AVENTOS top

Ordering and planning information





The latest generation in our comprehensive repertoire

Our AVENTOS lift systems have been reliably used in wall and tall cabinets for more than two decades. It was time for an evolution: we have reduced the size, optimised the functions and adapted the design. New AVENTOS top allows you to masterfully stage individual items of furniture or entire living spaces – without compromise.

0

Contents

- 4 Living world
- 5 Services
- 6 Overview of cabinet heights
- 8 AVENTOS HF top
- 20 AVENTOS HS top
- 26 AVENTOS HL top
- 32 AVENTOS HK top
- 40 AVENTOS HK-S
- 46 AVENTOS HK-XS
- 52 TIP-ON
- 54 EXPANDO T
- 55 Assembly devices
- 56 SERVO-DRIVE









Uniquely arranged. Across all living areas

With their compact size and minimalist design, the lift systems from the AVENTOS top range fit perfectly into every piece of furniture and every living space. Depending on your requirements and the space available, you can find a suitable and reliable solution with AVENTOS HF top, HS top, HL top and HK top. Freedom of movement and optimal access are maintained at all times – no matter whether fronts fold up, swing up and over, lift up or pivot up.



Detailed information on AVENTOS top at: www.blum.com/aventostop

a**blum**

Our services at a glance

Our services are customised to your specific needs, for every step along your process chain, allowing you to work more efficiently and therefore save time. Tailored to you and available when and where you need them.



Digital services Digital support for more efficiency



Assembly devices Practical tools for precise work

2	

Communication services Comprehensive material for targeted marketing



Personal services Direct contact for customer-focussed support



Logistics services Optimised processes for quick delivery





Find out more about our services: www.blum.com/services blum

The right tool for every composition





R = tier system

Ablum





7

AVENTOS HF top

14

blum

Wooden fronts and wide aluminium frames



Ordering information

Note

Power factor (LF) =

cabinet height* (KH) [mm] x front weight including handle weight [kg]

* Calculate with theoretical cabinet height (TKH) for asymmetrical fronts

For asymmetrical fronts: theoretical cabinet height TKH = front height top FHo (mm) x 2 + gaps

The larger front must be at the top for asymmetrical fronts.

We recommend the more powerful lift mechanism for applications in overlapping ranges. A trial application is recommended when you are in a borderline area of the individual lift mechanism.

The power factor (LF) can be increased by 50% if you use a third lift mechanism.

1			Lift mechanism set				
		A	Fixing with pre-mounted system screws				
			LF	ow			
66500			2700-13500*	81°-116°	22F2510		
			10000–19300	81°-116°	22F2810		
LW	Pc	ower facto	r				
OV	V O	pening an	gle (multi-stage adjus	tment)			
Co	nsis	ting of:					
1	2 x	2 x Symmetrical lift mechanism					
	Incl. pre-mounted system screws						
* 1 c	* 1 pc LF 1300–3000 cabinet width KB up to 600 mm						

- Ideal for higher wall cabinets with bi-fold fronts
- Cabinet height 480-1200 mm
- Cabinet width up to 1800 mm
- Internal depth of at least 264 mm
- Integrated BLUMOTION setting
- SERVO-DRIVE electrical motion support system
- Light operating forces
- Variable stop
- Integrated opening angle stop
- Standardised position of the lift mechanism and front fixing bracket
- Symmetrical lift mechanism and lever arm
- Tool-free assembly
- Two lift mechanism fixing methods
- 3-dimensional adjustment of both fronts
- Centre hinge with finger safety feature

Lift mechanism set

1

			1	Fixing with chipboard screws with positioning system			
				LF	ow		
		0		2700-13500*	81°–116°	22F2500	
			880-	10000–19300	81°-116°	22F2800	
	LW	/ Po	wer facto	r			
	OW Opening angle (multi-stage adjustment)						
	Consisting of:						
	1 2 x Symmetrical lift mechanism						
	Incl. positioning system						
	- 8 x Chipboard screws Ø 4 x 35 mm						
	* 1 po E 1200, 2000						

cabinet width KB up to 600 mm

Wooden fronts and wide aluminium frames

Ordering information

0						
2		Lever arm set				
	A	Cabinet height (mm)*				
	R LA	480–610		22F3200		
		600–910		22F3500		
		840–1200		22F3900		
Consi	isting of:					
2 2 x Symmetrical lever arm						
* For a front	asymmetric theight top	al fronts: theoretical cab FHo (mm) x 2 + gaps	inet height TKH	=		
3		Mounting plate for leve	er arm			
	_	Fixing method	Spacing (mm)			
	S)	Screw-on 1	0	175H3100		
Ċ	0	EXPANDO	0	177H3100E		
		Knock-in	0	177H3100		
All ho	rizontal stee	el mounting plates with 0 r	nm spacing poss	ible		
wide 4	aluminium	frames	wide aluminium frames			
		Colour	Matorial			
		Colour	Material			
Consi	isting of:	Colour SW, HGR, TGR	Material K	22.8000		
Consi	isting of:	Colour SW, HGR, TGR	Material K	22.8000		
Consi - 1> 4b 1>	isting of:	Colour SW, HGR, TGR ap left	Material K	22.8000		
Consi - 1) 4b 1) 4c 2)	isting of: x Cover c x Cover c x Brandin	Colour SW, HGR, TGR ap left ap right g element embossed with	Material K	22.8000		
Consi - 1) 4b 1) 4c 2)	isting of: x Cover c x Cover c x Brandin IN-G	Colour SW, HGR, TGR ap left ap right g element, embossed with	Material K	22.8000		
Consi - 1) 4b 1) 4c 2)	isting of: Cover c Cover c Brandin IN-G	Colour SW, HGR, TGR ap left ap right g element, embossed with	Material K	22.8000		
Consi - 1) 4b 1) 4c 2) 4	isting of: Cover c Cover c Brandin IN-G	Colour SW, HGR, TGR ap left ap right g element, embossed with Cover cap set for SER	Material K h Blum logo	22.8000		
Consi - 1) 4b 1) 4c 2) 4	isting of: x Cover c x Cover c x Brandin IN-G	Colour SW, HGR, TGR ap left ap right g element, embossed with Cover cap set for SER ¹ Colour	Material K h Blum logo VO-DRIVE Material	22.8000		
Consi - 1) 4b 1) 4c 2) 4 - 4 - 4 - 1) 4 - 1) 4 - 1) 4 - 1) 4 - 1) 4 - 1) 4 - 1) 4 - 1) 4 - - - - - - - - - - - - -	isting of: Cover c Cover c Brandin IN-G	Colour SW, HGR, TGR ap left ap right g element, embossed with Cover cap set for SER ¹ Colour SW, HGR, TGR	Material K h Blum logo VO-DRIVE Material K	22.8000		
Consi - 1) 4b 1) 4c 2) 4 - - - - - - - - - - - - -	isting of: Cover c Cover c Brandin IN-G	Colour SW, HGR, TGR ap left ap right g element, embossed with Cover cap set for SER ¹ Colour SW, HGR, TGR	Material K h Blum logo VO-DRIVE Material K	22.8000		
Consi - 1) 4b 1) 4c 2) 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5	isting of: Cover c Cover c Brandin IN-G isting of: x SERVO	Colour SW, HGR, TGR ap left ap right g element, embossed with Colour SW, HGR, TGR	Material K h Blum logo VO-DRIVE Material K	22.8000		
Consi - 1) 4b 1) 4c 2) 4 4 4 Consi 4a 1) 4b 1)	isting of: x Cover c x Cover c x Brandin IN-G isting of: x SERVO x Cover c	Colour SW, HGR, TGR ap left ap right g element, embossed with Colour SW, HGR, TGR -DRIVE cover cap left ap right	Material K h Blum logo VO-DRIVE Material K	22.8000		
Consi - 1) 4b 1) 4c 2) 4 4 4 4 4 4 4 1) 4 4 1) 4 2) 4 4 1) 4 2) 4 4 2) 4 2) 4 2) 4 2) 4 4 2) 4 4 2) 4 4 2) 4 4 2) 4 4 2) 4 4 2) 4 4 2) 4 4 2) 4 2 2) 4 4 2) 2) 4 2) 2) 2) 2) 2) 2) 2) 2) 2) 2)	isting of: Cover c Cover c Brandin IN-G isting of: SERVO SERVO Cover c SERVO Cover c SERVO	Colour SW, HGR, TGR SW, HGR, TGR ap left ap right g element, embossed with Colour SW, HGR, TGR -DRIVE cover cap left ap right g element, embossed with	Material K h Blum logo VO-DRIVE Material K	22.8000		
Consi - 1) 4b 1) 4c 2) 4 4 - 4 - 2) 4 - 4 - 2) - - - - - - - - - - - - -	isting of: Cover c Cover c Brandin IN-G isting of: SERVO Cover c Brandin IN-G	Colour SW, HGR, TGR ap left ap right g element, embossed with Colour SW, HGR, TGR DRIVE cover cap left ap right g element, embossed with	Material K h Blum logo VO-DRIVE Material K	22.8000		
Consi - 1) 4b 1) 4c 2) 4 - 4 - 4 - 4 - 4 - 4 - - - - - - - - - - - - -	isting of: Cover c Cover c Brandin IN-G isting of: SERVO SERVO Cover c SERVO SERVO SERVO	Colour SW, HGR, TGR ap left ap right g element, embossed with Colour SW, HGR, TGR DRIVE cover cap left ap right g element, embossed with DRIVE switch	Material K h Blum logo VO-DRIVE Material K	22.8000		
Consi - 1) 4b 1) 4c 2) 4 4 4 4 4 4 4 4 4 4 4 2) 4 4 4 2) 4 4 2) 4 4 2) 4 4 2) 4 4 2) 4 5 8 8 8 8 8 8 8 8 8 8 8 8 8	isting of: Cover c Cover c Brandin IN-G isting of: SERVO SERVO SERVO SERVO SERVO SERVO SERVO SERVO SERVO SERVO SERVO SERVO SERVO SERVO SERVO SERVO	Colour SW, HGR, TGR ap left ap right g element, embossed with Colour SW, HGR, TGR DRIVE cover cap left ap right g element, embossed with DRIVE switch stance bumper Ø 5 mm	Material K h Blum logo VO-DRIVE Material K	22.8000		

5	CLIP top 120° hinge		
•	Boss	Spring	
	INSERTA	Unsprung	70T5590BTL
	Screw-on 1	Unsprung	70T5550.TL
Boss overlay TC	11 mm		

3 hinges starting at cabinet width KB 1200 mm and/or 12 kg front weight

- 4 hinges for cabinet width KB 1800 mm and/or starting at 20 kg front weight
- ¹ Use chipboard screws (609.1x00) for wooden fronts Use countersunk self-tapping screws (660.0950) for wide aluminium frames

Alternative to 5

-	CLIP top 120° special hinge for larger front overlay		
A	Boss	Spring	
	INSERTA	Unsprung	72T5590BTL
	Screw-on 1	Unsprung	72T5550.TL
Boss overlay TC	13 mm		
3 hinges for cabinet width KB 1200 mm and wider and/or starting at a 12 kg front weight			

4 hinges for cabinet width KB 1800 mm and/or starting at a 20 kg front weight

and/or starting at a 20 kg nont weight

¹ Use chipboard screws (609.1x00) for wooden fronts Use countersunk self-tapping screws (660.0950) for wide aluminium frames

	Mounting plate for CLIP top 120° hinge			
	Fixing method	Spacing (mm)		
<u> </u>	Screw-on 1	0	175H3100	
and the second s	EXPANDO	0	177H3100E	
	Knock-in	0	177H3100	

Standard mounting plates, spacing depends on the upper front overlay

¹ Use chipboard screws (609.1x00) for wooden fronts

Use countersunk self-tapping screws (660.0950) for wide aluminium frames

 Boss
 Spring

 Screw-on
 1
 Unsprung
 78Z5500T

 EXPANDO
 Unsprung
 78Z553ET

3 hinges starting at cabinet width KB 1200 mm and/or 12 kg front weight

4 hinges for cabinet width KB 1800 mm and/or starting at 20 kg front weight

¹ Use chipboard screws (609.1x00) for wooden fronts

Use countersunk self-tapping screws (660.0950) for wide aluminium frames

Ablum

Wooden fronts and wide aluminium frames

Ordering information



Standard mounting plates with 0 mm spacing

Only use cruciform mounting plates for wide aluminium frames with a frame width of less than 57 $\,\mathrm{mm}$

¹ Use chipboard screws (609.1x00) for wooden fronts

Use countersunk self-tapping screws (660.0950) for wide aluminium frames

9			SERVO-DRIVE set		
			Colour	Material	
		~	TGR	К	23.A000
Co	nsis	ting of:			
9a	1 x	Drive u	nit		
9b	1 x	SERVO-DRIVE distribution cable, 1500 mm			
9c	1 x	Connecting node			
9d	2 x	Cable end protector			
Fo dri	For three lift mechanisms or more, we recommend two synchronised drive units				
We recommend one drive unit per set for connected fronts.					
_					
10	10 SERVO-DRIVE power supply unit and accessories				

See page 56

Optional

4c	Branding element				
(hand)	Material	Colour			
Rollable	К	SW-M, TGR	IN-G		
Printed *	2 x	ABD.1000.BL	ABD.1009.BL		
Embossed *	2 x	ABD.1000.BT	ABD.1009.BT		
Plain	2 x	ABD.1000	ABD.1009		
* With Blum logo					
From 1000 pcs:					
Customised, prin	Customised, printed branding element				
From 5000 pcs:					
Customised, emb	oossed branding eleme	nt			

Colours and material

Name	
SW	Silk white
HGR	Light grey
TGR	Dark grey
SW-M	Silk white matt
IN-G	In-mould brushed stainless steel
К	Nylon

Narrow aluminium frames



SERVO-DRIVE

Ordering information

Note

Power factor (LF) = cabinet height* (KH) [mm] x front weight including handle weight [kg]

* Calculate with theoretical cabinet height (TKH) for asymmetrical fronts

For asymmetrical fronts: theoretical cabinet height TKH = front height top FHo (mm) x 2 + gaps

The larger front must be at the top for asymmetrical fronts.

We recommend the more powerful lift mechanism for applications in overlapping ranges. A trial application is recommended when you are in a borderline area of the individual lift mechanism.

A that application is recommended when you are in a bordenine area of the individual int mechanis

The power factor (LF) can be increased by 50% if you use a third lift mechanism.

1			Lift mechanism set				
		1	Fixing with pre-mounted system screws				
0			LF	ow			
49940			2700-13500*	81°-116°	22F2510		
			10000–19300	81°-116°	22F2810		
LW	/ Pc	wer facto	r				
OV	V Op	pening an	gle (multi-stage adjus	tment)			
Co	nsis	ting of:					
1	I 2 x Symmetrical lift mechanism						
	Incl. pre-mounted system screws						
* 1 pc LF 1300–3000 cabinet width KB up to 600 mm							

_	Ideal for	hiaher	wall	cabinets	with	bi-fold	fronts
	ideal loi	ingiloi	wan	oubinoto		Di loid	1101110

- Cabinet height 480-1200 mm
- Cabinet width up to 1800 mm
- Internal depth of at least 264 mm
- Integrated BLUMOTION setting
- SERVO-DRIVE electrical motion support system
- Light operating forces
- Variable stop
- Integrated opening angle stop
- Standardised position of the lift mechanism and front fixing bracket
- Symmetrical lift mechanism and lever arm
- Tool-free assembly
- Two lift mechanism fixing methods
- 3-dimensional adjustment of both fronts
- Centre hinge with finger safety feature

1			Lift mechanism set				
	Ti		Fixing with chipboard screws with positioning system				
			LF	ow			
	6		2700–13500*	81°-116°	22F2500		
			10000–19300	81°-116°	22F2800		
LW	V Po	wer facto	ır				
OV	N Op	ening an	gle (multi-stage adju	istment)			
Co	onsis	ting of:					
1	2 x Symmetrical lift mechanism						
	Incl. positioning system						
-	8 x Chipboard screws Ø 4 x 35 mm						
* 1 c	* 1 pc LF 1300–3000 cabinet width KB up to 600 mm						

Ablum

Narrow aluminium frames

Ordering information

2		Lever arm set					
1	A	Cabinet height (mm)*					
		480–610		22F3200			
		600–910		22F3500			
		840–1200		22F3900			
Consisting of:							
2 2 x	Symme	trical lever arm					
* For asymmetrical fronts: theoretical cabinet height TKH =							
non neight top i no (nini) x 2 + gaps							
3		CLIP adapter plate set	for lever arms				
	¢,	Version	Spacing (mm)				
19	빈	Left/right	0	175H5B00			
4		Cover cap set					
		Colour	Material				
		SW, HGR, TGR	К	22.8000			
Consis	ting of:						
- 1 x	Cover c	ap left					
4b 1 x	Cover c	ap right					
4c 2 x	Brandir	ig element, embossed with	n Blum logo				
	IN-G						
4		Cover can set for SER					
4		Cover cap set for SER	VO-DRIVE				
4		Cover cap set for SER	VO-DRIVE Material				
		Cover cap set for SER Colour SW, HGR, TGR	VO-DRIVE Material K	23.8000			
4 II E & Consis	etting of:	Cover cap set for SER Colour SW, HGR, TGR	VO-DRIVE Material K	23.8000			
4 iii E & E Consiss 4a 1 x	ting of:	Cover cap set for SER Colour SW, HGR, TGR	VO-DRIVE Material K	23.8000			
4 E E E E Consis 4a 1 x 4b 1 x	ting of: SERVO Cover of	Cover cap set for SER Colour SW, HGR, TGR -DRIVE cover cap left ap right	VO-DRIVE Material K	23.8000			
4 E e e 4a 1 x 4b 1 x 4c 2 x	sting of: SERVO Cover of Brandir	Cover cap set for SER Colour SW, HGR, TGR -DRIVE cover cap left ap right g element, embossed with	VO-DRIVE Material K	23.8000			
4 H E E E Consis 4a 1x 4b 1x 4c 2x	ting of: SERVO Cover of Brandir IN-G	Cover cap set for SER Colour SW, HGR, TGR -DRIVE cover cap left ap right g element, embossed with	VO-DRIVE Material K	23.8000			
4 E 0 Consis 4a 1x 4b 1x 4c 2x 4d 2x	ting of: SERVO Cover c Brandir IN-G SERVO	Cover cap set for SER Colour SW, HGR, TGR -DRIVE cover cap left ap right g element, embossed with -DRIVE switch	VO-DRIVE Material K	23.8000			
4 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ting of: SERVO Cover of Brandir IN-G SERVO Blum di	Cover cap set for SER Colour SW, HGR, TGR -DRIVE cover cap left ap right g element, embossed with -DRIVE switch stance bumper Ø 5 mm	VO-DRIVE Material K	23.8000			
4 1 x 4 1 x 4 1 x 4 2 x 4 4 2 x 4 4 6 x 5	sting of: SERVO Cover of Brandir IN-G SERVO Blum di	Cover cap set for SER Colour SW, HGR, TGR DRIVE cover cap left ap right gelement, embossed with DRIVE switch stance bumper Ø 5 mm CLIP top 120° aluminit	VO-DRIVE Material K Blum logo	23.8000			
4 E 6 2 4a 1x 4b 1x 4c 2x 4d 2x 4d 2x 4d 2x 5	ting of: SERVO Cover c Brandir IN-G SERVO Blum di	Cover cap set for SER Colour SW, HGR, TGR -DRIVE cover cap left ap right g element, embossed with -DRIVE switch stance bumper Ø 5 mm CLIP top 120° aluminit Boss	VO-DRIVE Material K n Blum logo um frame door h Spring	23.8000			
4 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ting of: SERVO Cover of Brandir IN-G SERVO Blum di	Cover cap set for SER Colour SW, HGR, TGR -DRIVE cover cap left ap right g element, embossed with -DRIVE switch stance bumper Ø 5 mm CLIP top 120° aluminit Boss Screw-on	VO-DRIVE Material K h Blum logo um frame door h Spring Unsprung	23.8000			
4 1 x 4 a 1 x 4 b 1 x 4 c 2 x 4 d 2 x 4 d 2 x 4 d 2 x 4 c 2 x 5 5 3 hinge	starting sting of: SERVO Brandir IN-G SERVO Blum di	Cover cap set for SER Colour SW, HGR, TGR DRIVE cover cap left ap right gelement, embossed with DRIVE switch stance bumper Ø 5 mm CLIP top 120° alumint Boss Screw-on at cabinet width KB 1200	VO-DRIVE Material K Blum logo um frame door h Spring Unsprung mm and/or 12 kg	23.8000 23.8000 inge 72T550A.TL front weight			
4	s for cabin	Cover cap set for SER Colour SW, HGR, TGR DRIVE cover cap left ap right gelement, embossed with DRIVE switch stance bumper Ø 5 mm CLIP top 120° aluminu Boss Screw-on at cabinet width KB 1200	VO-DRIVE Material K Blum logo Blum logo Unsprung Unsprung mm and/or 12 kg	23.8000 23.8000 ringe 72T550A.TL front weight b kg front weight			
4 1 x 4a 1 x 4b 1 x 4c 2 x 4d 2 x 4d 2 x 4d 2 x 4d 6 x 5 3 hinge 4 hinge	ting of: SERVO Cover of Brandir IN-G SERVO Blum di SERVO Blum di s starting s for cabi screws are	Cover cap set for SER Colour SW, HGR, TGR DRIVE cover cap left ap right g element, embossed with DRIVE switch stance bumper Ø 5 mm CLIP top 120° aluminit Boss Screw-on at cabinet width KB 1200 net width KB 1800 mm and a included	VO-DRIVE Material K h Blum logo um frame door h Spring Unsprung mm and/or 12 kg	23.8000 Ainge 72T550A.TL front weight 0 kg front weight			
4 1 x 4a 1 x 4b 1 x 4c 2 x 4d 2 x 4d 2 x 4d 2 x 4d 6 x 5 3 hinge Fixing s 6	ting of: SERVO Cover of Brandir IN-G SERVO Blum di SERVO Blum di servo s starting s for cabil screws are	Cover cap set for SER Colour SW, HGR, TGR DRIVE cover cap left ap right gelement, embossed with DRIVE switch stance bumper Ø 5 mm CLIP top 120° aluminu Boss Screw-on at cabinet width KB 1200 net width KB 1800 mm and e included Mounting plate for CLI	VO-DRIVE Material K h Blum logo b Blum logo Unsprung Unsprung mm and/or 12 kg d/or starting at 20 P top 120° hing	23.8000 ainge 72T550A.TL front weight 0 kg front weight e			

7	CLIP top aluminium centre hinge				
	Boss	Spring			
	Screw-on 1	Unsprung	78Z550AT		
3 hinges starting at cabinet width KB 1200 mm and/or 12 kg front weight					
4 hinges for cabinet width KB 1800 mm and/or starting at 20 kg front weight					
•					
8 CLIP adapter plate for contro hinges					

	CLIP adapter plate for centre ninges				
	Version	Spacing (mm)			
	Symmetrical	0	175H5A00		
Fixing screws are included					

9			SERVO-DRIVE set		
			Colour	Material	
		&	TGR	К	23.A000
Co	onsis	ting of:			
9a	1 x	Drive u	nit		
9b	1 x	SERVO-DRIVE distribution cable, 1500 mm			
9c	1 x	Connecting node			
9d	2 x	Cable end protector			
Fo dri	For three lift mechanisms or more, we recommend two synchronised drive units				
We recommend one drive unit per set for connected fronts.					
10				supply unit and	accessories
10			SERVO-DRIVE powers	suppry unit and	accessories

10	SERVO-DRIVE power supply unit and accessories			
See page 56				

Optional

4c	Branding element				
(hlyrra)	Material	Colour			
Rollenn	К	SW-M, TGR	IN-G		
Printed *	2 x	ABD.1000.BL	ABD.1009.BL		
Embossed * 2 x		ABD.1000.BT	ABD.1009.BT		
Plain 2 x		ABD.1000	ABD.1009		
* With Blum logo					
From 1000 pcs:					
Customised, printed branding element					
From 5000 pcs:					
Customised, embossed branding element					

¹ Use 2 countersunk self-tapping screws (660.0950) per side for narrow aluminium frames

Colours and material

175H3100

177H3100E

Name			
SW	Silk white	SW-M	Silk white matt
HGR	Light grey	К	Nylon
TGR	Dark grey	IN-G	In-mould brushed stainless steel

Standard mounting plates, spacing depends on the top gap

¹ 0

0

0

Screw-on

EXPANDO

Knock-in

Â

Wooden fronts, wide and narrow aluminium frames

Planning





Chipboard screws incl. positioning system





Wooden fronts, wide and narrow aluminium frames

Planning



Lever arm set		LH min. (mm)		
22F3200		443		
22F3500		512		
22F3900		632		
KH (mm)	A (mm)	B (mm)	C min. (mm)	
480–519	66.5	171.5	172	
520–1200	89.0	194.0	195	
KH Cabinet heigh	ıt			

LH Internal cabinet height

Symmetrical front



FHu Lower front height

Fu

KH Cabinet height

Space requirement above



X max = FH x 0.9 + 1.5 x FD + 35

Оре	ning angle stop	Y (mm)
116°		FH x 0.44 + 38
107°		FH x 0.29 + 35
97°		FH x 0.12 + 31
88°		28
81°		0
FD	Front thickness	
FH	Front height	

Asymmetrical front



Wooden fronts and wide aluminium frames

Planning

Front assembly



CLIP top 120° hinge



The front overlay must always be 2 mm bigger for the CLIP top 120° special hinge.

Screw-on assembly



INSERTA | EXPANDO assembly



Cabinet height KH (mm)	Z (mm)
480–519	170
520–1200	189

Fo	Тор дар
Fm	Middle gap
FAu	Bottom front overlay
FHo	Front height top
FHu	Lower front height
SFA	Side front overlav

CLIP top centre hinge



ΤВ	Boss drilling distance						
FΝ	in. gap 1.5 mm						
* 37	mm for cruciform mounting plates (37/32)						
Bos	s drilling distance TB						
₽	Horizontal gap F between fronts (mm)						
Σ		3	4	5	6		
0		6	5	4	3		
3							
6							
9							
MD	MD Mounting plate spacing (mm)						

Hinge boss dimensions



A**blum**

Narrow aluminium frames

Planning

Front assembly



CLIP top 120° aluminium frame door hinge



Cabinet height KH (mm)	Z (mm)
480–519	188
520–1200	207
For Two www	
го тор дар	
Fm Middle gap	
FAu Bottom front overlay	
FHo Front height top	
FHu Lower front height	

CLIP top aluminium centre hinge



F Min. gap 1.5 mm

The gap needs to be adjusted for a frame thickness of 20.5 mm or greater



* When changing material thickness, adjust the assembly dimensions accordingly



Find more information on assembly and adjustment of AVENTOS HF top at

www.blum.com/hftopassembly

SERVO-DRIVE for AVENTOS HF top

Planning



11 ^{+0.5}

(blum

Accessories for AVENTOS HF top

Ordering information

Hinge set – wooden fronts

Orderi	ng information		
Fixing	method		
INSER	ΓΑ Knock-in EXPANDO	ත 78Z5530T11	
Consisting of:			
2x	CLIP top 120° hinge unsprung		
	70T5590BTL		
2 x	CLIP top centre hinge unsprung		
	78Z5530T		
6 x	Horizontal cam mounting plate		
	177H3100		

Hinge set – wooden fronts and wide aluminium frames



Orderi	ng information		
Fixing	method		
Screw-	on ¹	ත 78Z5500T12	
Consis	ting of:		
2x	CLIP top 120° hinge unsprung		
	70T5550.TL		
2 x	CLIP top centre hinge unsprung		
	78Z5500T		
	For wide aluminium frames, an additional cruciforn plate is required for the CLIP top centre hinge.	n mounting	
6 x	Horizontal cam mounting plate		
	175H3100		
¹ Use c	¹ Use chipboard screws (609.1x00) for wooden fronts		

Use countersunk self-tapping screws (660.0950) for wide aluminium frames

Hinge set – narrow aluminium frames



Orderi	ng information				
Fixing	method				
Screw-	on	ත 78Z550AT11			
Consis	ting of:				
2x	CLIP top 120° aluminium frame door hinge unspre	ung			
	72T550A.TL				
2 x	CLIP top aluminium centre hinge unsprung				
	78Z550AT				
2 x	Horizontal cam mounting plate				
	175H5400				
2 x	CLIP adapter plate symmetrical				
	175H5A00				
2 x	CLIP adapter plate left/right				
	175H5B00				

AVENTOS HS top



blum



- Ideal for large, one-part fronts
- Cabinet height 350-800 mm
- Cabinet width up to 1800 mm
- Internal depth of at least 264 mm
- Integrated BLUMOTION setting
- SERVO-DRIVE electrical motion support system
- Light operating forces
- Variable stop
- Standardised position of the lift mechanism and front fixing bracket
- Symmetrical lift mechanism and lever arm
- Tool-free assembly
- Two lift mechanism fixing methods
- 3-dimensional adjustment of the front

Ordering information

Note

We recommend the more powerful lift mechanism for applications in overlapping ranges. A trial application is recommended when you are in a borderline area of the individual lift mechanism.

The front weight (FG) can be increased by 50% if you use a third lift mechanism. We recommend a third lift mechanism for wide cabinets. This will prevent the front from sagging when open.

1		Lift mechanism set			
		Fixing with pre-mou	inted system screws		
1	~	KH (mm)	FG (kg)		
		350-450	2.00-11.50	0000010	
line of the second s		450-540	2.50-12.50	2252210	
		480-660	2.75–15.25	22S2510	
		650-800	3.50-18.50	22S2810	
FG	Front weigh	t including double ha	ndle weight		
KH Cabinet height					
Consisting of:					
1 2	x Symme	trical lift mechanism			
	Incl. pre	e-mounted system scr	rews		

1			Lift mechanism set			
			Fixing with chipboa	rd screws with positio	ning system	
	4	1	KH (mm)	FG (kg)		
6			350-450	2.00-11.50	2252200	
میں ا			450-540	2.50-12.50	2232200	
			480-660	2.75–15.25	22S2500	
			650-800	3.50-18.50	22S2800	
FG	à Fro	ont weigh	t including double ha	ndle weight		
KH Cabinet height						
Consisting of:						
1	2 x	Symme	trical lift mechanism			
		Incl. po	sitioning system			
-	8 x	Chipbo	ard screws Ø 4 x 35 n	nm		

Ordering information



EXPANDO T	suitable	for thin	fronts -	SPP	nade	54

5			SERVO-DRIVE set		
			Colour	Material	
		&	TGR	К	23.A000
Consisting of:					
5a	1 x	Drive unit			
5b	1 x	SERVO-DRIVE distribution cable, 1500 mm			
5c	1 x	Connecting node			
5d	2 x	Cable end protector			
For three lift mechanisms or more, we recommend two synchronised drive units					
We	e reco	ommend	one drive unit per set for c	onnected fronts.	
_					
6			SERVO-DRIVE powers	supply unit and	accessories

See page 56

Optional

3c	Branding element				
(hlbran)	Material	Col	our		
Rollenn	К	SW-M, TGR	IN-G		
Printed *	2 x	ABD.1000.BL	ABD.1009.BL		
Embossed * 2 x		ABD.1000.BT	ABD.1009.BT		
Plain 2 x		ABD.1000	ABD.1009		
* With Blum logo					
From 1000 pcs:	From 1000 pcs:				
Customised, prin	Customised, printed branding element				
From 5000 pcs:	From 5000 pcs:				
Customised, emb	Customised, embossed branding element				

Colours and material

Name	
SW	Silk white
HGR	Light grey
TGR	Dark grey
SW-M	Silk white matt
NI	Nickel plated
IN-G	In-mould brushed stainless steel
К	Nylon

Planning





Space requirement



LH Internal cabinet height

Front setting



Dimensions depend on tilt adjustment

Planning

Front assembly





FAo Upper front overlay

FAu Bottom front overlay

- F Gap
- Z 195 + FAo
- FH Front height
- KH Cabinet height
- SFA Side front overlay
- Application against a wall: minimum 5 mm gap

Narrow aluminium frames



For frame width 19 mm, an SFA of 11-18 mm is possible.

- * When changing material thickness, adjust the assembly dimensions accordingly
- SFA Side front overlay



Find more information on assembly and adjustment of AVENTOS HS top at

www.blum.com/hstopassembly

Narrow aluminium frames



- FAo Upper front overlay
- FAu Bottom front overlay
- F Gap
- Z 195.5 + FAo
- FH Front height
- KH Cabinet height

Application against a wall: minimum 5 mm gap

Space requirement – cornice | crown moulding



F (mm)	3.0	2.0	1.5
X max. (mm)	31	29	27
Y max. (mm)	117	118	119
F Gap			

Ablum

SERVO-DRIVE for AVENTOS HS top

Planning



AVENTOS HL top

a**blum**



- Ideal for small one-part fronts
- Cabinet height 300-580 mm
- Cabinet width up to 1800 mm
- Internal depth of at least 264 mm
- Integrated BLUMOTION setting
- SERVO-DRIVE electrical motion support system
- Light operating forces
- Variable stop
- Standardised position of the lift mechanism and front fixing bracket
- Symmetrical lift mechanism and lever arm
- Tool-free assembly
- Two lift mechanism fixing methods
- 3-dimensional adjustment of the front

Ordering information

1			Lift mechanism set	
0			Fixing with pre-mounted system screws	
			KH (mm)	
			300–389	22L2210
		a state of the sta	390–580	22L2510
KH Cabinet height				
Consisting of:				
1	2 x	Symmetrical lift mechanism		
		Incl. pre-mounted system screws		





	Lift mechanism set	
	Fixing with chipboard screws with positio	ning system
P	KH (mm)	
	300–389	22L2200
	390–580	22L2500
t hei	aht	

KH Cabinet he Consisting of:

1 2 x Symmetrical lift mechanism Incl. positioning system

- 8 x Chipboard screws Ø 4 x 35 mm

Ordering information

		Cover cap set		
		Colour	Material	
		SW, HGR, TGR	к	22.8000
Cons	isting of:			
- 1:	x Cover c	ap left		
3b 1	x Cover c	ap right		
3c 2	x Brandin	g element, embossed	I with Blum logo	
	IN-G			
3		Cover cap set for S	SERVO-DRIVE	
		Colour	Material	
		SW, HGR, TGR	к	23.8000
Cons	isting of:			
3a 1	x SERVO	-DRIVE cover cap left		
3b 1	x Cover c	ap right		
3c 2	x Brandin	g element, embossed	with Blum logo	
	IN-G			
3d 2	x SERVO	-DRIVE switch		
3e 6	x Blum di	stance bumper Ø 5 m	m	
4		Front fixing bracket set		
		Version Fixing method		
		Wooden fronts and wide aluminium frames	¹ Screw-on	2054200
	161	Narrow aluminium frames	2 Screw-on	20S4200A
Consisting of:				
4 2 x Front fixing bracket				
4 2	x Front fix	ing bracket		
4 2 ¹ Use Use wide	x Front fix 4 chipboard 4 countersu aluminium	king bracket I screws (609.1x00) po Ink self-tapping screw frames.	er side for wooden fro vs (660.0950) per side	onts. 9 for
4 2 ¹ Use Use wide ² Incl.	x Front fix 4 chipboard 4 countersu aluminium 8 x counter	king bracket I screws (609.1x00) p unk self-tapping screw frames. sunk self-tapping scre	er side for wooden fro vs (660.0950) per side ews – 660.0950	onts. e for
4 2 : ¹ Use Use wide ² Incl.	x Front fix 4 chipboard 4 countersu aluminium 8 x counter	king bracket d screws (609.1x00) pr unk self-tapping screw frames. sunk self-tapping screw Front fixing bracke	er side for wooden fro vs (660.0950) per side ews – 660.0950 et	onts. e for
 4 2 1 ¹ Use Use wide ² Incl. 	x Front fix 4 chipboard 4 countersu a aluminium 8 x counter	king bracket d screws (609.1x00) pr unk self-tapping screw frames. sunk self-tapping screw Front fixing bracket Version	er side for wooden fro vs (660.0950) per side ews – 660.0950 et Fixing method	onts. e for
4 2: ¹ Use Use wide ² Incl.	x Front fix 4 chipboard 4 countersu e aluminium 8 x counter	king bracket d screws (609.1x00) pr unk self-tapping screw frames. sunk self-tapping screw Front fixing bracke Version Thin fronts	er side for wooden fro vs (660.0950) per side ews – 660.0950 et Fixing method EXPANDO T 2 x	onts. e for 20S42T1
4 2: ¹ Use Use wide ² Incl. -	x Front fix 4 chipboard 4 countersu e aluminium 8 x counter 8 x counter	king bracket d screws (609.1x00) pr unk self-tapping screw frames. sunk self-tapping screw Front fixing bracke Version Thin fronts able for thin fronts – s	er side for wooden fro vs (660.0950) per side ews – 660.0950 et Fixing method EXPANDO T 2 x ee page 54	onts. e for 20S42T1
4 2: ¹ Use Wide ² Incl. - EXPA	x Front fix 4 chipboard 4 countersu aluminium 8 x counter 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	king bracket d screws (609.1x00) pr unk self-tapping screw frames. sunk self-tapping screw Front fixing bracket Version Thin fronts able for thin fronts – s Cross stabiliser	er side for wooden fro vs (660.0950) per side ews – 660.0950 et Fixing method EXPANDO T 2 x ee page 54	onts. e for 20S42T1
4 2: ¹ Use wide ² Incl. - EXPA 5	x Front fix 4 chipboard 4 countersu aluminium 8 x counter 8 x counter	ting bracket d screws (609.1x00) pr unk self-tapping screw frames. sunk self-tapping screw Front fixing bracket Version Thin fronts able for thin fronts – s Cross stabiliser Length (mm)	er side for wooden fro vs (660.0950) per side ews – 660.0950 et Fixing method EXPANDO T 2 x ee page 54	onts. e for 20\$42T1
4 2: ¹ Use Wide ² Incl. - EXPA 5	x Front fix 4 chipboard 4 countersu a aluminium 8 x counter NDO T suit	<pre>king bracket king bracket king bracket k self-tapping screw frames. sunk self-tapping screw Front fixing bracket Version Thin fronts able for thin fronts - s Cross stabiliser Length (mm) 1076</pre>	er side for wooden fro vs (660.0950) per side ews – 660.0950 et Fixing method EXPANDO T 2 x ee page 54	onts. e for 20542T1 22Q1076U

Internal cabinet width LW - 113 mm

•	Connecting piece set for cross stabiliser		
	Recommended from an internal cabinet width ≧ 1190 mm or a cabinet width ≧ 1228 mm		
R allow	Material		
6	Zinc		22Q080Z
Consisting of:			
2b 2 x Cross	stabiliser cover cap		
2c 2 x Adapte	r for cross stabiliser rod		
- 1 x Conne	cting piece for cross stab	iliser	
- 1 x Cross	stabiliser fixing		
Cutting for 5 Internal cabinet width LW/2 - 105 mm			
6	SERVO-DRIVE set		
	Colour	Material	
No.	TGR	К	23.A000
Consisting of:			
6a 1 x Drive u	Drive unit		
6b 1 x SERVO	SERVO-DRIVE distribution cable, 1500 mm		
6c 1 x Conne	Connecting node		
6d 2 x Cable e	Cable end protector		
	We recommend one drive unit per set for connected fronts.		
We recommend	one drive unit per set for	connected fronts.	

7	SERVO-DRIVE power supply unit and a
See page 56	

Optional

3c	Branding element			
	Material	Colour		
RELIEU	К	SW-M, TGR	IN-G	
Printed *	2 x	ABD.1000.BL	ABD.1009.BL	
Embossed *	2 x	ABD.1000.BT	ABD.1009.BT	
Plain	2 x	ABD.1000	ABD.1009	
* With Blum logo				
From 1000 pcs:				
Customised, printed branding element				
From 5000 pcs:				
Customised, embossed branding element				

Colours and material

Name	
SW	Silk white
HGR	Light grey
TGR	Dark grey
SW-M	Silk white matt
IN-G	In-mould brushed stainless steel
К	Nylon

Cutting

blum

Planning





Space requirement



Lever arm set	LH min. (mm) ¹
22L3200	255
22L3500	295
22L3800	345
22L3900	399

¹ Dimensions based on lower gap F = 0 mm

LH Internal cabinet height

Front setting



Lever arm set	a (mm)	b (mm)1	c (mm)	Y (mm) ²
22L3200	112	272.5	155.5	272.5
22L3500	140.5	340	195	340
22L3800	176	425	245	425
22L3900	214.5	517	297.5	517

¹ Dimensions based on lower gap F = 0 mm

 $^{\rm 2}$ Dimensions based on top gap F = 0 mm

KH Cabinet height

Planning

Front assembly





Lever arm set	Z	
22L3200	113 + FAo	
22L3500	153 + FAo	
22L3800	203 + FAo	
22L3900	256 + FAo	
FAo Upper front overlay		
FAu Bottom front overlay		
F Gap		
FH Front height		
KH Cabinet height		
SFA Side front overlay		

Application against a wall: minimum 5 mm gap

Narrow aluminium frames



For frame width 19 mm, an SFA of 11-18 mm is possible.

* When changing material thickness, adjust the assembly dimensions accordingly

SFA Side front overlay

Narrow aluminium frames



Lever arm set	Z	
22L3200	113.5 + FAo	
22L3500	153.5 + FAo	
22L3800	203.5 + FAo	
22L3900	256.5 + FAo	
FAo Upper front overlay		
FAu Bottom front overlay		
F Gap		
H Front height		
KH Cabinet height		
Application against a wall: minimum 5 mm gap		

Space requirement – cornice | crown moulding



Top panel thickness (SOB)	X (mm)
16 mm	25
17 mm	26
18 mm	27
19 mm	28
20 mm	29

a**blum**

Planning

Extra wide applications

Cross stabiliser from an internal cabinet width \ge 1190 mm or a cabinet width \ge 1228 mm

Cross stabiliser fixing



KB Cabinet width

LW Internal cabinet width



Find more information on assembly and adjustment of AVENTOS HL top at

www.blum.com/hltopassembly



KB Cabinet width

LW Internal cabinet width

SERVO-DRIVE for AVENTOS HL top



AVENTOS HK top

blum

Standard and SERVO-DRIVE



- Ideal for small applications in wall cabinets, tall cabinets and over the refrigerator
- Cabinet height 205-600 mm
- Cabinet width up to 1800 mm
- Soft and effortless closing thanks to BLUMOTION
- SERVO-DRIVE electrical motion support system
- Light operating forces
- Harmonious quality of motion with a variable stop
- Tool-free assembly
- Standardised position of the lift mechanism and front fixing bracket
- Symmetrical lift mechanism
- 3-dimensional front adjustment
- Simple, infinitely variable adjustment of the lift mechanism
- No hinges required
- Integrated safety mechanism
- Integrated infinitely variable opening angle stop

Standard SERVO-DRIVE

Ordering information

Note

Power factor (LF) =

cabinet height (KH) [mm] x front weight incl. double handle weight [kg]

We recommend the more powerful lift mechanism for applications in overlapping ranges. A trial application is recommended when you are in a borderline area of the individual lift mechanism.

The power factor (LF) can be increased by 50% if you use a third lift mechanism. We recommend a third lift mechanism for wide cabinets. This will prevent the front from sagging when open.

1		Lift mechanism se	t	
		Fixing with pre-mou	nted system screws	
	FAL	LF	ow	
		420–1610	75°–107°	22K2310
k		930–2800	75°–107°	22K2510
LØ		1730–5200	75°–107°	22K2710
		3200-9000	75°–107°	22K2910
Max	. front weight	18 kg if using two lift	mechanisms.	
LF	Power facto	r		
OW	Opening an	gle (infinitely variable	adjustment)	
Con	sisting of:			
1 2	2 x Symmet	trical lift mechanism		
	Incl. pre	e-mounted system scr	ews	

1			Lift mechanism set			
			Fixing with chipboard screws with positioning system			
Fa	Fø		LF	ow		
	For A		420–1610	75°-107°	22K2300	
			930–2800	75°-107°	22K2500	
		V.	1730–5200	75°–107°	22K2700	
			3200-9000	75°-107°	22K2900	
Ma	ax. fro	ont weigh	t 18 kg if using two lift	mechanisms.		
LF	Po	wer facto	r			
OV	N Op	pening an	gle (infinitely variable	adjustment)		
Co	onsis	ting of:				
1	2 x	Symme	trical lift mechanism			
		Incl. po	sitioning system			
-	8 x	Chipbo	ard screws Ø 4 x 35 n	nm		

Standard and SERVO-DRIVE

Ordering information



4			SERVO-DRIVE set			
			Colour	Colour Material		
, ,		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	TGR	К	23KA000	
Co	onsis	ting of:				
4a	1 x	Drive u	Drive unit			
4b	1 x	SERVO	-DRIVE distribution cable	e, 1500 mm		
4c	1 x	Connec	ting node			
4d	2 x	Cable e	end protector			
Fo dri	r thre ve ur	e lift mec iits	hanisms or more, we rec	ommend two synd	chronised	
We	We recommend one drive unit per set for connected fronts.					
5			SERVO-DRIVE power	supply unit and	accessories	
			···· · · · · · ·			

5	SERVO-DRIVE power supply unit and accessories
See page 56	

Optional

2c	Branding element			
(hlbras)	Material	Col	our	
Rellenn	К	SW-M, TGR	IN-G	
Printed *	2 x	ABD.1000.BL	ABD.1009.BL	
Embossed *	2 x	ABD.1000.BT	ABD.1009.BT	
Plain 2 x		ABD.1000	ABD.1009	
* With Blum logo				
From 1000 pcs:	From 1000 pcs:			
Customised, printed branding element				
From 5000 pcs:				
Customised, embossed branding element				

Colours and material

Name	Name		
SW	Silk white		
HGR	Light grey		
TGR	Dark grey		
SW-M	Silk white matt		
IN-G	In-mould brushed stainless steel		
К	Nylon		

EXPANDO T suitable for thin fronts - see page 54

blum

TIP-ON



- Ideal for small applications in wall cabinets, tall cabinets and over the refrigerator
- Cabinet height 205-600 mm
- Cabinet width up to 1800 mm
- Light operating forces
- Harmonious quality of motion with a variable stop
- Tool-free assembly
- Standardised position of the lift mechanism and front fixing bracket
- Symmetrical lift mechanism
- 3-dimensional front adjustment
- Simple, infinitely variable adjustment of the lift mechanism
- No hinges required
- Integrated safety mechanism
- Integrated infinitely variable opening angle stop
- TIP-ON for handle-less stay lifts
- For drilling or in combination with adapter plates

TIP-ON

Ordering information

Note

Power factor (LF) =

cabinet height (KH) [mm] x front weight incl. double handle weight [kg]

We recommend the more powerful lift mechanism for applications in overlapping ranges. A trial application is recommended when you are in a borderline area of the individual lift mechanism.

The power factor (LF) can be increased by 50% if you use a third lift mechanism. We recommend a third lift mechanism for wide cabinets. This will prevent the front from sagging when open.

1		Lift mechanism set for TIP-ON				1		Lift mechanism	set for TIP-ON	
		Fixing with pre-mou	inted system screws					Fixing with chipbo	ard screws with pos	itioning system
		LF	ow			LF	ow			
		420–1610	75°-107°	22K2310T			420–1610	75°-107°	22K23	
		930–2800	75°-107°	22K2510T		930–2800	75°-107°	22K25		
	129	1730–5200	75°–100°	22K2710T			1730–5200	75°–100°	22K27	
		3200-9000	75°-100°	22K2910T				3200-9000	75°-100°	22K29
Max. front weight 18 kg if using two lift mechanisms.					Max. front weight 18 kg if using two lift mechanisms.					
LF P	LF Power factor				LF Power factor					
OW C	Opening an	gle (infinitely variable	adjustment)		OW Opening angle (infinitely variable adjustment)					
Consi	sting of:					Consisti	ng of:			
1 2 x	1 2 x Symmetrical lift mechanism					1 2 x	Symme	trical lift mechanism	1	
Incl. pre-mounted system screws						Incl. po	sitioning system			
						- 8 x	Chipbo	ard screws Ø 4 x 35	mm	

22K2300T

22K2500T

22K2700T

22K2900T

TIP-ON

Ordering information 2 Cover cap set Colour Material SW, HGR, TGR Κ 22K8000 Consisting of: - 1 x Cover cap left 2b Cover cap right 1 x 2c 2 x Branding element, embossed with Blum logo IN-G Front fixing bracket set 3 Fixing method Version Wooden fronts and wide Screw-on 20\$4200 aluminium frames 2 Narrow 20S4200A Screw-on aluminium frames Consisting of: 3 2 x Front fixing bracket ¹ Use 4 chipboard screws (609.1x00) per side for wooden fronts. Use 4 countersunk self-tapping screws (660.0950) per side for wide aluminium frames. ² Incl. 8 x countersunk self-tapping screws – 660.0950 Front fixing bracket -**Fixing method** Version EXPANDO T 2 x 20S42T1 Thin fronts

EXPANDO T suitable for thin fronts - see page 54

4			TIP-ON set			
			Colour KH (mm)			
			SW, CS, R7036	Up to 600		
0	0		Version			
			Short version		956.1004	
KH Cabinet height						
Co	Consisting of:					
4a	1 x	TIP-ON 956. – short version with magnet				
4b	1 x	Screw-o	Screw-on catch plate			
4c	1 x	Chipboard screws Ø 3.5 x 15 mm, part no. 609.1500				
-	1 x	Glue-on catch plate Not suitable for powder-coated, waxed or oiled surfaces				

Accessories

5

	Adapter plate		
	Version	Colour	
	Straight adapter plate Short version	SW, CS, R7036, NI-L	956.1201
6	Cruciform adapter plate Long version	R7036	956A1501

Optional

2c	Branding element			
R.homi	Material	Colour		
Rollenn	К	SW-M, TGR	IN-G	
Printed *	2 x	ABD.1000.BL	ABD.1009.BL	
Embossed *	2 x	ABD.1000.BT	ABD.1009.BT	
Plain	2 x	ABD.1000	ABD.1009	
* With Blum logo				
From 1000 pcs:				
Customised, printed branding element				
From 5000 pcs:				
Customised, emb	ossed branding elemer	nt		

Colours and material

Name	
SW	Silk white
HGR	Light grey
TGR	Dark grey
R7036	RAL 7036 platinum grey
SW-M	Silk white matt
CS	Carbon black
NI-L	Nickel lacquered
IN-G	In-mould brushed stainless steel
К	Nylon

Standard, SERVO-DRIVE and TIP-ON

Planning





Minimum gap MF is 2 mm

Standard, SERVO-DRIVE and TIP-ON

Planning



Narrow aluminium frames



For frame width 19 mm, an SFA of 11-18 mm is possible.

* When changing material thickness, adjust the assembly

dimensions accordingly

SFA Side front overlay



Find more information on assembly and adjustment of AVENTOS HK top at

www.blum.com/hktopassembly

FAo Max. 25.4 mm FAo Upper front overlay

Further planning information for TIP-ON – see page 52

Ablum

SERVO-DRIVE for AVENTOS HK top

Planning



AVENTOS HK-S

blum

Standard and TIP-ON



- Ideal for small applications in wall cabinets, tall cabinets and over the refrigerator
- Cabinet height max. 600 mm
- Soft and effortless closing thanks to BLUMOTION
- Light operating forces
- Harmonious quality of motion with a variable stop
- Tool-free assembly
- 3-dimensional front adjustment
- Simple, infinitely variable adjustment of the lift mechanism
- No hinges required
- TIP-ON for handle-less stay lifts

Ordering information

Note

Power factor (LF) =

cabinet height (KH) [mm] x front weight incl. double handle weight [kg]

We recommend the more powerful lift mechanism for applications in overlapping ranges. A trial application is recommended when you are in a borderline area of the individual lift mechanism.

The power factor (LF) can be increased by 50% if you use a third lift mechanism.

1		Lift mechanism set				
1			LF	OW		
F			220–500	107° ¹	20K2B00.06	
F	Ì	- B	400–1000	107°	20K2C00.06	
an an	5	5	960–2215	107°	20K2E00.06	
¹ C	¹ One lift mechanism is unsprung					
LF	Po	wer facto	r			
OV	V Op	pening an	gle			
Co	nsis	ting of:				
1a	2 x	Symmetrical lift mechanism				
1b	2 x	Cover cap left/right				
		SW, HGR, TGR				
1c	2 x	Brandin	g element, embossed	d with Blum logo		
		IN-G				
-	6 v	Chinhos	ard screw Ø 4 x 35 m	m		

1			Lift mechanism se	et for TIP-ON		
T			LF	ow		
F			220-500	107° ¹	20K2B00T06	
F	Ŋ	- 39	400-1000	107°	20K2C00T06	
and the second	5	.9	960–2215	107°	20K2E00T06	
¹ C	ne lif	it mechar	ism is unsprung			
LF	LF Power factor					
OV	V Op	pening an	gle			
Co	onsis	ting of:				
1a	2 x	Symmetrical lift mechanism				
1b	2 x	Cover cap left/right				
		SW, HGR, TGR				
1c	2 x	x Branding element, embossed with Blum logo				
		IN-G				
-	6 x	Chipboard screw Ø 4 x 35 mm				

Standard and TIP-ON

Ordering information

2	Front fixing bracket				
	Version	Fixing metho	bd		
	Wooden fronts 1 and wide aluminium frames	Screw-on	2 x	175H3100	
~	Wooden fronts	EXPANDO	2 x	177H3100E	
		Knock-in	2 x	177H3100	

Spacing 0 mm

All horizontal steel mounting plates with 0 mm spacing possible

¹ Use 2 chipboard screws (609.1x00) per side for wooden fronts. Use 2 countersunk self-tapping screws (660.0950) per side for wide aluminium frames.

-			Front fixing bracket set				
THE ROAD			Version	Fixing	method		
		and a	Narrow aluminium frames	Screw-on		20K4A00A02	
Sp	Spacing 0 mm						
Co	nsis	ting of:					
-	2 x	Front fix	king bracket				
-	4 x	Counter	Countersunk self-tapping screw – Ø 3.5 mm				
3			TIP-ON Set				
07			Colour KH (mm)				
		1	SW, CS, R7036 Up to 600				
			Version				
	÷.,		Short version		956.1004		
KH	I Ca	binet hei	ght				
Co	nsis	ting of:					
3a	1 x	TIP-ON 956. – short version with magnet					
3b	1 x	Screw-o	Screw-on catch plate				
3c	1 x	Chipboard screws Ø 3.5 x 15 mm, part no. 609.1500					
-	1 x Glue-on catch plate Not suitable for powder-coated, waxed or oiled surfaces						

Accessories

4 🔳	Adapter plate				
	Version	Colour			
00	Straight adapter plate Short version	SW, CS, R7036, NI-L	956.1201		
26	Cruciform adapter plate Long version		956A1501		
	Opening angle stop				
	Opening angle	Colour			
	100°	TGR	20K7A41		
~	75°	R7037	20K7A11		

Optional

1c	Branding element				
(Albras)	Material	Colour			
Rollsing	К	SW-M, TGR	IN-G		
Printed *	2 x	ABD.1000.BL	ABD.1009.BL		
Embossed *	2 x	ABD.1000.BT	ABD.1009.BT		
Plain	2 x	ABD.1000	ABD.1009		
* With Blum logo					
From 1000 pcs:					
Customised, printed branding element					
From 5000 pcs:					
Customised, emb	Customised, embossed branding element				

Colours and material

Name	
SW	Silk white
HGR	Light grey
TGR	Dark grey
R7036	RAL 7036 platinum grey
SW-M	Silk white matt
CS	Carbon black
NI-L	Nickel lacquered
IN-G	In-mould brushed stainless steel
К	Nylon

(blum

Standard and TIP-ON

Planning





* Min. 240 mm with visible wall hanging bracket

Note: Cabinet height max. 600 mm

LH Internal cabinet height

Standard and TIP-ON

Planning







- SOB Top panel thickness
- SFA Side front overlay
- F Gap

Narrow aluminium frames



For frame width 19 mm, an SFA of 11-18 mm is possible.

* When changing material thickness, adjust the assembly dimensions accordingly

SFA Side front overlay



Space requirement – cornice | crown moulding



Opening angle stop			Space requirement (mm)		
Unsprung			Y = FH x 0.29 - 15 + FD		
100°			Y = FH x 0.17 - 15 + FD		
75°			A = FH x 0.26 + 15 - FD		
FD (mm) 16 19		22	26	-	
X (mm) 70 59		49	35	-	
FD Front thickness					
FH Fron	height				

Ablum

Standard and TIP-ON

Planning



Minimum gap MF is 2 mm



Find more information on assembly and adjustment of AVENTOS HK-S at

www.blum.com/aventos-hks-assembly

Further planning information for TIP-ON – see page 52

AVENTOS HK-XS



blum

Standard and TIP-ON



Ordering information

Note

Power factor (LF) =

cabinet height (KH) [mm] x front weight incl. double handle weight [kg]

We recommend the more powerful lift mechanism for applications in overlapping ranges. A trial application is recommended when you are in a borderline area of the individual lift mechanism.

1	Lift mechanism			
9	LF	ow		
Ì	200–1000 1	105°	20K1101	
	500–1500 ¹	105°	20K1301	
6	800–1800 1	105°	20K1501	
The power factor (LF) is doubled when used on both sides				
¹ For hinges with smaller opening angles, the opening angle will depend on the hinge used				
LF Power factor				
OW Opening angle				

1	Lift mechanism for TIP-ON			
Ą	LF	ow		
	180-800 1	105°	20K1101T	
	500–1200 ¹	105°	20K1301T	
	800–1600 1	105°	20K1501T	

The power factor (LF) is doubled when used on both sides

- ¹ For hinges with smaller opening angles,
- the opening angle will depend on the hinge used

LF Power factor

OW Opening angle

- Ideal for small applications in wall cabinets, tall cabinets and over the refrigerator
- Cabinet height 240-600 mm
- Internal cabinet depth min. 125 mm
- An internal cabinet depth of 100 mm or more is possible if you use a special drilling position
- Symmetrical lift mechanism, can be used on one or both sides
- Closes softly and effortlessly in conjunction with CLIP top BLUMOTION hinges
- TIP-ON for handle-less stay lifts with CLIP top unsprung hinges
- Light operating forces
- Harmonious quality of motion with a variable stop
- Simple, infinitely variable adjustment of the lift mechanism

Standard and TIP-ON

Ordering information

2	Cabinet fixing		
	Fixing method		
- Al	Screw-on		20K5101
S	EXPANDO		20K51E1
3	Front fixing brack	et	
a	Version	Fixing method	
40	Wooden fronts and wide aluminium frames	Screw-on 1	20K4101
	Wooden fronts	EXPANDO	20K41E1
	Narrow aluminium frames	Screw-on	20K4101A
4	CLIP top BLUMOT	ION 110° hinge	
	Boss	Spring	

	Boss	Spring	
100	INSERTA	With spring	71B3590
	Screw-on 1	With spring	71B3550

3 hinges starting at cabinet width KB 900 mm and/or power factor LF 1800

4 hinges starting at cabinet width KB 1200 mm and/or power factor LF 2700

Alternative

CLIP top BLUMOTION hinges: 107°, profile/thick door, 95° aluminium frame door hinge or CLIP top hinges: 107°, profile/thick door, 95° aluminium frame door hinge in combination with BLUMOTION 973A - for clip on and/or CLIP hinges: 100°

4	CLIP top 110° hinge		
	Boss	Spring	
and the second se	INSERTA	Unsprung	70T3590.TL
•	Screw-on 1	Unsprung	70T3550.TL
2 bingos starting	at aphinat width KB 000 m	am and/or powor	factor LE 1800

3 hinges starting at cabinet width KB 900 mm and/or power fa

4 hinges starting at cabinet width KB 1200 mm and/or power factor LF 2700

Alternative

CLIP top hinges: 107°, profile/thick door, 95° aluminium frame door hinge and/or CLIP 100° (each hinge unsprung)

5	Mounting plate								
A street	Fixing method	Spacing (mm)							
	Screw-on 1	0	175H3100						
~	EXPANDO	0	177H3100E						

Standard mounting plates, spacing depends on the top gap

3			TIP-ON set							
	1		Colour	Colour KH (mm)						
			SW, CS, R7036	Up to 600						
0	<u> </u>		Version	Version						
	7		Short version	956.1004						
KF	l Ca	abinet hei	ght							
Co	onsis	ting of:								
3a	1 x	TIP-ON	956. – short version with mag	gnet						
3b	1 x	Screw-o	on catch plate							
3c	1 x	Chipboard screws Ø 3.5 x 15 mm, part no. 609.1500								
-	1 x	Glue-or Not suit	acatch plate able for powder-coated, waxe	d or oiled su	rfaces					

Accessories

7	Adapter plate		
	Version	Colour	
0	Straight adapter plate Short version	SW, CS, R7036, NI-L	956.1201
26	Cruciform adapter plate Long version		956A1501
-	Opening angle stop		
	Opening angle	Colour	
K	86°	SZ	70T3553

For CLIP top BLUMOTION 110° | CLIP top 110° hinge

Colours and material

Name	
SW	Silk white
SZ	Black
R7036	RAL 7036 platinum grey
CS	Carbon black
NI-L	Nickel lacquered

¹ Use 2 chipboard screws (609.1x00) per side for wooden fronts. Use 2 countersunk self-tapping screws (660.0950) per side for wide aluminium frames.

Ablum

Standard and TIP-ON

Planning



- H = 137 + MD + K + SOB
- MD Mounting plate spacing
- K Cranking of hinge arm
- Straight hinge arm 0 mm

Cranked hinge arm 9.5 mm

Double cranked arm 18 mm

- SOB Top panel thickness
- () Internal cabinet depth 100 mm

Space requirement





- * Min. 200 mm with visible wall hanging bracket
- () Internal cabinet depth 100 mm



Standard and TIP-ON

Planning

Front assembly





- FAo Upper front overlay
- SFA Side front overlay
- MD Mounting plate spacing
- K Cranking of hinge arm
 - Straight hinge arm 0 mm
 - Cranked hinge arm 9.5 mm
- Double cranked arm 18 mm
- () Internal cabinet depth 100 mm

Narrow aluminium frames



For frame width 19 mm, an SFA of 11-18 mm is possible.

* When changing material thickness, adjust the assembly dimensions accordingly

SFA Side front overlay

Ivano	w aluminum names
	EV EV EV EV EV EV EV EV EV EV EV EV EV E
FAo	Upper front overlay
SFA	Side front overlay
MD	Mounting plate spacing
K	Cranking of hinge arm
	Straight hinge arm 0 mm
	Cranked hinge arm 9.5 mm
	Double cranked arm 18 mm
()	Internal cabinet depth 100 mm



NI.

.



CLIP top BLUMOTION 110° hinge										
FD (mm)	16	19	22	24						
X (mm)	45	34	23	15						
ED Front this/mass										

FD Front thickness

a**blum**

Standard and TIP-ON

Planning



 $\ensuremath{\mathsf{MFo}}$ $\ensuremath{\mathsf{Minimum}}$ gap at the top depending on the hinge used

MFu Minimum gap at the bottom 1.5 mm

Minimum gap F for fronts with a front radius (R = 1 mm) based on the factory setting

		Front thickness FD (mm)											
	Boss drilling distance TB (mm)	16	18	19	20	21	22	23	24	25	26	28	30
	3	0.5	0.8	1.0	1.2	1.5	1.8	2.2	2.7	3.5	4.3	Δ	Δ
	4	0.5	0.8	1.0	1.2	1.4	1.7	2.0	2.5	3.1	3.8	Δ	Δ
	5	0.5	0.8	0.9	1.2	1.4	1.7	2.0	2.4	2.9	3.4	Δ	Δ
	6	0.5	0.8	0.9	1.2	1.3	1.6	1.9	2.3	2.7	3.2	Δ	Δ
	7	0.5	0.8	0.9	1.1	1.3	1.6	1.9	2.2	2.6	3.0	Δ	Δ
	△ A trial application is	For +2 mm height adjustment, add:											
	recommended	+0.2	+0.4	+0.4	+0.5	+0.5	+0.5	+0.5	+0.5	+0.5	+0.5		

Screw-on assembly



INSERTA assembly







Further planning information for TIP-ON - see page 52



Find more information on assembly and adjustment of AVENTOS HK-XS at

www.blum.com/aventos-hkxs-assembly

Overlay application with CLIP top BLUMOTION 110° | CLIP top 110°

Hinge dimensions and gap calculation based on factory setting (mounting plate spacing = 0 mm) Front protrusion at full opening angle



- F Gap
- FAo Upper front overlay
- TB Boss drilling distance

Boss drilling distance TB

۵	Front overlay FA (mm)													
Σ	5	6	7	8	9	10	11	12	13	14	15	16	17	18
0										3	4	5	6	7
3							3	4	5	6	7			
6				3	4	5	6	7						
9	3	4	5	6	7									
MD	Mounting plate spacing (mm)													

TIP-ON

Planning







Installation dimensions for front gap



min. 2.6 mm with glue-on catch plate

() min. 3.1 mm with screw-on catch plate

Ablum

TIP-ON

Planning



53

EXPANDO T



- EXPANDO T pre-assembled fixing system
- Thin fronts of 8 mm or more
- Different front materials
- 3 different applications -

lift systems | hinge systems | box systems



Fixing positions as per the details in the respective planning information



- ES Min. 4 mm
- ES Max. drilling depth 0.5 mm
- * Stone and ceramic +0.2/-0.1 mm

Screws with M4 thread have to be used for EXPANDO T single

Select the lowest possible drilling depth to suit the screw length when using the single dowel

Area of application and assembly recommendation

EXPANDO T is suitable for fixing Blum fittings to thin cabinet fronts of all types of materials. Front materials can be just 8 mm thick or more, provided they are sufficiently stable and strong.
 EXPANDO T - single

 Colour
 Material

 Dark grey
 Nylon/steel
 70T4532T



Materials tested by Blum	Nm
Chipboard (transverse tensile strength > 0.4 N/mm ²)	1.5
MDF (transverse tensile strength > 0.6 N/mm ²)	1.5
HDF	2
HPL	2
Mineral composites	2
Granite stone – nero assoluto	3
Artificial stone – quartz composite	3
Ceramic panels	3



Find more information on assembly and adjustment of EXPANDO T at www.blum.com/expando-t-9

Nm Minimum tightening torque

Limitation of liability

Blum accepts no liability for the use of EXPANDO T in combination with materials not listed or fittings from other manufacturers. It is recommended that assembly be carried out by an experienced furniture manufacturer.

a**blum**

Assembly devices



55

SERVO-DRIVE power supply unit and accessories

SERVO-DRIVE for AVENTOS HF top, HS top, HL top



SERVO-DRIVE for AVENTOS HK top



blum

SERVO-DRIVE power supply unit and accessories

Ordering information

SERVO-DRIVE power supply unit incl. flex										
No. 1										
	No start and sta									
and the second se										
Ма	rket	Language package		Market	Language package					
I	E	Α	Z10NE04EA	I	Α	Z10NE04IA				
I	E	В	Z10NE04EB	к	I	Z10NE04KI				
I	E	С	Z10NE04EC	N	н	Z10NE04NH				
I	E	D	Z10NE04ED	R	н	Z10NE04RH				
I	E	Е	Z10NE04EE	S	к	Z10NE04SK				
I	E	F	Z10NE04EF	т	н	Z10NE04TH				
1	E	I	Z10NE04EI	U	G	Z10NE04UG				
I	в	Α	Z10NE04BA	U	J	Z10NE04UJ				
I	в	I.	Z10NE04BI	z	I.	Z10NE04ZI				
I	н	I.	Z10NE04HI							
Co	nsist	ing of:								
1a	1 x	SERVO-D	RIVE power supply	/ unit						
		Incl. opera	ating and installatio	n instructio	ons					
1b	1 x	Flex								
		Length 1.5	5–1.8 m, incl. plug							
De			h a contra a							
Po	wers	supply unit	nousing							
			Colour	Material						
-	~~~		VGR	К		210NG120				
For	r SEH	VO-DRIVE	power supply unit							
SE	RVO	DRIVE plu	g-in power suppl	y unit						
On	ly su	itable for c	one drive unit							
Ма	rket	Language package		Market	Language package					
	E	Α	중 Z10NA40EA	Е	F	중 Z10NA40EF				
I	E	В	ත Z10NA40EB	В	Α	ත Z10NA40BA				
I	E	с	ත Z10NA40EC	к	I.	ත Z10NA40KI				
I	E	D	ත Z10NA40ED	N	н	ଟ୍ଟ Z10NA40NH				
	E	Е	ත Z10NA40EE	U	G	ଟ୍ଟZ10NA40UG				
T	Item	available o	n request							

Consisting of:

- 1 x SERVO-DRIVE plug-in power supply unit

Incl. cable, 1120 mm

(with SERVO-DRIVE distribution cable extendible to max. 2000 mm) Incl. operating and installation instructions

Accessories

.

SERVO-DRIVE distribution cable and cable end protector

N		0	Colour	Lengt	n (m)						
			SZ	8		Z10K800AE					
Co	Consisting of:										
la	1 x	SERVO	SERVO-DRIVE distribution cable								
ŀb	5 x	Cable e	end protector								

For cutting to size

Connecting node and cable end protector

			Colour	Material	
		3	SZ	К	Z10V100E.01
Consisting of:					
4a	1 x	Connec	Connecting node		
4b	2 x	Cable e	ble end protector		
Са	Cable holder				

	Colour	Material			
	WS	К	Z10K0009		

E.g. for fixing the SERVO-DRIVE distribution cable

Markets and language packages

Name				
Markets		Language packages*		
Е	Europa	Α	DE, EN, FR, IT, NL	
в	UK	в	DA, EN, FI, NO, SV	
н	IN	С	EL, EN, HR, SR, SL, TR	
Т	IL	D	EN, ES, FR, IT, PT	
к	AU	Е	CS, HU, PL, SK	
Ν	CN	F	BG, ET, LV, LT, RO, RU, UK	
R	KR	G	EN, ES, FR	
s	BR	н	EN, ZH, KO	
т	TW	Т	EN	
U	US CA JP	J	JA	
z	ZA	к	EN, ES, PT	

* Language descriptions as per ISO-639

Colours and material

Name			
WGR	White grey		
SZ	Black		
WS	White		
К	Nylon		

SERVO-DRIVE power supply unit and accessories

Planning



Deele	la ll'	
васк	capiing	
Duon	Jubillio	

Buok oubling						
				X (mm)	Y (mm)	
	AVENTOS HF top	Cabinet height KH (mm)	480–519	38.5	102	
			520-1200	38.5	124	
	AVENTOS HS top			38.5	45	
	AVENTOS HL top			38.5	71	

blum

SERVO-DRIVE power supply unit and accessories

Planning









Find more information on assembly and adjustment of SERVO-DRIVE for AVENTOS top at

www.blum.com/servodrive-aventos-assembly



All content is copyrighted by Blum. Subject to technical modifications and changes to the range without notice. IDNR: 504.331.9 · EP-609/2 EN-AL/06.24

Julius Blum GmbH 6973 Höchst, Austria Tel.: +43 5578 705-0 Fax: +43 5578 705-44 E-mail: info@blum.com www.blum.com

Our sites in Austria, Poland and China are certified to the international standards mentioned belo Our site in the USA is certified to ISO 9001. Our site in Brazil is certified to ISO 9001, ISO 14001 and ISO 45001.









