

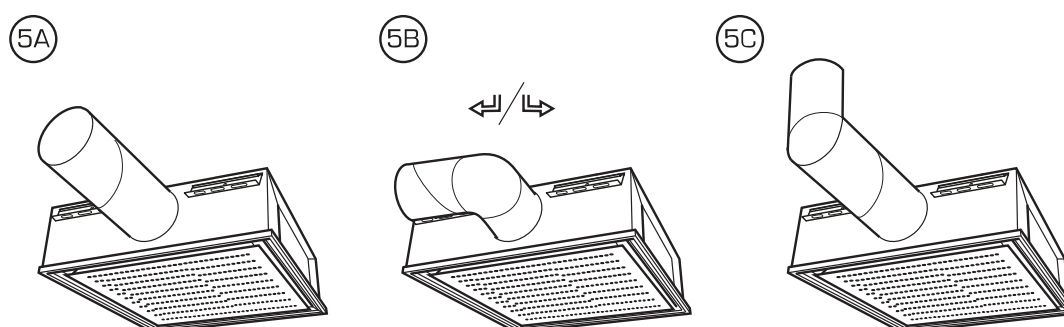
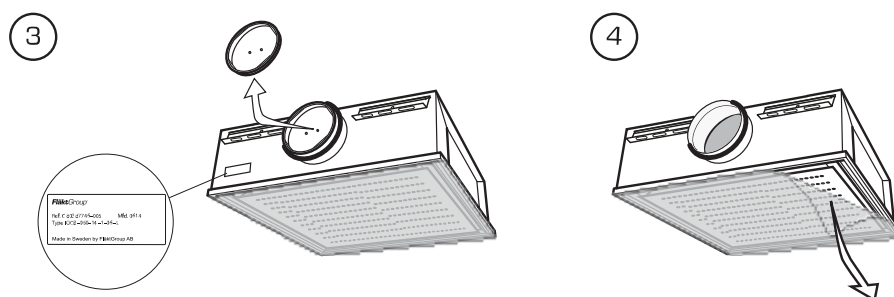
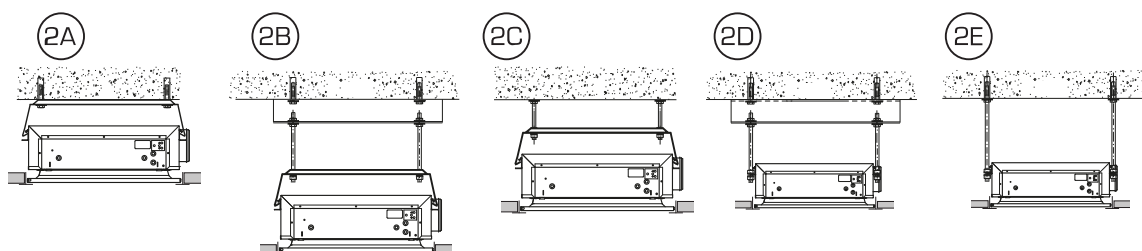
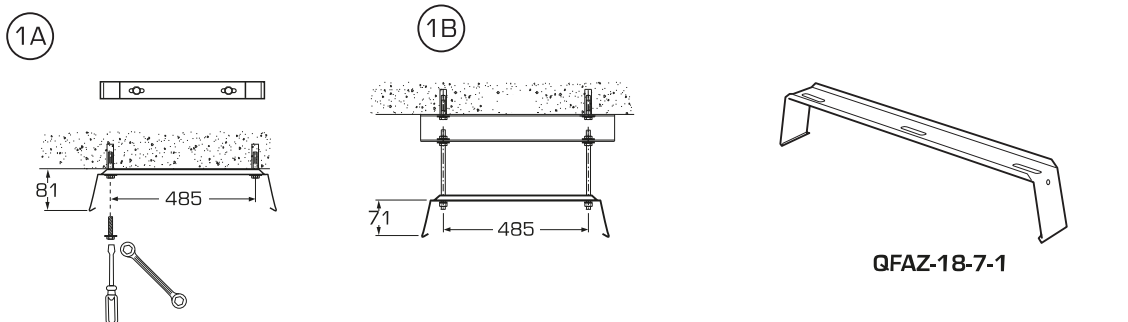
IQ STAR LYRA II CHILLED BEAM CASSETTE

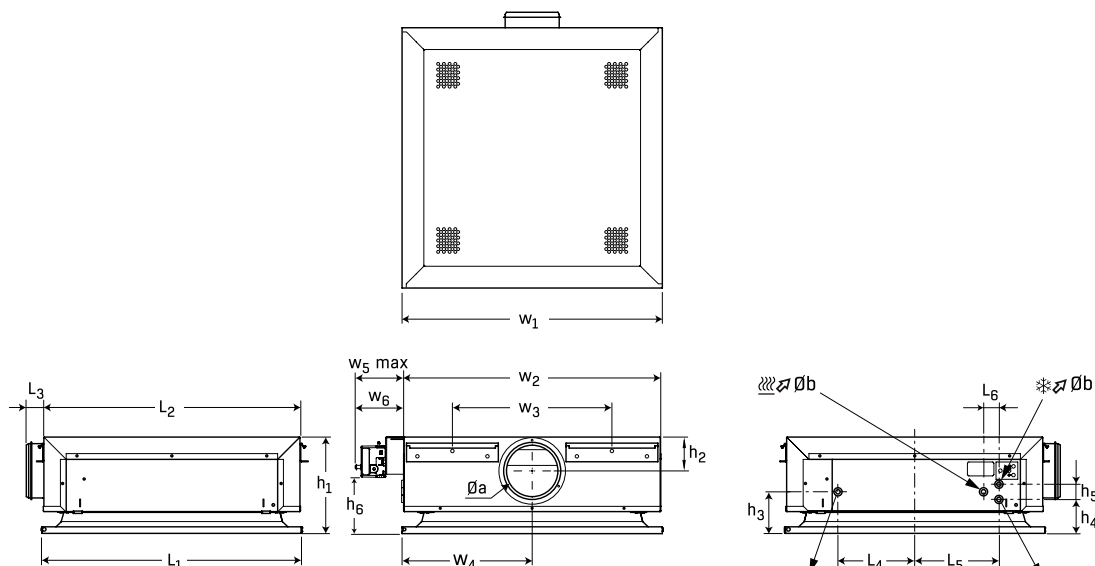
INSTALLATION, COMMISSIONING AND MAINTENANCE

- SE | MONTERING, INJUSTERING OCH UNDERHÅLL
- FI | ASENNUS, KÄYTTÖNOTTO JA HUOLTO
- DK | INSTALLATION, JUSTERING OG VEDLIGEHOELSE
- 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
- RU | МОНТАЖ, ВВОД В ЭКСПЛУАТАЦИЮ И ТЕХНИЧЕСКОЕ ОБСЛУЖИВАНИЕ

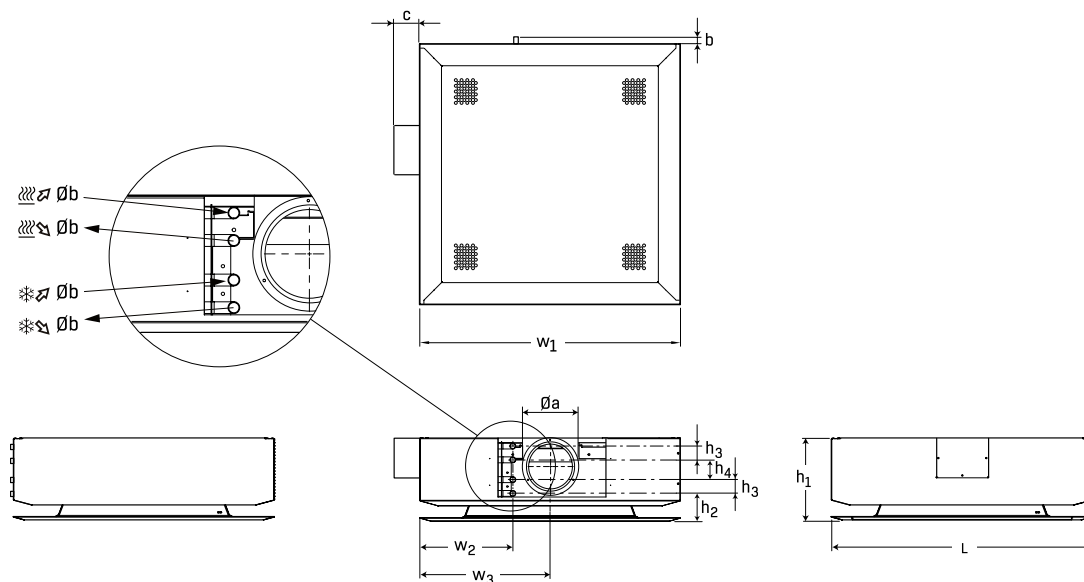


IQCC-aaa-bb-c-dd-0



LYRA II-060 (e = 0)

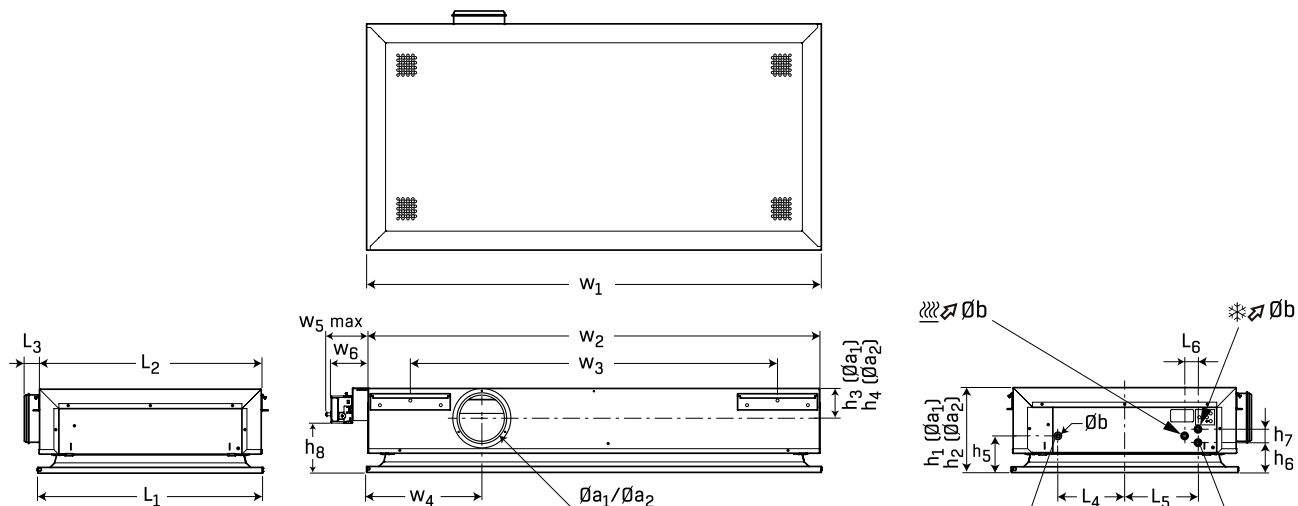
Øa	Øb	h1	h2	h3	h4	h5	h6	L1	L2	L3	L4	L5	L6	w1	w2	w3	w4	w5	w6
125	15	220	77	95	77,5	35	126	594	585	40	175	195	35	594	587	364	297	139	95

LYRA II-060 (e = 1)

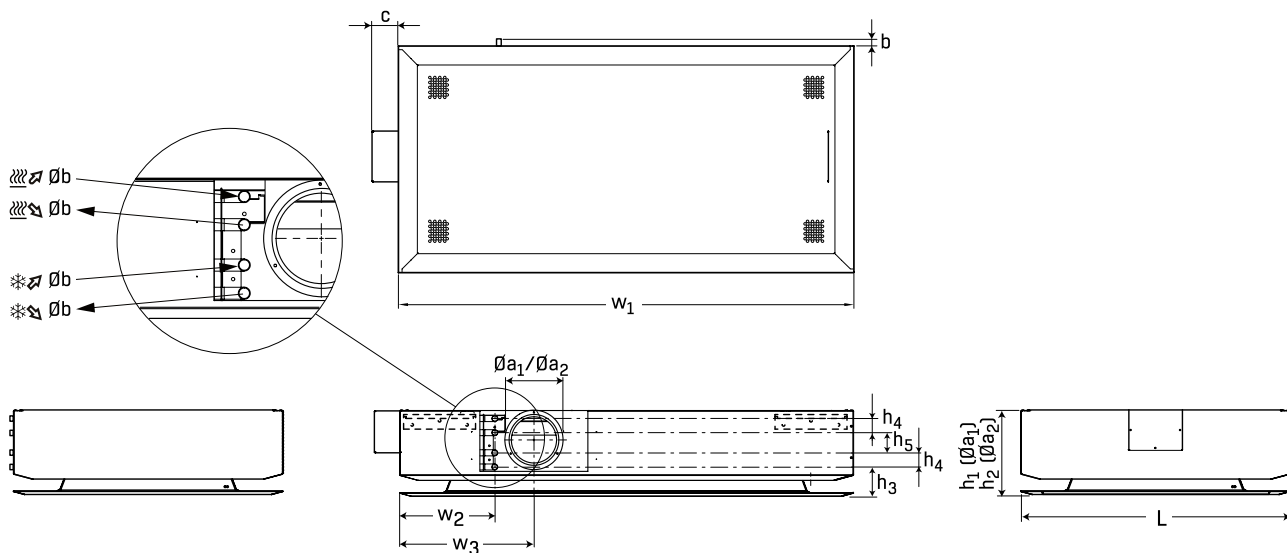
Øa	Øb	b	c	h1	h2	h3	h4	L	w1	w2	w3
125	15	20	79	220	77,5	35	50	725	725	260	362,5

Air connection is male.
Water connections are male.

 = Cooling water in  = Heating water in
 = Cooling water out  = Heating water out

LYRA II-120 (e = 0)

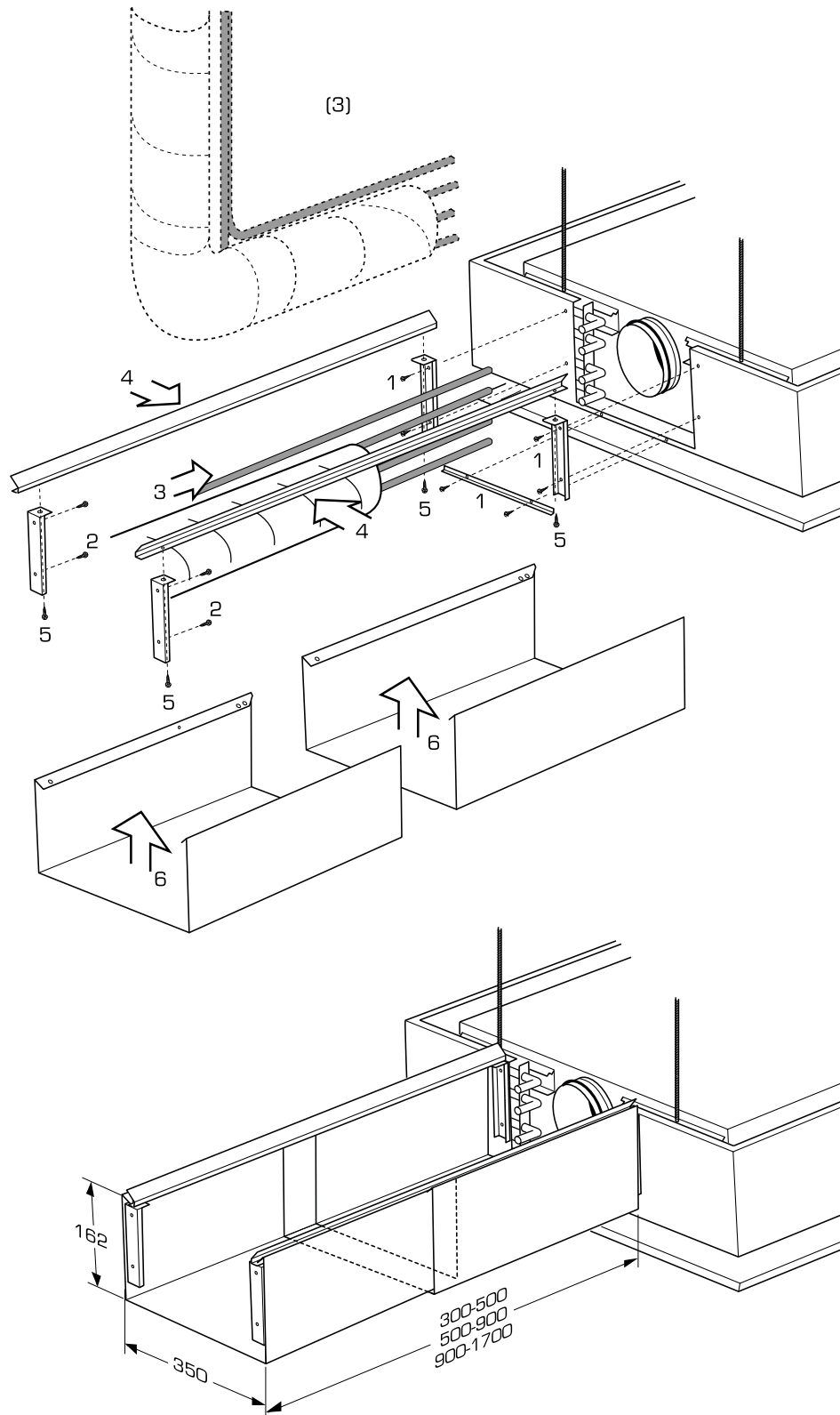
Øa1	Øa2	Øb	h1	h2	h3	h4	h5	h6	h7	h8	L1	L2	L3	L4	L5	L6	w1	w2	w3	w4	w5	w6
125	160	15	220	255	77	97	95	78	35	126	594	585	40	175	195	35	1194	1187	964	297	139	95

LYRA II-120 (e = 1)

Øa1	Øa2	b	Øb	c	h1	h2	h3	h4	h5	L	w1	w2	w3
125	160	20	15	79	220	255	77,5	35	50	725	1325	260	362,5

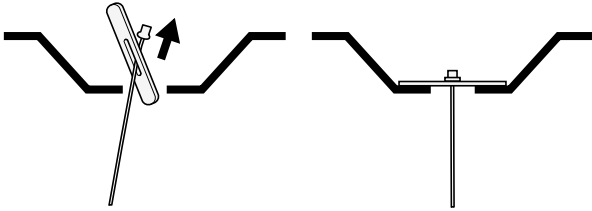
Air connection is male.
Water connections are male.

= Cooling water in = Heating water in
 = Cooling water out = Heating water out

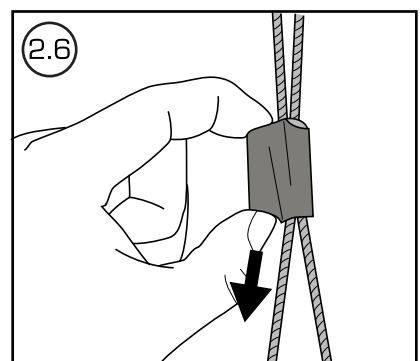
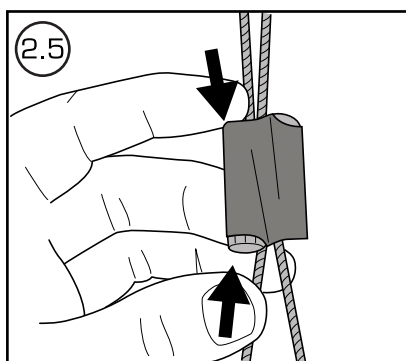
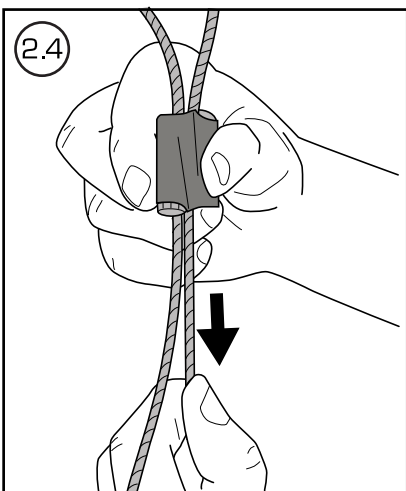
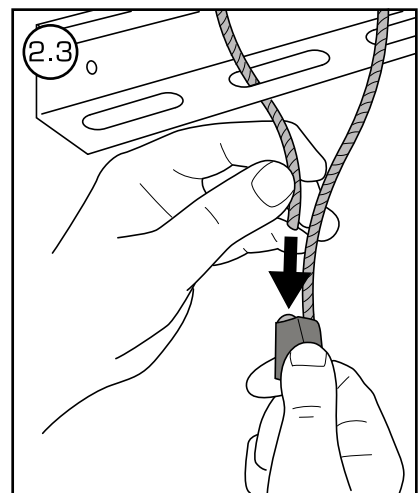
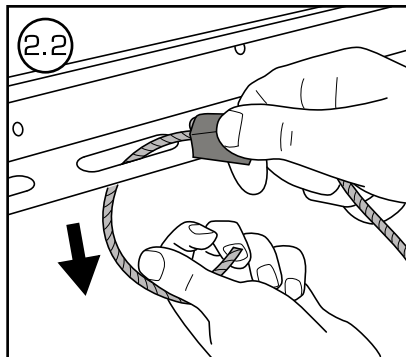
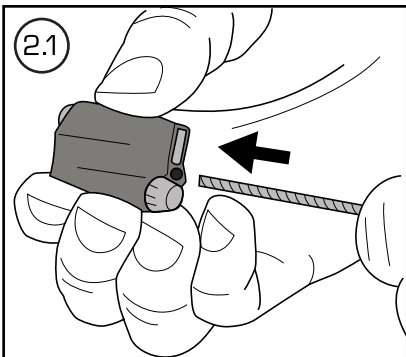
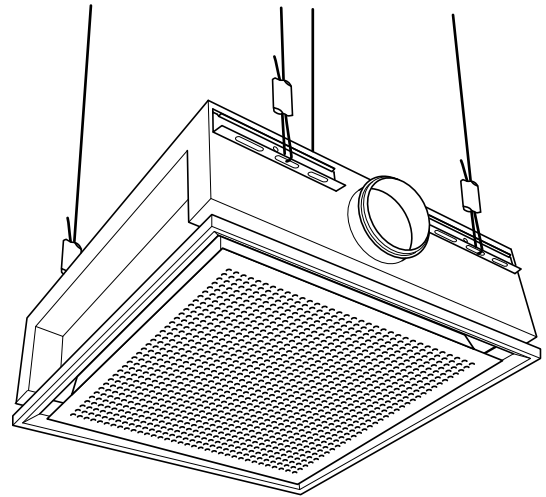
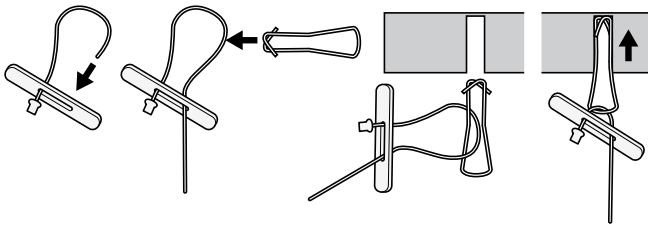
IQAZ-33

IQCC-aaa-bb-c-dd-e + QFAZ-23-01-01

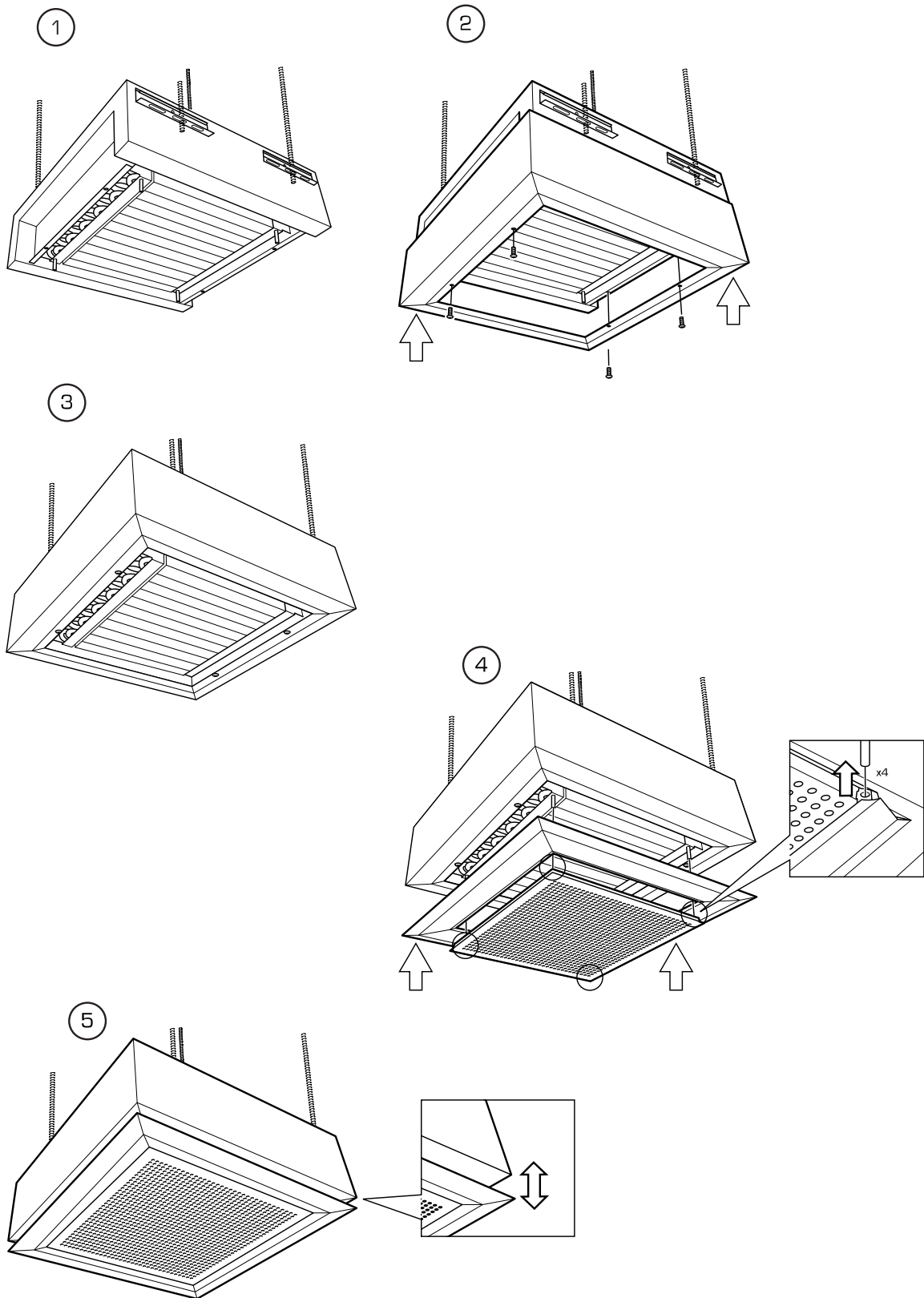
1A



1B

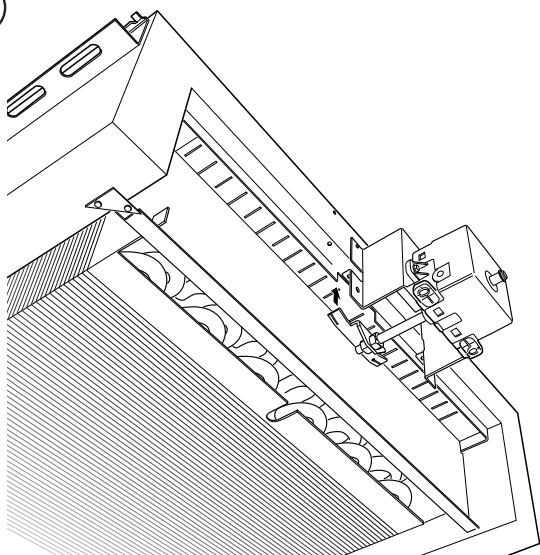


IQCC-aaa-bb-c-dd-e + IQAZ-33-bbb-c-ddd

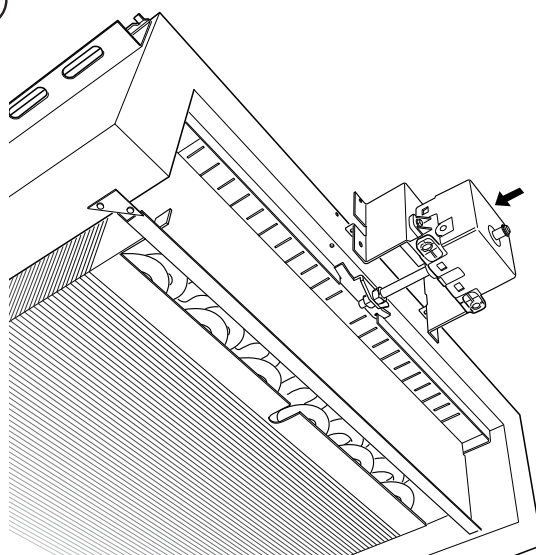


- GB RETROFIT OF EXTERNAL DAMPER MOTOR
 SE INSTALLATION I EFTERHAND AV EXTERN SPJÄLLMOTOR
 FI ULKOISEN PELTIMOOTTORIN JÄLKIASENNUS
 DK EFTERMONTERING AF EKSTERN SPJÆLDMOTOR
 DE NACHRÜSTEN EINES EXTERNEN KLAPPENMOTORS
 NL RETROFIT VAN EXTERNE DEMPERMOTOR
 FR MONTAGE À POSTERIORI DU SERVOMOTEUR DE REGISTRE EXTERNE
 IT INSTALLAZIONE SUCCESSIVA DEL MOTORE PER SERRANDA ESTERNO
 PL REGENERACJA ZEWNĘTRZNEGO SILNIKA PRZEPUSTNICY
 CZ RETROFITOVÁNÍ EXTERNÍHO MOTORU KLAPKY
 LT IŠORINIO VALDIKLIO MONTAVIMAS
 RU ЗАМЕНА ВНЕШНЕГО ЭЛЕКТРОДВИГАТЕЛЯ КЛАПАНА

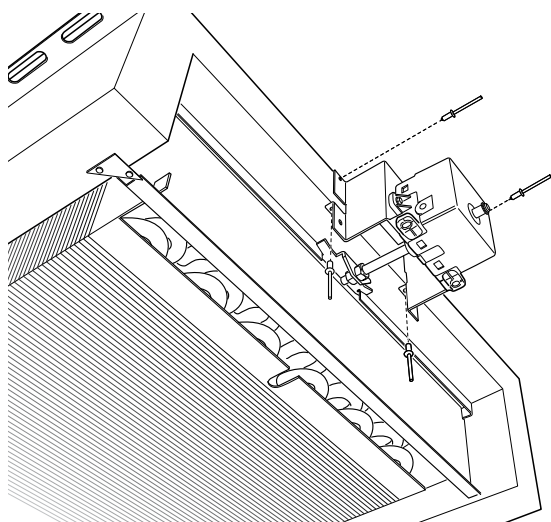
1



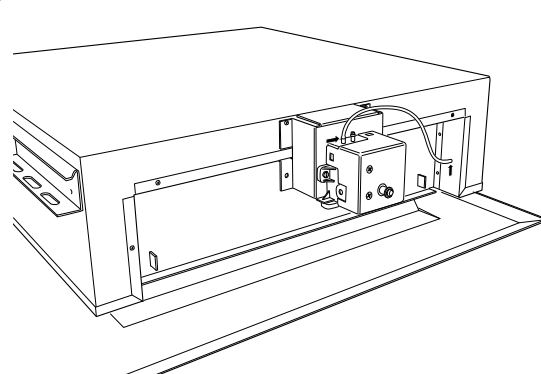
2



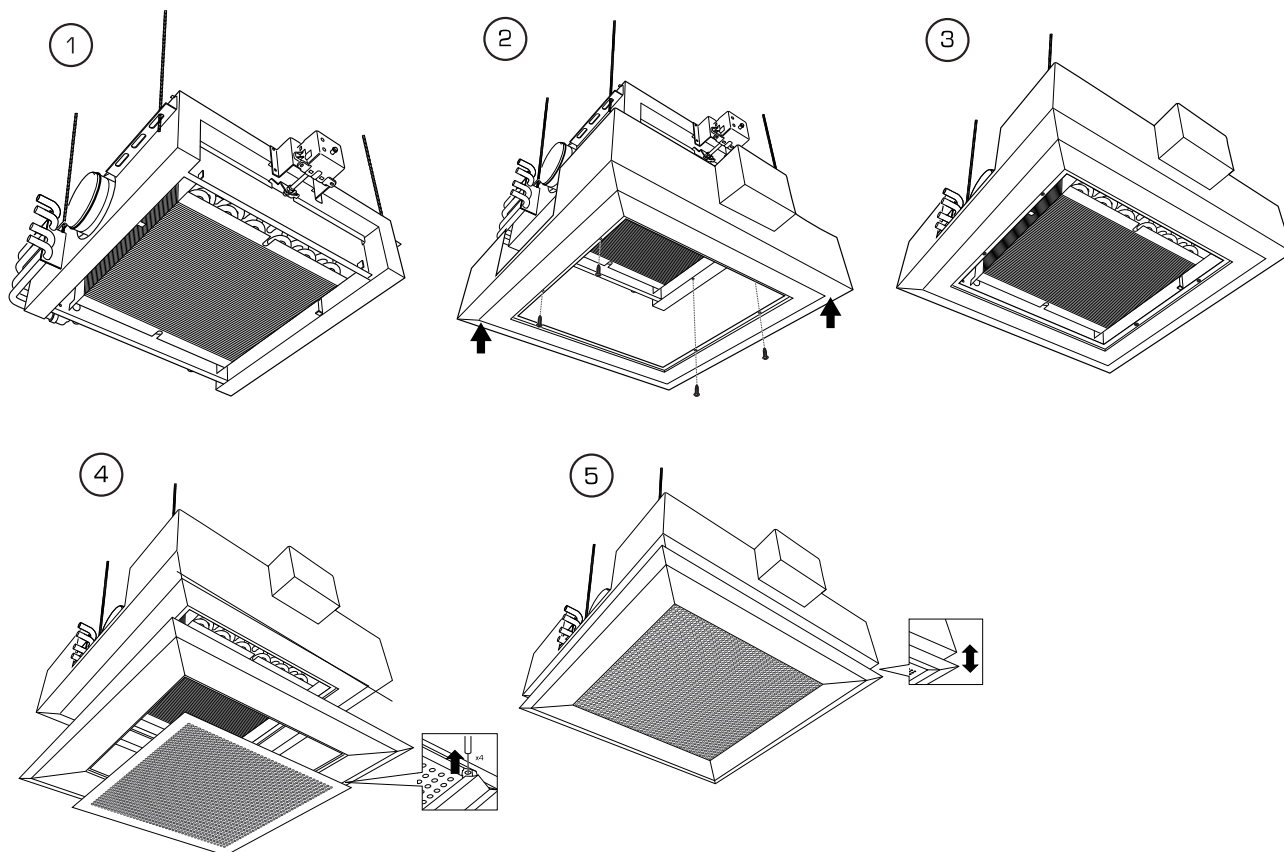
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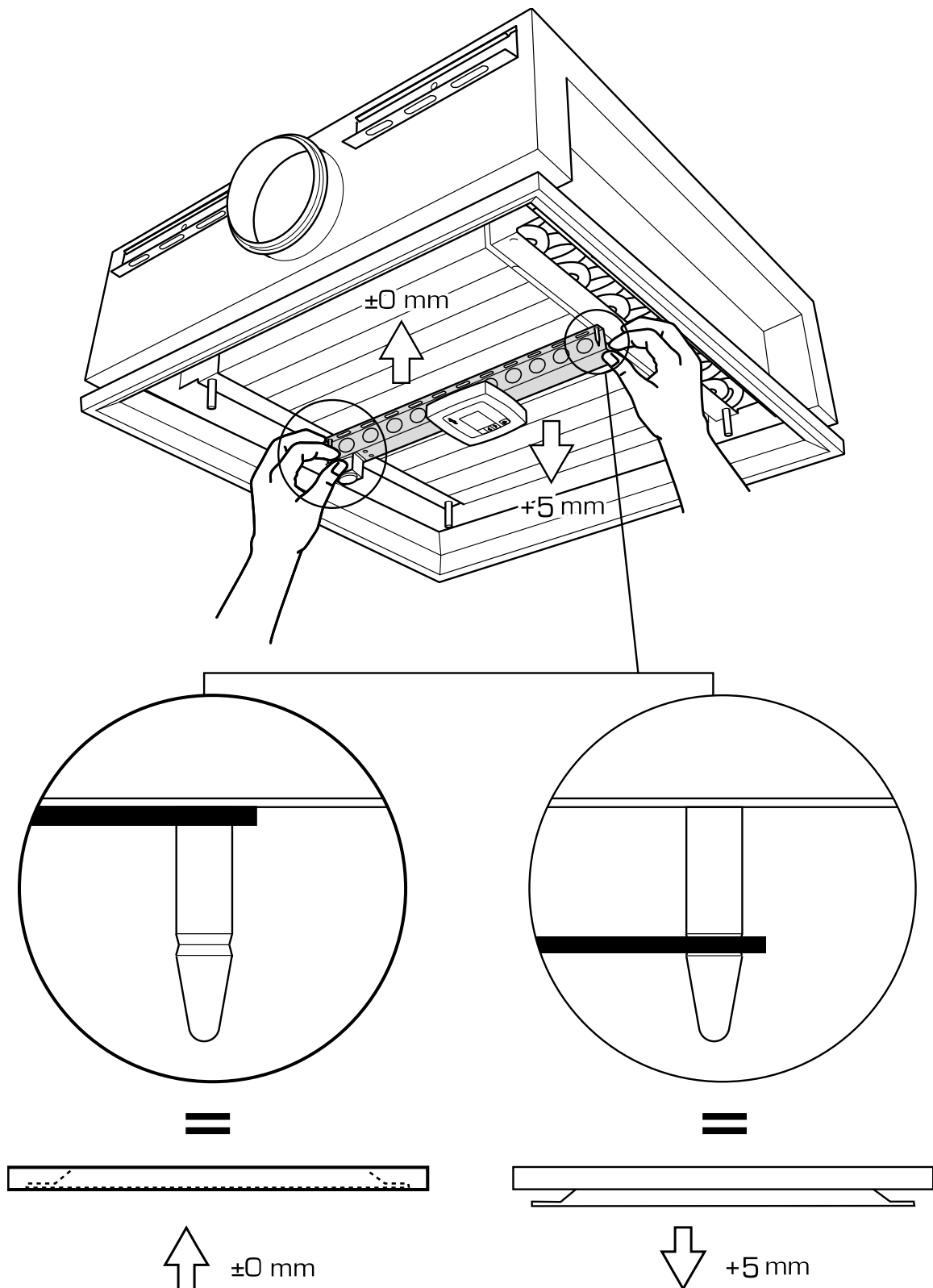
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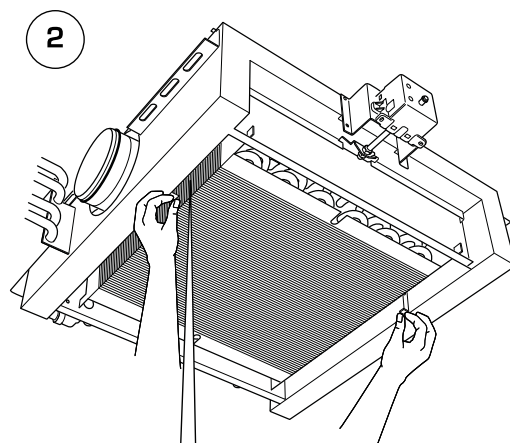
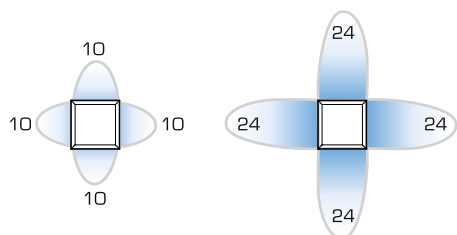
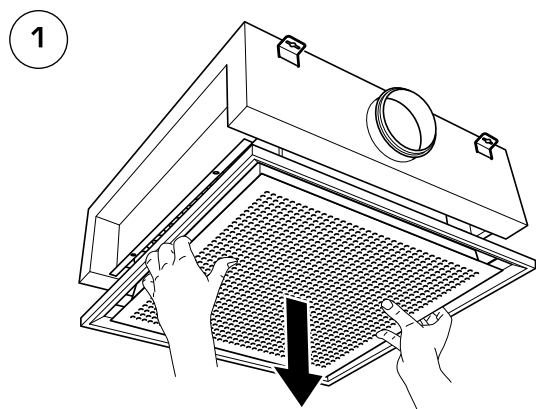


- GB RETROFIT OF CASING FOR CASSETTE WITH EXTERNAL DAMPER MOTOR**
SE INSTALLATION I EFTERHAND AV HÖLJE TILL KASSETT MED EXTERN SPJÄLLMOTOR
FI ULKOISELLA PELTIMOOTTORILLA VARUSTETUN KASETTIN VAIPAN JÄLKIASENNUS
DK EFTERMONTERING AF KAPSLING TIL KASSETTE MED EKSTERN SPJÆLDMOTOR
DE NACHRÜSTEN EINES GEHÄUSES FÜR KASSETTE MIT EXTERNEM KLAPPENMOTOR
NL OMBOUW VAN BEHUIZING VOOR CASSETTE MET EXTERNE DEMPERMOTOR
FR MONTAGE À POSTERIORI DE L'ENVELOPPE DE POUTRE AVEC SERVOMOTEUR DE REGISTRE EXTERNE
IT INSTALLAZIONE SUCCESSIVA DELLA COPERTURA PER CASSETTA CON MOTORE PER SERRANDA ESTERNO
PL REGENERACJA OBUDOWY KASETY Z ZEWNĘTRZNYM SILNIKIEM PRZEPUSTNICY
CZ RETROFIT KAZETY PRO KAZETU S EXTERNÍM KLAPKOVÝM MOTOREM
LT KASETINĖS SIJOS SU IŠORINIŲ VALDIKLIŲ KORPUSŲ KEITIMAS
RU ЗАМЕНА КОРПУСА КАССЕТНОЙ БАЛКИ С ВНЕШНИМ ЭЛЕКТРОДВИГАТЕЛЕМ КЛАПАНА

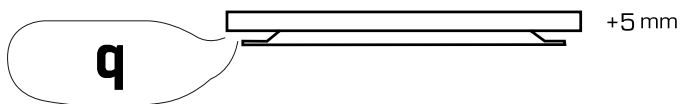
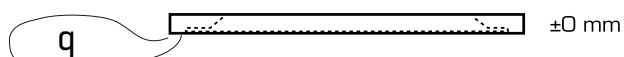
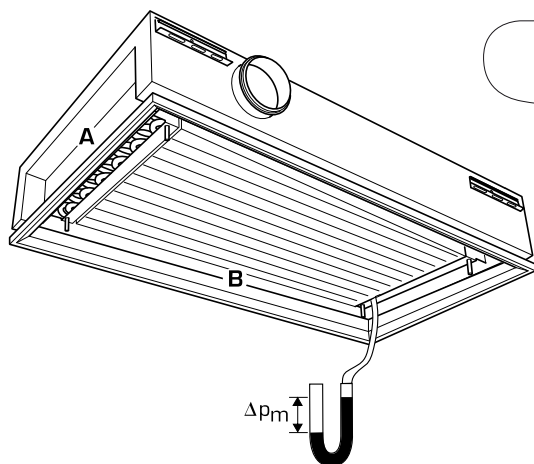
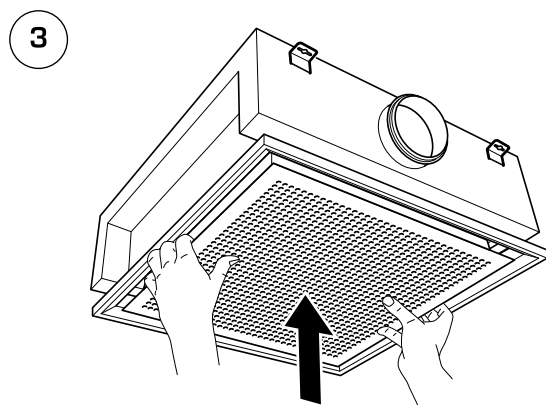


STRZ-76-03-cc-d-ee





J8012081-2101		FläktGroup	
3	0	0	3
9	6	6	9
15	12	12	15
21	18	18	21
27	24	24	27
33	30	30	33
	36	36	

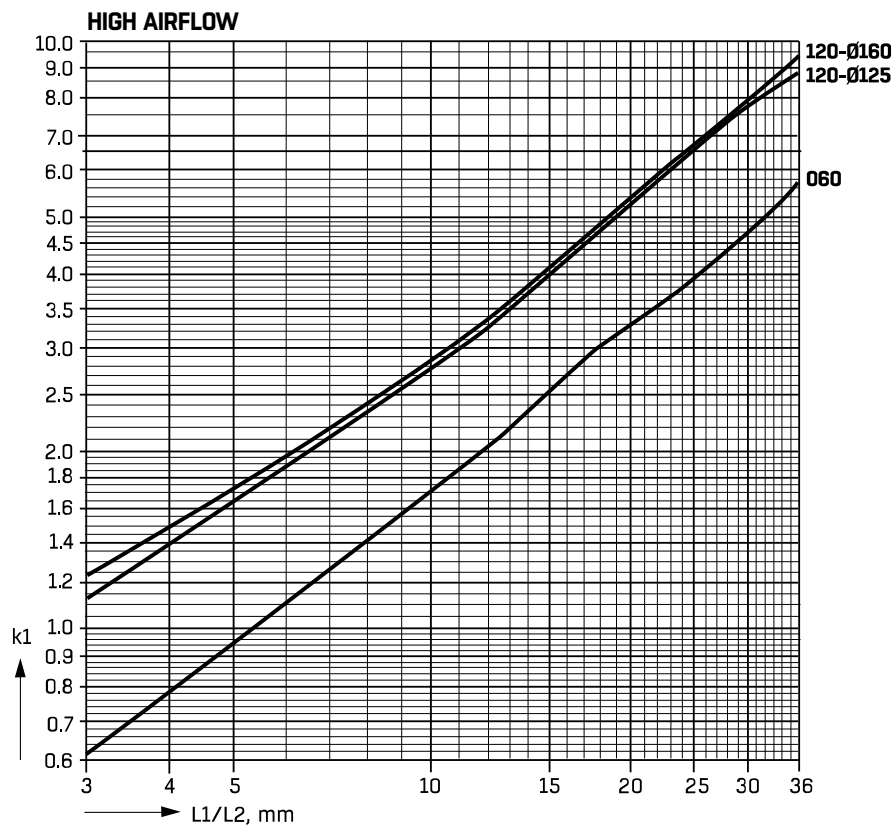
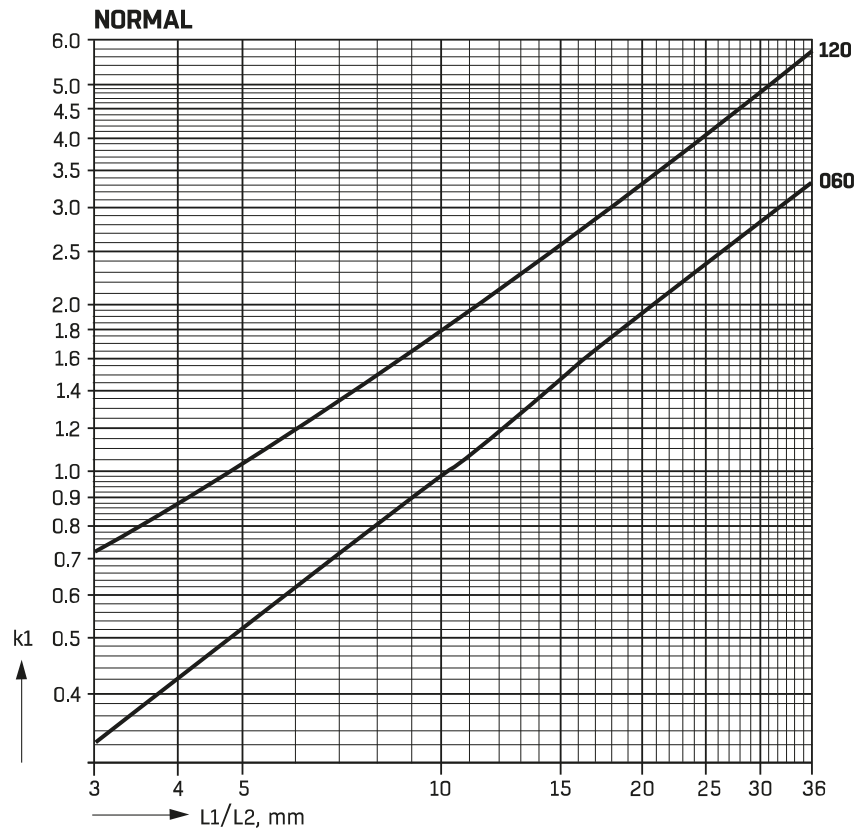


$$q = k \sqrt{\Delta p_m}$$

(l/s) (Pa)

$$q = 3.6k \sqrt{\Delta p_m}$$

(m³/h) (Pa)



PI FUNCTION

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

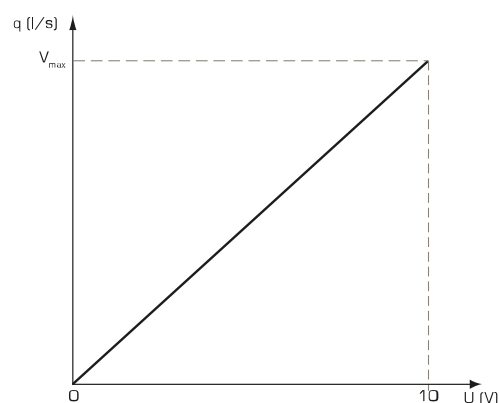
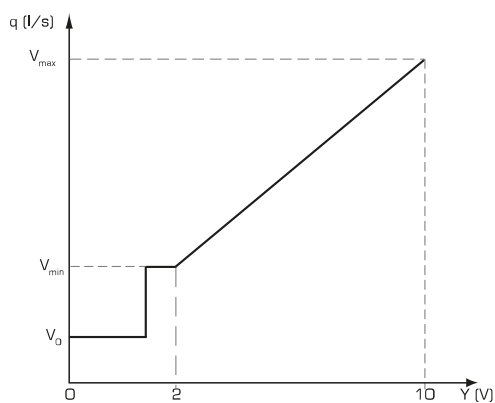
1	2	3	4	A	B
BU	BN	BK	GY	WH	WH

⊥	~	↑	↓		
-	+	Y	U		

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

Table 1: Wiring diagram

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)		

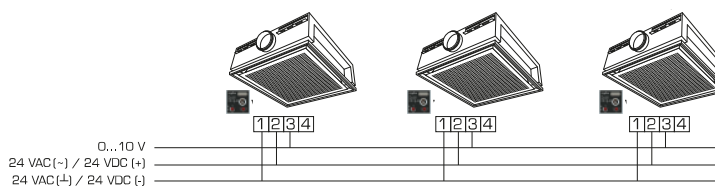


$$q_{act} = V_{min} + \frac{Y - 2}{8} \times (V_{max} - V_{min})$$

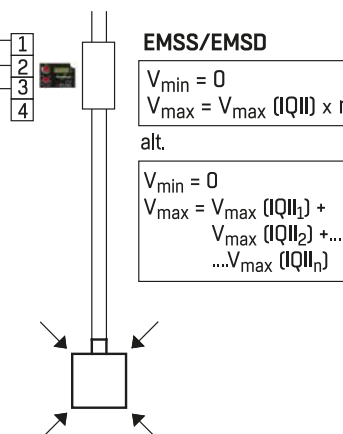
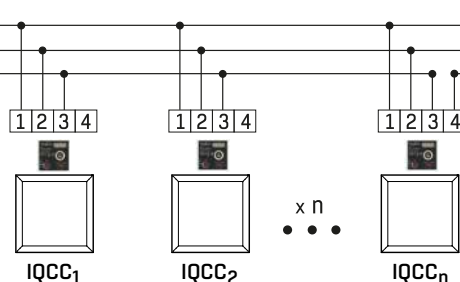
(l/s) (l/s) (l/s)

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

(VDC)



24 VAC (⊥) / 24 VDC (-)
24 VAC (-) / 24 VDC (+)
Y = 0 ... 10 V

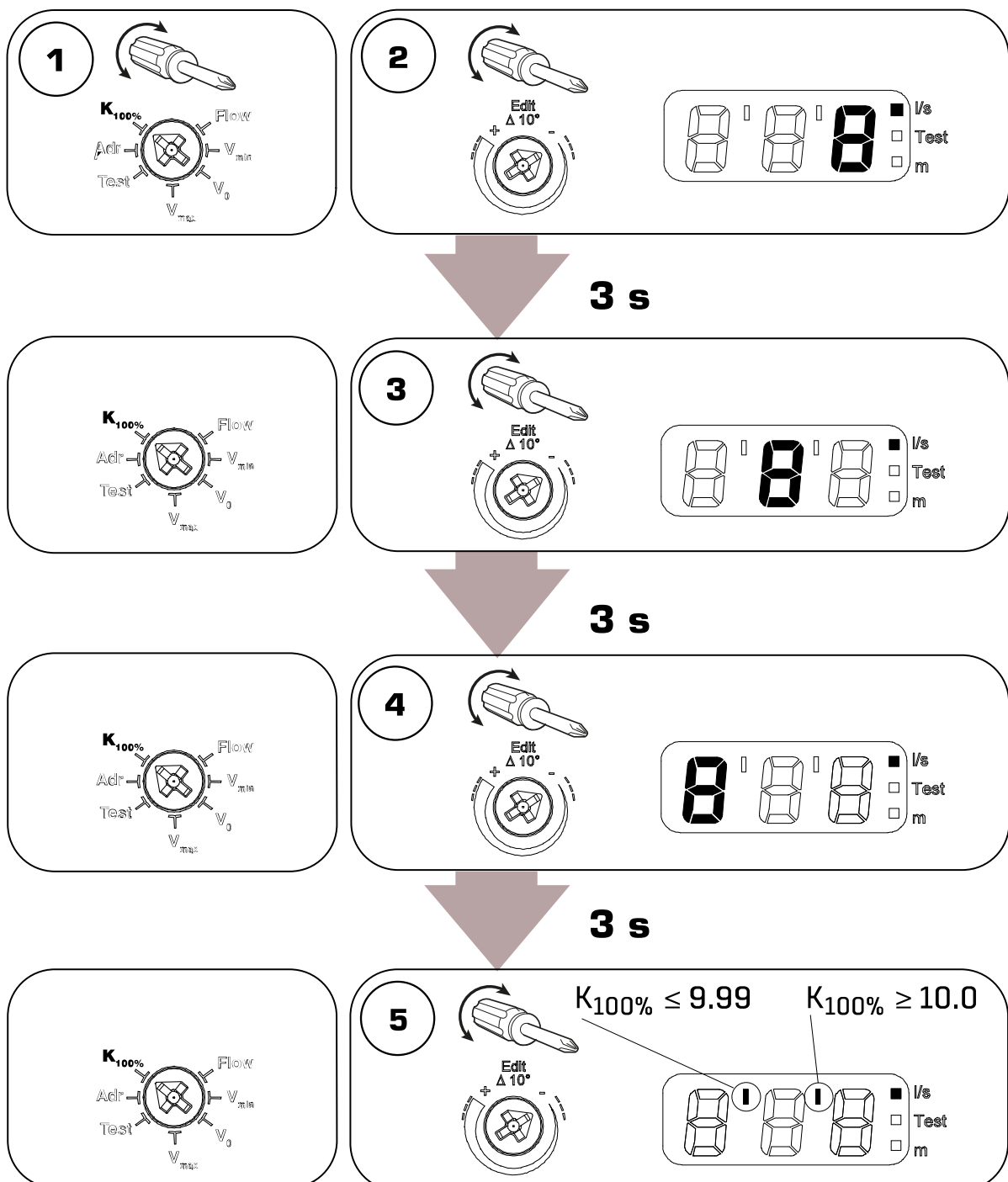
**EMSS/EMSD**

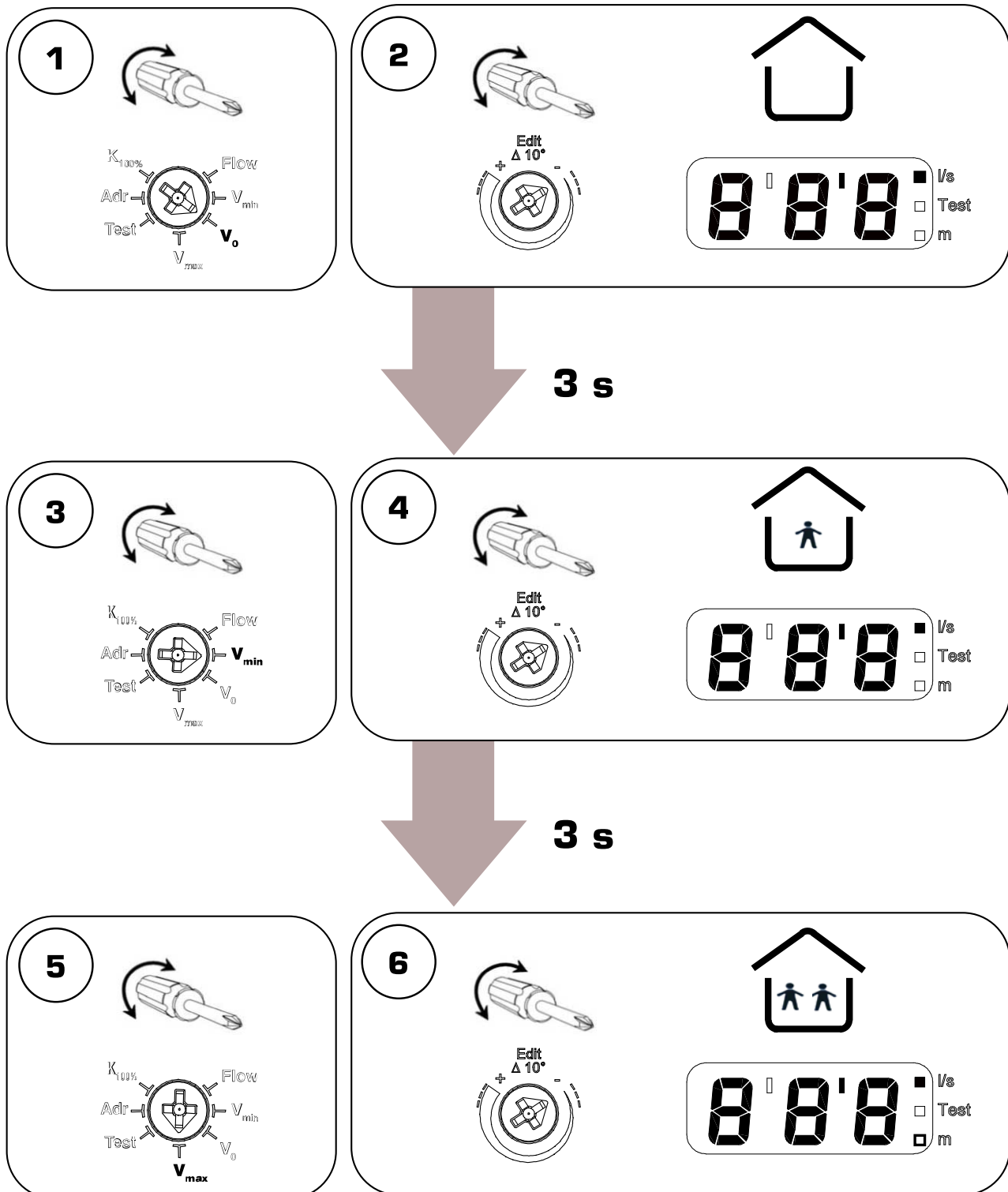
$V_{min} = 0$
 $V_{max} = V_{max} (IQI_1) \times n$
alt.

$V_{min} = 0$
 $V_{max} = V_{max} (IQI_1) +$
 $V_{max} (IQI_2) + \dots$
 $\dots V_{max} (IQI_n)$

K_{100%}

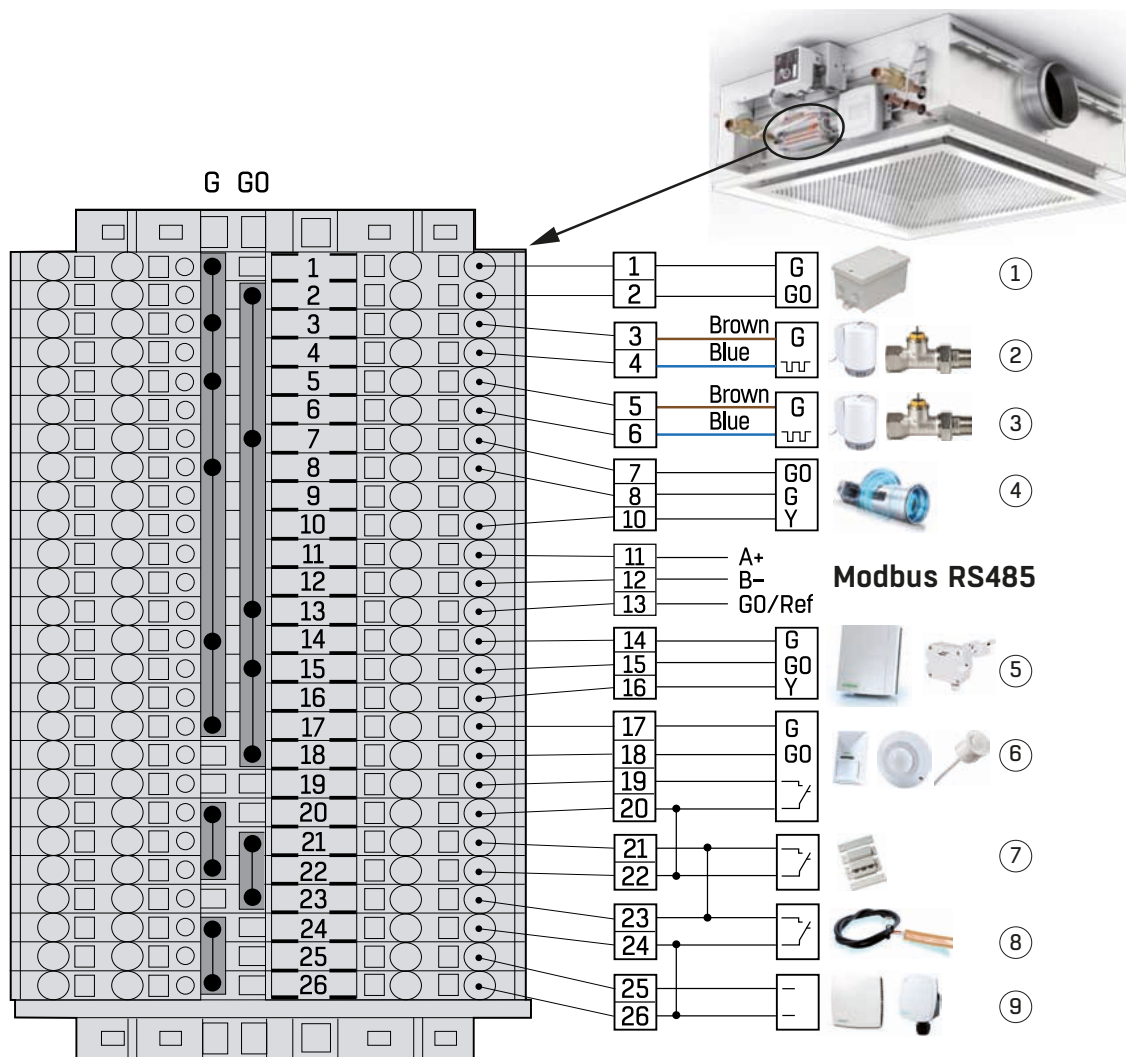
Chilled beam cassette	K _{100%}
IQCC-060-bb-c-01/02-e	3.35
IQCC-060-bb-c-03/04-e	5.70
IQCC-120-bb-c-01/02-e	5.85
IQCC-120-bb-c-03/04-e	9.40
IQCC-120-bb-c-05/06-e	9.60



V₀, V_{MAX} & V_{MIN}

STRZ-76

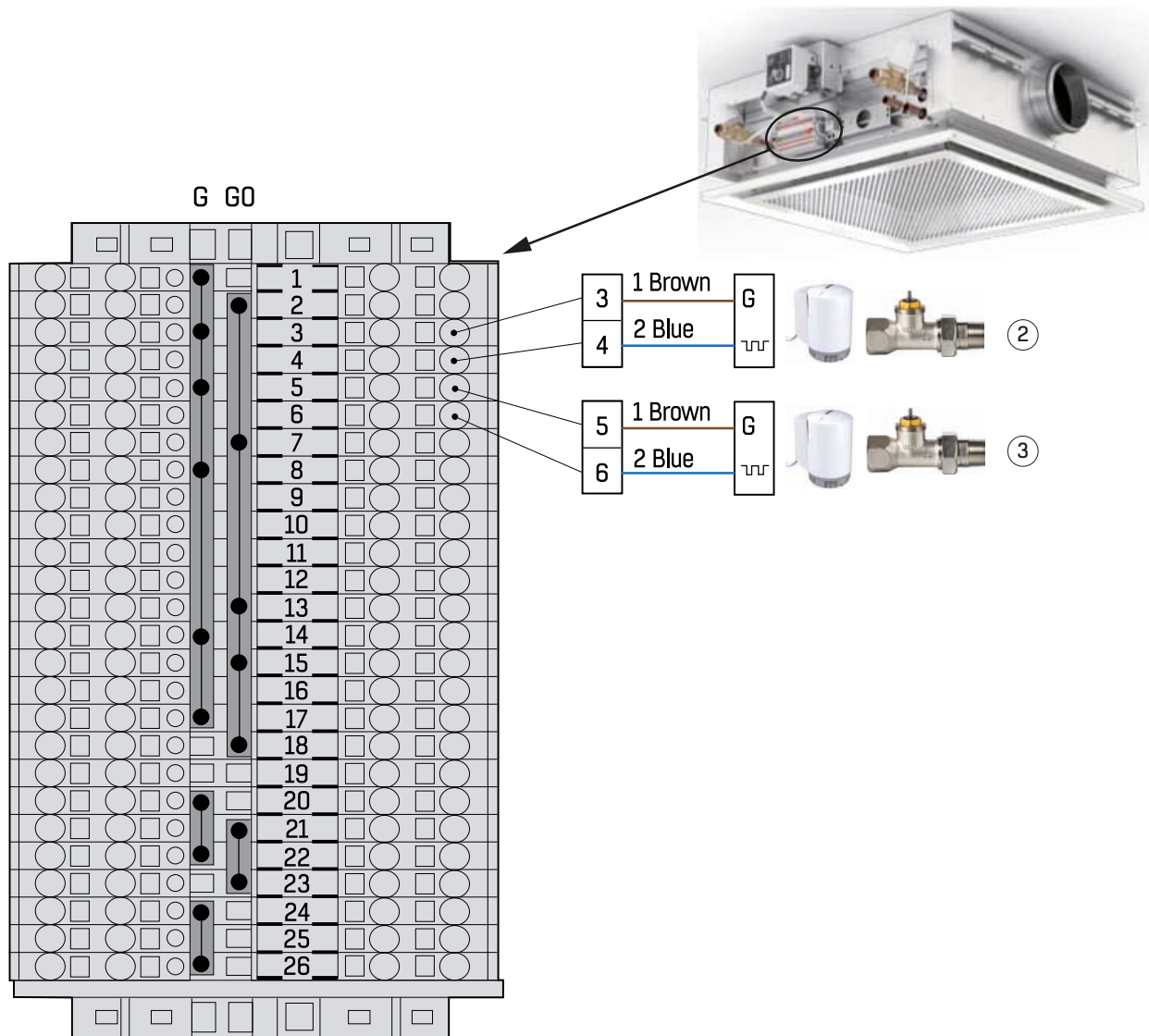
MASTER BEAM



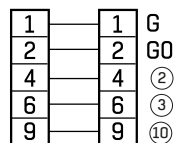
	1	2	3	4	5	6	7	8	9
GB	Transformer	Actuator heating	Actuator cooling	Exhaust actuator	CO ₂ sensor	PIR sensor	Window sensor	Condense sensor	Temperature sensor
SE	Transformator	Ventil värme	Ventil kyla	VAV-spjäll	CO ₂ -givare	Närvarogivare	Fönsterkontakt	Kondensgivare	Temperaturgivare
FI	Muuntaja	Toimilaitteen lämmitys	Toimilaitteen jäähdytys	Poistoilman toimilaitte	CO ₂ -anturi	PIR-anturi	Ikkunakosketin	Kondenssianturi	Lämpötila-anturi
DK	Transformer	Aktuator, opvarmning	Aktuator, køling	Afkastaktuator	CO ₂ -sensor	PIR-sensor	Vinduessensor	Kondenssensor	Temperatursensor
DE	Transformator	Stellglied Heizung	Stellglied Kühlung	Fortluftstellglied	CO ₂ -Sensor	PIR-Sensor	Fenstersensor	Kondensationssensor	Temperaturfühler
NL	Transformator	Actuator verwarming	Actuatorkoeling	Exhaust actuator	CO ₂ sensor	PIR-sensor	Raamsensor	Condensatiesensor	Temperatuursensor
FR	Transformateur	Servomoteur chauffage	Servomoteur refroidissement	Servomoteur air extrait	Sonde CO ₂	Sonde PIR	Capteur de fenêtre	Sonde de condensation	Sonde de température
IT	Trasformatore	Attuatore di riscaldamento	Attuatore di raffreddamento	Attuatore di scarico	Sensore di CO ₂	Sensore PIR	Contatto finestra	Sensore di condensa	Sensore di temperatura
PL	Transformator	Siłownik grzanie	Siłownik chłodzenie	Siłownik pow. wylot.	Sensor CO ₂	Czujnik PIR	Czujnik otw. okna	Czujnik skraplania	Czujnik temperatury
CZ	Transformátor	Ohřev servopohonu	Chlazení pohonu	Pohon výfuku	Snímač CO ₂	Snímač PIR	Čidlo oken	Snímač kondenzace	Senzor teploty
LT	Transformatorius	Šildymo pavara	Vėsimo pavara	Šalinamo oro pavara	CO ₂ jutiklis	Būvio jutiklis	Lango jutiklis	Kondensato jutiklis	Temperatūros jutiklis
RU	Трансформатор	Привод обогрева	Привод охлаждения	Привод удаляемого воздуха	Датчик CO ₂	Пассивный инфракрасный датчик	Датчик окна	Датчик конденсации	Датчик температуры

STRZ-76

SLAVE BEAM



Slave → Slave beam
Master → Slave beam

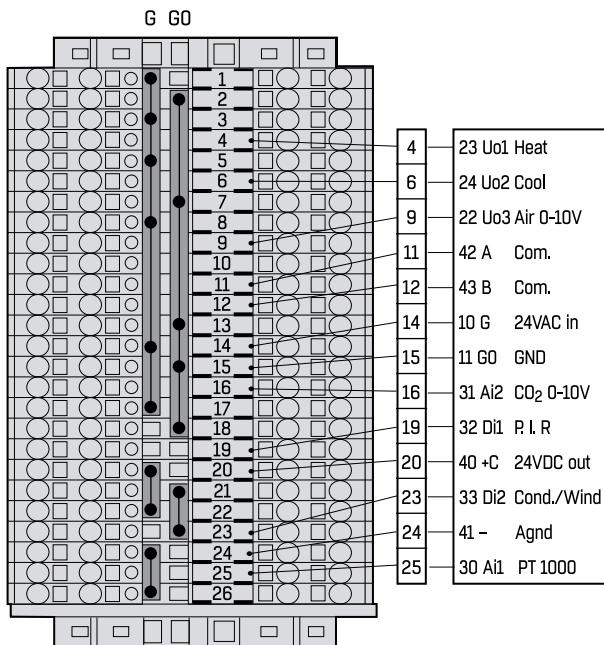
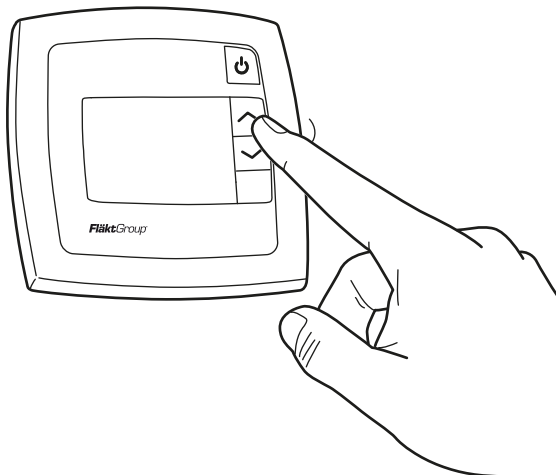
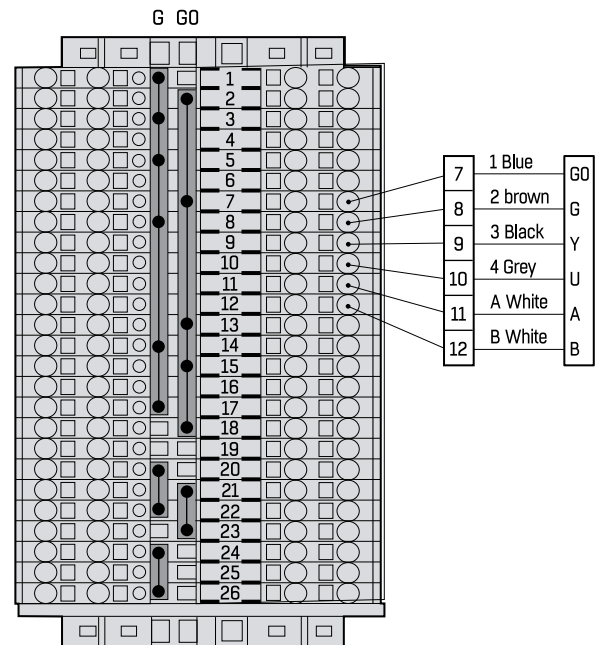


10

- GB Supply air actuator
- SE Tilluftsdon
- FI Tuloilman toimilaite
- DK Tilluftaktuator
- DE Zuluftstellglied
- NL Toevoerluchtaandrijving

10

- FR Servomoteur air neuf
- IT Attuatore dell'aria di mandata
- PL Siłownik pow. wlot.
- CZ Pohon přívodního vzduchu
- LT Tiekiamo oro pavara
- RU Привод приточного воздуха

STRZ-76**Control unit STRA****PI actuator**

STRZ-76-02-cc-d-ee

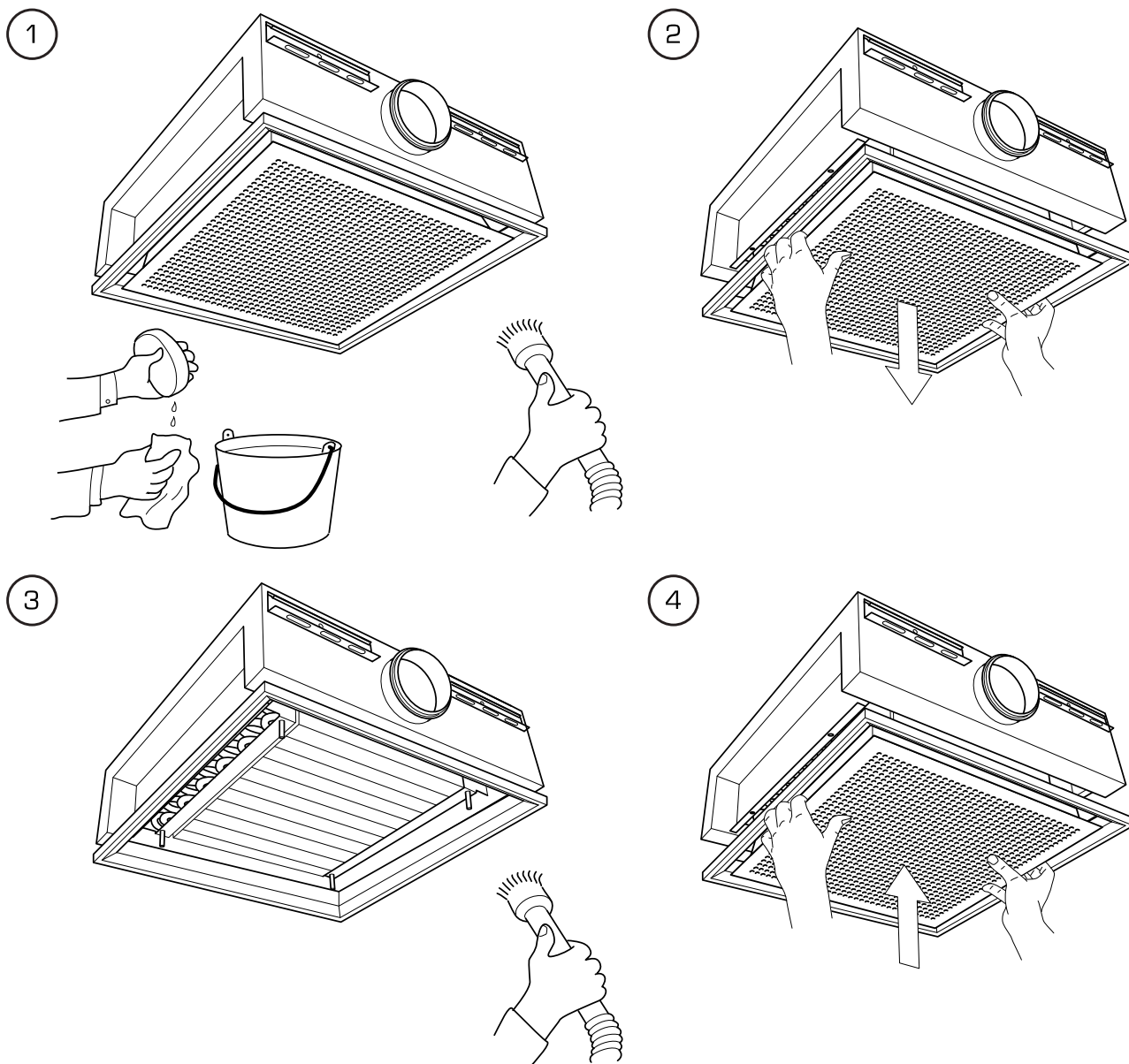
Parameter 15 = 1

STRZ-76-bb-02/04/06/08-d-ee

Parameter 18 = 2

STRZ-76-bb-03/04/07/08

Parameter 45 = 1, Parameter 17 = 3



EXCELLENCE IN SOLUTIONS

FläktGroup is the European market leader for smart and energy efficient Indoor Air and Critical Air solutions to support every application area. We offer our customers innovative technologies, high quality and outstanding performance supported by more than a century of accumulated industry experience. The widest product range in the market, and strong market presence in 65 countries worldwide, guarantee that we are always by your side, ready to deliver Excellence in Solutions.

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Air Management & ATD's | Air Conditioning & Heating | Controls | Service

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