

AVENTOS HS

Up and over lift system



Ablum

AVENTOS HS



Blum, Inc. is a leading manufacturer of functional hardware for the kitchen cabinet and commercial casegoods industries specializing in lift systems, concealed hinges and drawer runner systems. Virtually all of the hardware needed to assemble and make cabinets functional are available within the wide range of quality Blum products.

Blum's manufacturing and distribution facility in Stanley, North Carolina supplies the North American markets through a network of more than 150 dependable distributors. Wholly owned by the Blum family, the company was formed in 1952 by Julius Blum and is headquartered in Hoechst, Austria.

Global customer benefits

Product development at Blum considers all of the various customers who will come in contact with our products. With this "Global



Customer Benefits" philosophy we strive to create advantages for all users from the manufacturer to the end consumer.



lum, Inc. is ISO 900 ertified which mean nat you are assured o onsistent quality in ever

Blum product. What's more they exceed the requirements of ANSI-BHMA standards for cycle life, static load and self-closing performance. Contact your local Blum representative for more details.

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Opening action – easier than ever

AVENTOS HS provides comfort of motion that is sure to impress. Even heavy doors can be opened effortlessly, and thanks to BLUMOTION, come to a gentle halt. The variable stop ensures that the door always remains in the desired position, so the handle will always be within reach. Its elegant yet simple design makes it easy to integrate the up and over lift hardware into the cabinet. The high-quality cover caps for AVENTOS HS give the cabinet interior a modern look.



Silent and effortless closing – integrated BLUMOTION



Regardless of how heavy the door or whether it's closed with force, it will open and close silently and effortlessly every time.

- **BLUMOTION on AVENTOS HS provides:**
- Doors swing downward ...
- ▶ ... are brought to a gentle halt and ...
- ... close silently and effortlessly.



Overview



Few parts – many applications

AVENTOS HS covers all common door widths and heights with just one simple program with nine different lift mechanisms and only one arm assembly set. This enables you to offer the right combination for most size and door weights. The symmetrical lift mechanism can be used on the left or right. This trim product line simplifies ordering, planning and warehousing. AVENTOS HS is suitable for cabinet widths up to 48 inches and for cabinet heights from 13-3/4 to 32 inches. Two lift mechanisms plus the stabilizer rod and associated arm assembly are used for each cabinet width.





Fast assembly and removal

An experienced kitchen installer will remove the door when mounting a wall cabinet. This protects surfaces and makes the cabinet lighter. With AVENTOS HS, the door can be removed simply and quickly via the integrated CLIP technology.

In this way, the cabinet can be quickly, easily and securely attached to the wall for the final assembly. Assembly into the cabinet takes just a few steps:



The lift mechanism is attached. When installing the lever arm HS requires no tools.



The symmetrical mounting plate is attached to the door.



The arm assembly and the door are connected via the CLIP mechanism.





in the down position

side stability.

- Remove arm assembly from mechanism before installing or removing from cabinet For questions or more detailed instructions. call 1-800-438-6788 or www.blum.com

Fast and precise adjustment

The door can be adjusted by hand in three dimensions. This enables you to carry out width, height and tilt adjustments quickly and easily on site - for perfect door alignment.



The 3-dimensional adjustment feature enables doors to be precisely positioned.

Lift mechanisms can be adjusted to the respective door weight.

Extremely durable

Blum is dedicated to quality. Your customers will recognize this with AVENTOS HS. The core element of the lift mechanism is a robust spring assembly that is very durable.



BLUMOTION – Closing

No protruding parts

There are no protruding parts thanks to the removable arm assembly on AVENTOS HS. This provides improved safety for cabinet manufacturing, transport and installation.





Crown molding clearance

When developing the AVENTOS HS up and over lift mechanism, we also took into account cabinets equipped with projecting elements (such as cornice or lighting). This gives you more room for design during kitchen planning.





Similar shelves

With AVENTOS HS, storage space is optimized in wall cabinets. Even smaller wall cabinets can be arranged with regular shelves without coming into contact with the hardware.



Using this catalog

Step 1: Determine required hardware

Use the chart on page 8 to find the proper lift mechanism based on the height of the cabinet and weight of the door. Go to the page for your application: face frame, panel or narrow aluminum door. The required stabilizer rod and hardware set are listed on these pages.

Cabinet height		Door weight - Ib / oz		
inch			20S1H00.NA	20S1I00.NA
	676 - 684	7/11 - 17/0	17/1 - 29/7	29/8 - 47/5
27	685 - 689	7/11 - 17/0	17/1 - 28/13	28 / 14 - 47 / 5
	690 - 694	7/11 - 16/7	16 / 8 - 28 / 13	28 / 14 - 47 / 5
	695 - 704	7/11 - 16/7	16/8 - 28/11	28/12-47/5
	705 - 709	7/11 - 16/7	16/8 - 28/8	28/9 - 47/5
28	710 - 714	7/11 - 16/7	16/8 - 28/8	28/9 - 46/11
	715 - 724	7/11 - 16/0	16/1 - 28/0	28 / 1 - 46 / 11
	725 - 729	7/11-16/0	16/1 - 28/0	28/1 - 46/3
	730 - 734	7/11 - 16/0	16 / 1 · 27 / 15	28/0 - 46/3
29	735 - 739	7 / 11 - 15 / 15	16/0 - 27/15	28/0 - 45/10
	740 - 744	7/11 - 15/8	15/9 - 27/7	27 / 8 - 45 / 10
	745 - 749	7/11 - 15/8	15/9 - 27/5	27/6 - 45/2
	750 - 754	8/4 - 15/8	15/9 - 27/5	27/6 - 45/2
	755 - 759	8/4 - 15/8	15/9 - 27/3	27/4 - 45/2
30	760 - 764	8/4 - 15/8	15/9 - 27/0	27/1 - 44/8
	765 - 769	8/4 - 15/8	15/9 - 26/10	26 / 11 - 44 / 8
	770 - 774	8/4 · 14/15	15/0 - 26/10	26 / 11 - 44 / 8
	775 - 779	8 / 12 - 14 / 15	15/0 - 26/10	26 / 11 - 44 / 8
	780 - 784	8 / 12 - 14 / 15	15/0 - 26/8	26/9 - 44/8

h Stabilizer rod
Cut to length Length – Interior cabinet opening - 120 mm Auminum Part no.
1061 mm (41-7/8") 2001061U
g Wood/wide aluminum door hardware set
Set includes: a 2 x 2054200 Wood wide aluminum mounting plate b 2 x 2054701 Wood wide aluminum mounting plate with bracket 10 x 6080 Wood door screws for 2054200 10 x 698 110 Aluminum door screws for wide or narrow aluminum doors POZI #2x2 driver bit for adjusting tension
Part no.

Step 2: Determine mounting location for lift mechanism

Use the diagrams on the top of the right hand page of your application to determine the lift mechanism locating hole positions. Pre-bore these holes in the cabinet side and attach the lift mechanism as shown.

NOTE: For face frame applications, cabinet sides must be blocked out flush with face frame opening.

Step 3: Determine required mounting plates and mounting locations

Determine the necessary mounting plates based on application and use the diagram on the right hand page of your application to determine their mounting location. Attach the mounting plates based on this location.





Step 4: Assemble cabinet

Turn to pages 17 and 18 for assembly
instructions.AssemblyConstructionsConstruction



Determining required lift mechanism

Each chart covers three different lift mechanisms (9 total). To determine the required lift mechanism set for any application, find the cabinet height down the left side of the charts (in inch or mm), then go across to the range that contains the weight of

Cabi	net height	Door weight - Ib / oz		
inch	mm	20S1A00.NA	20S1B00.NA	20S1C00.NA
14	349 - 359	4 / 6 - 10 / 5	10 / 6 - 20 / 11	20 / 12 - 23 / 2
	360 - 364	4 / 6 - 10 / 5	10 / 6 - 20 / 11	20 / 12 - 23 / 10
	365 - 374	4 / 6 - 10 / 5	10 / 6 - 20 / 3	20 / 4 - 23 / 3
15	375 - 384	4 / 6 - 10 / 5	10 / 6 - 20 / 3	20 / 4 - 24 / 11
	385 - 389	4 / 6 - 10 / 5	10 / 6 - 20 / 3	20 / 4 - 24 / 5
	390 - 394	4 / 6 - 10 / 5	10 / 6 - 19 / 10	19 / 11 - 25 / 5
	395 - 399	4 / 6 - 10 / 5	10 / 6 - 19 / 10	19 / 11 - 25 / 13
16	400 - 409	5 /0 - 9 /11	9 / 12 - 19 / 10	19 / 11 - 26 / 7
	410 - 414	5 /0 - 9 /11	9 / 12 - 19 / 10	19 / 11 - 26 / 15
	415 - 424	5 /0 - 9 /11	9 / 12 - 19 / 2	19 /3 - 27 /8
17	425 - 434	5 /0 - 9 /11	9 / 12 - 19 / 2	19 / 3 - 28 / 0
	435 - 439	5 /0 - 9 /11	9 / 12 - 19 / 2	19 / 3 - 28 / 10
	440 - 444	5 /0 - 9 /11	9 / 12 - 18 / 8	18 / 9 - 28 / 10
	445 - 449	5 /0 - 9 /11	9 / 12 - 18 / 8	18 /9 - 29 /2
18	450 - 459	5 /0 - 9 /3	9 /4 - 18 /8	18 / 9 - 29 / 11
	460 - 464	5 /0 - 9 /3	9 /4 - 18 /0	18 / 1 - 30 / 3
	465 - 469	5 /8 - 9 /3	9 / 4 - 18 / 0	18 / 1 - 30 / 3
	470 - 474	5 /8 - 9 /3	9 /4 - 18 /0	18 / 1 - 30 / 13
	475 - 479	5 /8 - 9 /0	9 / 1 - 17 / 7	17 / 8 - 30 / 13
19	480 - 489	5 /8 - 9 /0	9 / 1 - 17 / 7	17 /8 - 31 /5
	490 - 494	5 /8 - 9 /0	9 / 1 - 17 / 7	17 / 8 - 31 / 15
	495 - 499	5 /8 - 9 /0	9 / 1 - 16 / 15	17 / 0 - 31 / 15
20	500 - 514	5 /8 - 8 /8	8 / 9 - 16 / 15	17 / 0 - 32 / 7
	515 - 519	5 /8 - 8 /8	8 /9- 16 /5	16 / 6 - 32 / 7
	520 - 525	5 /8 - 8 /8	8 /9- 16 /5	16 / 6 - 33 / 0



your door in pounds and ounces. Follow that column to the top orange box to get the part number for the lift mechanism set required for your application.

NOTE: Pounds are in **bold**, part numbers in **ORANGE**

Cabinet height		Door weight - Ib / oz		
inch	mm	20S1D00.NA	20S1E00.NA	20S1F00.NA
21	526 - 539	6 / 9 - 14 / 8	14 / 9 - 27 / 7	27 / 8 - 36 / 13
	540 - 544	6 / 9 - 14 / 0	14 / 1 - 27 / 7	27 / 8 - 37 / 7
	545 - 554	6 / 9 - 14 / 0	14 / 1 - 26 / 15	27 / 0 - 37 / 15
22	555 - 559	6 / 9 - 14 / 0	14 / 1 - 26 / 15	27 / 0 - 38 / 8
	560 - 564	6 / 9 - 14 / 0	14 / 1 - 26 / 5	26 / 6 - 38 / 8
	565 - 574	6 / 9 - 13 / 7	13 / 8 - 26 / 5	26 / 6 - 39 / 0
23	575 - 584	6 / 9 - 13 / 7	13 / 8 - 25 / 13	25 / 14 - 39 / 10
	585 - 589	6 / 9 - 13 / 7	13 / 8 - 25 / 11	25 / 12 - 40 / 2
	590 - 594	6 / 9 - 12 / 15	13 / 0 - 25 / 11	25 / 12 - 40 / 2
24	595 - 614	6 / 9 - 12 / 15	13 / 0 - 25 / 2	25 / 3 - 40 / 11
	615 - 634	6 / 9 - 12 / 8	12 / 9 - 24 / 10	24 / 11 - 41 / 3
25	635 - 639	6 / 9 - 11 / 15	12 / 0 - 24 / 10	24 / 11 - 41 / 3
	640 - 649	6 / 9 - 11 / 15	12 / 0 - 24 / 0	24 / 1 - 41 / 3
26	650 - 664	6 / 9 - 11 / 15	12 / 0 - 24 / 0	24 / 1 - 41 / 13
	665 - 675	6 /9 - 11 /7	11 / 8 - 23 / 8	23 / 9 - 41 / 13

Cabinet height		D	oor weight - lb /	oz
inch	mm	20S1G00.NA	20S1H00.NA	20S1I00.NA
	676 - 684	7 / 11 - 17 / 0	17 /1 - 29 /7	29 / 8 - 47 / 5
27	685 - 689	7 / 11 - 17 / 0	17 / 1 - 28 / 13	28 / 14 - 47 / 5
	690 - 694	7 / 11 - 16 / 7	16 / 8 - 28 / 13	28 / 14 - 47 / 5
	695 - 704	7 / 11 - 16 / 7	16 / 8 - 28 / 11	28 / 12 - 47 / 5
	705 - 709	7 / 11 - 16 / 7	16/8 - 28/8	28 /9 - 47 /5
28	710 - 714	7 / 11 - 16 / 7	16 / 8 - 28 / 8	28 / 9 - 46 / 11
	715 - 724	7 / 11 - 16 / 0	16 / 1 - 28 / 0	28 / 1 - 46 / 11
	725 - 729	7 / 11 - 16 / 0	16 / 1 - 28 / 0	28 / 1 - 46 / 3
	730 - 734	7 / 11 - 16 / 0	16 / 1 - 27 / 15	28 / 0 - 46 / 3
29	735 - 739	7 / 11 - 15 / 15	16 / 0 - 27 / 15	28 / 0 - 45 / 10
	740 - 744	7 / 11 - 15 / 8	15 /9 - 27 /7	27 / 8 - 45 / 10
	745 - 749	7 / 11 - 15 / 8	15 /9 - 27 /5	27 /6 - 45 /2
	750 - 754	8 / 4 - 15 / 8	15 /9 - 27 /5	27 /6 - 45 /2
	755 - 759	8 / 4 - 15 / 8	15 /9 - 27 /3	27 / 4 - 45 / 2
30	760 - 764	8 / 4 - 15 / 8	15 /9 - 27 /0	27 / 1 - 44 / 8
	765 - 769	8 / 4 - 15 / 8	15 / 9 - 26 / 10	26 / 11 - 44 / 8
	770 - 774	8 / 4 - 14 / 15	15 / 0 - 26 / 10	26 / 11 - 44 / 8
	775 - 779	8 / 12 - 14 / 15	15 / 0 - 26 / 10	26 / 11 - 44 / 8
	780 - 784	8 / 12 - 14 / 15	15 / 0 - 26 / 8	26 / 9 - 44 / 8
31	785 - 789	8 / 12 - 14 / 15	15 / 0 - 26 / 8	26 /9 - 44 /8
	790 - 800	8 / 12 - 14 / 13	14 / 14 - 25 / 15	26 / 0 - 44 / 0



Wood or wide aluminum door for face frame applications



Determine required parts

To determine the required lift mechanism set for any application, see the chart on page 8. The lift mechanism is determined by finding the cabinet height and door weight in the chart.

There is one hardware set containing the parts for wood and wide aluminum frame applications. The stabilizer rod is required for all applications.

NOTE: Face frame cabinets must be blocked out flush with the frame on the sides to mount the AVENTOS HS lift mechanisms.

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Lift mechanism chart	page 8
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Required parts

a thru f Lift mechanism set	h Stabilizer rod
Set includes: a 2 x Lift mechanisms	Cut to length Length = Interior cabinet opening - 120 mm Aluminum Part no.
 b 2 x Cover plates (right and left) c 2 x Cover caps d 2 x Arm assembly (right and left) e 2 x Stabilizer rod cover caps 	9 Wood/wide aluminum door hardware set
 f 2 x Stabilizer rod adapters 10 x #7x35mm (1-3/8") wood screws 	Set includes:
	 g 2 x 20S4200 Wood/wide aluminum mounting plate g 2 x 20S4F01 Wood/wide aluminum mounting plate with bracket
NOTE: To determine required lift mechanism, see page 8.	22 x 606P Wood door screws for 20S4200* 18 x 7072A Aluminum door screws for mounting plates* POZI #2x2 driver bit for adjusting tension
20S1A00.NA 20S1B00.NA 20S1C00.NA	* only 8 screws required
20S1D00.NA 20S1E00.NA 20S1F00.NA 20S1G00.NA 20S1H00.NA 20S1I00.NA	Part no. Hardware set 20S4200.S1



Installation





Wood or wide aluminum door for panel applications



Determine required parts

To determine the required lift mechanism set for any application, see the chart on page 8. The lift mechanism is determined by finding the cabinet height and door weight in the chart.

There is one hardware set containing the parts for wood and wide aluminum frame applications. The stabilizer rod is required for all applications.

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Required parts

a thru f Lift mechanism set	h Stabilizer rod
 Set includes: a 2 x Lift mechanisms b 2 x Cover plates (right and left) c 2 x Cover caps 	Cut to length Length = Interior cabinet width -120 mm Aluminum Part no. 1061 mm (41-7/8") 20Q1061U
 d 2 x Arm assembly (right and left) e 2 x Stabilizer rod cover caps f 2 x Stabilizer rod adapters 10 x #7x35mm (1-3/8") wood screws 	g Wood/wide aluminum door hardware set Set includes:
NOTE: To determine required lift mechanism, see page 8	 9 2 x 20S4200 Wood/wide aluminum mounting plate 9 2 x 20S4F01 Wood/wide aluminum mounting plate with bracket 22 x 606P Wood door screws for 20S4200* 18 x 7072A Aluminum door screws for wide frame aluminum doors* POZI #2x2 driver bit for adjusting tension
20S1A00.NA 20S1B00.NA 20S1C00.NA 20S1D00.NA 20S1E00.NA 20S1F00.NA 20S1G00.NA 20S1H00.NA 20S1T00.NA	Part no.



Installation





Crown molding clearance





Narrow aluminum door for panel applications



Determine required parts

To determine the required lift mechanism set for any application, see the chart on page 8. The lift mechanism is determined by finding the cabinet height and door weight in the chart.

There is one hardware set containing the parts for narrow aluminum door applications. The stabilizer rod is required for all applications.

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Required parts

a thru f Lift mechanism set	h Stabilizer rod
Set includes: a 2 x Lift mechanisms b 2 x Cover plates (right and left)	Cut to length Length = Interior cabinet width - 120 mm Aluminum Part no. 1061 mm (41-7/8") 20Q1061U
 c 2 x Cover plates (right and left) c 2 x Cover caps d 2 x Arm assembly (right and left) e 2 x Stabilizer rod cover caps f 2 x Stabilizer rod adapters 	Narrow aluminum door hardware set
10 x #7x35mm (1-3/8") wood screws NOTE: To determine required lift mechanism, see page 8	g 2 x 20S4200A Narrow aluminum mounting plate 8 x 699.110 Aluminum door screws for narrow frame aluminum doors* POZI #2x2 driver bit for adjusting tension
20S1A00.NA 20S1B00.NA 20S1C00.NA 20S1D00.NA 20S1E00.NA 20S1F00.NA 20S1G00.NA 20S1H00.NA 20S1I00.NA	* only 8 screws required Part no. Hardware set 20S4200AS1



Installation



Mounting plate position



NOTE: Attach mounting plate with four 699.110 screws provided.



Crown molding clearance











AVENTOS template

*** *** ***	- Use to pre-bore for locating pins	AVENTOS
		Part no.
	AVENTOS template	65.5020
	Ø5mm drill bit	DB-5mm
Screws		



Bumpers



Cushions door closing Self-adhesive back; clear

	Part no
6(1/4") dia. x 1.5(1/16")	FX404 1
10 (3/8") dia. x 3 (1/8")	SJ5312

POZI DRIVER and bits



A POZI screwdriver (different from Phillips) is the most crucial tool you can use to assure that full torque is applied to all Blum mounting screws. POZI screws can be identified by the distinctive "tick" marks located in the center of the screw head recess.

a)	
\$7/)	
/	

0	Part no.
#2 POZI DRIVER	POZI DRIVER
#2x1" POZI bit insert	POZI BIT #2x1
#2x2" POZI bit insert	POZI BIT #2x2
1/4" bit holder	BIT HOLDER





The **AVENTOS** line



AVENTOS HF bi-fold lift system

The doors fold in the middle when opening. This ensures easy access to the handle in any position for high wall cabinets.

AVENTOS HS up and over lift system

The door swings gently over the cabinet and makes storage space easily accessible. The space requirement over the cabinet is also kept to a minimum.



AVENTOS HK stay lift system

The door swings straight up. Applications include above refrigerator, accent cabinets or wall cabinets.

AVENTOS HL lift up system

The door opens vertically. This is ideal for an appliance garage or wall cabinets.



Assembly

Step 1: Install the lift mechanism

After aligning the lift mechanism with the cabinet using the locator pins, attach the mechanism with the five mounting screws provided.



Step 2: Attach the arm assembly

- a. Find the right and left arm assemblies and match them to the correct side of the cabinet.
- b. Attach the arm assembly to the lift mechanism as shown.
- c. (Below) Lift up on the arm assembly to lock into place.







Risk of injury by spring-loaded arm

- Do not push arm assembly down or leave in the down position
- Remove arm assembly from mechanism before installing or removing from cabinet



Step 3: Prepare and attach stabilizer rod

After cutting to size, slide the stabilizer arm cover caps onto the rod. Insert the stabilizer rod adapters being careful to line up the tabs (highlighted in orange in the first drawing). Attach the rod assembly to each arm assembly and tighten the locking screw.









Step 4: Attach the door

Attach the door using the clip mechanism in the mounting plate.





Step 5: Adjust the door tension

Use a screw gun and the supplied #2x2 POZI driver bit to adjust the lift mechanism to the desired tension.

Tension adjustment should be the same on both lift mechanisms.



Step 6: Finalize the door adjustments

Use a POZI screwdriver to adjust the cams for each of the 3-adjustments.



Step 7: Attach cover caps

Snap the symmetrical cover caps on each cover plate. Place the left and right cover plates over the appropriate lift mechanisms and snap them in place.





Removal



Step 1: Be aware



Risk of injury by spring-loaded arm

- Do not push arm assembly down or leave in the down position
- Remove arm assembly from mechanism before installing or removing from cabinet





Step 2: Remove the door and cover plates

Open the door. Use a screwdriver to disengage the CLIP mechanism of both arm assemblies from the mounting plates. Remove the cover caps and cover plate.



Step 3: Remove the stabilizer rod

Pull back the stabilizer rod cover caps and loosen the locking screws on each end of the stabilizer rod. Remove the Stabilizer rod from the cabinet.









Step 4: Remove the arm assembly

- a. Use a screwdriver to disengage both lever arms as shown.
- b. Remove arm assembly from mechanism.
- Cabinet is now ready for transport.







Notes







Notes





Conversion Chart				
		mm		
1/ ₃₂	.031	1		
¹ /16	.063	1.5		
³ / ₃₂	.094	2		
1/ ₈	.125	3		
⁵ / ₃₂	.156	4		
³ / ₁₆	.188	5		
⁷ / ₃₂	.219	5.5		
¹ /4	.25	6		
⁹ / ₃₂	.281	7		
⁵ / ₁₆	.313	8		
¹¹ /32	.344	9		
³ /8	.375	9.5		
¹³ / ₃₂	.406	10		
⁷ / ₁₆	.438	11		
¹⁵ / ₃₂	.469	12		
1/ ₂	.5	13		
¹⁷ / ₃₂	.531	13.5		
⁹ / ₁₆	.563	14		
¹⁹ / ₃₂	.594	15		
⁵ /8	.625	16		
²¹ / ₃₂	.656	17		
¹¹ / ₁₆	.688	17.5		
²³ / ₃₂	.719	18		
³ /4	.75	19		
²⁵ / ₃₂	.781	20		
¹³ / ₁₆	.813	20.5		
²⁷ / ₃₂	.844	21		
⁷ /8	.875	22		
²⁹ / ₃₂	.906	23		
¹⁵ / ₁₆	.938	24		
³¹ / ₃₂	.969	24.5		
1	1	25.4		





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