

IQ STAR LYRA II CHILLED BEAM CASSETTE

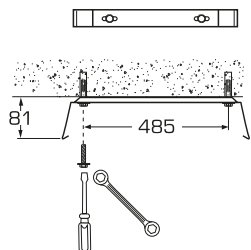
INSTALLATION, COMMISSIONING AND MAINTENANCE

- 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

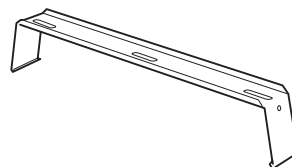
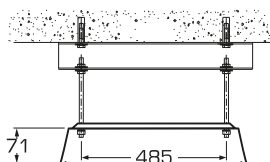


IQCC-aaa-bb-c-dd-0

1A

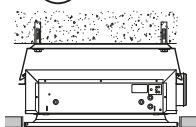


1B

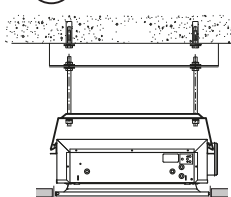


GFAZ-18-7-1

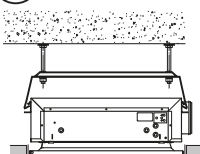
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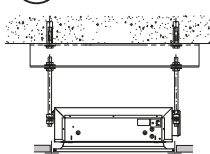
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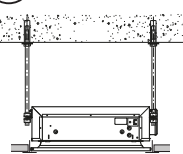
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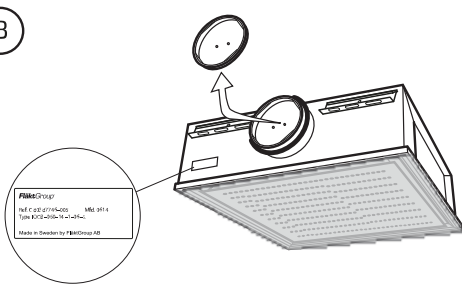
2D



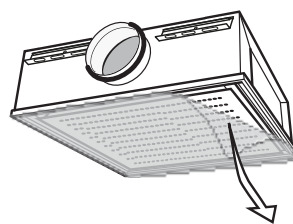
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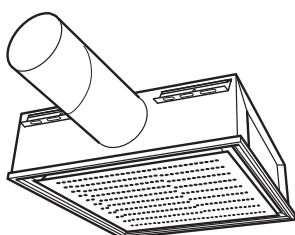
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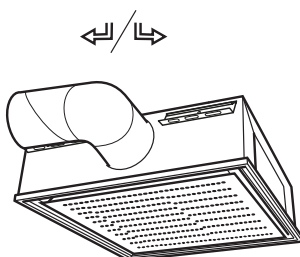
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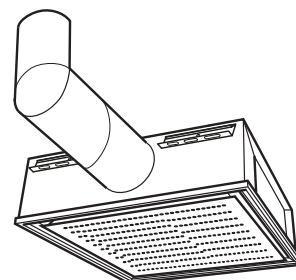
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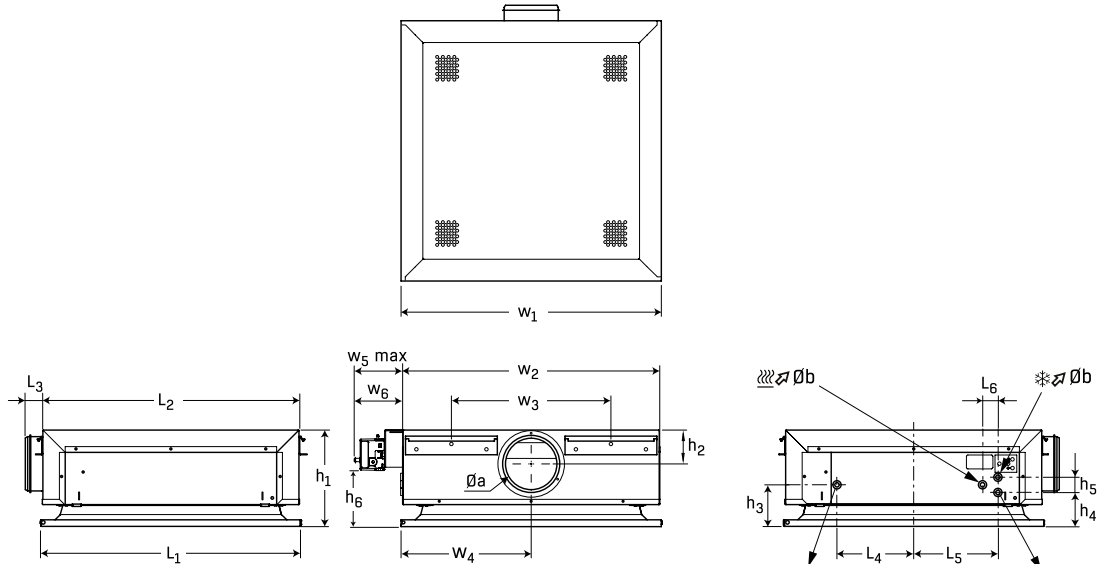
5B



5C

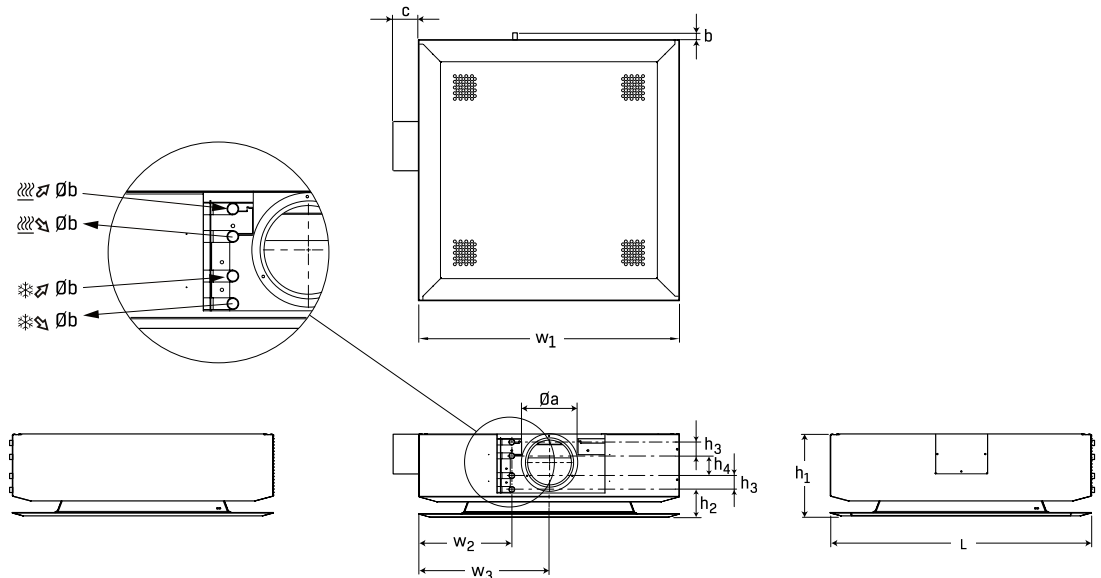


LYRA II-060 (e = 0)



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)

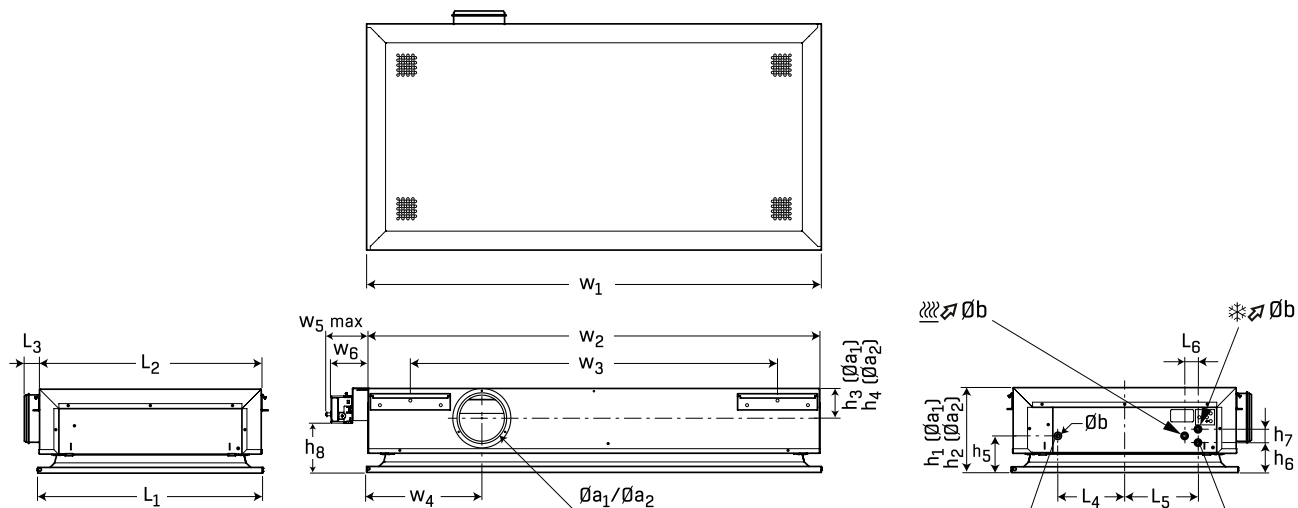


Øa	Øb	b	c	h1	h2	h3	h4	L	w1	w2	w3
125	15	20	79	220	77,5	35	50	725	725	260	362,5

Air connection is male.
Water connections are male.

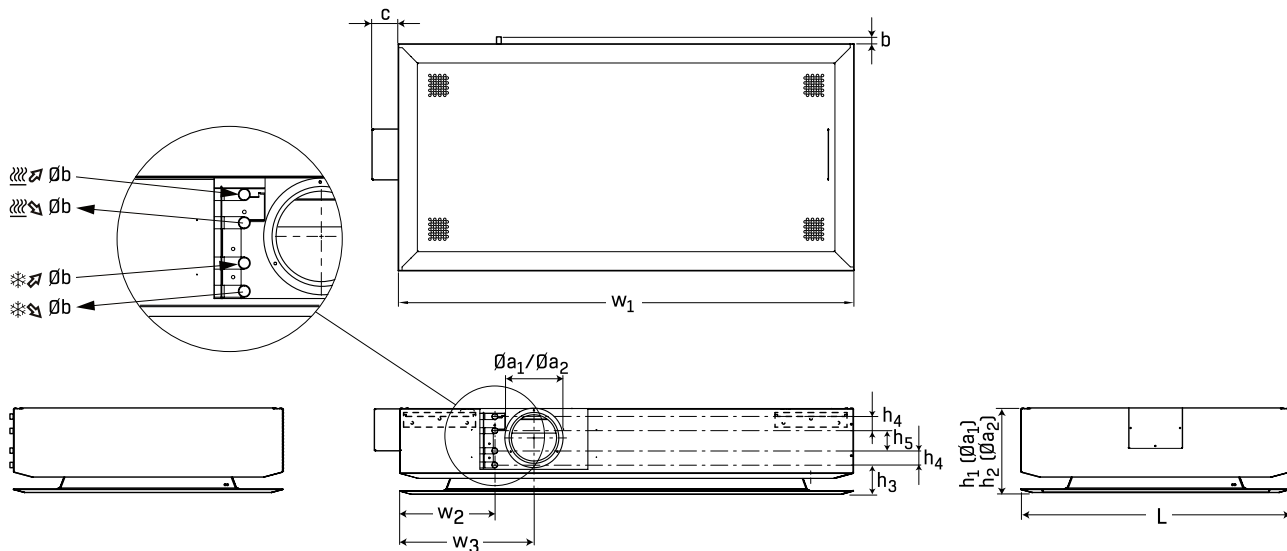
= Cooling water in = Heating water in
 = Cooling water out = Heating water out

LYRA II-120 (e = 0)



$\varnothing a_1$	$\varnothing a_2$	$\varnothing b$	h_1	h_2	h_3	h_4	h_5	h_6	h_7	h_8	L_1	L_2	L_3	L_4	L_5	L_6	w_1	w_2	w_3	w_4	w_5	w_6
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)

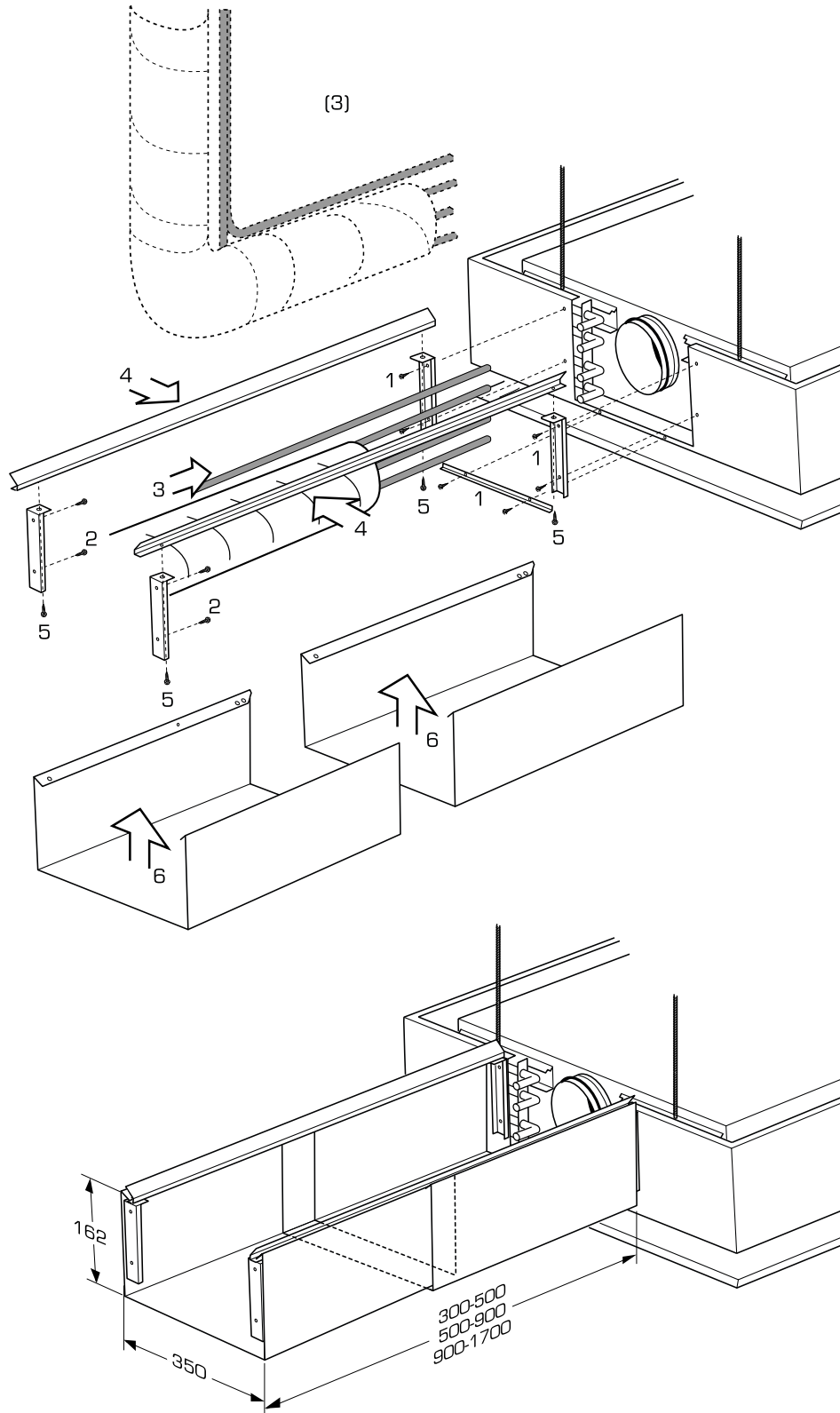


$\varnothing a_1$	$\varnothing a_2$	b	$\varnothing b$	c	h_1	h_2	h_3	h_4	h_5	L	w_1	w_2	w_3
125	160	20	15	79	220	255	77,5	35	50	725	1325	260	362,5

Air connection is male.
Water connections are male.

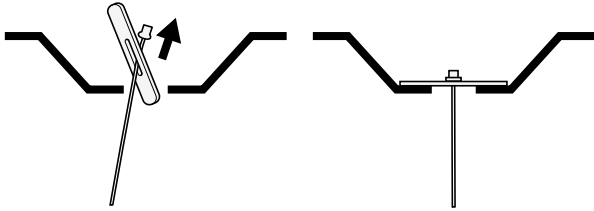
= Cooling water in = Heating water in
 = Cooling water out = Heating water out

IQAZ-33

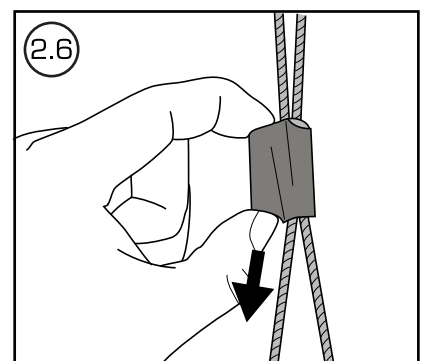
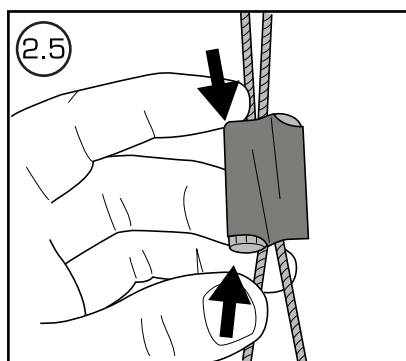
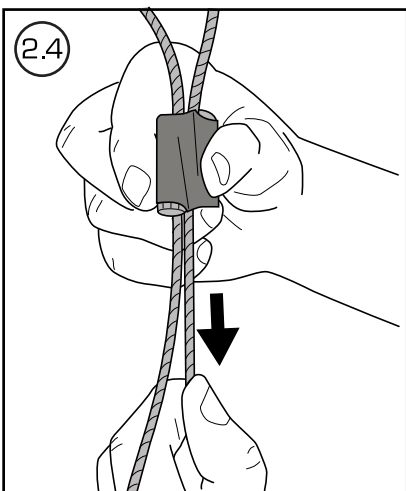
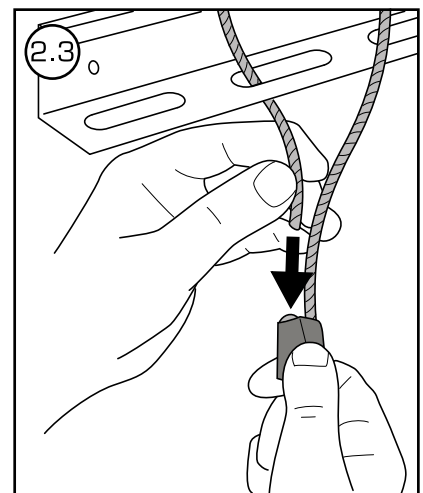
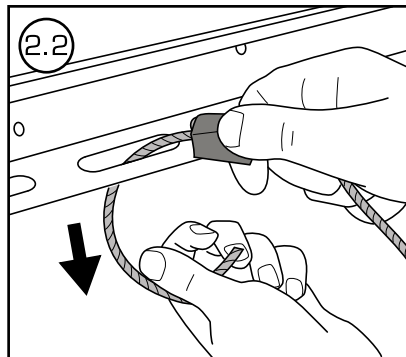
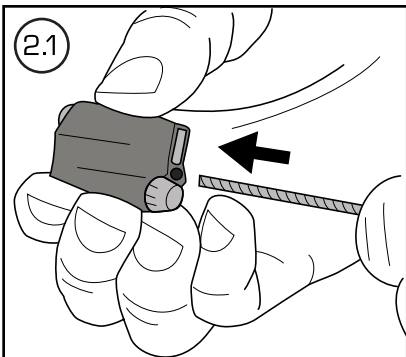
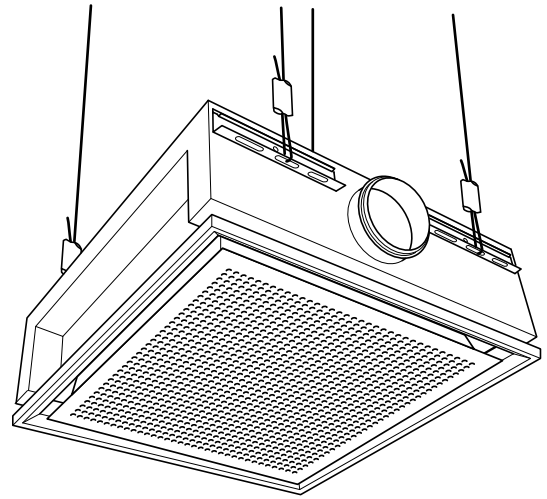
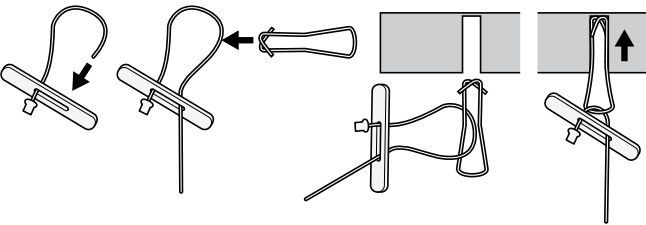


IQCC-aaa-bb-c-dd-e + QFAZ-23-01-01

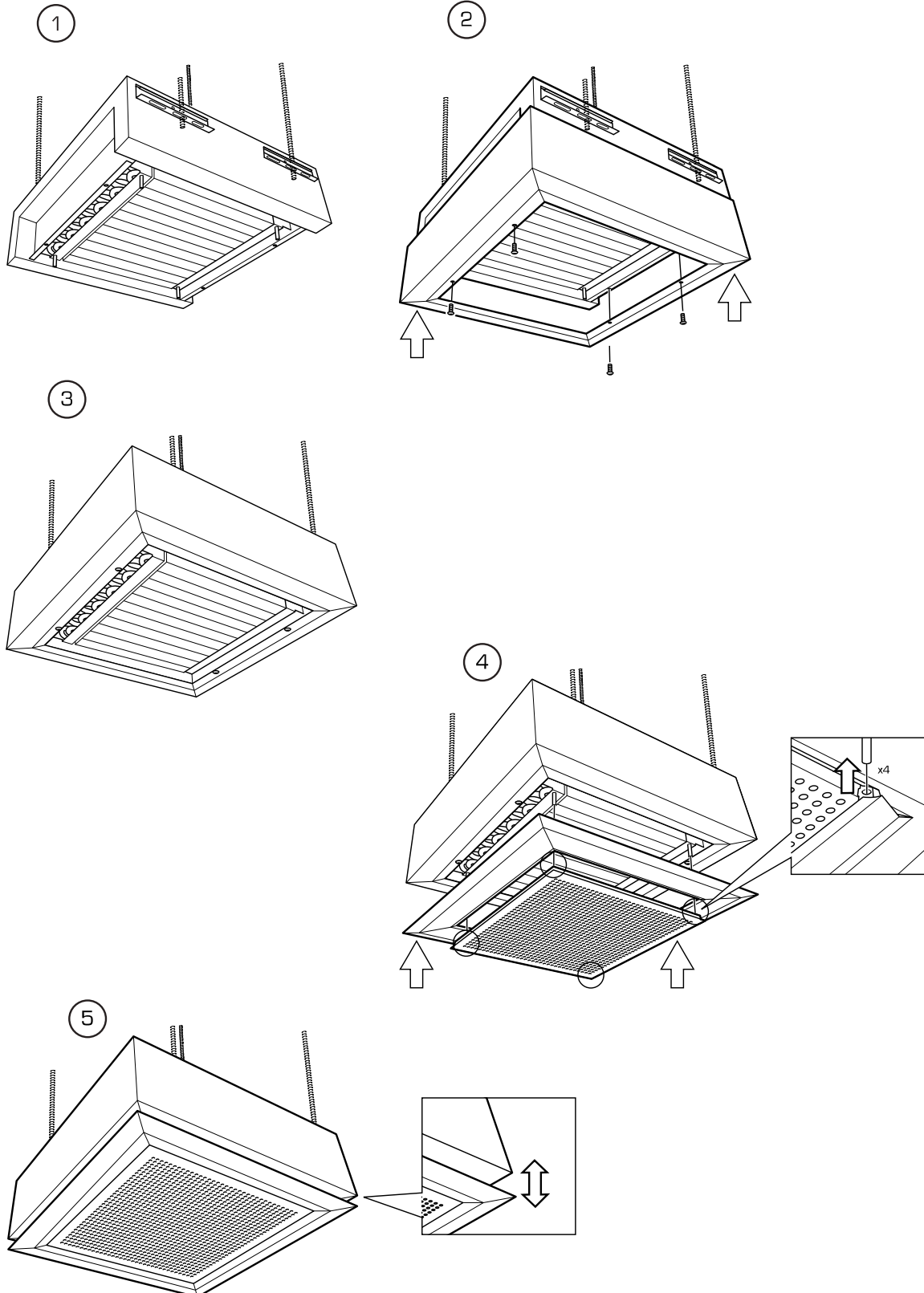
1A



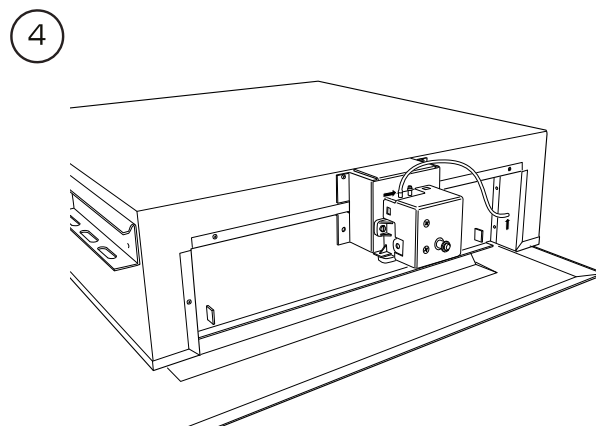
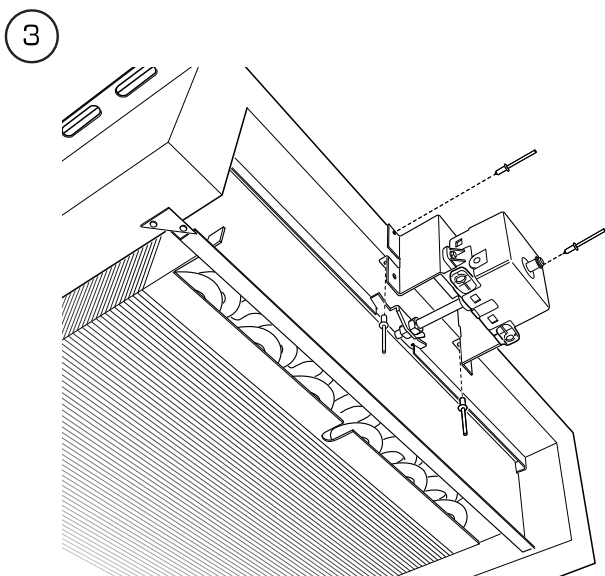
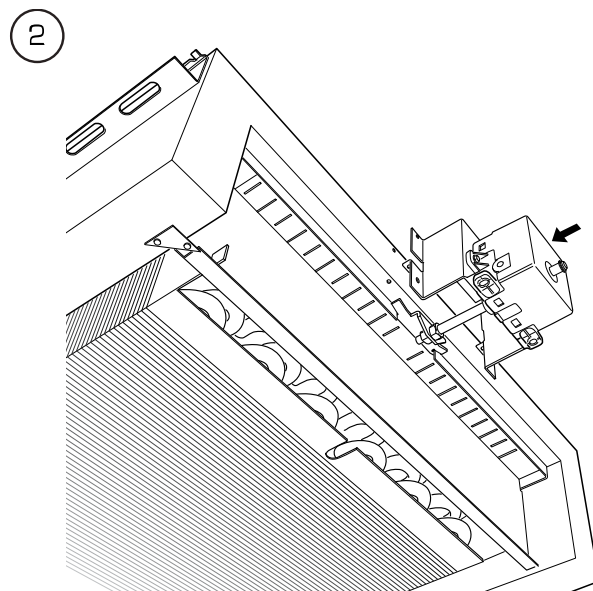
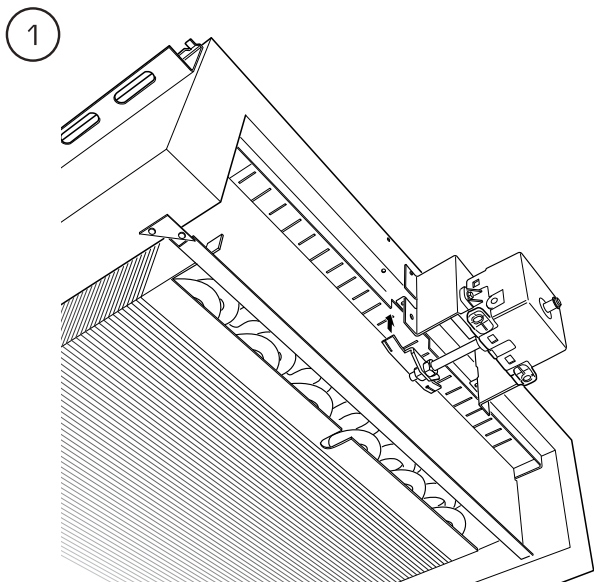
1B



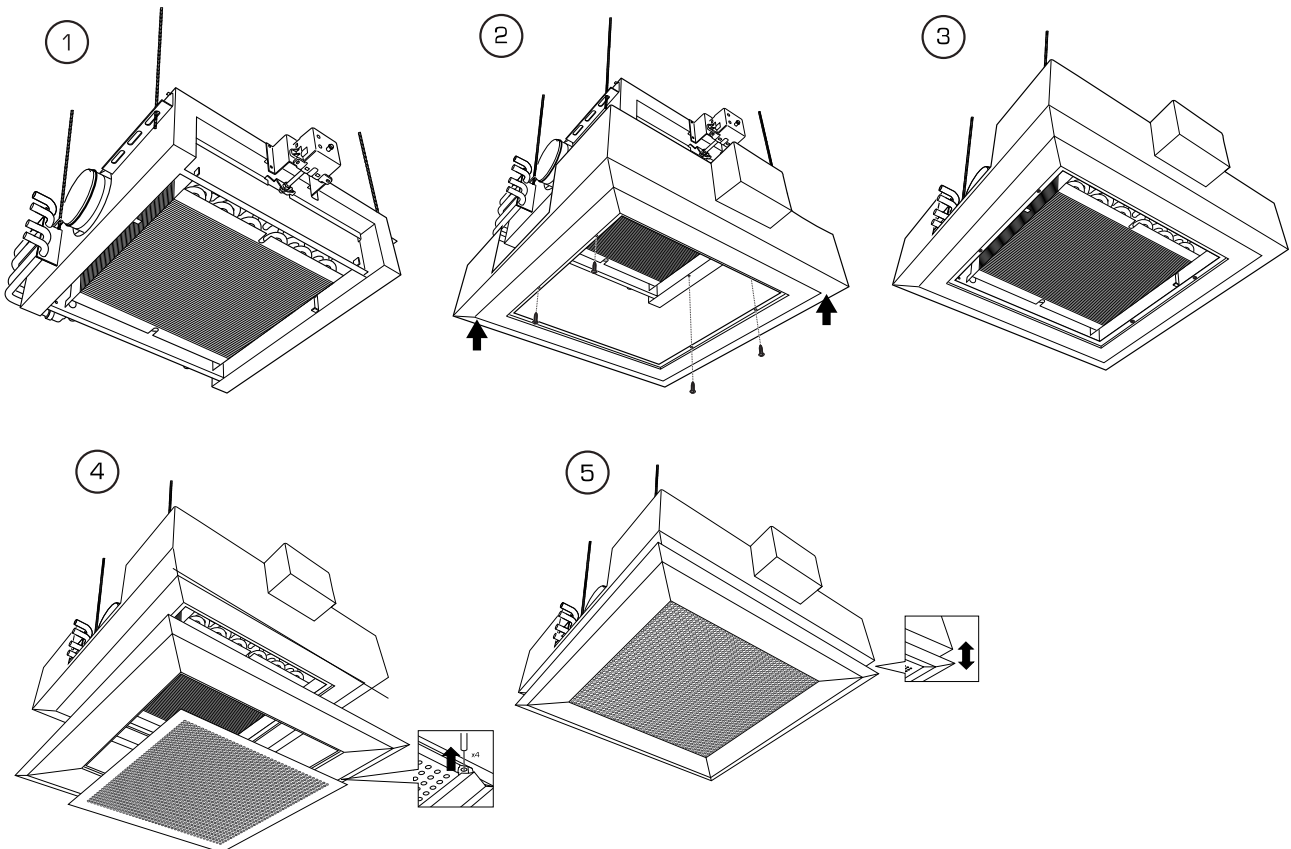
IQCC-aaa-bb-c-dd-e + IQAZ-33-bbb-c-ddd



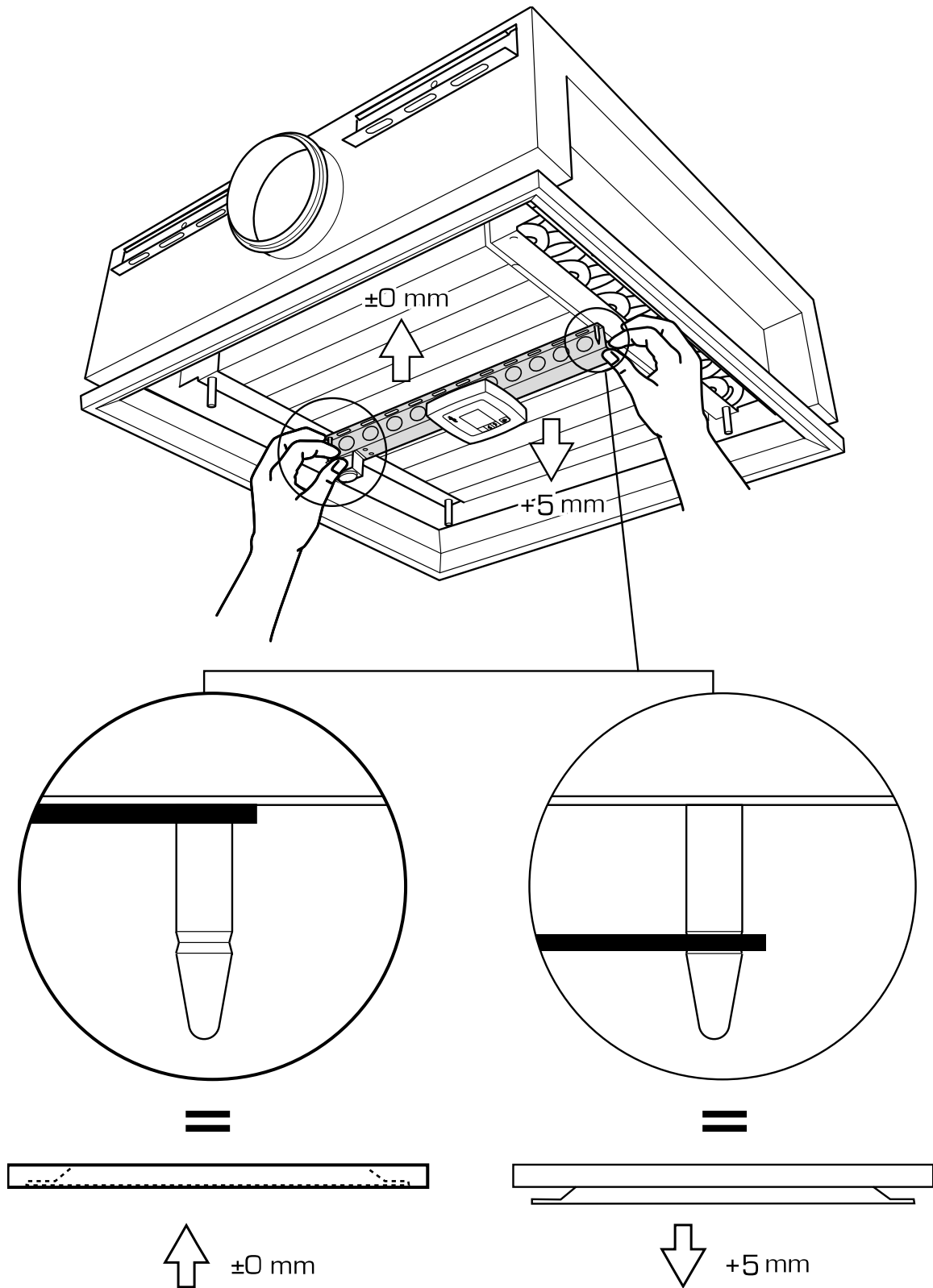
- **RETROFIT OF EXTERNAL DAMPER MOTOR**
- **INSTALLATION I EFTERHAND AV EXTERN SPJÄLLMOTOR**
- **ULKOISEN PELTIMOOTTORIN JÄLKIASENNUS**
- **EFTERMONTERING AF EKSTERN SPJÆLDMOTOR**
- **NACHRÜSTEN EINES EXTERNEN KLAPPENMOTORS**
- **RETROFIT VAN EXTERNE DEMPERMOTOR**
- **MONTAGE À POSTERIORI DU SERVOMOTEUR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

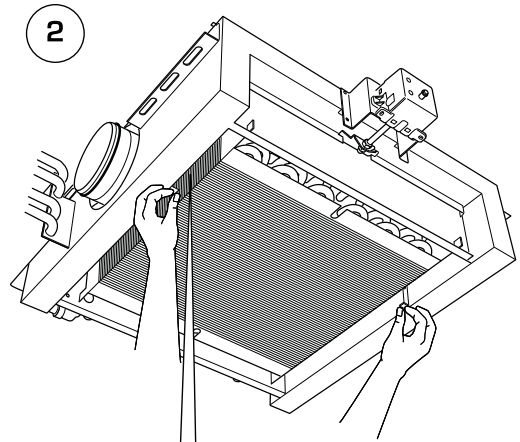
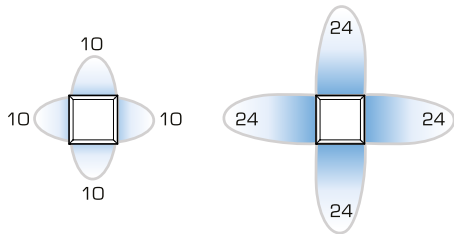
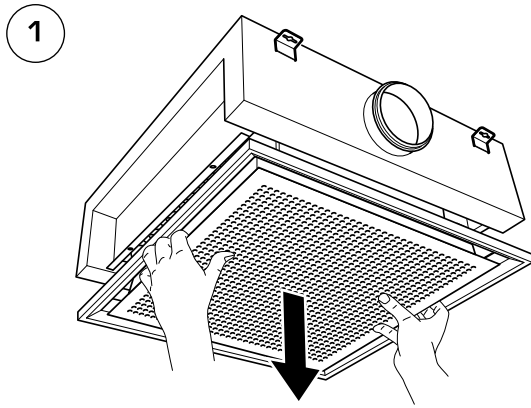


- **RETROFIT OF CASING FOR CASSETTE WITH EXTERNAL DAMPER MOTOR**
- **INSTALLATION I EFTERHAND AV HÖLJE TILL KASSETT MED EXTERN SPJÄLLMOTOR**
- **ULKOISELLA PELTIMOOTTORILLA VARUSTETUN KASSETIN VAIPAN JÄLKIASENNUS**
- **EFTERMONTERING AF KAPSLING TIL KASSETTE MED EKSTERN SPJÆLDMOTOR**
- **NACHRÜSTEN EINES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



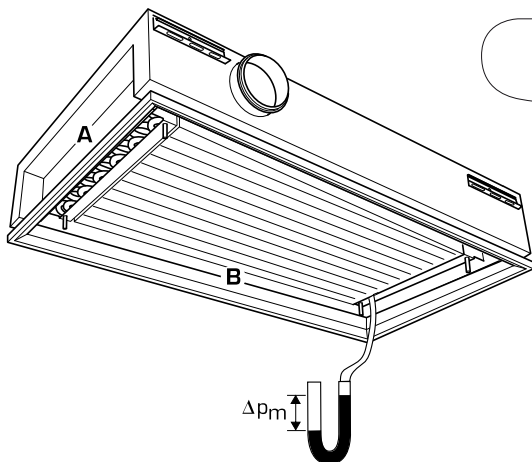
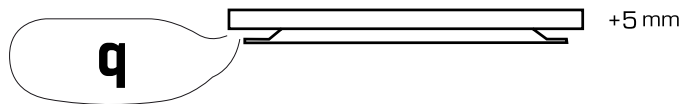
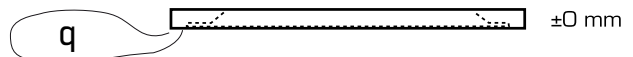
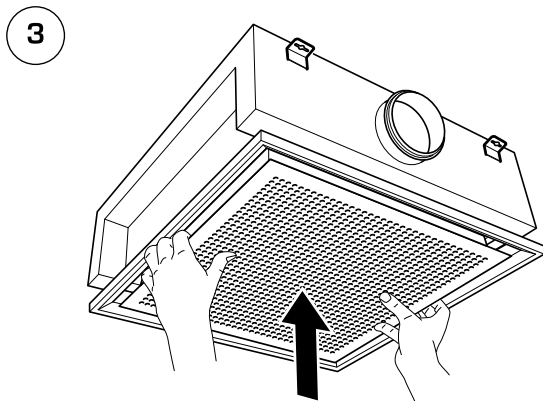
STRZ-76-03-cc-d-ee





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	

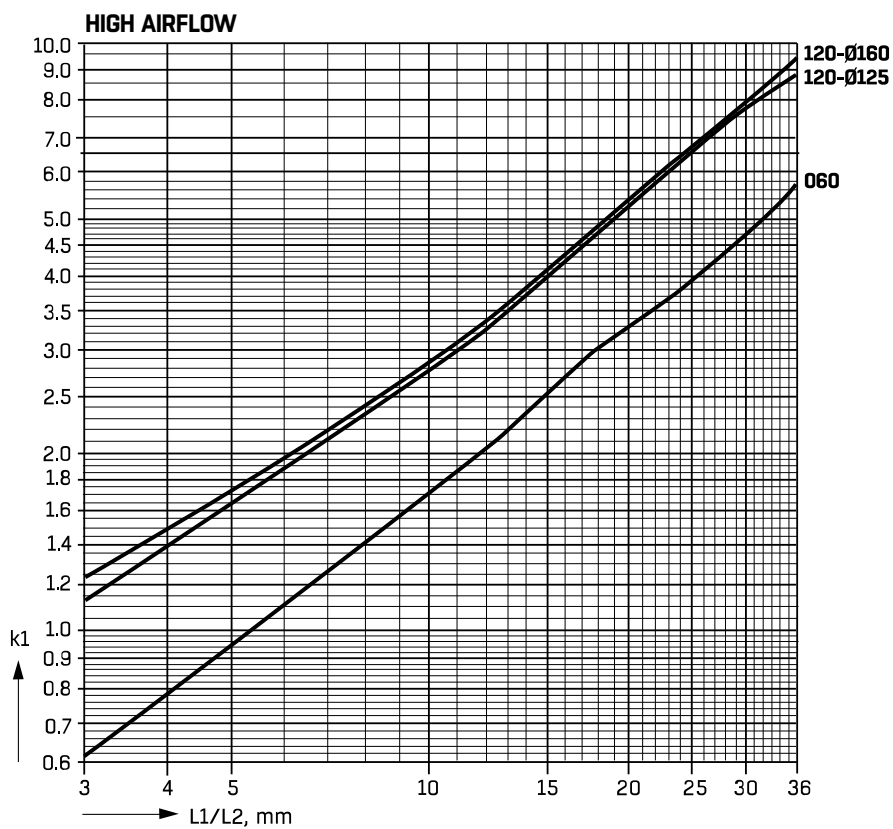
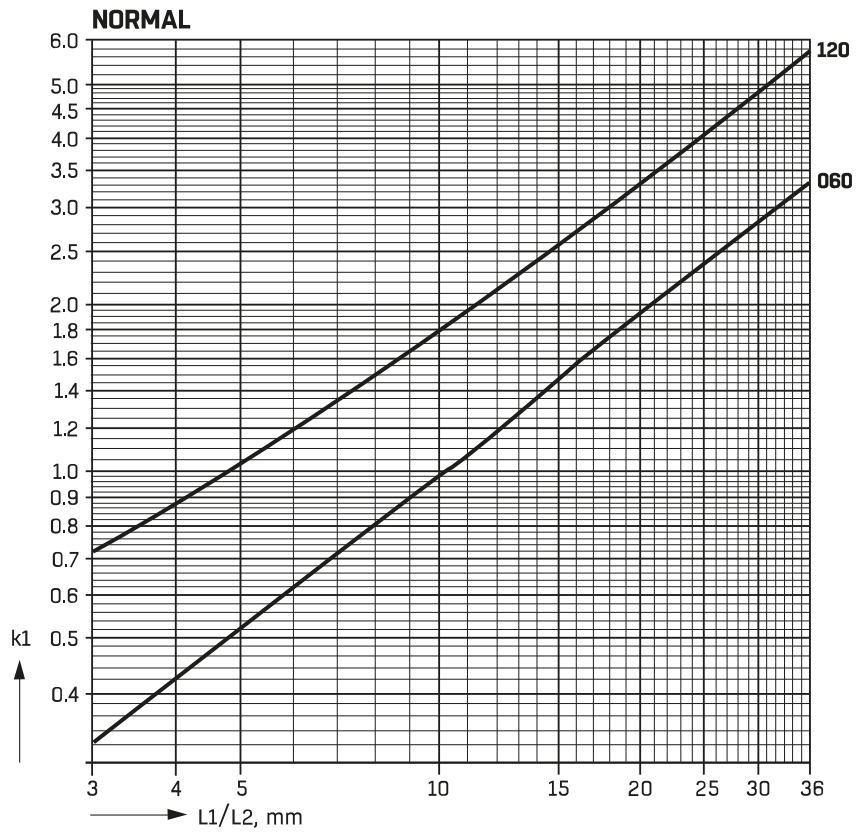


$$q = k \sqrt{\Delta p_m}$$

(l/s) (Pa)

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

(m³/h) (Pa)

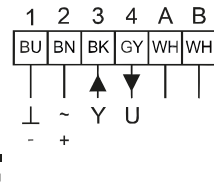


PI FUNCTION



309VM-024-150-MB-003

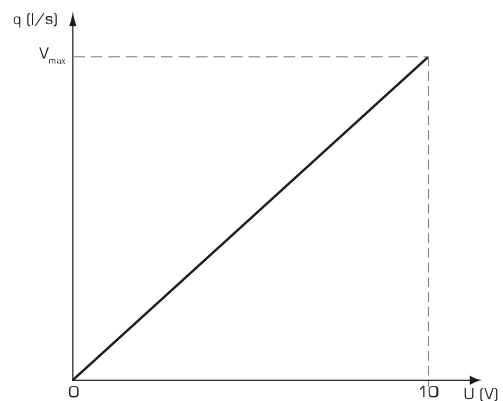
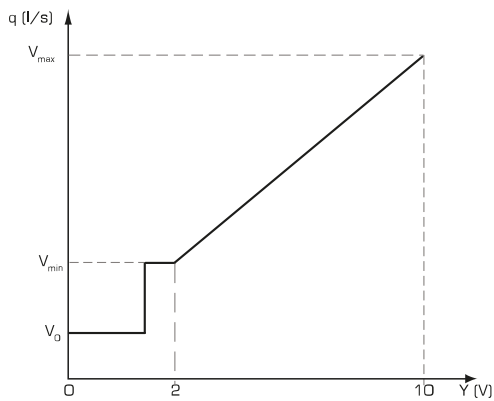
150 N
3,0 W (1,0 W) • 5,0 VA
12,5 mm/min • 36 mm
150 Pa • max.100 kPa



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

Table 1: Wiring diagram

1	2	3	4	a	b
24 VAC (L) 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)		

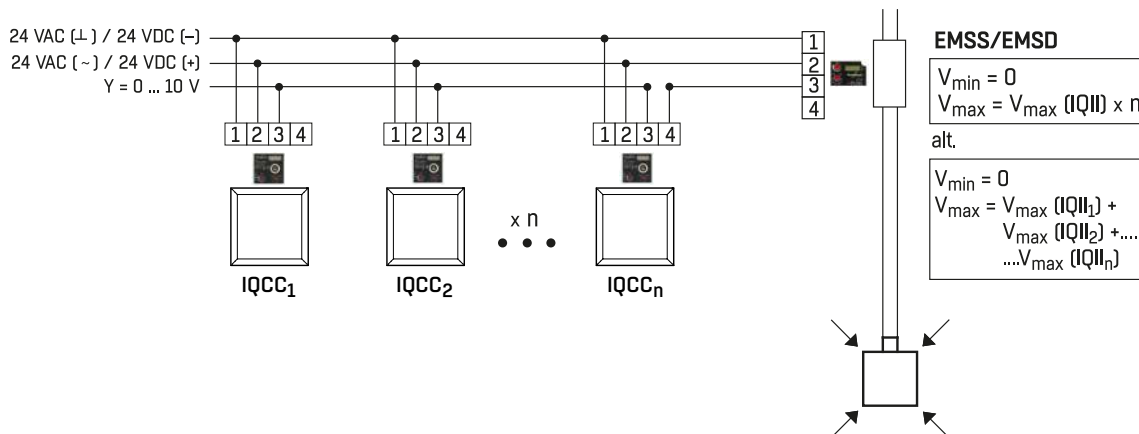
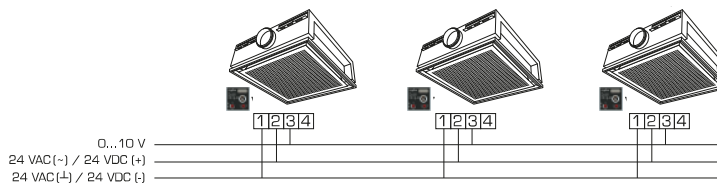


$$q_{act} = \frac{V_{min}}{V_{max}} + \frac{Y - 2}{8} \times (V_{max} - V_{min})$$

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

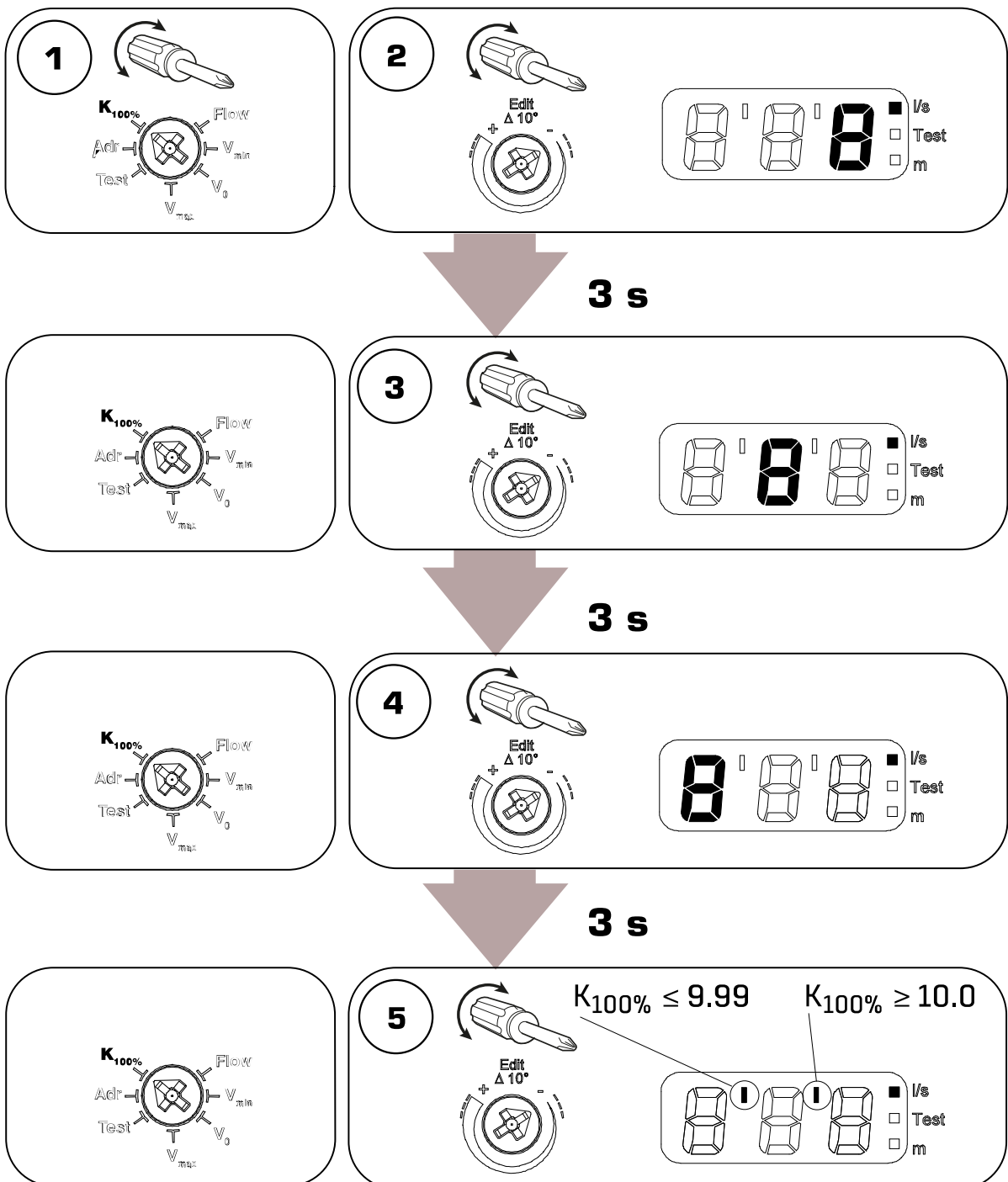
$$U = 0 - 10 \quad (0 \text{ V} = 0 \text{ l/s}, 10 \text{ V} = V_{max})$$

(VDC)

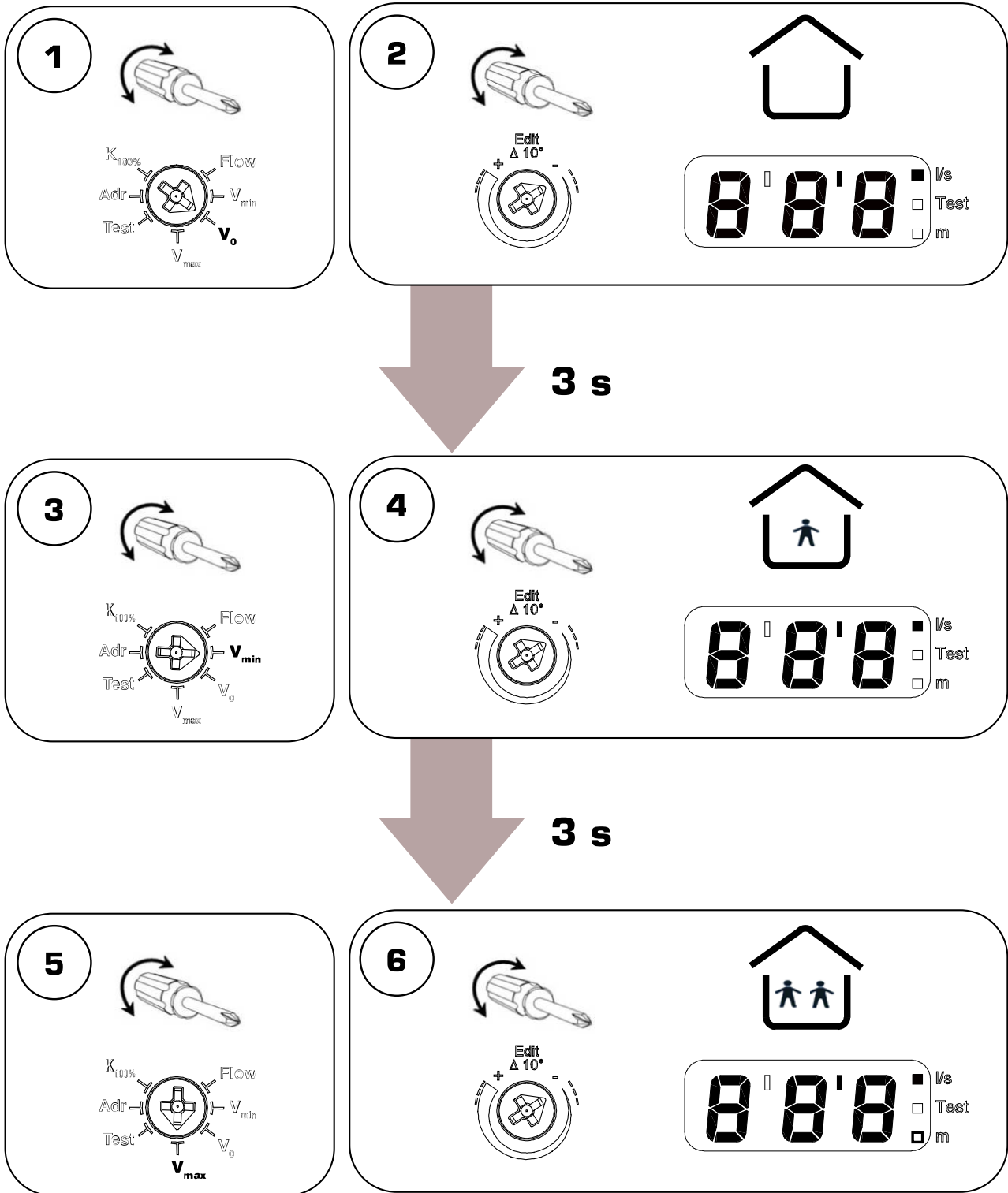


K_{100%}

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

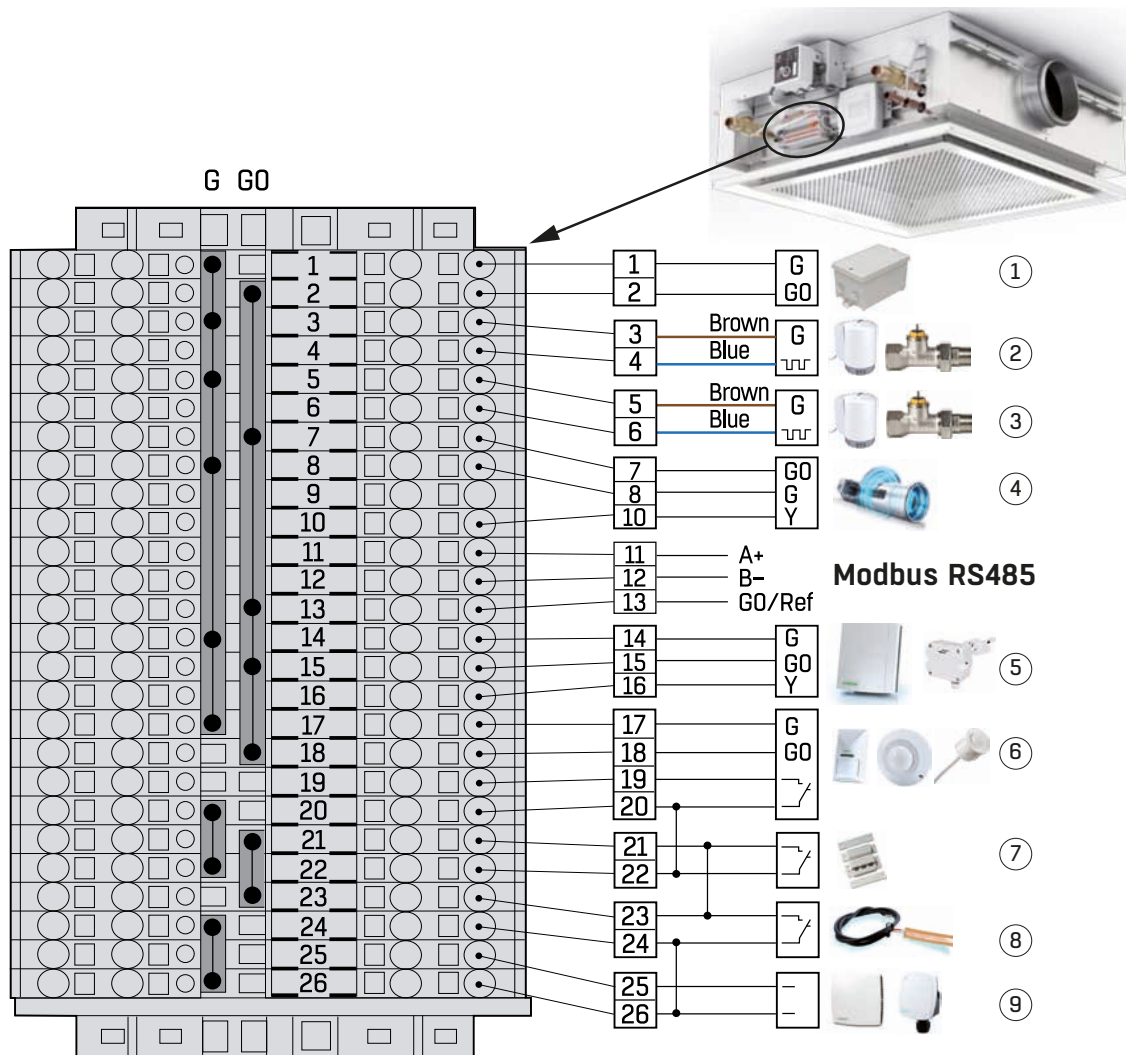


V₀, V_{MAX} & V_{MIN}



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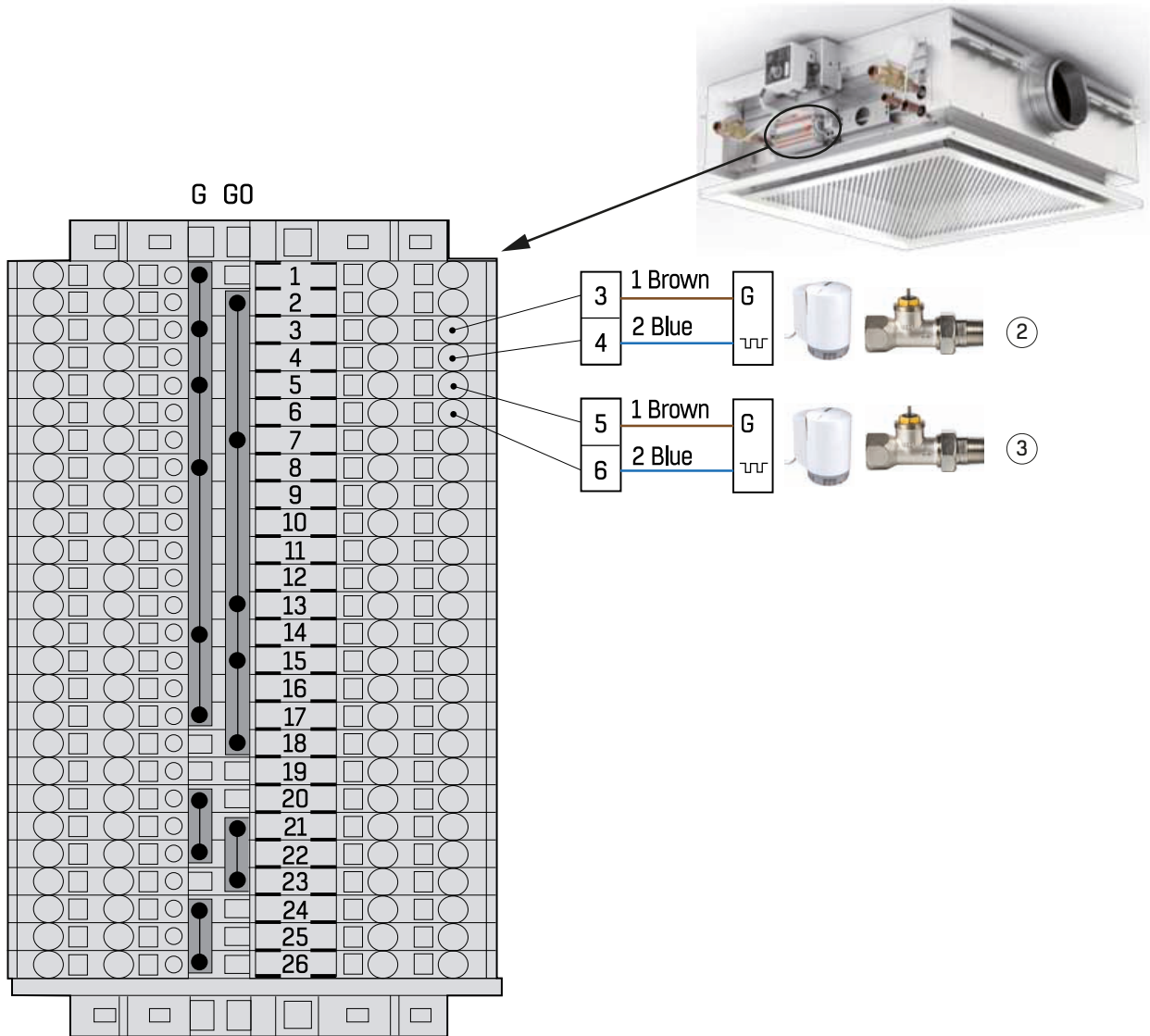
MASTER BEAM



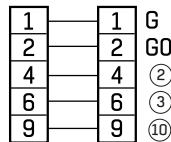
	1	2	3	4	5	6	7	8	9
GB	Transformer	Actuator heating	Actuator cooling	Exhaust actuator	CO ₂ sensor	PIR sensor	Window sensor	Condense sensor	Temperature sensor
SE	Transformator	Ventil värme	Ventil kyla	VAV-spjäll	CO ₂ -givare	Närvarogivare	Fönsterkontakt	Kondensgivare	Temperaturgivare
FI	Muuntaja	Toimilaitteen lämmitys	Toimilaitteen jäähdytys	Poistoilman toimilaite	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	Vėsavimo 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

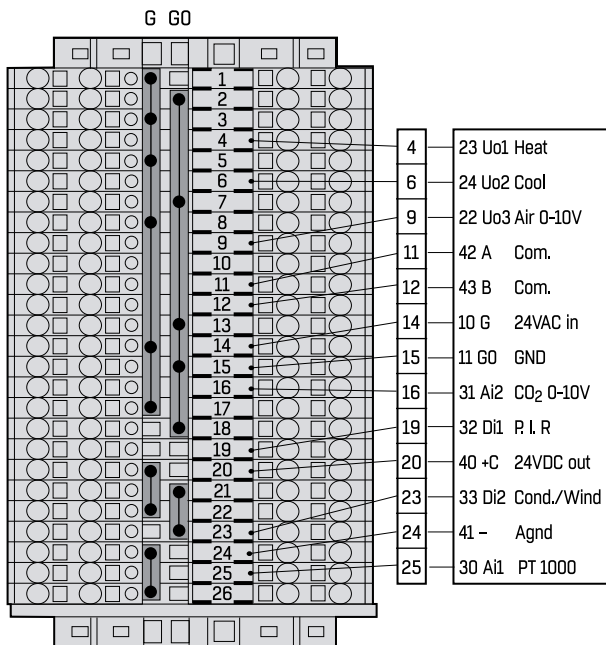
10

- **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

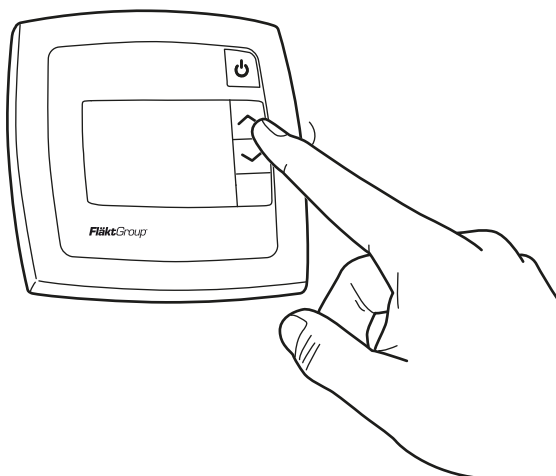
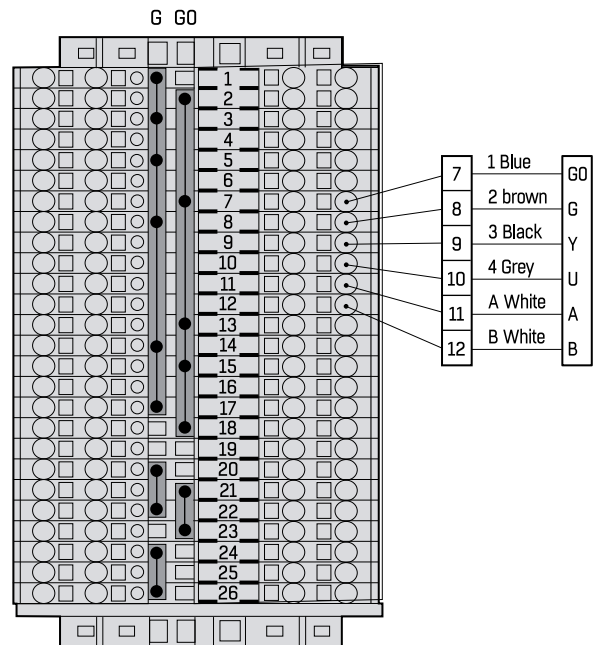
STRZ-76



Control unit STRA



PI actuator



STRZ-76-02-cc-d-ee

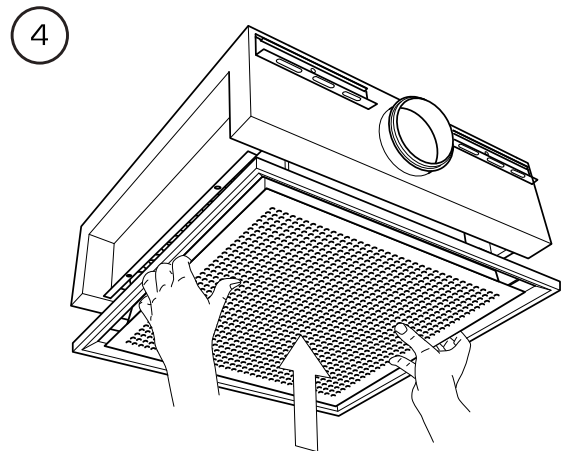
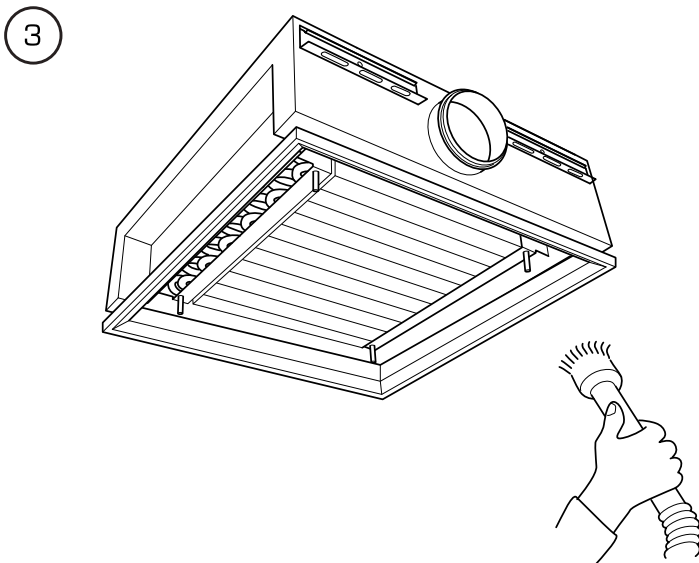
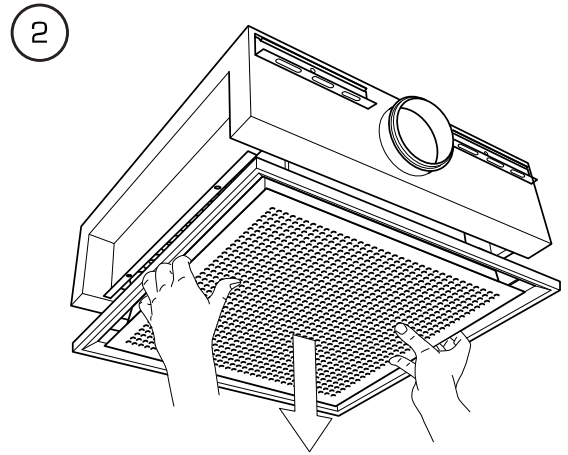
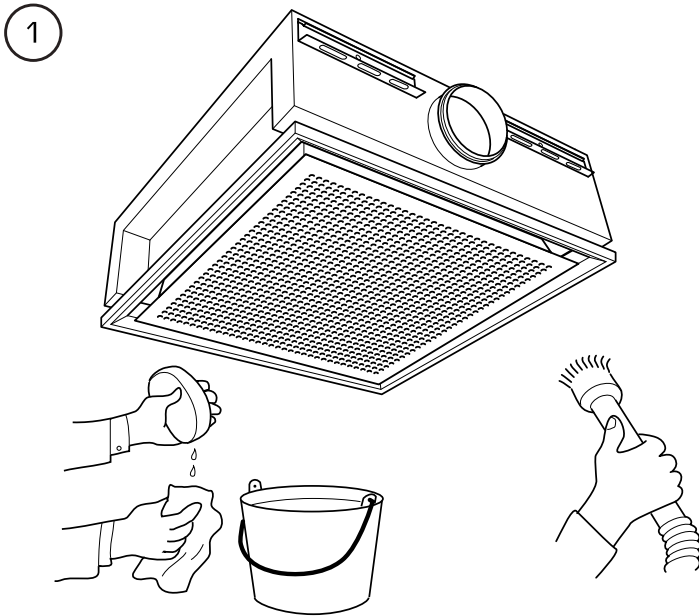
Parameter 15 = 1

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



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