Smartphone app for Chilled beams

QUICK GUIDE FOR COMMISSIONING A SINGLE CHILLED BEAM VIA APP


My first Location
Room Controller
Restart
Restart later
No restart
Device configuration
General
Device name
Room Controller
Xml name
MT_RCU_000_00
Device time (last sync)
Time zone
(UTC+01:00) Central Eu
Time synchronization
Change password
Units
Create backup
Load backup
Save report
Interfaces
RS485 Channel 1
RS485 Channel 2
WLAN Interface 1
BACnet
RS485 Channel 2
Address
99
Protocol
Modbus Master
Baudrate
19200
Parity
even
Modbus master clock
Modbus intercom
Group
None
Room Controller
General
Unit Operation Mode
Unit Operation Actual Mode
Temperature Control Mode
Temperature Heating Setpoint
Temperature Cooling Setpoint
Temperature Actual Value
Supply Air Heater 1 Valve Output
Supply Air Cooler 1 Valve Output
Active Alarm
Device Configuration
Group Status

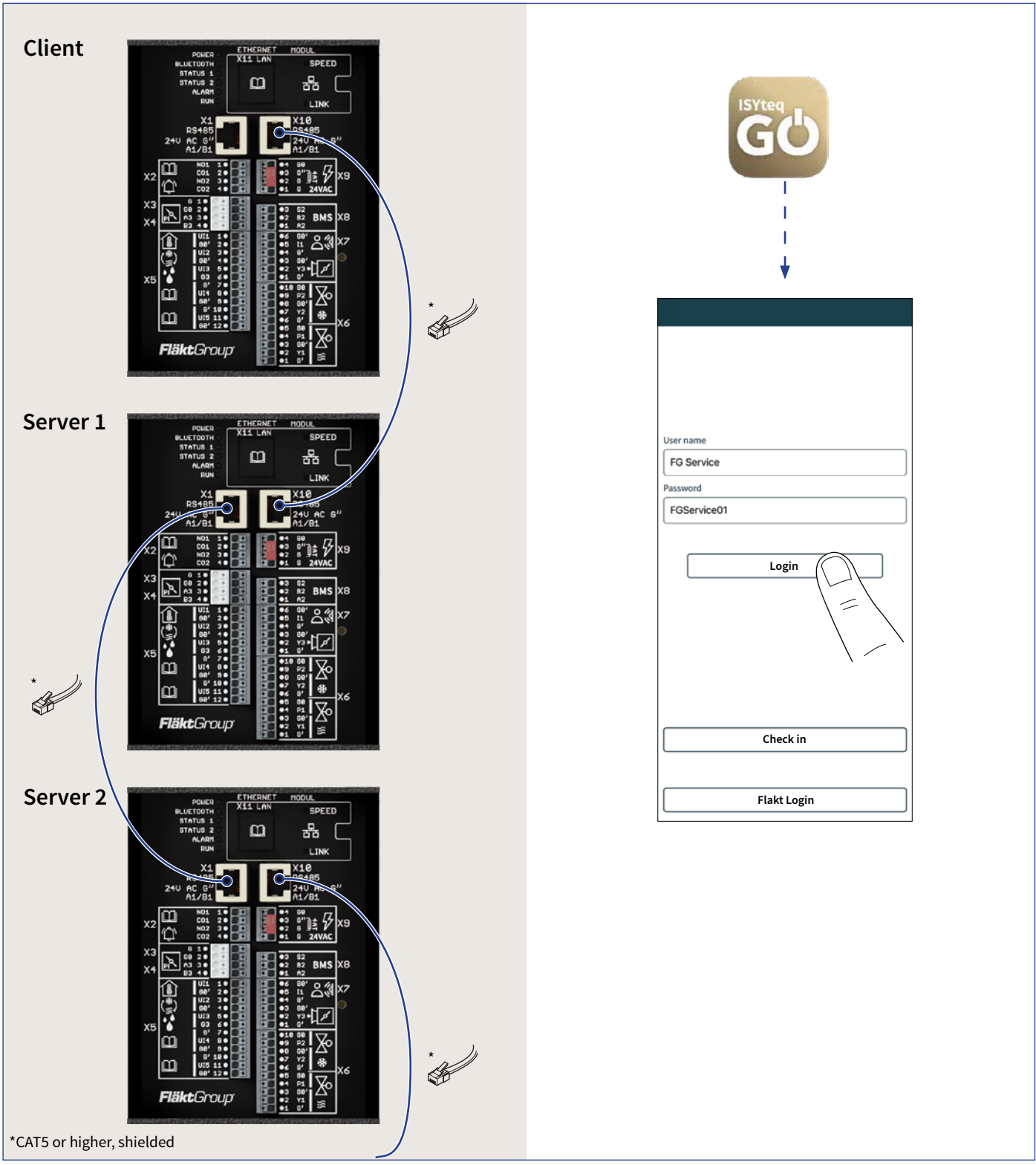


* Note: If the Chilled Beam does not have a connected actuator for air flow, this setting is not valid.

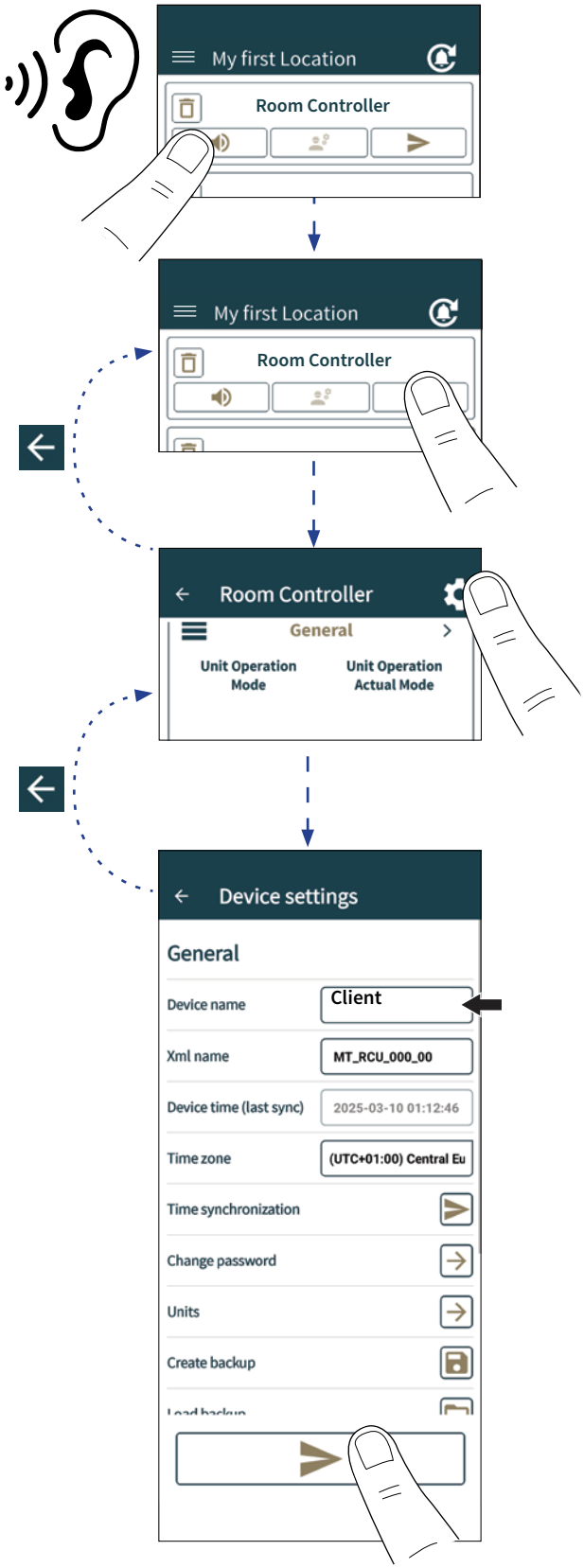
Appendix 2

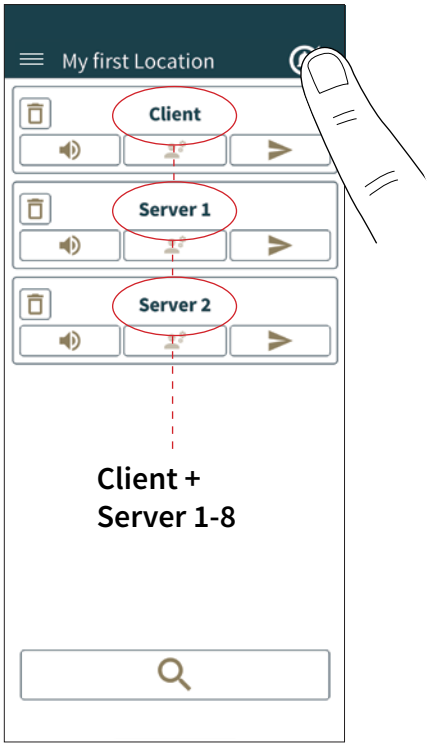
ISYteqGO Smartphone app for Chilled beams

QUICK GUIDE FOR COMMISSIONING CHILLED BEAMS SERVER 1-8 VIA APP

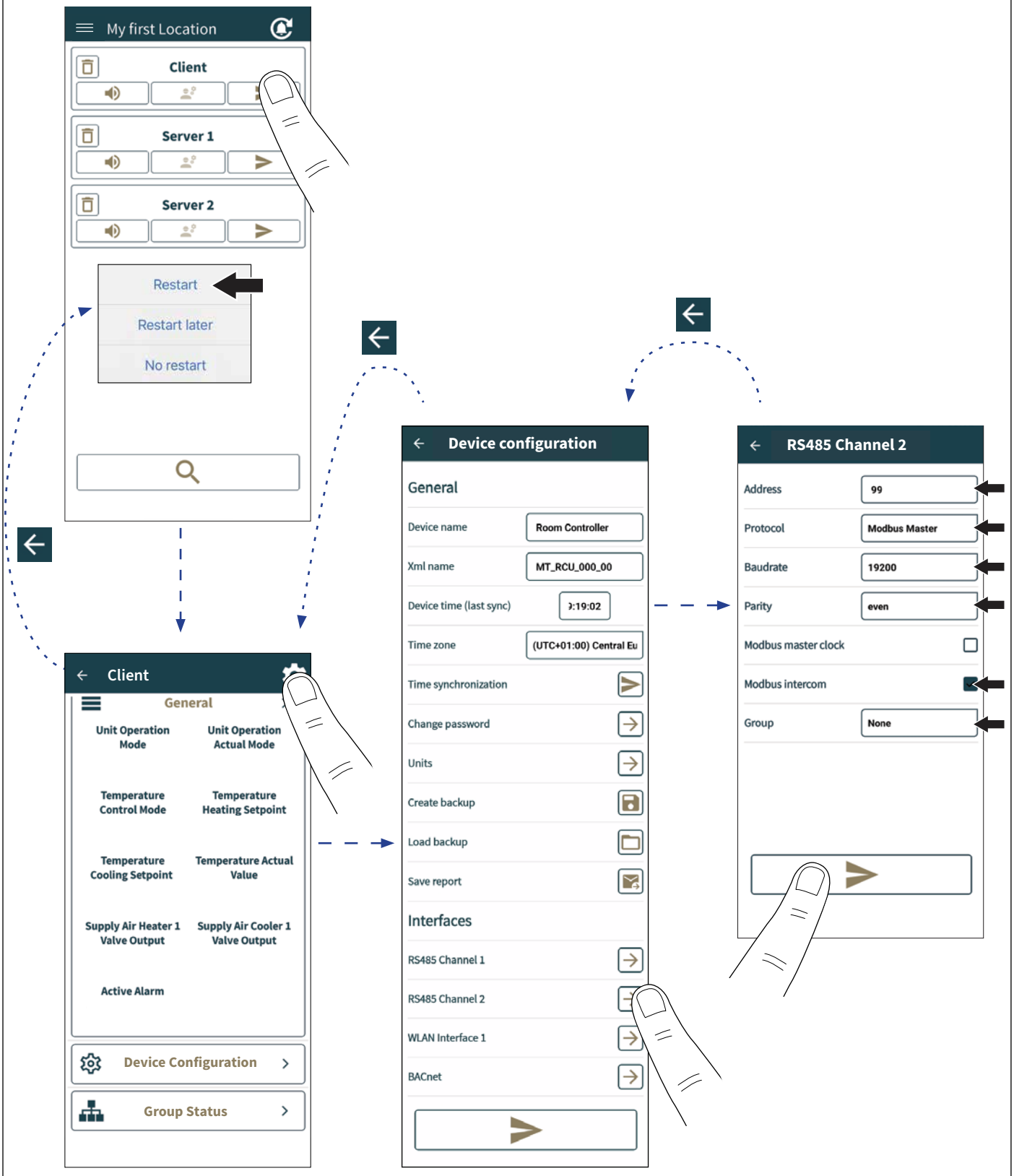


To change the Client and Server names

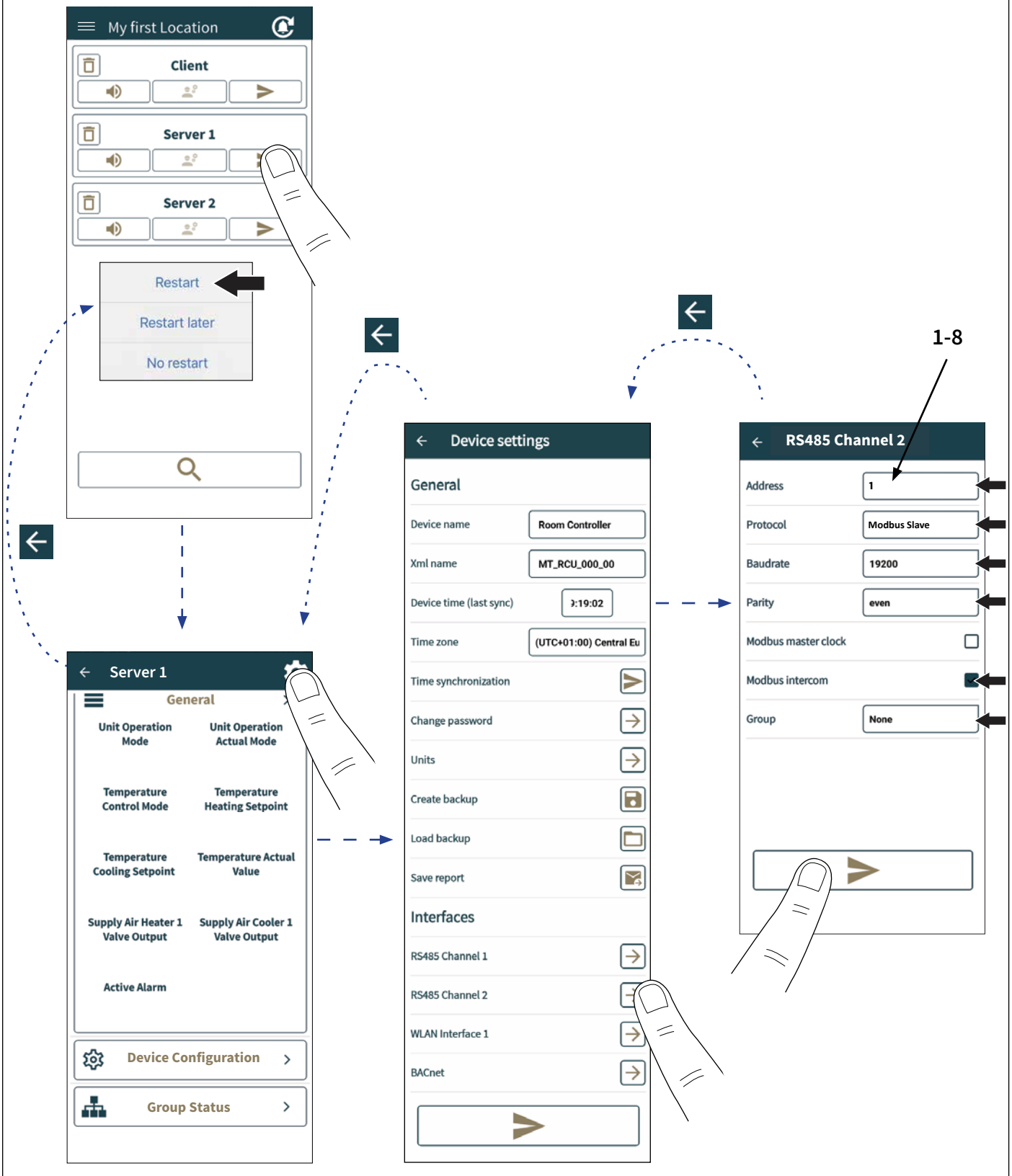




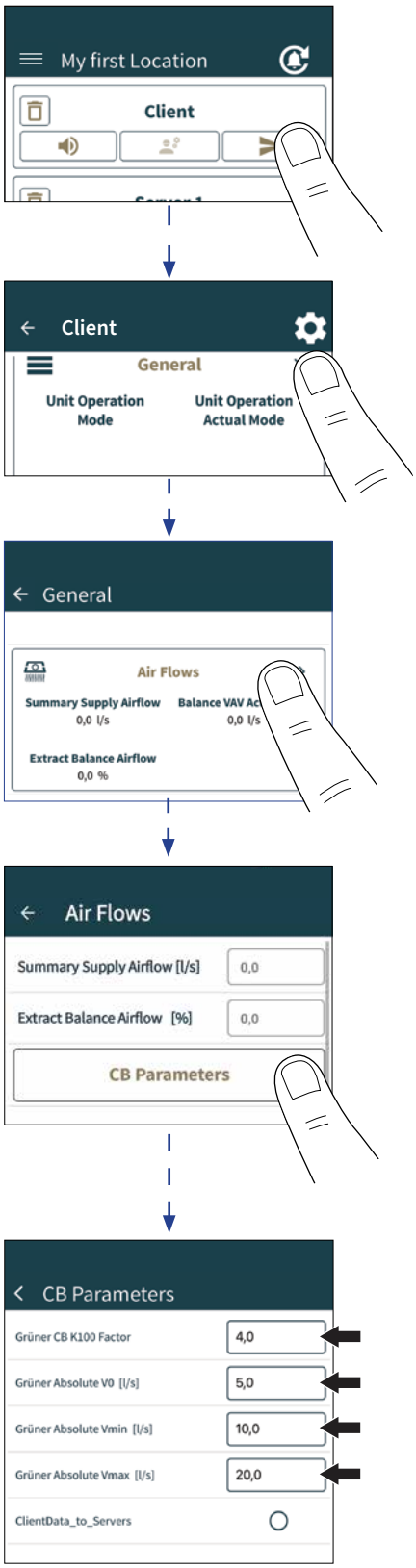
Client settings



Server settings

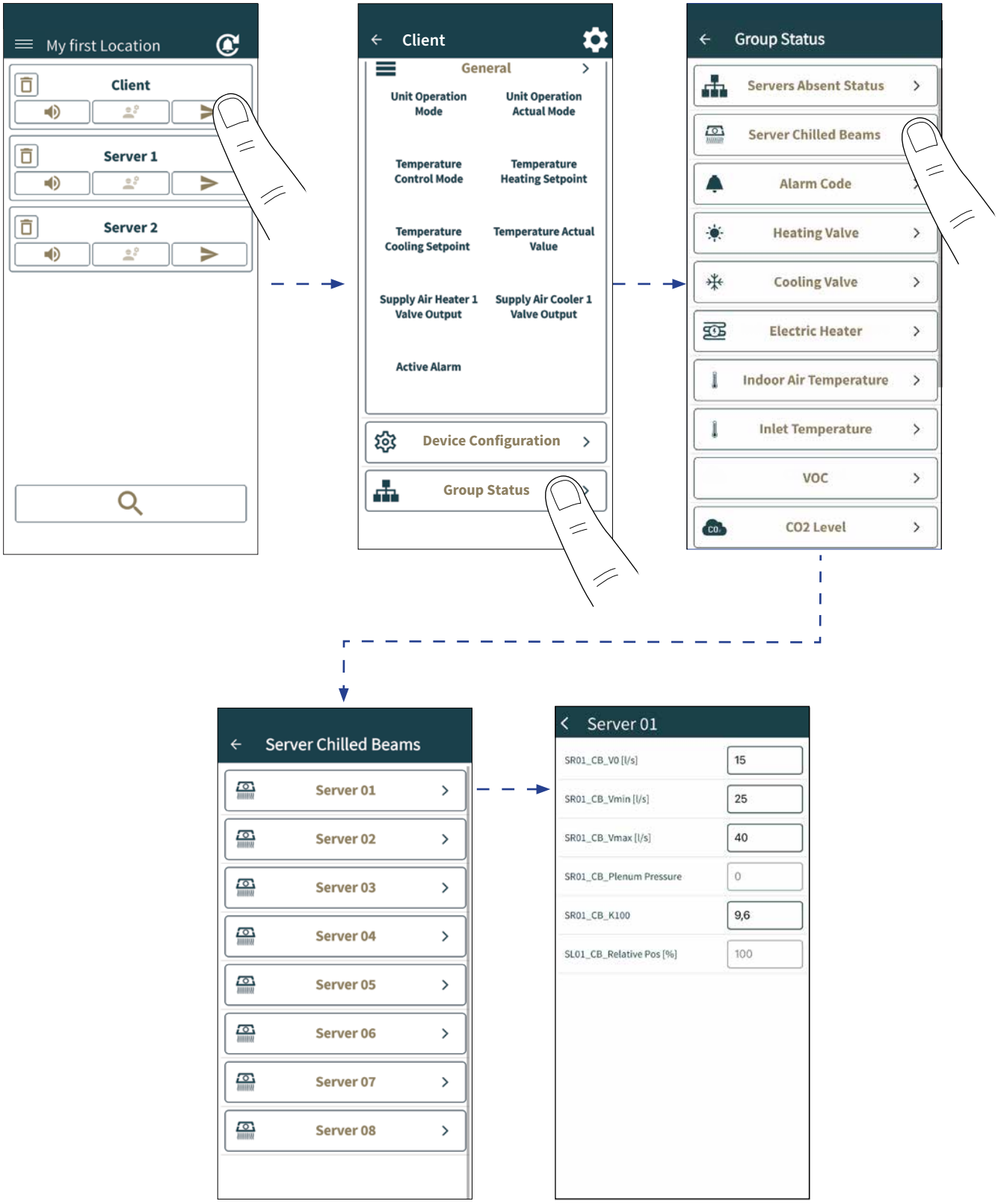


Client
CB parameters



Client
Copy CB parameters to Servers

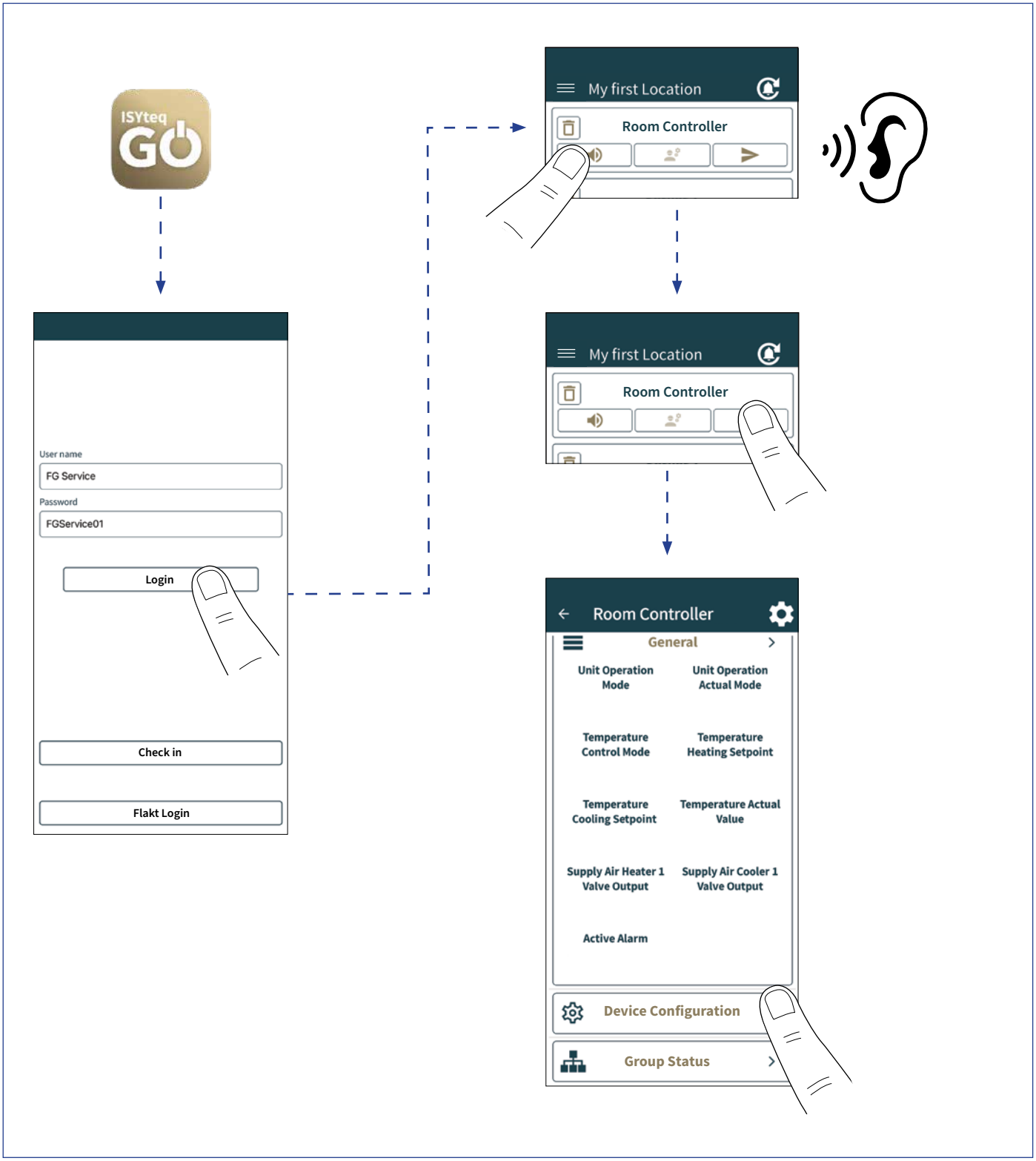
Client
Check Servers

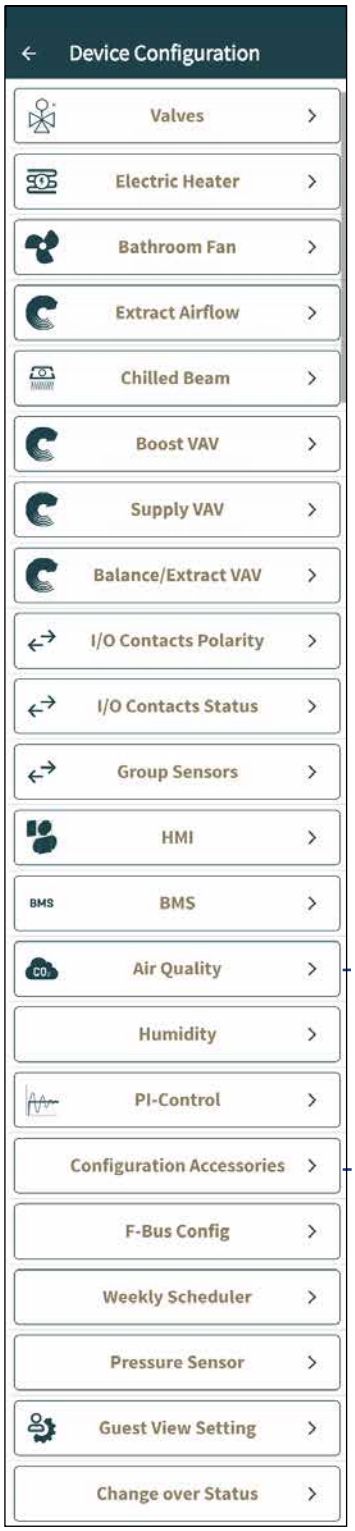


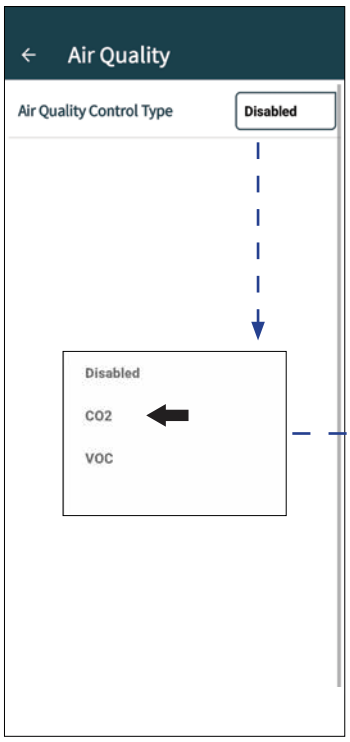
Appendix 3

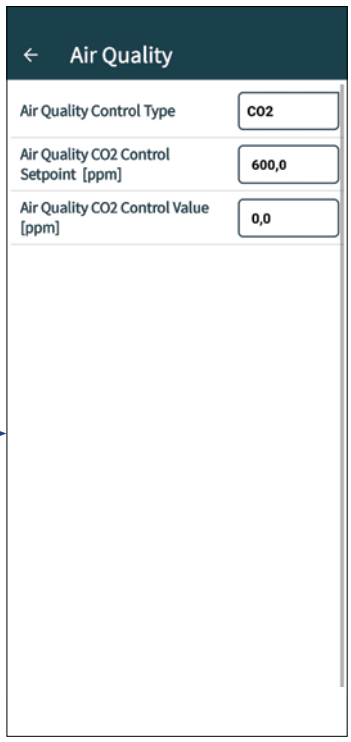
ISYteqGO Smartphone app for Chilled beams

QUICK GUIDE FOR COMMISSIONING CHILLED BEAMS – ADDING CO_2 SENSOR VIA APP



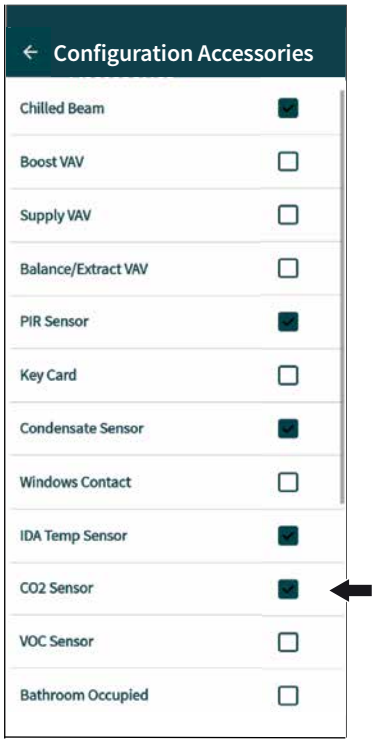


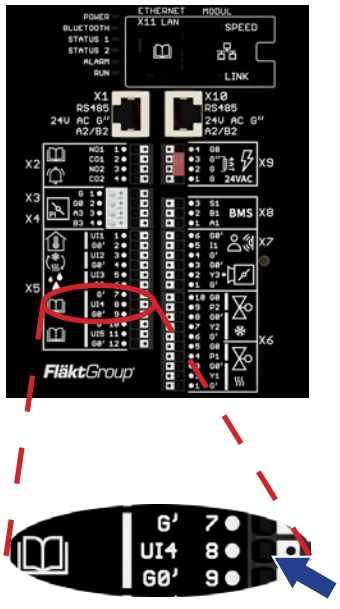




2

1





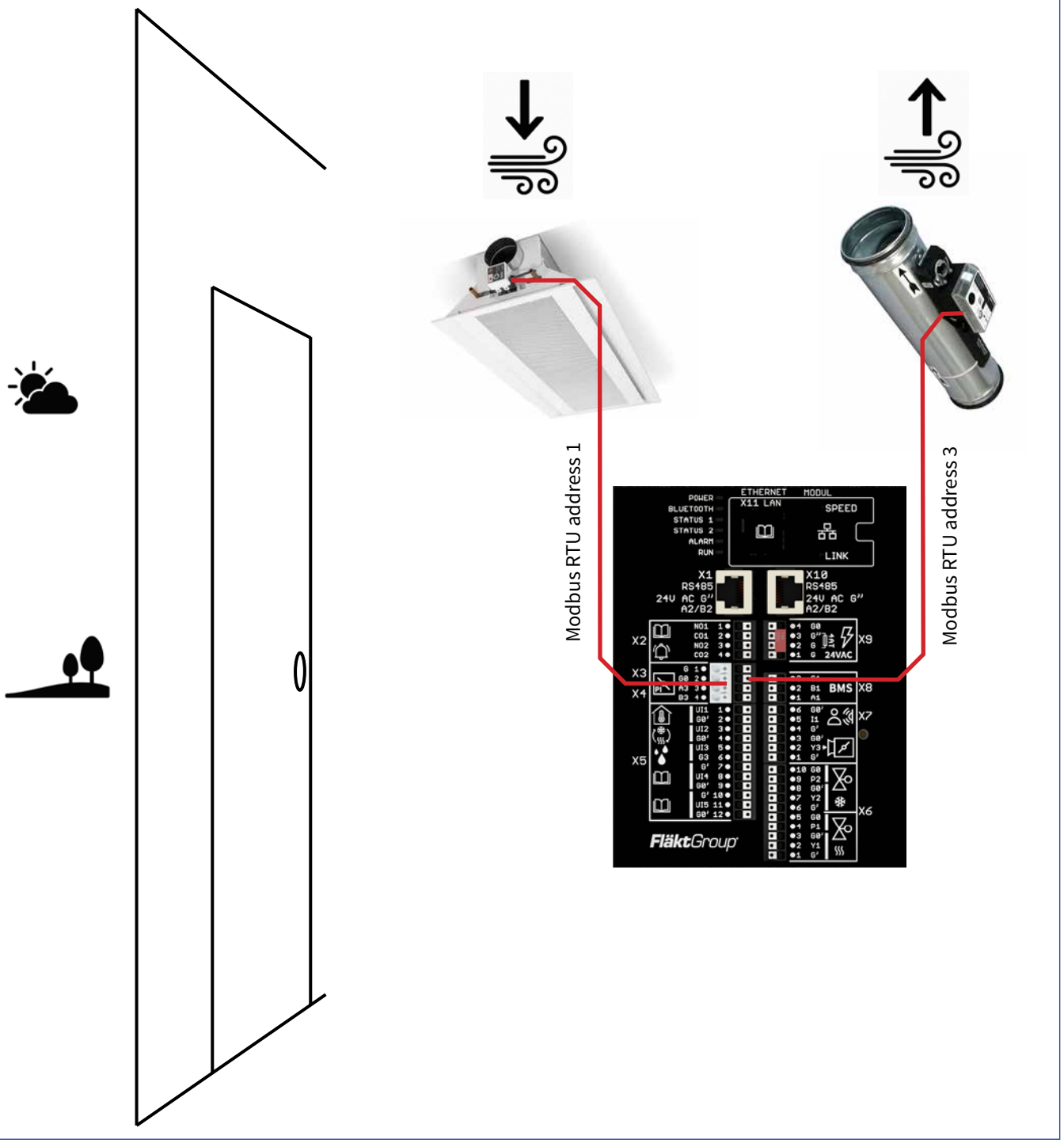
Connection for CO_2/VAC sensor.

Appendix 4

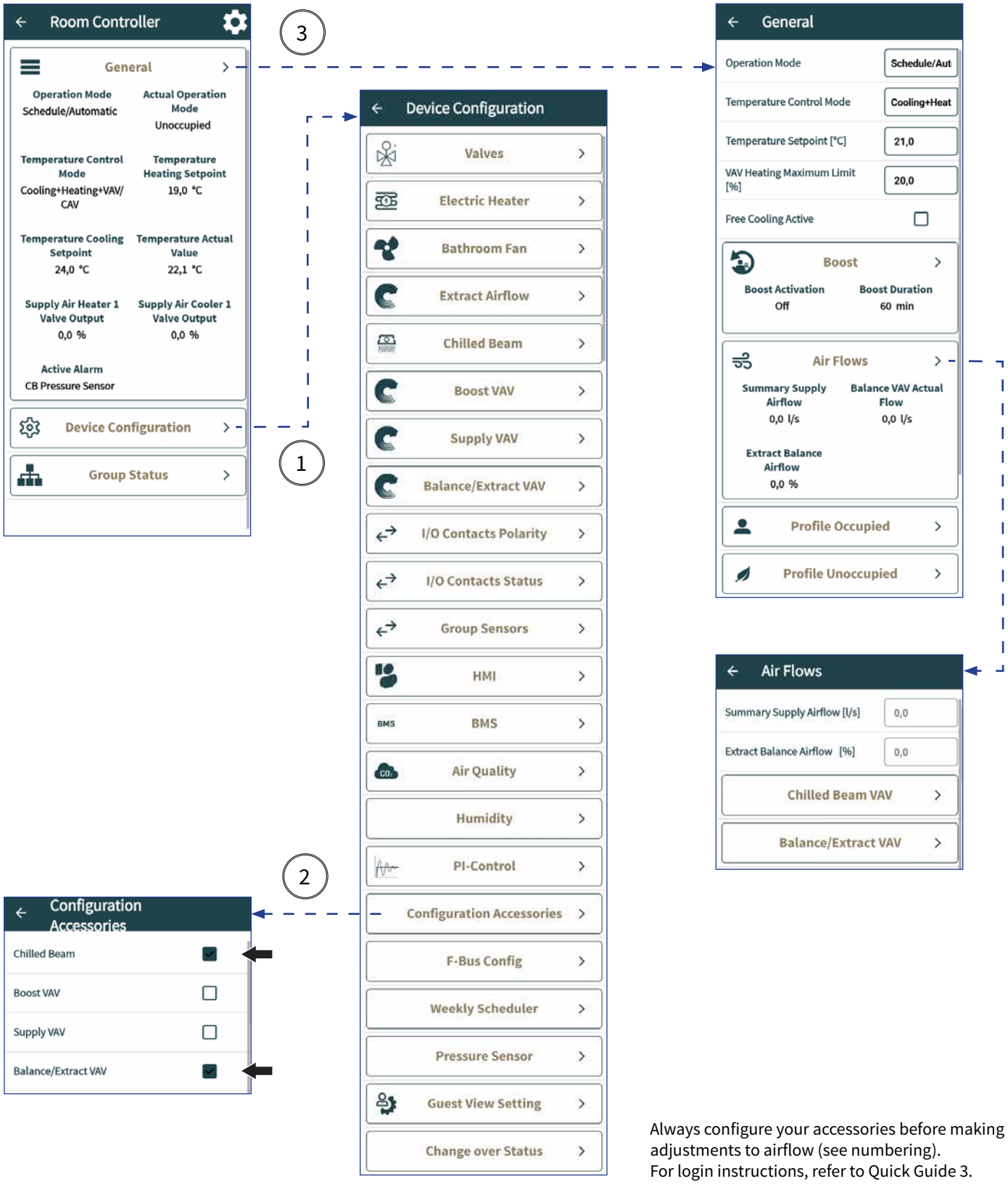
ISYteqGO Smartphone app for Chilled beams

QUICK GUIDE FOR COMMISSIONING SUPPLY, BOOST AND EXTRACT AIRFLOWS VIA APP

Chilled Beam + VAV Damper Extract

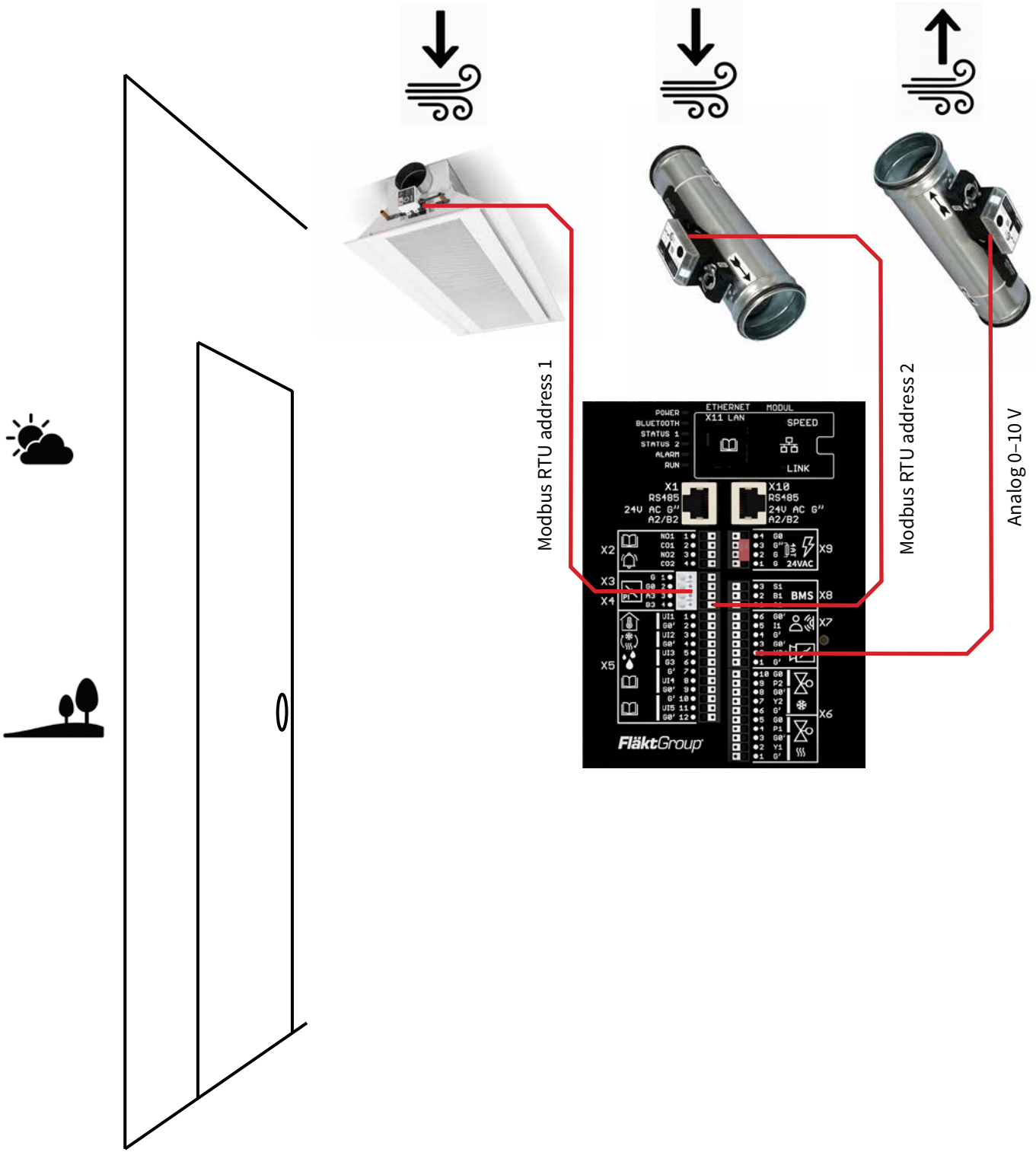


Chilled Beam + VAV Damper Extract

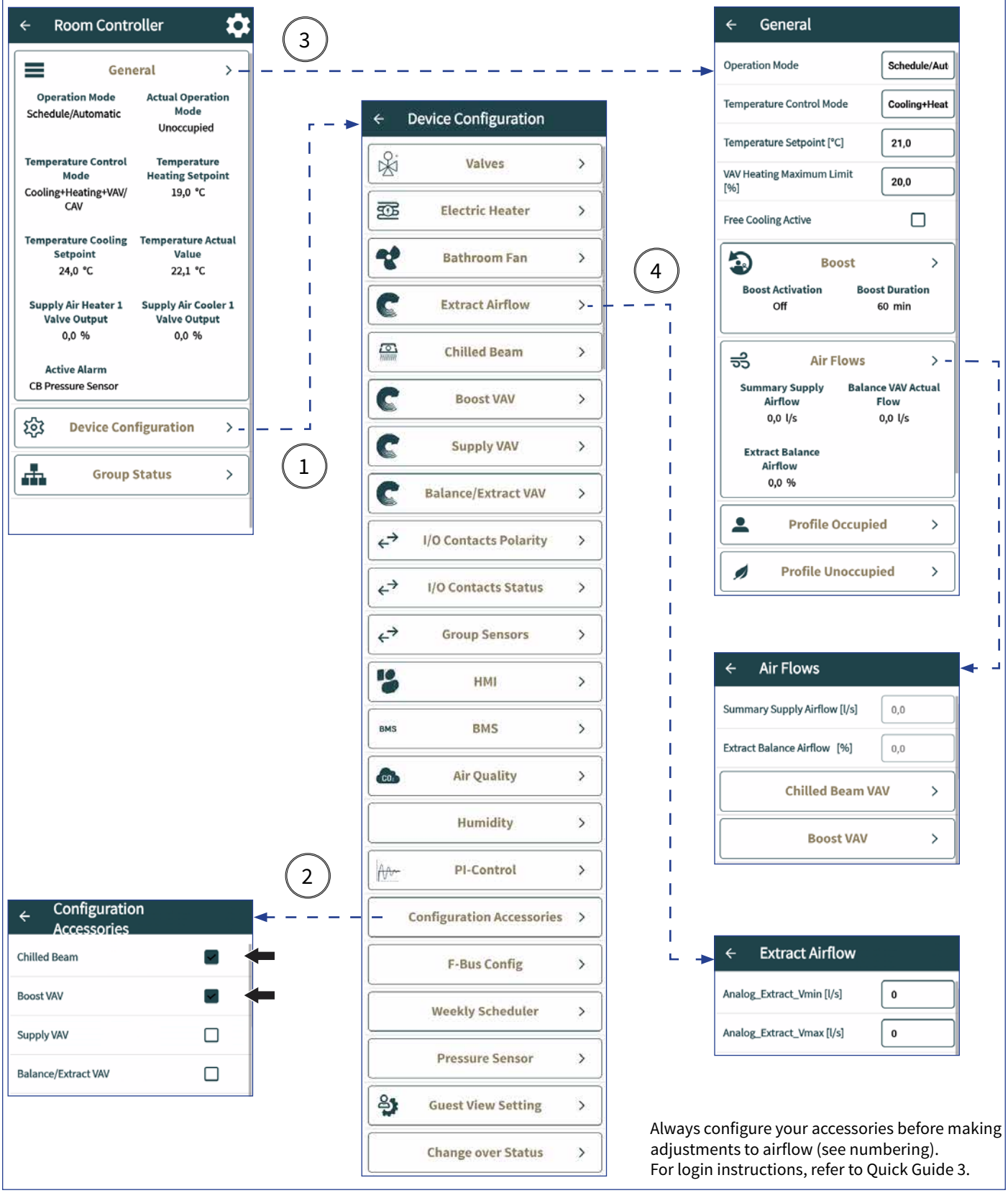


Always configure your accessories before making adjustments to airflow (see numbering).
For login instructions, refer to Quick Guide 3.

Chilled Beam + VAV Damper Boost and Extract

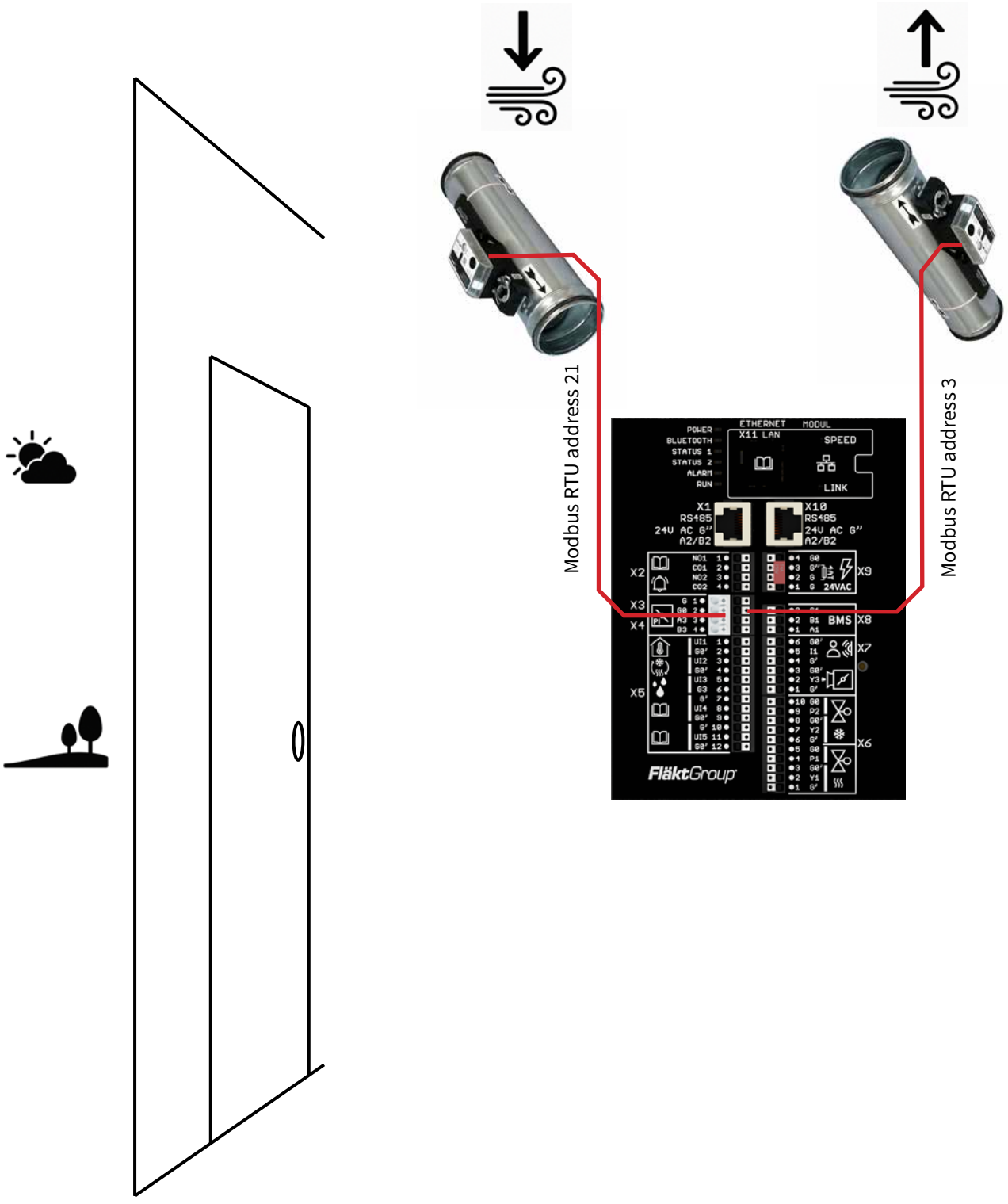


Chilled Beam + VAV Damper Boost and Extract

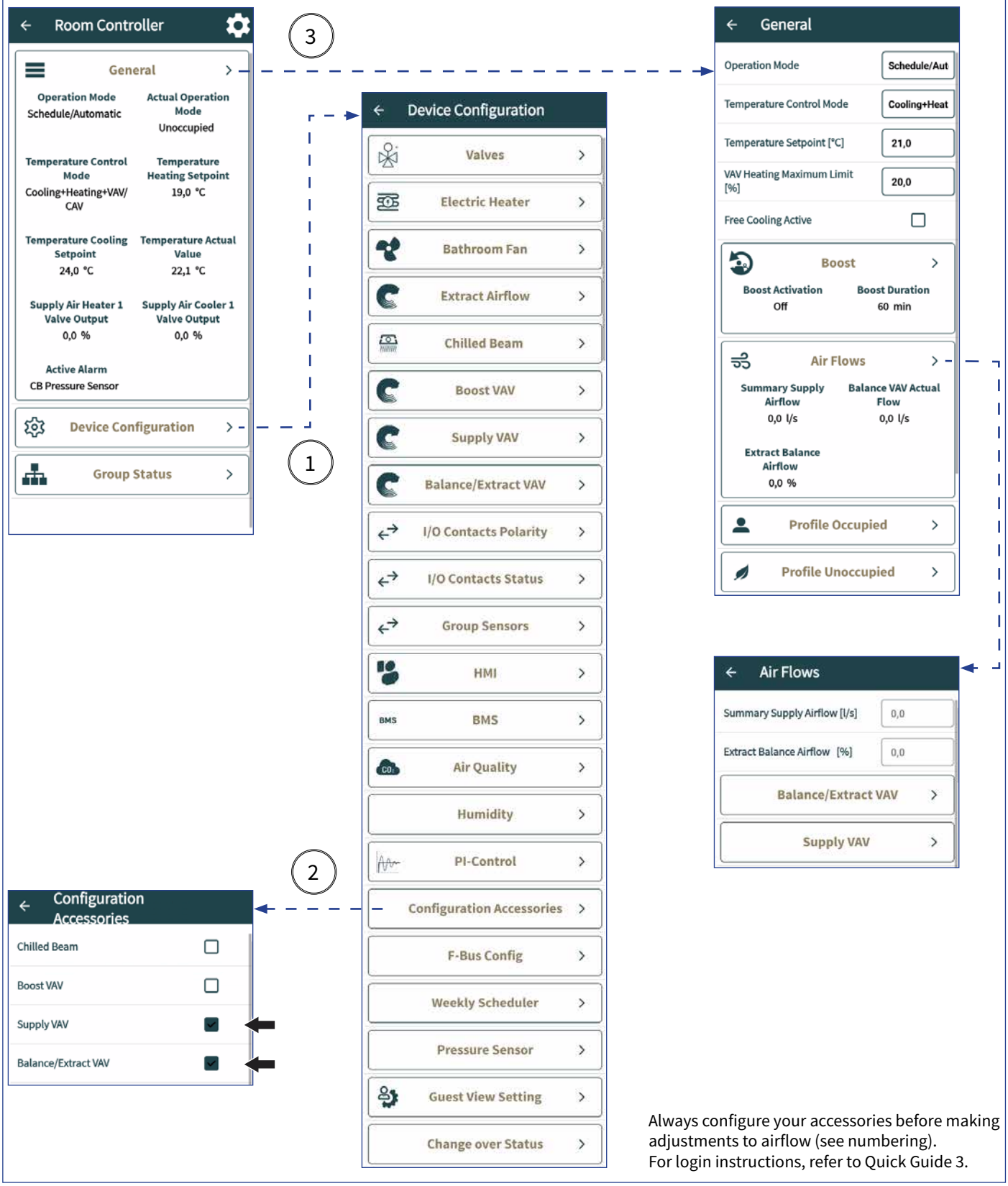


Always configure your accessories before making adjustments to airflow (see numbering).
For login instructions, refer to Quick Guide 3.

VAV Damper Supply + VAV Damper Extract



VAV Damper Supply + VAV Damper Extract



Always configure your accessories before making adjustments to airflow (see numbering).
For login instructions, refer to Quick Guide 3.

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