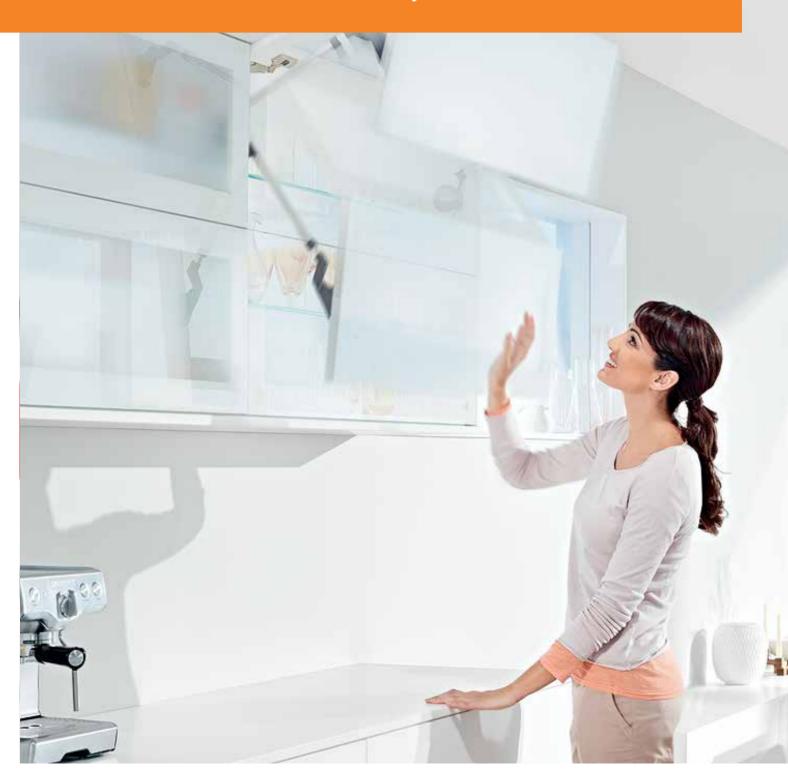


AVENTOS

Lift systems



AVENTOS smooth and silent lift systems





Lifting cabinet doors

up and out of the way

AVENTOS lift systems are the new premium functional hardware for upper cabinets. Doors easily lift up and out of the way, allowing complete access while not interfering with work in the kitchen. When closed, AVENTOS lift system doors glide to a soft close thanks to BLUMOTION soft closing.



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Motion and design

Effortless Opening . . .



AVENTOS lift systems for upper cabinet doors give optimal access to the contents of the cabinet and are completely out of the way when opened. They also ensure easy access to the handle in any position, even on tall wall cabinets.

Design options

AVENTOS offers numerous design options for wooden doors, five-piece doors and aluminum frame doors.

... and closing

With AVENTOS, even heavy doors open with just a light pull of the handle and stay in any position, up and out of the way, until you are ready to close them.

Quiet closing

BLUMOTION soft close is integrated into every AVENTOS mechanism for an amazingly quiet close every time.



Easy installation and assembly



With AVENTOS, installation is fast and precise. With the doors removed there are no protruding parts which makes transporting cabinets safe and convenient. Lever arms and doors snap on easily with our proven CLIP technology so there is no need for tools. Three-dimensional cam adjustments enable doors to be positioned precisely and the tension adjustment makes fine tuning the opening and closing power of the doors exact.



Opening and closing lift systems in a new way

AVENTOS lift systems open with just a light touch – and then close again with the press of a button. An inspiring feature that is certain to impress, thanks to SERVO-DRIVE for AVENTOS, the new electrical support for lift systems.



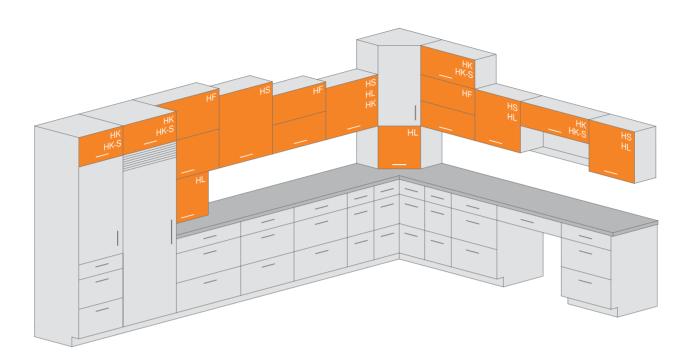


Doors that open with a simple touch

A unique solution for handle-less lift applications. TIP-ON mechanical support system makes opening doors effortless. The door opens at an angle that is comfortable while giving you a complete view and access to the cabinet interior.



A vast array of options



Solutions

for all applications

There are many good reasons why AVENTOS lift systems are an excellent choice for wall cabinets.

Because the cabinet doors open upwards, they provide an excellent view into the cabinet interior enabling comfortable and ergonomic access to storage items. The kitchen user retains freedom of motion, keeping the cabinet door out of the way.

The AVENTOS program opens up a whole new world of design possibilities for kitchen and office spaces. Even the widest and heaviest doors can be accommodated. Wide base cabinet designs can now be mirrored in the wall cabinets above to create a more uniform look.

i

AVENTOS planning tools

Blum has downloadable Excel® spreadsheets that provide the required parts and calculate the mounting locations for your application. Available at blum.com/planning



Program overview

AVENTOS HF		Face frame cabinet	Panel cabinet	
	Bi-fold doors	Wood or wide aluminum frame door	Wood or wide aluminum frame door	Narrow aluminum frame door
	Height range 479 (18-7/8") – 1067 (42") Width range 381 (15") – 1828 (72")			
	Ordering information	page 10	page 14	page 18
	Cabinet preparation	page 12	page 16	page 20

AVENTOS HS		Face frame cabinet	Panel cabinet	
	Up-and-over door	Wood or wide aluminum frame door	Wood or wide aluminum frame door	Narrow aluminum frame door
	Height range 350 (13-3/4") – 800 (31-1/2") Width range 381 (15") – 1828 (72")			
	Ordering information	page 24	page 28	page 32
	Cabinet preparation	page 26	page 30	page 34

AVENTOS HL		Face frame cabinet	Panel cabinet	
Trans.	Lift up door	Wood or wide aluminum frame door	Wood or wide aluminum frame door	Narrow aluminum frame door
1	Height range 300 (11-13/16") – 580 (22-13/16") Width range 381 (15") – 1828 (72")			
	Ordering information	page 38	page 42	page 46
	Cabinet preparation	page 40	page 44	page 48
	Lift up door – appliance garage	Wood or wide aluminum frame door	Wood or wide aluminum frame door	Narrow aluminum frame door
-	Height range 450 (17-11/16") – 580 (22-13/16") Width range 381 (15") – 1828 (72")			
	Ordering information	page 50	page 54	page 58
	Cabinet preparation	page 52	page 56	page 60

NOTE: For face frame corner cabinet appliance garage bracket see page 102

AVENTOS HK		Face frame cabinet	Panel cabinet	
	Stay lift door	Wood or wide aluminum frame door	Wood or wide aluminum frame door	Narrow aluminum frame door
	Height range 300 (11-13/16") – 610 (24") Width range 381 (15") – 1828 (72")			
	Ordering information	page 64	page 68	page 72
	Cabinet preparation	page 66	page 70	page 74

AVENTOS HK-S		Face frame cabinet	Panel cabinet	
	Stay lift door	Wood or wide aluminum frame door	Wood or wide aluminum frame door	Narrow aluminum frame door
1	Height range 186 (7-3/8") – 400 (15-3/4") Width range 381 (15") – 991 (39")			
	Ordering information	page 78	page 82	page 86
	Cabinet preparation	page 80	page 84	page 88

NOTE: For all inset applications see pages 100 – 101



BLUMOTION inside

up and out of the way









Few parts -many applications

AVENTOS HF covers all common widths and heights with one small program: three lift mechanisms and four telescopic arms. This simplifies planning, ordering and warehousing.

Includes a finger safety feature

The CLIP top bottom door hinge has an innovative "release" feature that ensures finger safety.

Easy installation and adjustment

The three-dimensional adjustment feature enables doors to be precisely aligned.







The motion inside

The amount of technology and components placed into each lift mechanism are what provide the unparalleled smooth operation of AVENTOS.

AVENTOS planning tools

Blum has downloadable Excel® spreadsheets that provide the required parts and calculate the mounting locations for your application. They are available at blum.com/planning.

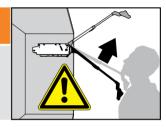
AVENTOS HF - Face frame cabinets

Required components



Warning: Risk of injury by spring-loaded telescopic arm!

- Do not push telescopic arm down
- Remove telescopic arm from mechanism before installing cabinet



Step 1 – Determine the power factor for the application

AVENTOS planning tools available at blum.com/planning

Determine power factor

To select the correct lift mechanism for a given application, the power factor must first be calculated by using the formula below. Use the table at the bottom of the page to convert ounces into decimal form for easy calculation.

Power factor = cabinet height (inch) x combined door weight* (lb)

Including handle weight

Cabinet height: 30" (within possible range)

Combined door weight = 23 lb 14 oz (14 oz = .9 lb see chart below)

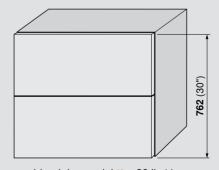
Weight converted to decimal is 23.9 lb

Power factor = cabinet height multiplied by combined door weight*

Power factor = 30 x 23.9

Power factor = 717

A power factor of 717 requires lift mechanism 20F2500.N5



combined door weight* = 23 lb 14 oz

	weight conversion chart														
oz	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
lb	.1	.1	.2	.3	.3	.4	.4	.5	.6	.6	.7	.8	.8	.9	.9

Ordering parts for wood or wide aluminum doors



Step 2 – Select the required components

Lift mechanism set Set includes: NOTE: Trial application recommended when the required power factor is in a borderline area of lift mechanisms 1 Lift mechanism (qty 2) #7 x 35 mm (1-3/8") wood screw (qty 10) power factor range Part no. 20F2200.N5 85 - 230 (one lift mechanism required) 231 - 470 20F2200.N5 471 - 880 20F2500.N5 780 - 1440 20F2800.N5 20F2800.N5 1401 - 2300 (three lift mechanisms required)

Cover set			
	Set includes: 2 Right and left cover plate 3 Non-handed cover cap (qty 2)		Part no.
		Cover set	20F8000.NA

Telescopic arm set			
	Set includes: 4 Telescopic arm (qty 2)	NOTE: One telescopic arm is required per lift m	echanism
		cabinet height	Part no.
		479 (18-7/8") - 558 (22")	20F3200.01
		558 (22") - 686 (27")	20F3500.01
		686 (27") - 889 (35")	20F3800.01
		889 (35") - 1067 (42")	20F3900.01

Wood or wide aluminum door hardware set								
Set includes: 5 70T5580.TL – CLIP top 120° free swing hinge (qty 2) 5 32.4630 – COMPACT 33° free swing hinge (qty 2) 6 78Z5530T – CLIP top bottom door hinge (qty 2) 7 130.1130.02 – COMPACT mounting plate (qty 2)	NOTE: Three hinges and mounting plates are rewidths over 1219 (48") or combined door weight	•						
7 175H6000 – Face frame adapter (qty 4)		Part no.						
8 175H3100 – Telescopic arm mounting plate (qty 2)	Wood or wide aluminum hardware set	78Z5530TA8						
	Installation screw for wood doors	606N or 606P						
	Installation screw for wide aluminum doors	7072A						

Mounting plate with bracket set			
	Set includes: Right and left mounting plate with bracket	For use with large overlay five-piece doors	
			Part no.
		Mounting plate with bracket set	175H3F00

SERVO-DRIVE

SERVO-DRIVE for AVENTOS available

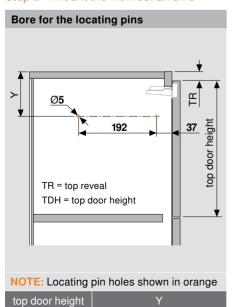
Please see SERVO-DRIVE for AVENTOS brochure for part and ordering information at blum.com

AVENTOS HF - Face frame cabinets

Step 1 - Check clearances

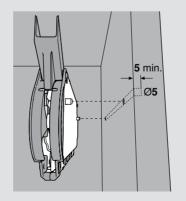
Space requirements Door and hardware clearance Lift mechanism clearance 29 **7** + **7**2 479 (18-7/8") to 1067 (42") 22 minimum 278 minimum Y = See table below Z = Top door height x .44 + 23*denotes clearance required for SERVO-DRIVE for AVENTOS lift mechanism A = Top door height x .9 + (1.5 x bottom door thickness)

Step 2 - Mount the lift mechanisms

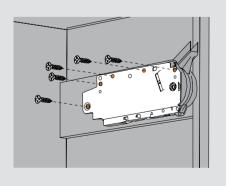


Lift mechanism positioning and attachment

Two locating pins fit into Ø5 mm x 5 mm holes bored in the side of cabinet for proper positioning.



The included #7 x 35 mm (1-3/8") wood screws are required in the five holes marked in orange.



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

231 - 271

272 - 531

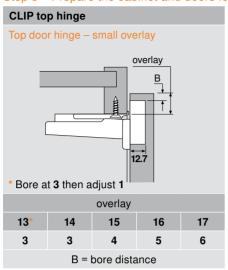
TDH x .6 minus 28 + TR

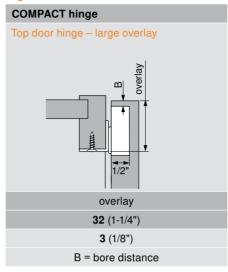
TDH x .6 minus 57 + TR

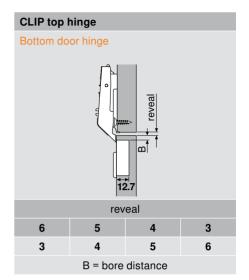
Cabinet preparation for wood or wide aluminum doors



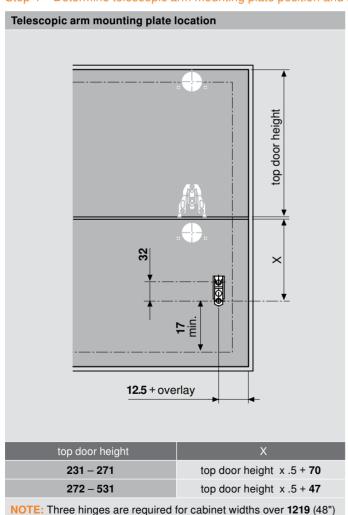
Step 3 – Prepare the cabinet and doors for hinges

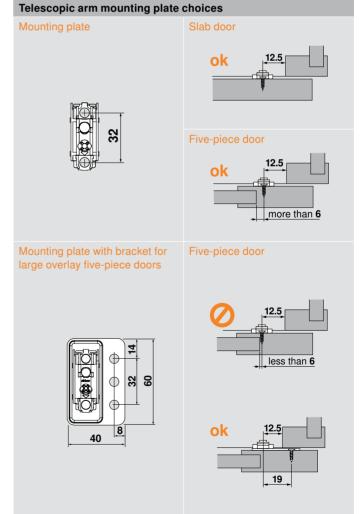






Step 4 – Determine telescopic arm mounting plate position and attach to the bottom door





Step 5 - Assemble the cabinet

or 26.5 lb combined door weight

Follow the assembly instructions on page 92

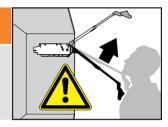
AVENTOS HF - Panel cabinets

Required components



Warning: Risk of injury by spring-loaded telescopic arm!

- Do not push telescopic arm down
- Remove telescopic arm from mechanism before installing cabinet



Step 1 – Determine the power factor for the application

AVENTOS planning tools available at blum.com/planning

Determine power factor

To select the correct lift mechanism for a given application, the power factor must first be calculated by using the formula below. Use the table at the bottom of the page to convert ounces into decimal form for easy calculation.

Power factor = cabinet height (inch) x combined door weight* (lb)

* Including handle weight

Example:

Cabinet height: 30" (within possible range)

Combined door weight = 23 lb 14 oz (14 oz = .9 lb see chart below)

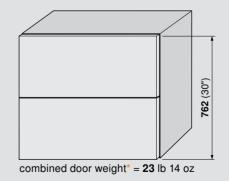
Weight converted to decimal is 23.9 lb

Power factor = cabinet height multiplied by combined door weight*

Power factor = 30 x 23.9

Power factor = 717

A power factor of 717 requires lift mechanism 20F2500.N5



	weight conversion chart														
oz 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15										15					
lb	.1	.1	.2	.3	.3	.4	.4	.5	.6	.6	.7	.8	.8	.9	.9

Ordering parts for wood or wide aluminum doors



Step 2 – Select the required components

Lift mechanism set NOTE: Trial application recommended when the required power factor is in a borderline area of lift mechanisms 1 Lift mechanism (qty 2) #7 x 35 mm (1-3/8") wood screw (qty 10) Power factor range Part no. 85 - 230 (one lift mechanism required) 20F2200.N5 20F2200.N5 231 - 470471 - 880 20F2500.N5 20F2800.N5 780 - 1440 1401 - 2300 (three lift mechanisms required) 20F2800.N5



Telescopic arm set				
	Set includes: 4 Telescopic arm (qty 2)	NOTE: One telescopic arm is required per lift mechanism		
		Cabinet height	Part no.	
		479 (18-7/8") - 558 (22")	20F3200.01	
		558 (22") — 686 (27")	20F3500.01	
		686 (27") - 889 (35")	20F3800.01	
		889 (35") - 1067 (42")	20F3900.01	

Wood or wide aluminum door hardware set NOTE: Three hinges and mounting plates are required for cabinet 5 70T5580.TL – CLIP top 120° free swing hinge (qty 2) widths over 1219 (48") or combined door weight of 26.5 lb 32.4630 - COMPACT 33° free swing hinge (qty 2) 6 78Z5530T – CLIP top bottom door hinge (qty 2) 130.1130.02 - COMPACT mounting plate (qty 2) 175H6000 - Face frame adapter (qty 4) 175H3100 - Telescopic arm mounting plate (qty 2) Part no. 78Z5530TA8 Wood or wide aluminum hardware set Installation screw for wood doors 606N or 606P 7072A Installation screw for wide aluminum doors

SERVO-DRIVE

SERVO-DRIVE for AVENTOS available

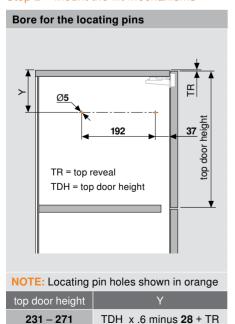
Please see SERVO-DRIVE for AVENTOS brochure for part and ordering information at blum.com

AVENTOS HF - Panel cabinets

Step 1 - Check clearances

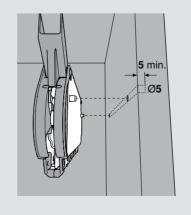
Space requirements Door and hardware clearance Lift mechanism clearance 29 Y + 72 | 479 (18-7/8") to 1067 (42") 22 minimum 278 minimum Α Y = See table below Z = Top door height x .44 + 23*denotes clearance required for SERVO-DRIVE for AVENTOS lift mechanism A = Top door height x .9 + (1.5 x bottom door thickness)

Step 2 - Mount the lift mechanisms

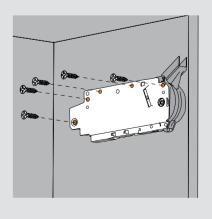


Lift mechanism positioning and attachment

Two locating pins fit into Ø5 mm x 5 mm holes bored in the side of cabinet for proper positioning.



The included #7 x 35 mm (1-3/8") wood screws are required in the five holes marked in orange.



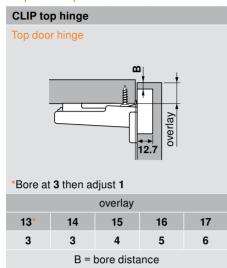
272 - 531

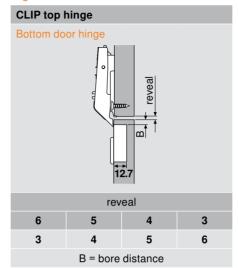
TDH x .6 minus 57 + TR

Cabinet preparation for wood or wide aluminum doors

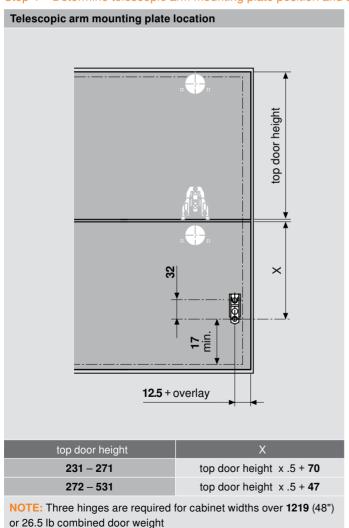


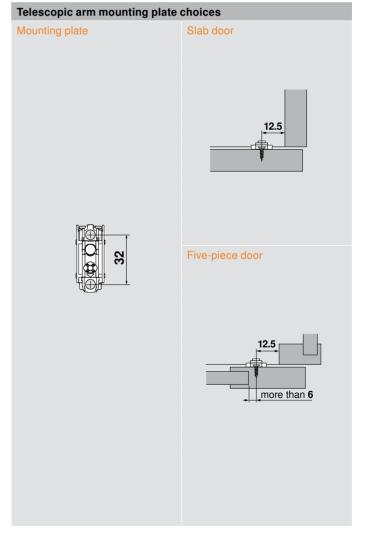
Step 3 - Prepare the cabinet and doors for hinges





Step 4 – Determine telescopic arm mounting plate position and attach to the bottom door





Step 5 - Assemble the cabinet

Follow the assembly instructions on page 92

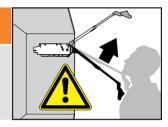
AVENTOS HF - Panel cabinets

Required components



Warning: Risk of injury by spring-loaded telescopic arm!

- Do not push telescopic arm down
- Remove telescopic arm from mechanism before installing cabinet



Step 1 – Determine the power factor for the application

AVENTOS planning tools available at blum.com/planning

Determine power factor

To select the correct lift mechanism for a given application, the power factor must first be calculated by using the formula below. Use the table at the bottom of the page to convert ounces into decimal form for easy calculation.

Power factor = cabinet height (inch) x combined door weight* (lb)

Including handle weight

Example:

Cabinet height: 30" (within possible range)

Combined door weight* = 23 lb 14 oz (14 oz = .9 lb see chart below)

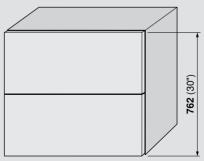
Weight converted to decimal is 23.9 lb

Power factor = cabinet height multiplied by combined door weight*

Power factor = 30 x 23.9

Power factor = 717

A power factor of 717 requires lift mechanism 20F2500.N5



combined door weight* = 23 lb 14 oz

weight conversion chart															
oz	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
lb	.1	.1	.2	.3	.3	.4	.4	.5	.6	.6	.7	.8	.8	.9	.9

Ordering parts for narrow aluminum doors



Step 2 – Select the required components

Lift mechanism set Set includes: NOTE: Trial application recommended when the required power factor is in a borderline area of lift mechanisms 1 Lift mechanism (qty 2) #7 x 35 mm (1-3/8") wood screw (qty 10) Power factor range Part no. 85 - 230 (one lift mechanism required) 20F2200.N5 231 - 470 20F2200.N5 471 - 880 20F2500.N5 20F2800.N5 780 - 1440 1401 - 2300 (three lift mechanisms required) 20F2800.N5

Cover set			
	Set includes: 2 Right and left cover plate 3 Non-handed cover cap (qty 2)		
			Part no.
		Cover set	20F8000.NA

Telescopic arm set				
	Set includes: 4 Telescopic arm (qty 2)	NOTE: One telescopic arm is required per lift me	echanism	
		Cabinet height	Part no.	
		479 (18-7/8") - 558 (22")	20F3200.01	
		558 (22") - 686 (27")	20F3500.01	
		686 (27") - 889 (35")	20F3800.01	
		889 (35") - 1067 (42")	20F3900.01	

Narrow aluminum door hardware set		
Set includes: 5 72T550A.TL – CLIP top free swing narrow alum. top door hinge (qty 2) 6 78Z550AT – CLIP top narrow aluminum bottom door hinge (qty 2) 7 175H3100 – Top door mounting plate (qty 2) 8 175H5A00 – Bottom door mounting plate (qty 2) 9 175H5B00 – Telescopic arm mounting plate (qty 4) 669.110 – Aluminum screw for the bottom door mounting plate, bottom hinge, top hinge and telescopic arm mounting plate (qty 8)	NOTE: Three hinges and mounting plates are re widths over 1219 (48") or combined door weight	•
		Part no.
	Narrow aluminum hardware set	78Z550ATA6
	Installation screw for top mounting plate	606N or 606P

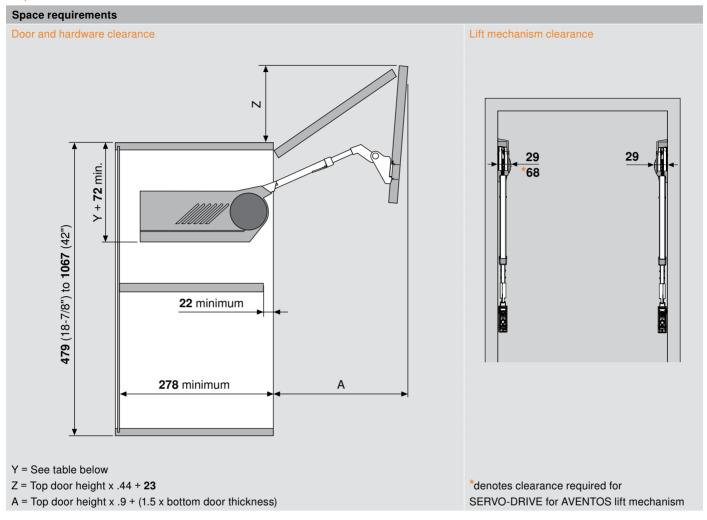


SERVO-DRIVE for AVENTOS available

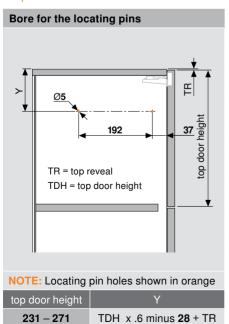
Please see SERVO-DRIVE for AVENTOS brochure for part and ordering information at blum.com

AVENTOS HF - Panel cabinets

Step 1 - Check clearances



Step 2 - Mount the lift mechanisms



Lift mechanism positioning and attachment Two locating pins fit into Ø5 mm x 5 mm The included #7 x 35 mm (1-3/8") wood holes bored in the side of cabinet for screws are required in the five holes marked proper positioning. in orange. 5 min. Ø5

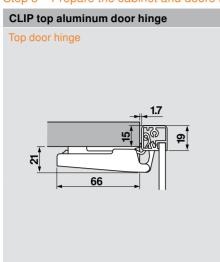
272 - 531

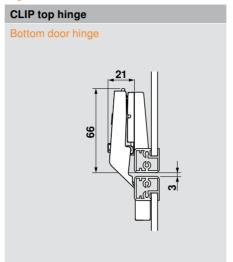
TDH x .6 minus 57 + TR

Cabinet preparation for narrow aluminum doors

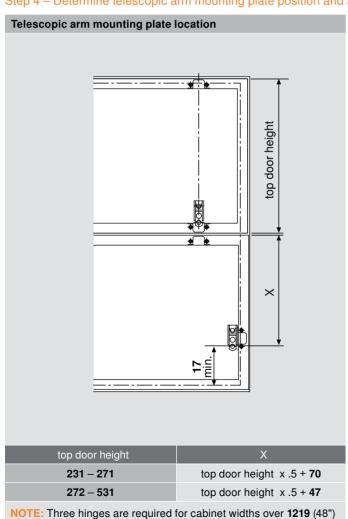


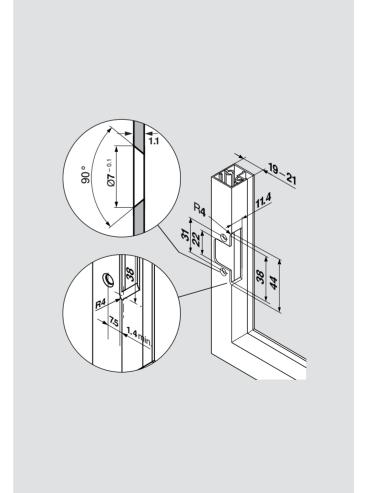
Step 3 – Prepare the cabinet and doors for hinges





Step 4 – Determine telescopic arm mounting plate position and attach to the bottom door





Hinge and mounting plate attachment

Step 5 - Assemble the cabinet

or 26.5 lb combined door weight

Follow the assembly instructions on page 92

AVENTOS HS

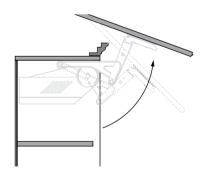


Up, over

and out of the way







Few parts - many applications

AVENTOS HS covers all common door widths and heights with one simple program: nine lift mechanisms and only one arm assembly. This simplifies planning, ordering and warehousing.

Easy installation and adjustment

The three-dimensional adjustment feature enables doors to be precisely aligned.

Crown molding clearance

When developing the AVENTOS HS up-and-over lift mechanism, we also took into account cabinets equipped with decorative molding.







The motion inside

The amount of technology and components placed into each lift mechanism are what provide the unparalleled smooth operation of AVENTOS.

AVENTOS planning tools

Blum has downloadable Excel® spreadsheets that provide the required parts and calculate the mounting locations for your application. They are available at blum.com/planning.

AVENTOS HS - Face frame cabinets

Step 1 – Select the required lift mechanism set

AVENTOS planning tools available at blum.com/planning

Using the charts

Each chart covers three different lift mechanisms (nine total). To select the required lift mechanism set, find the cabinet height on the left side of the chart, then go across to the range that contains the weight of 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: Part numbers in ORANGE, pounds are bold

		_		
Cabi	net height	D	oor weight – lb/	0Z
inch	mm	20S2A00.N5	20S2B00.N5	20S2C00.N5
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

arning: Risk of injury arm assembly!	
oush arm assembly down arm assembly from ism before installing	

Cabi	net height	D	oor weight – lb	b /oz	
inch	mm	20S2D00.N5	20S2E00.N5	20S2F00.N5	
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 - 27 /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	

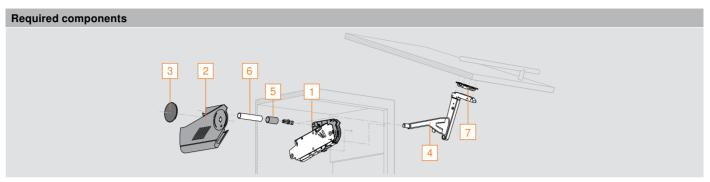
Cabi	net height	Door weight – Ib/oz			
inch	mm	20S2G00.N5	20S2H00.N5	20S2I00.N5	
	676 – 684	7 /11 - 17 /0	17 /1 - 29 /7	29 /8 - 47 /5	
27	685 – 689	7 /11 - 17 /0	17 /1 - 28 /13	28 /14 - 47 /5	
	690 – 694	7 /11 - 16 /7	16 /8 - 28 /13	28 /14 - 47 /5	
	695 – 704	7 /11 - 16 /7	16 /8 - 28 /11	28 /12 - 47 /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	27 /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	

Do not p

Remove mechani cabinet

Ordering parts for wood or wide aluminum doors





Step 2 – Select the required components



_		2052G00.N5 2052H00.N5	2052100.195
Cover set			
	Set includes: 2 Right and left cover plate 3 Non-handed cover cap (qty 2)	Cover set	Part no. 20S8000.NA
Arm assembly set			
	Set includes: 4 Right and left arm assembly 5 Stabilizer rod cover cap (qty 2)	Arm assembly set	Part no. 20S3500.06
Daniel de Arbille au mad			
Round stabilizer rod			
	6 Round stabilizer rod NOTE: Cabinets wider than 48" a stabilizer rod connector set is required, see page 105	 Aluminum rod length 1061 (41-3/4"), cut to Length = interior cabinet opening minus 	
		Round stabilizer rod	20Q1061UN

		riodria otabilizorroa	
Wood or wide aluminum door ha	rdware set		
a	Set includes:		Part no.
Steering Ste	7 Arm assembly mounting plate (qty 2)	Wood or wide aluminum hardware set	20\$4200
		Installation screw for wood doors	606N or 606P
19		Installation screw for wide aluminum doors	7072A

Mounting plate with bracket set					
(1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Set includes: Mounting plate with bracket (qty 2)	For use with large overlay five-piece doors	Part no.		
		Mounting plate with bracket set	20S4F01		

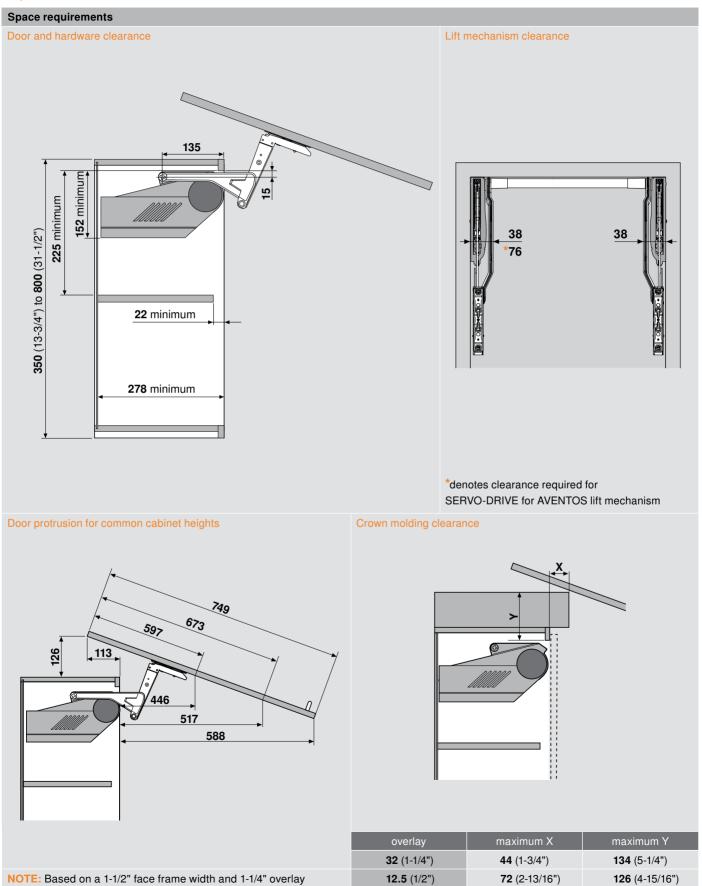
SERVO-DRIVE

SERVO-DRIVE for AVENTOS available

Please see SERVO-DRIVE for AVENTOS brochure for part and ordering information at blum.com

AVENTOS HS - Face frame cabinets

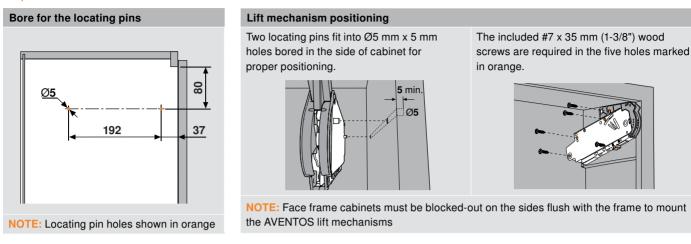
Step 1 - Check clearances



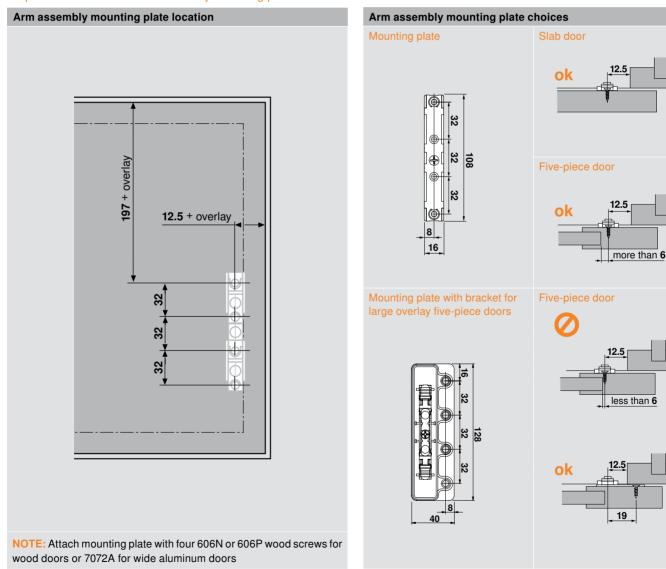
Cabinet preparation for wood or wide aluminum doors



Step 2 - Mount the lift mechanisms



Step 3 – Determine the arm assembly mounting plate location and attach to the door



Step 4 – Assemble the cabinet

Follow the assembly instructions on page 94

19

AVENTOS HS - Panel cabinets

Step 1 - Select the required lift mechanism set

AVENTOS planning tools available at blum.com/planning

Using the charts

Each chart covers three different lift mechanisms (nine total). To select the required lift mechanism set, find the cabinet height on the left side of the chart, then go across to the range that contains the weight of 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: Part numbers in ORANGE, pounds are bold

Cabinet height		Door weight − lb/oz			
inch	mm	20S2A00.N5	20S2B00.N5	20S2C00.N5	
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 – 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	

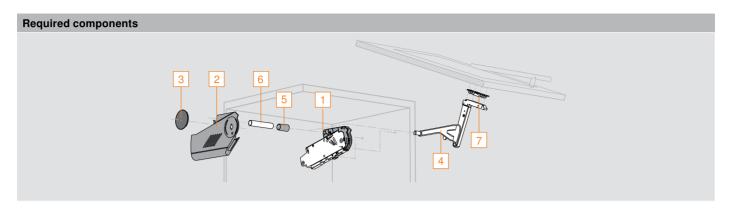
<u>^</u>	Warning: Risk of injury by arm assembly!	
Re me	not push arm assembly down move arm assembly from schanism before installing pinet	

Cabinet height		Door weight – Ib/oz		
inch	mm	20S2D00.N5	20S2E00.N5	20S2F00.N5
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 - 27 /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

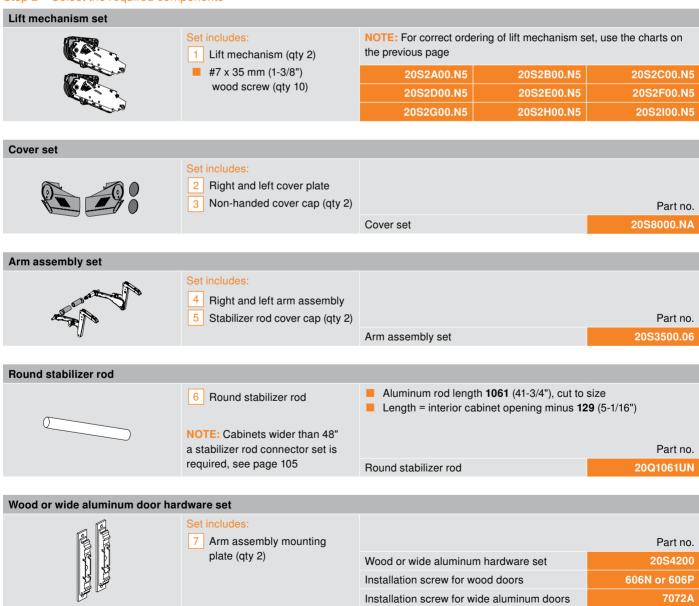
Cabinet height		Door weight – lb/oz			
inch	mm	20S2G00.N5	20S2H00.N5	20S2I00.N5	
	676 – 684	7 /11 - 17 /0	17 /1 - 29 /7	29 /8 - 47 /5	
27	685 – 689	7 /11 - 17 /0	17 /1 - 28 /13	28 /14 - 47 /5	
	690 - 694	7 /11 - 16 /7	16 /8 - 28 /13	28 /14 - 47 /5	
	695 – 704	7 /11 - 16 /7	16 /8 - 28 /11	28 /12 47 /5	
	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	27 /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	

Ordering parts for wood or wide aluminum doors





Step 2 – Select the required components



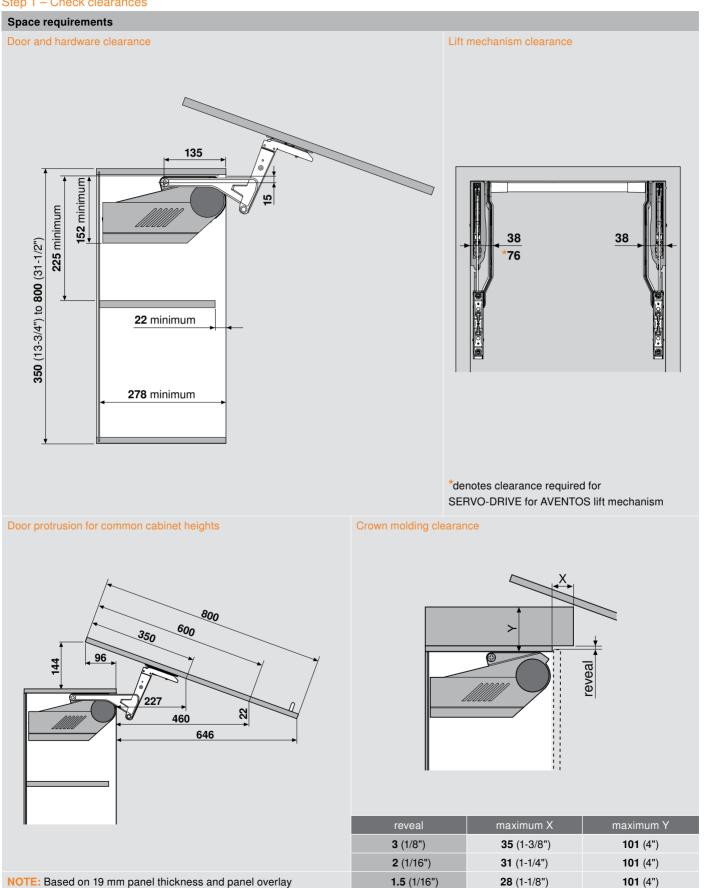
SERVO-DRIVE

SERVO-DRIVE for AVENTOS available

Please see SERVO-DRIVE for AVENTOS brochure for part and ordering information at blum.com

AVENTOS HS - Panel cabinets

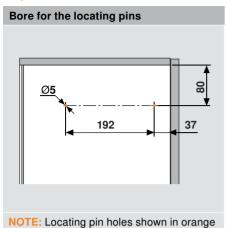
Step 1 - Check clearances



Cabinet preparation for wood or wide aluminum doors

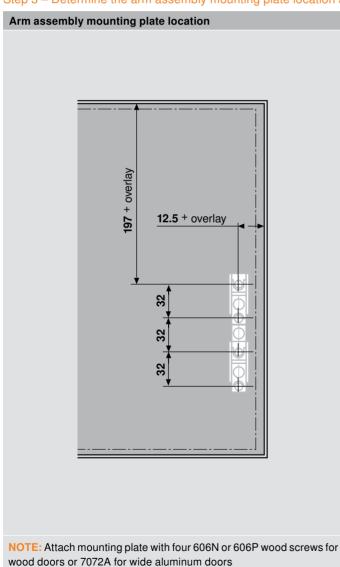


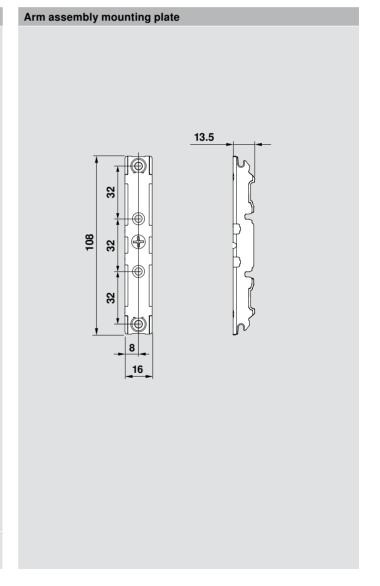
Step 2 - Mount the lift mechanisms



Lift mechanism positioning Two locating pins fit into Ø5 mm x 5 mm The included #7 x 35 mm (1-3/8") wood screws are required in the five holes marked holes bored in the side of cabinet for proper positioning. in orange. 5 min. Ø5

Step 3 – Determine the arm assembly mounting plate location and attach to the door





Step 4 – Assemble the cabinet

Follow the assembly instructions on page 94

AVENTOS HS - Panel cabinets

Step 1 - Select the required lift mechanism set

AVENTOS planning tools available at blum.com/planning

Using the charts

Each chart covers three different lift mechanisms (nine total). To select the required lift mechanism set, find the cabinet height on the left side of the chart, then go across to the range that contains the weight of 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: Part numbers in ORANGE, pounds are bold

Cabi	net height	D	oor weight – lb/	0Z
inch	mm	20S2A00.N5	20S2B00.N5	20S2C00.N5
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 – 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

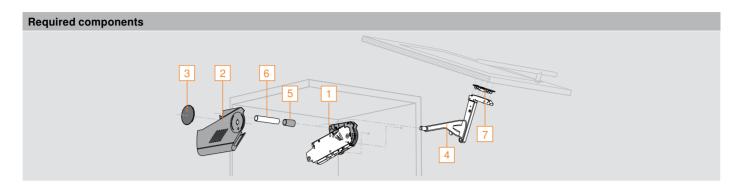
<u>^!\</u>	Warning: Risk of injury by arm assembly!	
Re me	not push arm assembly down move arm assembly from schanism before installing binet	

Cabinet height		Door weight – lb/oz		
inch	mm	20S2D00.N5	20S2E00.N5	20S2F00.N5
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 - 27 /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

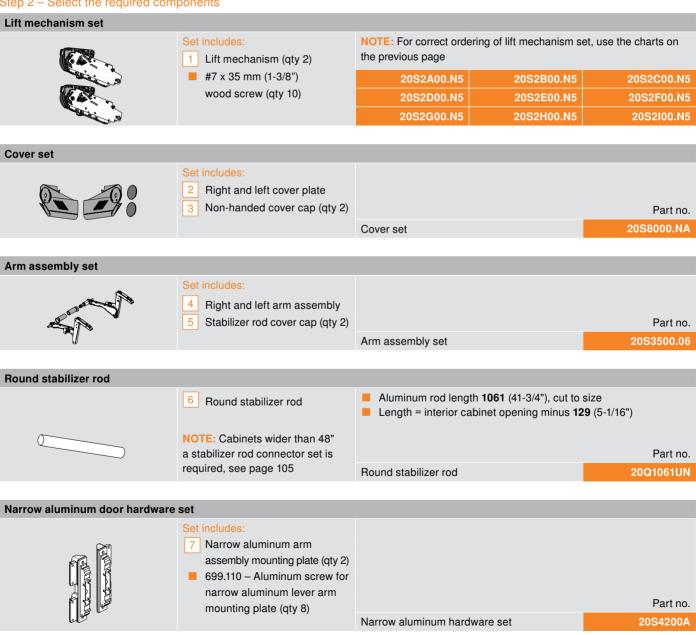
Cabinet height		Door weight – lb/oz			
inch	mm	20S2G00.N5	20S2H00.N5	20S2I00.N5	
	676 – 684	7 /11 - 17 /0	17 /1 - 29 /7	29 /8 - 47 /5	
27	685 – 689	7 /11 - 17 /0	17 /1 - 28 /13	28 /14 - 47 /5	
	690 - 694	7 /11 - 16 /7	16 /8 - 28 /13	28 /14 - 47 /5	
	695 – 704	7 /11 - 16 /7	16 /8 - 28 /11	28 /12 - 47 /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	27 /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	

Ordering parts for narrow aluminum doors





Step 2 – Select the required components



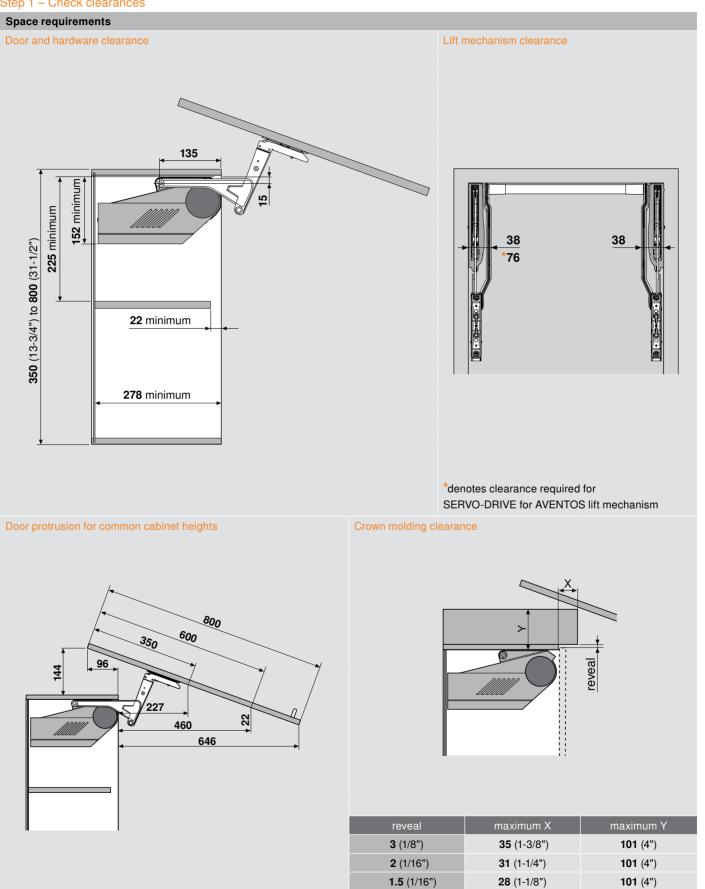
SERVO-DRIVE

SERVO-DRIVE for AVENTOS available

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AVENTOS HS - Panel cabinets

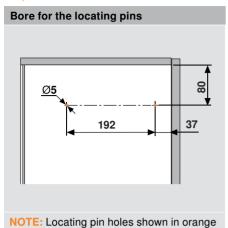
Step 1 - Check clearances



Cabinet preparation for narrow aluminum doors

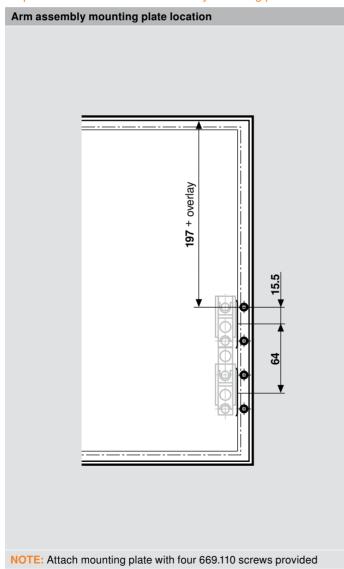


Step 2 - Mount the lift mechanisms



Lift mechanism positioning Two locating pins fit into \emptyset 5 mm x 5 mm The included #7 x 35 mm (1-3/8") wood screws are required in the five holes marked holes bored in the side of cabinet for proper positioning. in orange. 5 min. Ø5

Step 3 – Determine the arm assembly mounting plate location and attach to the door



Arm assembly mounting plate 15 to 19 reveal (1 to 4) overlay 8 NOTE: When changing material thickness, adjust assembly dimensions accordingly

Step 4 - Assemble the cabinet

Follow the assembly instructions on page 94





up and out of the way







Few parts - many applications

AVENTOS HL covers all common widths and heights, including wide cabinets with just five different lift mechanisms and four arm assemblies. This simplifies planning, ordering and warehousing.

Numerous design options

Because the AVENTOS HL opens parallel to the cabinet, it can be used in wall cabinets, in a pantry or below another AVENTOS cabinet. On the counter top it can be used for an appliance garage.

Easy installation and adjustment

The three-dimensional adjustment feature enables doors to be precisely aligned.







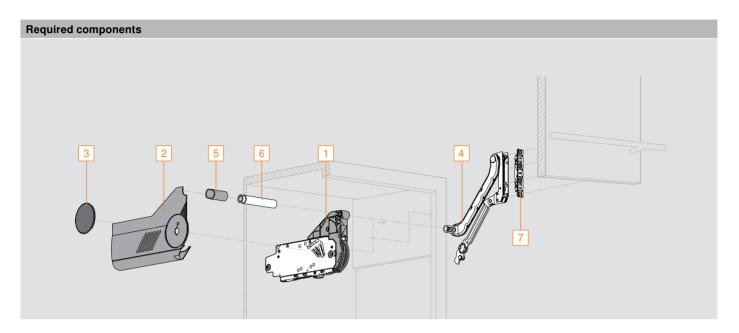
The motion inside

The amount of technology and components placed into each lift mechanism are what provide the unparalleled smooth operation of AVENTOS.

AVENTOS planning tools

Blum has downloadable Excel® spreadsheets that provide the required parts and calculate the mounting locations for your application. They are available at blum.com/planning.

AVENTOS HL - Face frame cabinets





Warning: Risk of injury by spring-loaded arm assembly!

- Do not push arm assembly down
- Remove arm assembly from mechanism before installing cabinet



Step 1 – Select the required lift mechanism and arm assembly

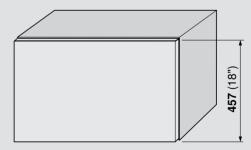
AVENTOS planning tools available at blum.com/planning

Determining the required hardware based on application

Find the required cabinet height in the first column. This will give you the required arm assembly. Continue right in that row to find the mechanism that works for the weight of your door.

Example:

Cabinet height of **457** (18") = arm assembly 20L3800.06 Door weight of 10 lb 5 oz = lift mechanism 20L2500.N5



door weight including handle = 10 lb 5 oz

cabinet	min. opening	arm	lift mechanism (door weight - Ib /oz)					
height	required	assembly	20L2100.N5	20L2300.N5	20L2500.N5	20L2700.N5	20L2900.N5	
11-13/16" — 13-3/4"	10-5/16"	20L3200.06	2 /12 - 8 /7	8 /8 - 13 /7	13 /8 - 25 /4	25 /5 - 44 /0	-	
13-13/16" — 15-11/16"	12-5/16"	20L3500.06	2 /12 - 4 /10	4 /11 - 10 /2	10 /3 - 18 /10	18 /11 - 28 /4	28 /5 - 44 /0	
15-3/4" — 21-5/8"	14-1/4"	20L3800.06	-	3 /13 - 6 /13	6 /14 - 13 /11	13 /12 - 24 /7	24 /8 - 44 /0	
17-11/16" — 22-13/16"	16-1/4"	20L3900.06	_	2 /3 - 3 /4	3 /5 - 10 /6	10 /7 - 19 /3	19 /4 - 36 /5	

Ordering parts for wood or wide aluminum doors



Step 2 – Select the required components Lift mechanism set NOTE: Trial application recommended when the required power factor is in a borderline area of lift mechanisms 1 Lift mechanism (qty 2) Part no. #7 x 35 mm (1-3/8") wood 20L2100.N5 screw (qty 10) 20L2300.N5 20L2500.N5 20L2700.N5 20L2900.N5 Cover set Right and left cover plate Non-handed cover cap (qty 2) Part no. 20L8000.N1 Cover set Arm assembly set Right and left arm assembly Stabilizer rod cover cap (qty 2) Cabinet height Part no. 20L3200.06 **300** (11-13/16") - **349** (13-3/4") 20L3500.06 **350** (13-13/16") - **399** (15-13/16") **400** (15-3/4") **-550** (21-5/8") 20L3800.06 **450** (17-11/16") - **580** (22-13/16") 20L3900.06 Oval stabilizer rod Aluminum rod length 1061 (41-3/4"), cut to size 6 Oval stabilizer rod Length = interior cabinet opening minus 129 (5-1/16") NOTE: Cabinets wider than 48" Part no. a stabilizer rod connector set is required, see page 105 20Q1061UA Oval stabilizer rod Wood or wide aluminum door hardware set Arm assembly mounting Part no. plate (qty 2) Wood or wide aluminum hardware set 20S4200 606N or 606P Installation screw for wood doors Installation screw for wide aluminum doors 7072A Mounting plate with bracket set For use with large overlay five-piece doors Right and left mounting plate with bracket Part no.

SERVO-DRIVE

SERVO-DRIVE for AVENTOS available

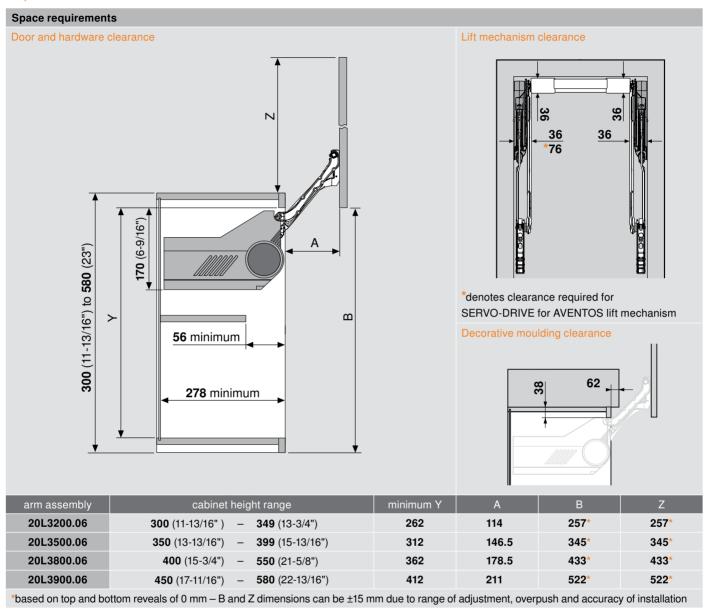
Please see SERVO-DRIVE for AVENTOS brochure for part and ordering information at blum.com

Mounting plate with bracket set

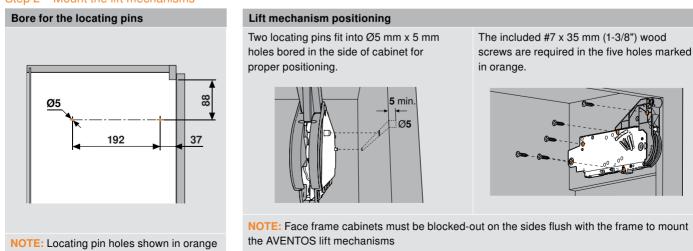
20S4F01

AVENTOS HL - Face frame cabinets

Step 1 - Check clearances



Step 2 - Mount the lift mechanisms



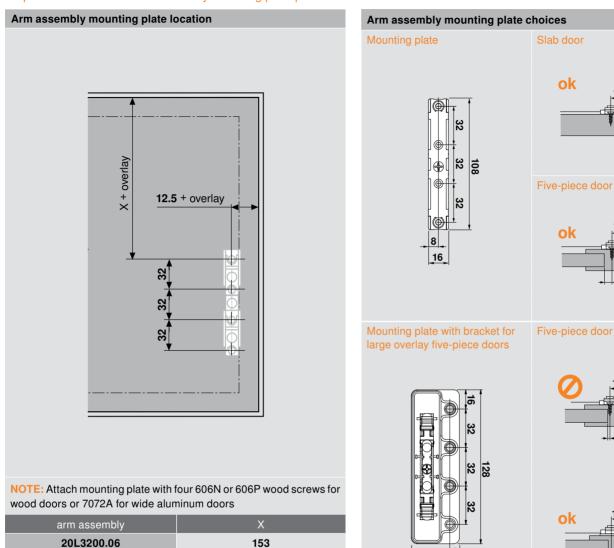
Cabinet preparation for wood or wide aluminum doors



more than 6

less than 6

Step 3 – Determine the arm assembly mounting plate position and attach to the door



203

253

303

Step 4 - Assemble the cabinet

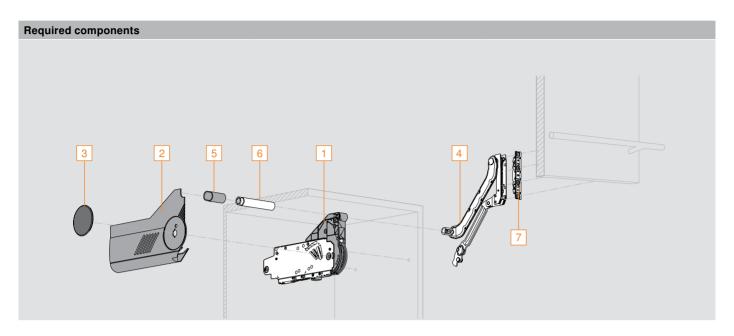
20L3500.06

20L3800.06

20L3900.06

Follow the assembly instructions on page 96

AVENTOS HL - Panel cabinets





Warning: Risk of injury by spring-loaded arm assembly!

- Do not push arm assembly down
- Remove arm assembly from mechanism before installing cabinet



Step 1 – Select the required lift mechanism and arm assembly

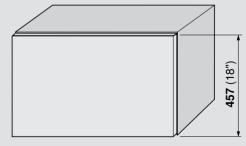
AVENTOS planning tools available at blum.com/planning

Determining the required hardware based on application

Find the required cabinet height in the first column. This will give you the required arm assembly. Continue right in that row to find the mechanism that works for the weight of your door.

Example:

Cabinet height of **457** (18") = arm assembly 20L3800.06 Door weight of 10 lb 5 oz = lift mechanism 20L2500.N5



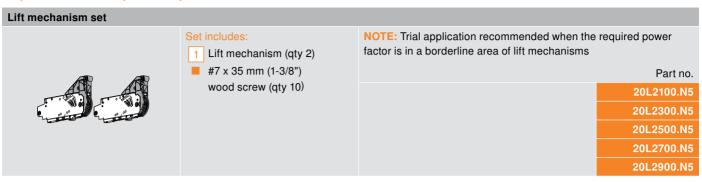
door weight including handle = 10 lb 5 oz

cabinet	min. opening	arm		lift mech	anism (door weigh	nt – Ib /oz)	
height	required	assembly	20L2100.N5	20L2300.N5	20L2500.N5	20L2700.N5	20L2900.N5
11-13/16" — 13-3/4"	10-5/16"	20L3200.06	2 /12 - 8 /7	8 /8 - 13 /7	13 /8 - 25 /4	25 /5 - 44 /0	_
13-13/16" — 15-11/16"	12-5/16"	20L3500.06	2 /12 - 4 /10	4 /11 - 10 /2	10 /3 - 18 /10	18 /11 - 28 /4	28 /5 - 44 /0
15-3/4" — 21-5/8"	14-1/4"	20L3800.06	-	3 /13 - 6 /13	6 /14 - 13 /11	13 /12 - 24 /7	24 /8 - 44 /0
17-11/16" — 22-13/16"	16-1/4"	20L3900.06	-	2 /3 - 3 /4	3 /5 - 10 /6	10 /7 - 19 /3	19 /4 - 36 /5

Ordering parts for wood or wide aluminum doors

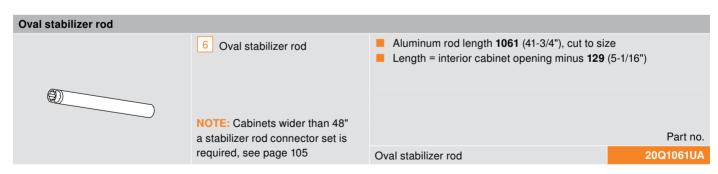


Step 2 – Select the required components





Arm assembly set			
FA MA	Set includes: 4 Right and left arm assembly 5 Stabilizer rod cover cap (qty 2)		
		Cabinet height	Part no.
		300 (11-13/16") - 349 (13-3/4")	20L3200.06
		350 (13-13/16") - 399 (15-13/16")	20L3500.06
y o y		400 (15-3/4") - 550 (21-5/8")	20L3800.06
		450 (17-11/16") - 580 (22-13/16")	20L3900.06



Wood or wide aluminum door hard	dware set		
	Set includes: 7 Arm assembly mounting plate (qty 2)		Part no.
		Wood or wide aluminum hardware set	
		Installation screw for wood doors	606N or 606P
		Installation screw for wide aluminum doors	7072A

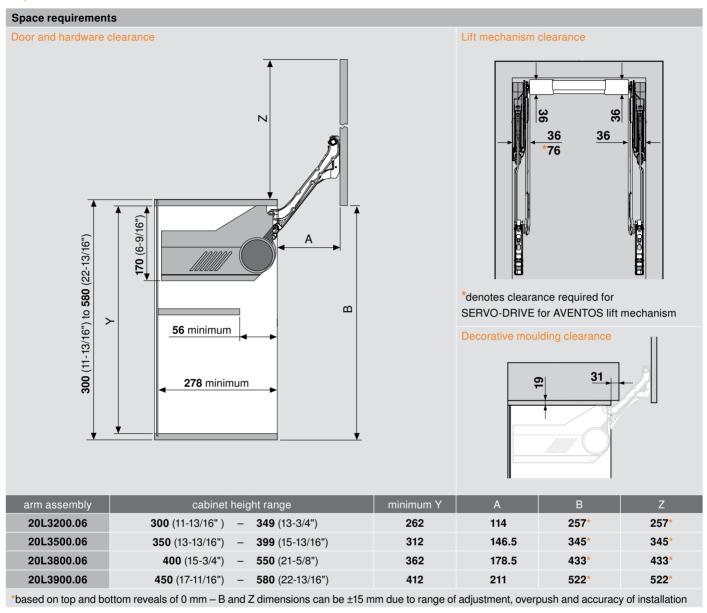


SERVO-DRIVE for AVENTOS available

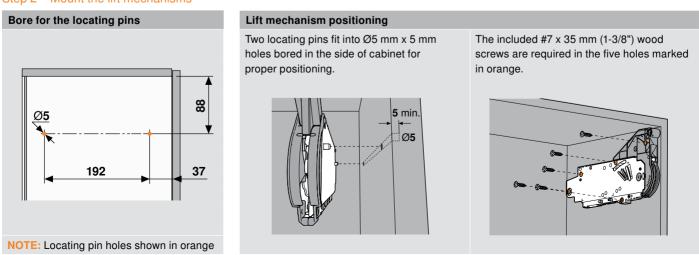
Please see SERVO-DRIVE for AVENTOS brochure for part and ordering information at blum.com

AVENTOS HL - Panel cabinets

Step 1 - Check clearances



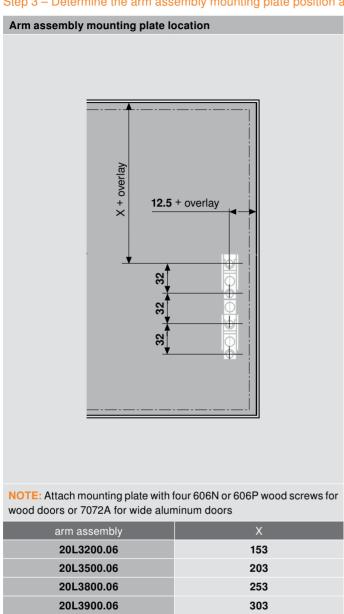
Step 2 - Mount the lift mechanisms

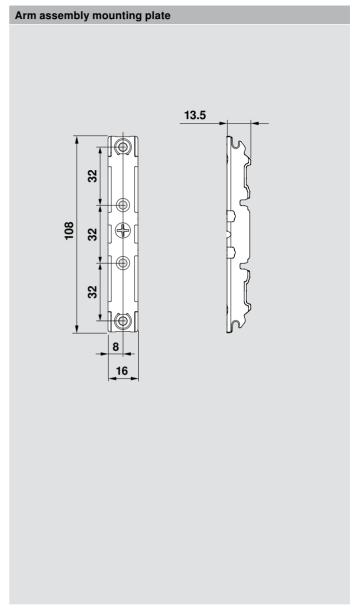


Cabinet preparation for wood or wide aluminum doors



Step 3 – Determine the arm assembly mounting plate position and attach to the door

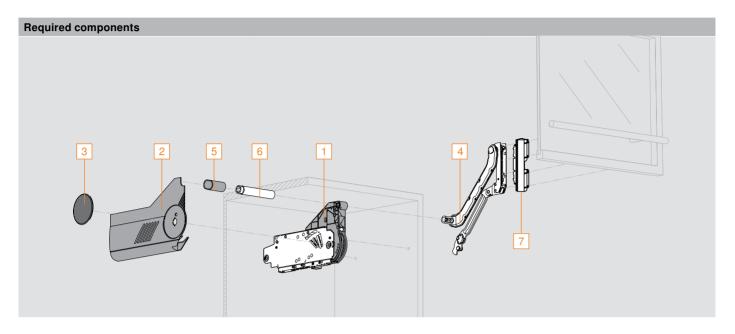




Step 4 – Assemble the cabinet

Follow the assembly instructions on page 96

AVENTOS HL - Panel cabinets





Warning: Risk of injury by spring-loaded arm assembly!

- Do not push telescopic arm down
- Remove telescopic arm from mechanism before installing cabinet



Step 1 – Select the required lift mechanism and arm assembly

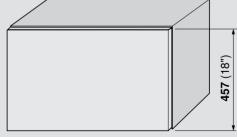
AVENTOS planning tools available at blum.com/planning

Determining the required hardware based on application

Find the required cabinet height in the first column. This will give you the required arm assembly. Continue right in that row to find the mechanism that works for the weight of your door.

Example:

Cabinet height of **457** (18") = arm assembly 20L3800.06 Door weight of 10 lb 5 oz = lift mechanism 20L2500.N5



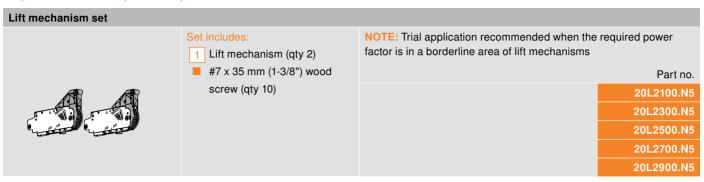
door weight including handle = 10 lb 5 oz

cabinet	min. opening	arm	lift mechanism (door weight – lb /oz)				
height	required	assembly	20L2100.N5	20L2300.N5	20L2500.N5	20L2700.N5	20L2900.N5
11-13/16" — 13-3/4"	10-5/16"	20L3200.06	2 /12 - 8 /7	8 /8 - 13 /7	13 /8 - 25 /4	25 /5 - 44 /0	-
13-13/16" — 15-11/16"	12-5/16"	20L3500.06	2 /12 - 4 /10	4 /11 - 10 /2	10 /3 - 18 /10	18 /11 - 28 /4	28 /5 - 44 /0
15-3/4" — 21-5/8"	14-1/4"	20L3800.06	_	3 /13 - 6 /13	6 /14 - 13 /11	13 /12 - 24 /7	24 /8 - 44 /0
17-11/16" — 22-13/16"	16-1/4"	20L3900.06	_	2 /3 - 3 /4	3 /5 - 10 /6	10 /7 - 19 /3	19 /4 - 36 /5

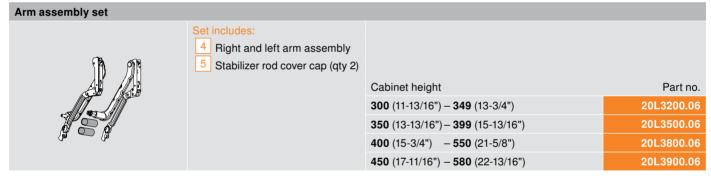
Ordering parts for narrow aluminum doors



Step 2 – Select the required components







Oval stabilizer rod			
	6 Oval stabilizer rod	 Aluminum rod length 1061 (41-3/4"), cut to si Length = interior cabinet opening minus 129 	
	NOTE: Cabinets wider than 48" a stabilizer rod connector set is		Part no.
	required, see page 105	Oval stabilizer rod	20Q1061UA

Narrow aluminum door hardware	set		
	Set includes: 7 Narrow aluminum arm mounting plate (qty 2) 699.110 – Aluminum screw for narrow aluminum lever arm mounting plate (qty 8)	Narrow aluminum hardware set	Part no. 20S4200A

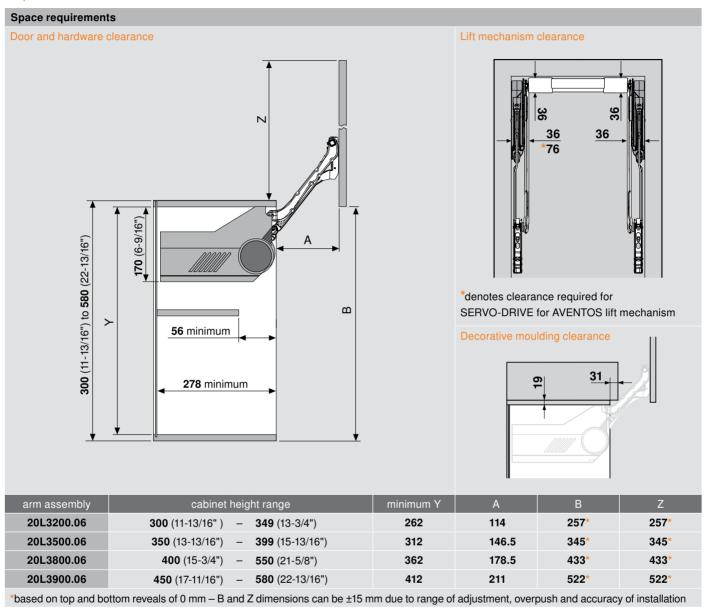


SERVO-DRIVE for AVENTOS available

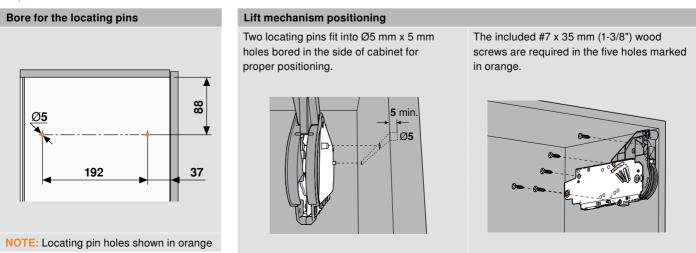
Please see SERVO-DRIVE for AVENTOS brochure for part and ordering information at blum.com

AVENTOS HL - Panel cabinets

Step 1 - Check clearances



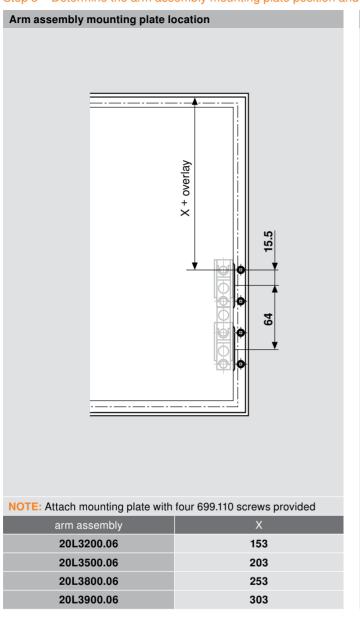
Step 2 - Mount the lift mechanisms

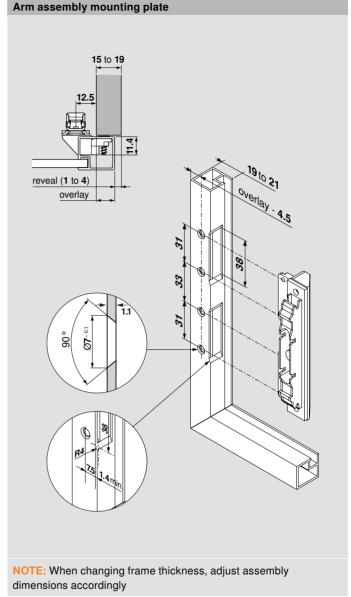


Cabinet preparation for narrow aluminum doors



Step 3 – Determine the arm assembly mounting plate position and attach to the door

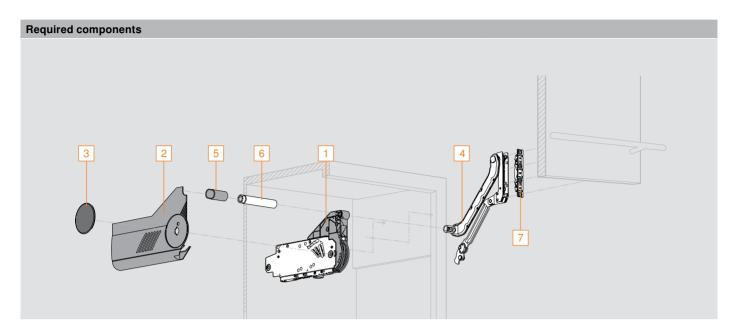




Step 4 - Assemble the cabinet

Follow the assembly instructions on page 96

AVENTOS HL – Face frame appliance garage





Warning: Risk of injury by spring-loaded arm assembly!

- Do not push arm assembly down
- Remove arm assembly from mechanism before installing cabinet



Step 1 - Select the required lift mechanism and arm assembly

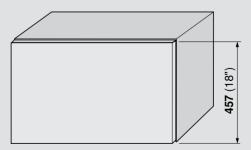
AVENTOS planning tools available at blum.com/planning

Determining the required hardware based on application

Find the required cabinet height in the first column. This will give you the required arm assembly. Continue right in that row to find the mechanism that works for the weight of your door.

Example:

Cabinet height of **457** (18") = arm assembly 20L3900.06 Door weight of 10 lb 5 oz = lift mechanism 20L2500.N5



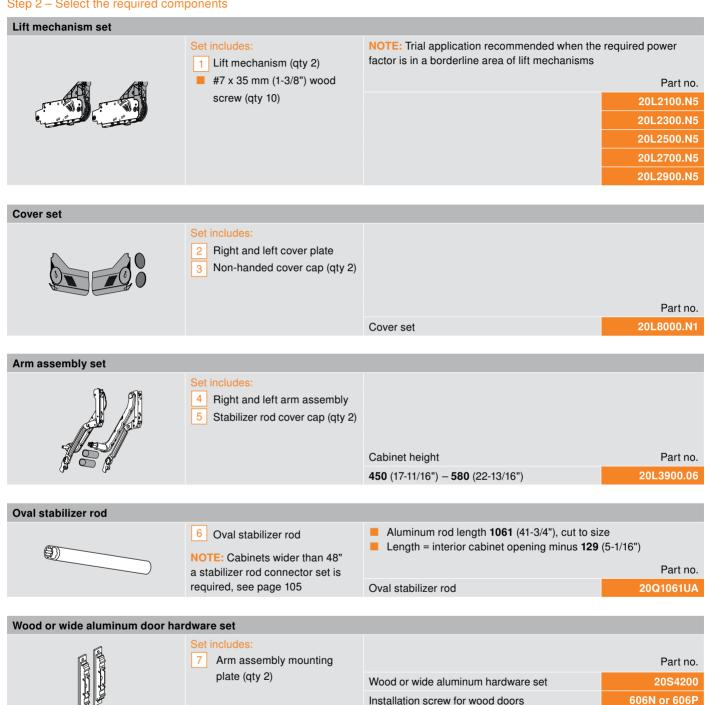
door weight including handle = 10 lb 5 oz

Cabinet	Min. opening	Arm	Lift mechanism (door weight – lb /oz)				
height	required	assembly	20L2100.N5	20L2300.N5	20L2500.N5	20L2700.N5	20L2900.N5
17-11/16" — 22-13/16"	16-1/4"	20L3900.06	-	2 /3 - 3 /4	3 /5 - 10 /6	10 /7 - 19 /3	19 /4 - 36 /5

Ordering parts for wood or wide aluminum doors



Step 2 – Select the required components



Mounting plate with bracket s	et		
	Set includes: Mounting plate with bracket (qty 2)	For use with large overlay five-piece doors	Part no.
		Mounting plate with bracket set	20S4F01

Installation screw for wide aluminum doors

SERVO-DRIVE

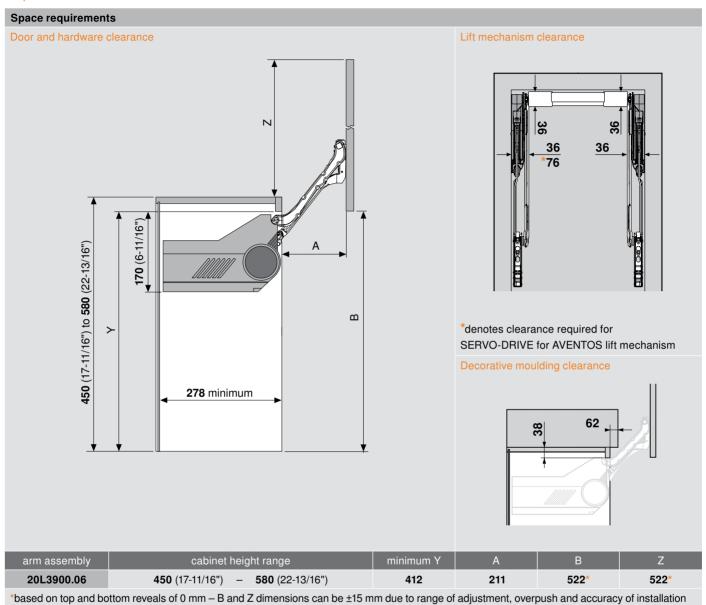
SERVO-DRIVE for AVENTOS available

Please see SERVO-DRIVE for AVENTOS brochure for part and ordering information at blum.com

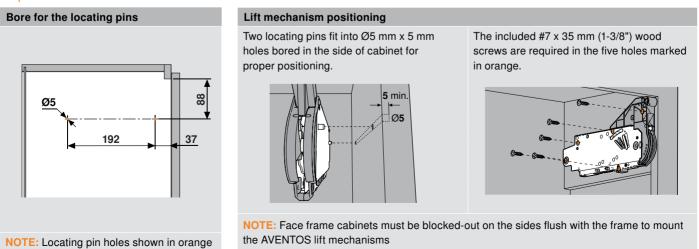
7072A

AVENTOS HL – Face frame appliance garage

Step 1 - Check clearances



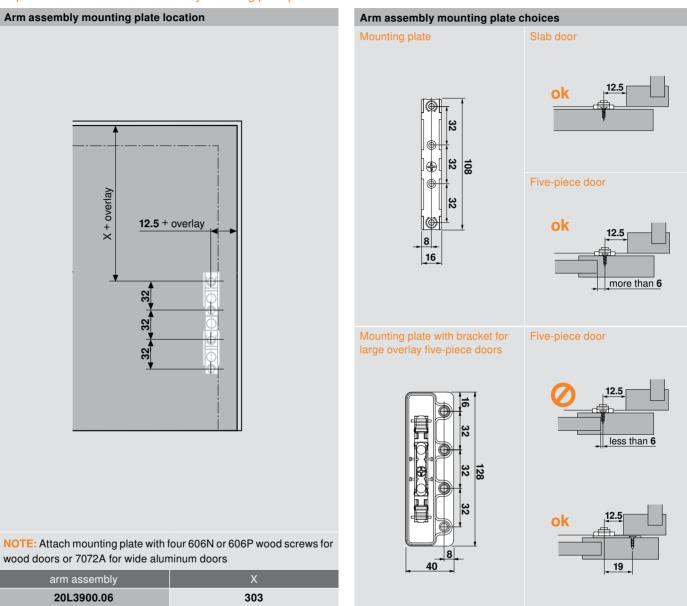
Step 2 - Mount the lift mechanisms



Cabinet preparation for wood or wide aluminum doors



Step 3 – Determine the arm assembly mounting plate position and attach to the door

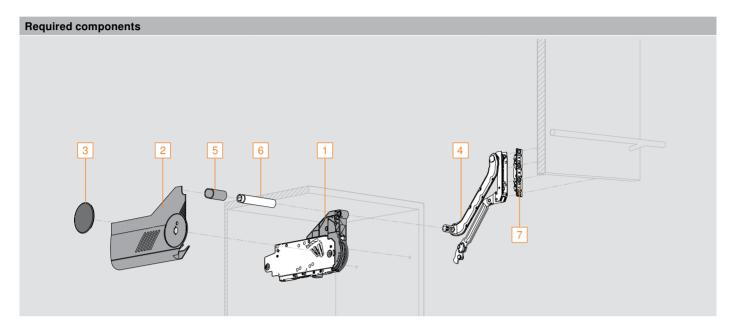


Step 4 - Assemble the cabinet

Follow the assembly instructions on page 96

For face frame corner cabinet appliance garage application see page 102

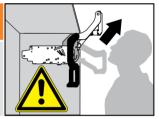
AVENTOS HL – Panel appliance garage





Warning: Risk of injury by spring-loaded arm assembly!

- Do not push arm assembly down
- Remove arm assembly from mechanism before installing cabinet



Step 1 - Select the required lift mechanism and arm assembly

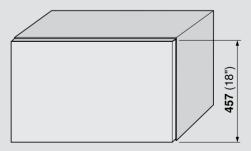
AVENTOS planning tools available at blum.com/planning

Determining the required hardware based on application

Find the required cabinet height in the first column. This will give you the required arm assembly. Continue right in that row to find the mechanism that works for the weight of your door.

Example:

Cabinet height of **457** (18") = arm assembly 20L3900.06 Door weight of 10 lb 5 oz = lift mechanism 20L2500.N5



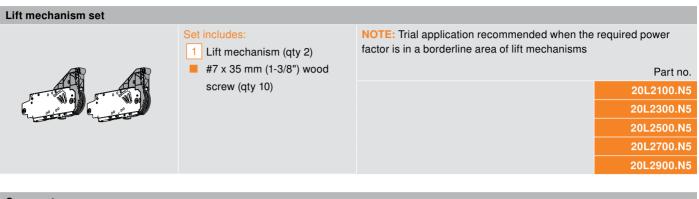
door weight including handle = 10 lb 5 oz

cabinet	min. opening	arm	lift mechanism (door weight – lb /oz)				
height	required	assembly	20L2100.N5	20L2300.N5	20L2500.N5	20L2700.N5	20L2900.N5
17-11/16" — 22-13/16"	16-1/4"	20L3900.06	-	2 /3 - 3 /4	3 /5 - 10 /6	10 /7 - 19 /3	19 /4 - 36 /5

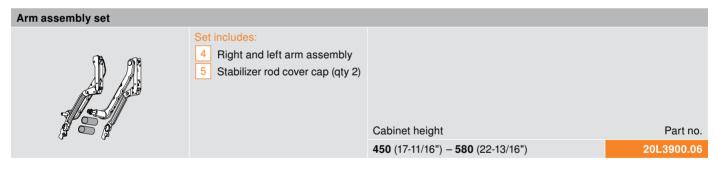
Ordering parts for wood or wide aluminum doors

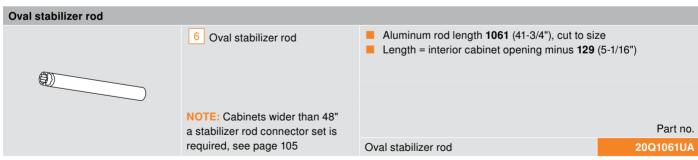


Step 2 – Select the required components









Wood or wide aluminum door har	dware set		
	Set includes: 7 Arm assembly mounting		
	plate (qty 2)		Part no.
		Wood or wide aluminum hardware set	20\$4200
		Installation screw for wood doors	606N or 606P
		Installation screw for wide aluminum doors	7072A

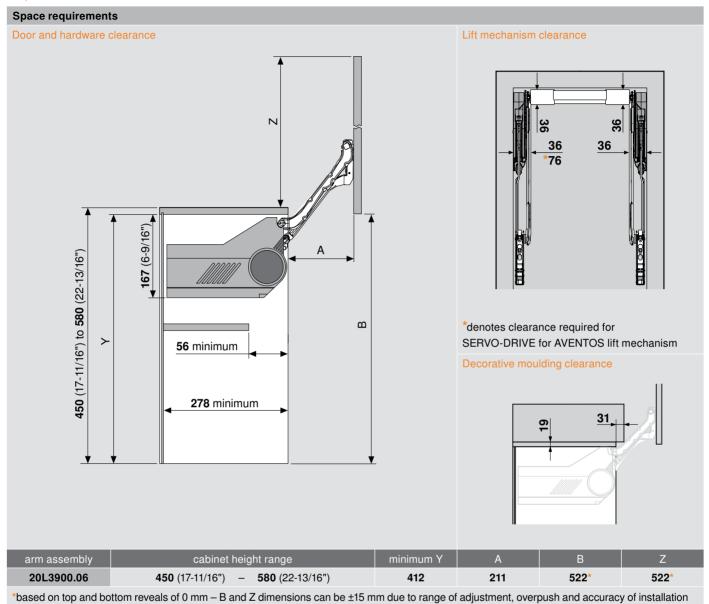
SERVO-DRIVE

SERVO-DRIVE for AVENTOS available

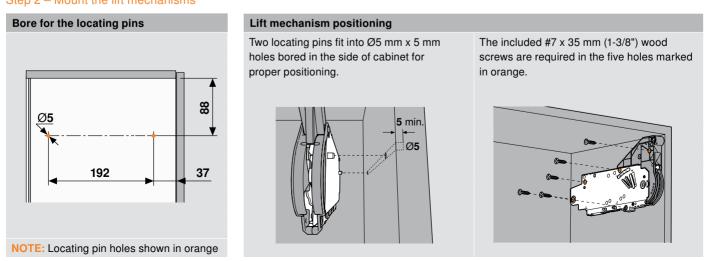
Please see SERVO-DRIVE for AVENTOS brochure for part and ordering information at blum.com

AVENTOS HL – Panel appliance garage

Step 1 - Check clearances



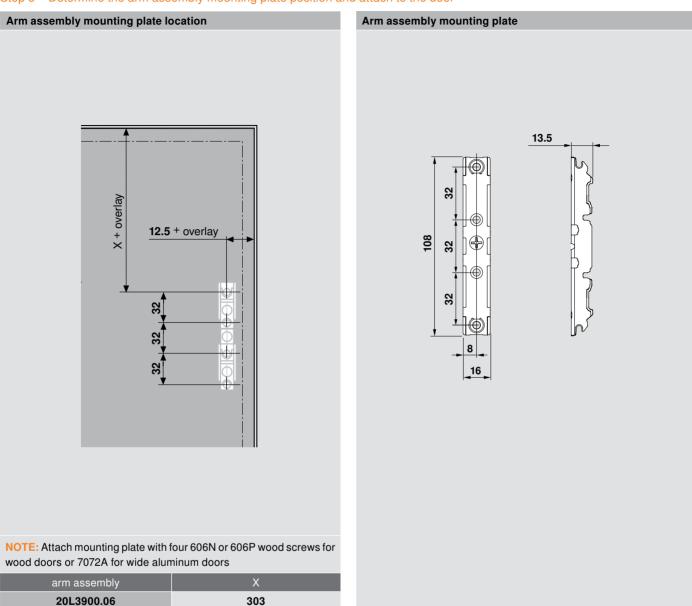
Step 2 - Mount the lift mechanisms



Cabinet preparation for wood or wide aluminum doors



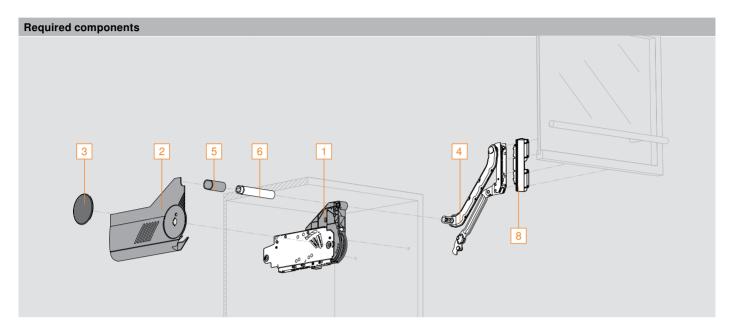
Step 3 – Determine the arm assembly mounting plate position and attach to the door



Step 4 - Assemble the cabinet

Follow the assembly instructions on page 96

AVENTOS HL – Panel appliance garage





Warning: Risk of injury by spring-loaded arm assembly!

- Do not push arm assembly down
- Remove arm assembly from mechanism before installing cabinet



Step 1 - Select the required lift mechanism and arm assembly

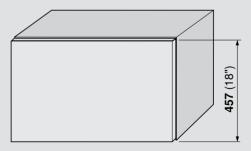
AVENTOS planning tools available at blum.com/planning

Determining the required hardware based on application

Find the required cabinet height in the first column. This will give you the required arm assembly. Continue right in that row to find the mechanism that works for the weight of your door.

Example:

Cabinet height of **457** (18") = arm assembly 20L3900.06 Door weight of 10 lb 5 oz = lift mechanism 20L2500.N5



door weight including handle = 10 lb 5 oz

cabinet	min. opening	arm	lift mechanism (door weight – lb /oz)				
height	required	assembly	20L2100.N5	20L2300.N5	20L2500.N5	20L2700.N5	20L2900.N5
17-11/16" — 22-13/16"	16-1/4"	20L3900.06	-	2 /3 - 3 /4	3 /5 - 10 /6	10 /7 - 19 /3	19 /4 - 36 /5

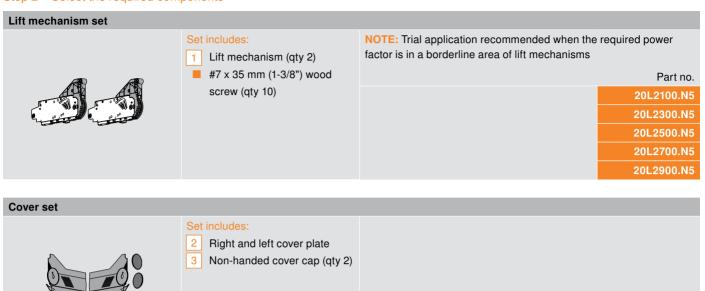
Ordering parts for narrow aluminum doors

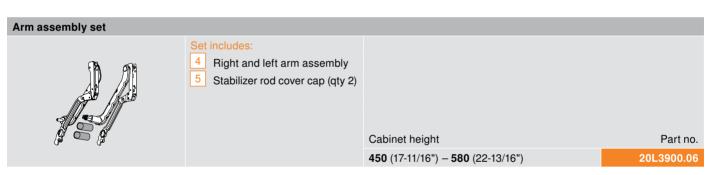


Part no.

20L8000.N1

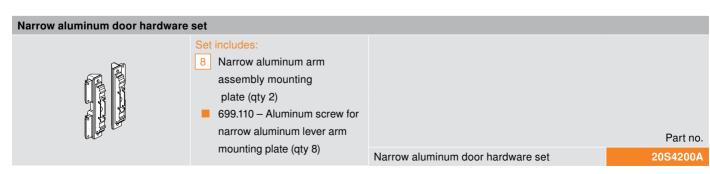
Step 2 – Select the required components





Cover set





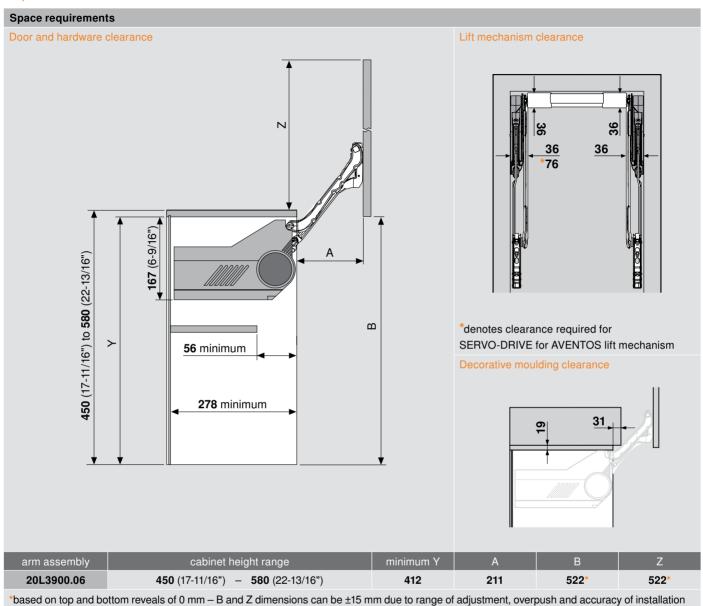


SERVO-DRIVE for AVENTOS available

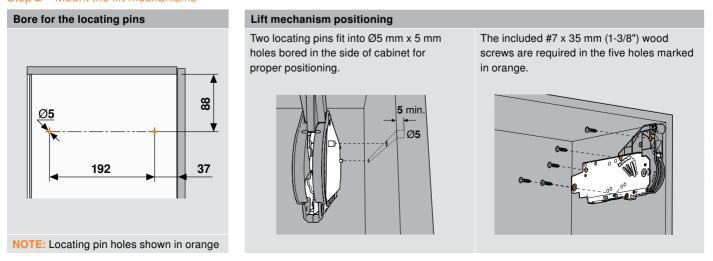
Please see SERVO-DRIVE for AVENTOS brochure for part and ordering information at blum.com

AVENTOS HL – Panel appliance garage

Step 1 - Check clearances



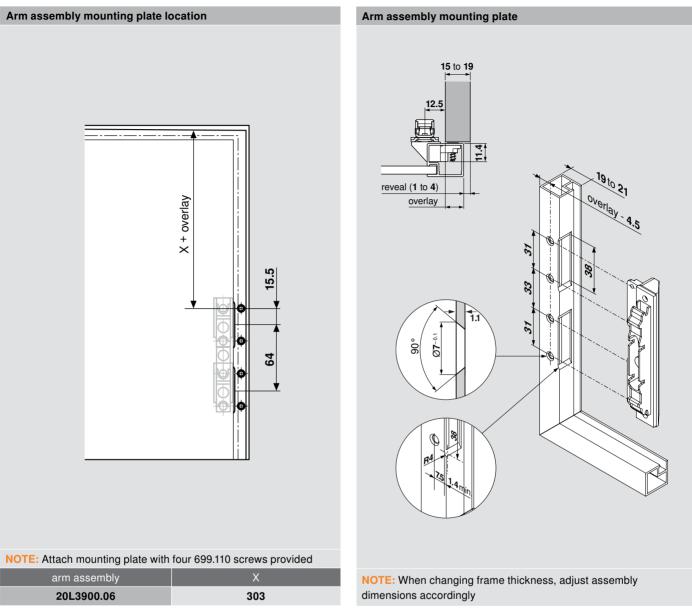
Step 2 - Mount the lift mechanisms



Cabinet preparation for narrow aluminum doors



Step 3 – Determine the arm assembly mounting plate position and attach to the door



Step 4 - Assemble the cabinet

Follow the assembly instructions on page 96

AVENTOS HK



A complete View of the cabinet interior







Few parts - many applications

The AVENTOS HK program has only four lift mechanisms and covers all common door widths and heights. This simplifies planning, ordering and warehousing.

NOTE: For ergonomic reasons, we recommend a maximum cabinet height of 610 (24").

Numerous design options

AVENTOS HK can be used in wall cabinets, in a pantry or above a refrigerator or other appliance.

Easy installation and adjustment

The three-dimensional adjustment feature enables doors to be precisely aligned.







The motion inside

The amount of technology and components placed into each lift mechanism are what provide the unparalleled smooth operation of AVENTOS.

AVENTOS planning tools

Blum has downloadable Excel® spreadsheets that provide the required parts and calculate the mounting locations for your application. They are available at blum.com/planning

AVENTOS HK - Face frame cabinets

Required components 4 3



Warning: Risk of injury by spring-loaded lever arm!

- Do not push lever arm down
- Secure lever arm before installing cabinet



Step 1 – Determine the power factor for the application

AVENTOS planning tools availableat blum.com/planning

Determine power factor

To select the correct lift mechanism for a given application, the power factor must first be calculated by using the formula below. Use the table at the bottom of the page to convert ounces into decimal form for easy calculation.

Power factor = cabinet height (inch) x door weight* (lb)

* Including twice the handle weight

Example:

Cabinet height: 20 inches (within possible range)

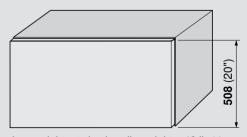
Door weight including twice the handle weight: 13 lb 14 oz (14 oz = .9 lb see chart below) Total weight converted to decimal is 13.9 lb

Power factor = cabinet height multiplied by door weight including twice the handle weight

Power factor = 20 x 13.9

Power factor = 278

A power factor of 278 requires lift mechanism 20K2700.N5



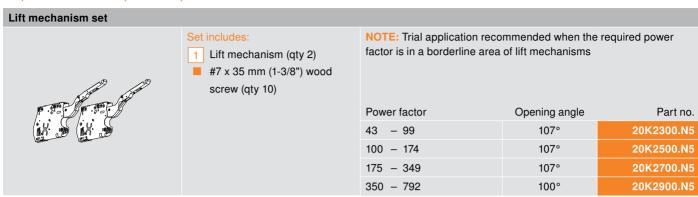
door weight + twice handle weight = 13 lb 14 oz

	weight conversion chart														
oz	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
lb	.1	.1	.2	.3	.3	.4	.4	.5	.6	.6	.7	.8	.8	.9	.9

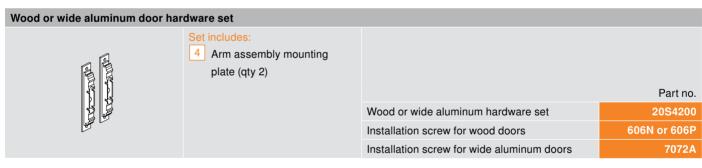
Ordering parts for wood or wide aluminum doors



Step 2 – Select the required components







Mounting plate with bracket set			
	Set includes: Mounting plate with bracket (qty 2)	For use with large overlay five-piece doors	
			Part no.
		Mounting plate with bracket set	20S4F01



SERVO-DRIVE for AVENTOS available

Please see SERVO-DRIVE for AVENTOS brochure for part and ordering information at blum.com

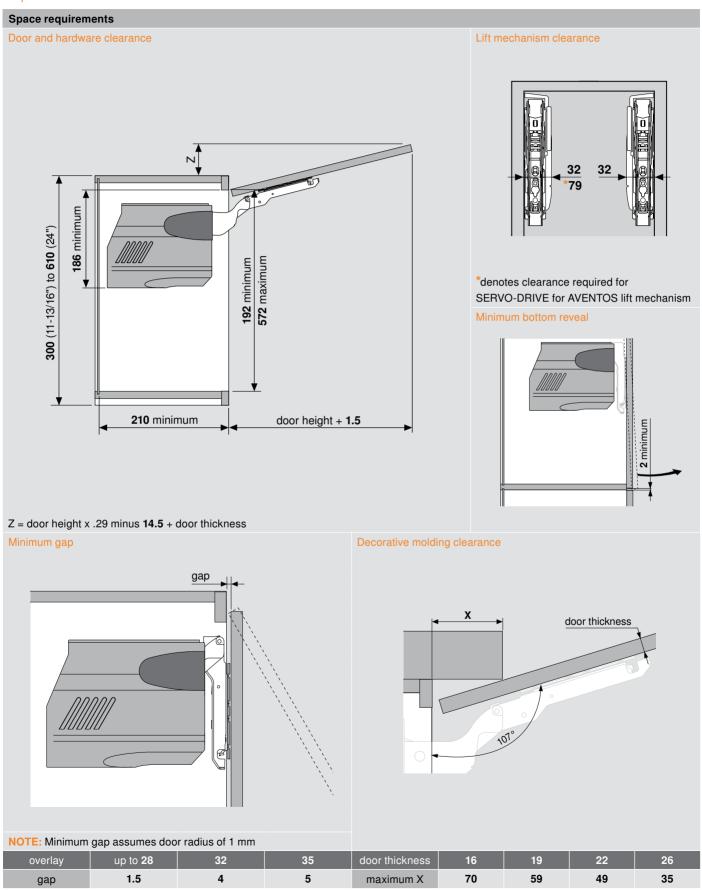


TIP-ON for AVENTOS HK available

Please see TIP-ON for AVENTOS brochure for part and ordering information at blum.com

AVENTOS HK - Face frame cabinets

Step 1 - Check clearances

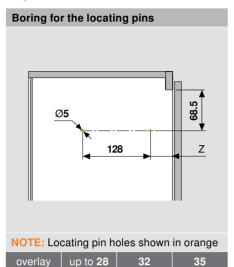


Cabinet preparation for wood or wide aluminum doors

the AVENTOS lift mechanisms



Step 2 - Mount the lift mechanisms



Z

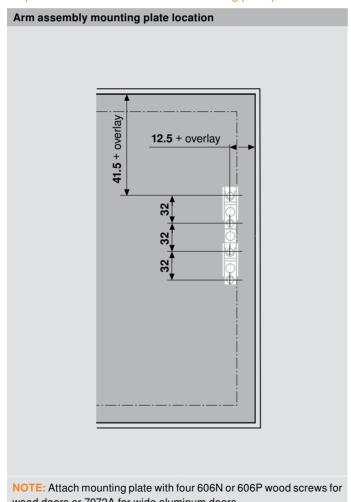
37

35

Lift mechanism positioning Two locating pins fit into \emptyset 5 mm x 5 mm The included #7 x 35 mm (1-3/8") wood screws are required in the three holes holes bored in the side of cabinet for proper positioning. marked in orange. 5 min. Ø5 NOTE: Face frame cabinets must be blocked-out on the sides flush with the frame to mount

Step 3 – Determine the lever arm mounting plate position and attach to the door

33



wood doors or 7072A for wide aluminum doors

Arm assembly mounting plate choices Mounting plate ok Five-piece door ok more than 6 Mounting plate with bracket for Five-piece door large overlay five-piece doors less than 6 19

Step 4 – Assemble the cabinet

Follow the assembly instructions on page 98

AVENTOS HK - Panel cabinets

Required components 4 3



Warning: Risk of injury by spring-loaded lever arm!

- Do not push lever arm down
- Secure lever arm before installing cabinet



Step 1 – Determine the power factor for the application

AVENTOS planning tools available at blum.com/planning

Determine power factor

To select the correct lift mechanism for a given application, the power factor must first be calculated by using the formula below. Use the table at the bottom of the page to convert ounces into decimal form for easy calculation.

Power factor = cabinet height (inch) x door weight* (lb)

* including twice the handle weight

Example:

Cabinet height: 20 inches (within possible range)

Door weight including twice the handle weight: 13 lb 14 oz (14 oz = .9 lb see chart below)

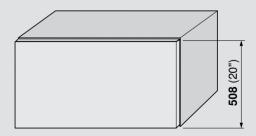
Total weight converted to decimal is 13.9 lb

Power factor = cabinet height multiplied by door weight including twice the handle weight

Power factor = 20 x 13.9

Power factor = 278

A power factor of 278 requires lift mechanism 20K2700.N5



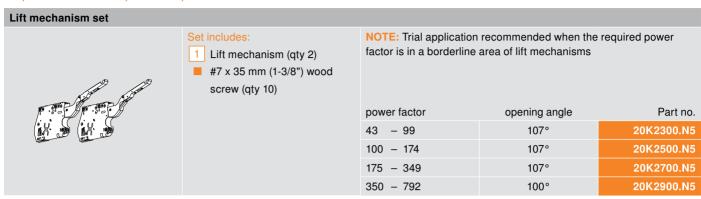
door weight + twice handle weight = 13 lb 14 oz

weight conversion chart															
oz	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
lb	.1	.1	.2	.3	.3	.4	.4	.5	.6	.6	.7	.8	.8	.9	.9

Ordering parts for wood or wide aluminum doors



Step 2 – Select the required components





Wood or wide aluminum door ha	rdware set		
	Set includes: 4 Arm assembly mounting plate (qty 2)		
			Part no.
		Wood or wide aluminum hardware set	20\$4200
		Installation screw for wood doors	606N or 606P
		Installation screw for wide aluminum doors	7072A

plate (qty 2)		
		Part no.
	Wood or wide aluminum hardware set	20S4200
	Installation screw for wood doors	606N or 606P
	Installation screw for wide aluminum doors	7072A

SERVO-DRIVE
inside

SERVO-DRIVE for AVENTOS available

Please see SERVO-DRIVE for AVENTOS brochure for part and ordering information at blum.com

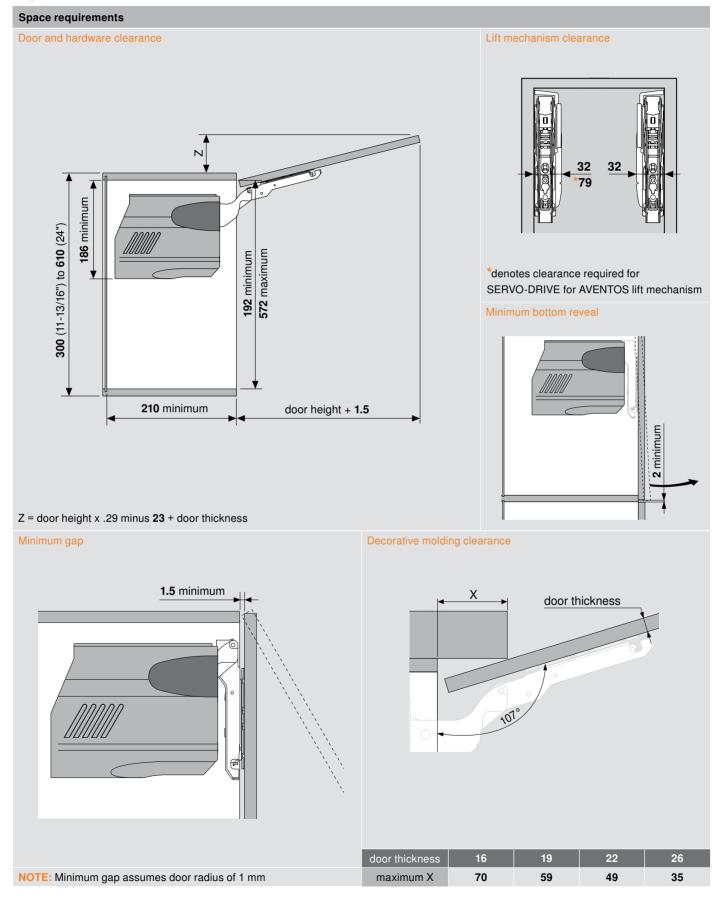


TIP-ON for AVENTOS HK available

Please see TIP-ON for AVENTOS brochure for part and ordering information at blum.com

AVENTOS HK - Panel cabinets

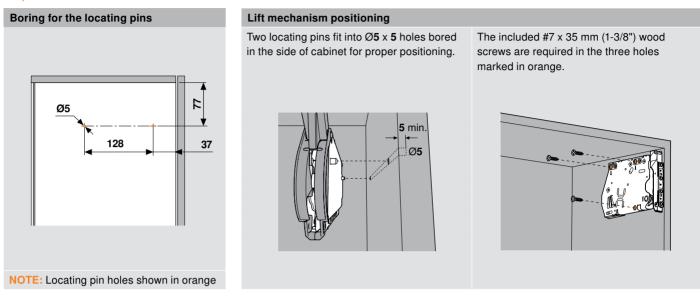
Step 1 - Check clearances

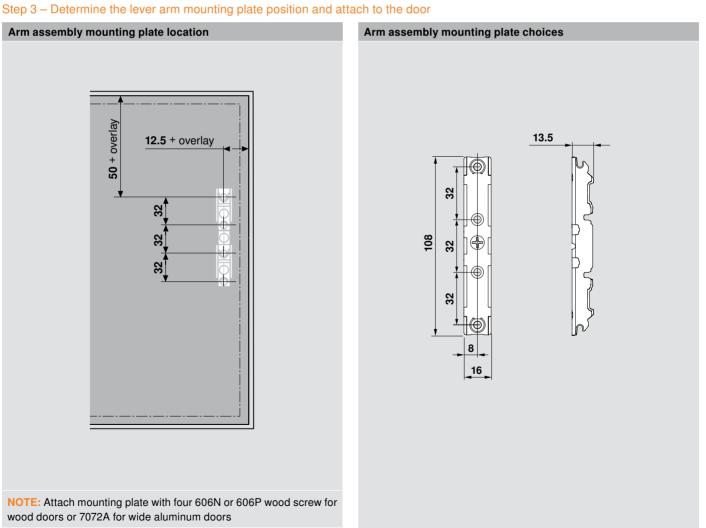


Cabinet preparation for wood or wide aluminum doors



Step 2 - Mount the lift mechanisms





Step 4 – Assemble the cabinet

Follow the assembly instructions on page 98

AVENTOS HK - Panel cabinets

Required components 4 3



Warning: Risk of injury by spring-loaded lever arm!

- Do not push lever arm down
- Secure lever arm before installing cabinet



Step 1 – Determine the power factor for the application

AVENTOS planning tools available at blum.com/planning

Determine power factor

To select the correct lift mechanism for a given application, the power factor must first be calculated by using the formula below. Use the table at the bottom of the page to convert ounces into decimal form for easy calculation.

Power factor = cabinet height (inch) x door weight* (lb)

* including twice the handle weight

Cabinet height: 20 inches (within possible range)

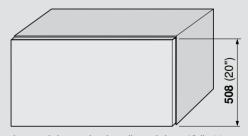
Door weight including twice the handle weight: 13 lb 14 oz (14 oz = .9 lb see chart below) Total weight converted to decimal is 13.9 lb

Power factor = cabinet height multiplied by door weight including twice the handle weight

Power factor = 20 x 13.9

Power factor = 278

A power factor of 278 requires lift mechanism 20K2700.N5



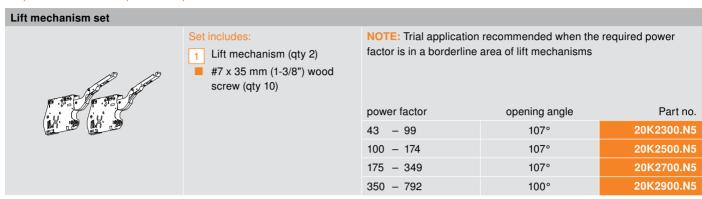
door weight + twice handle weight = 13 lb 14 oz

weight conversion chart															
oz	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
lb	.1	.1	.2	.3	.3	.4	.4	.5	.6	.6	.7	.8	.8	.9	.9

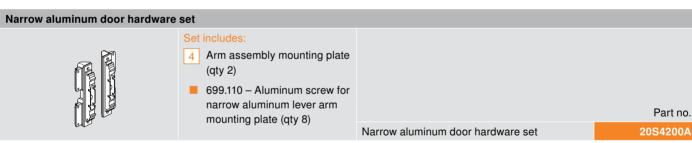
Ordering parts for narrow aluminum doors



Step 2 – Select the required components









SERVO-DRIVE for AVENTOS available

Please see SERVO-DRIVE for AVENTOS brochure for part and ordering information at blum.com

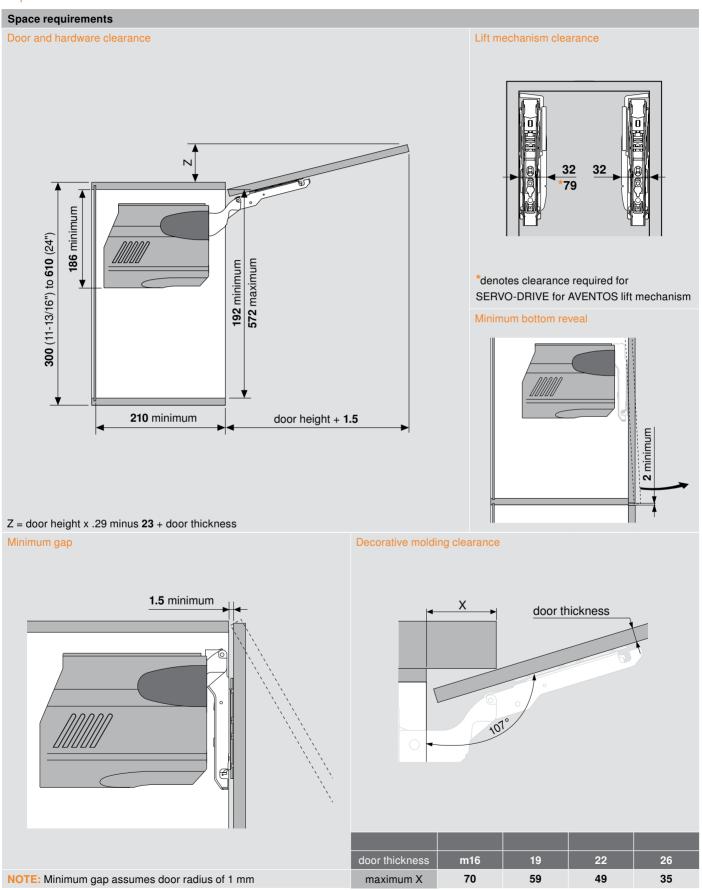


TIP-ON for AVENTOS HK available

Please see TIP-ON for AVENTOS brochure for part and ordering information at blum.com

AVENTOS HK – Panel cabinets

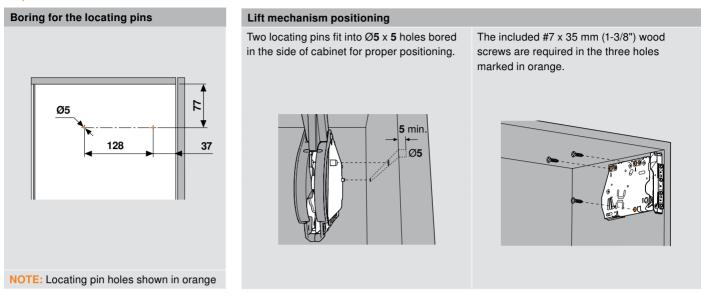
Step 1 - Check clearances



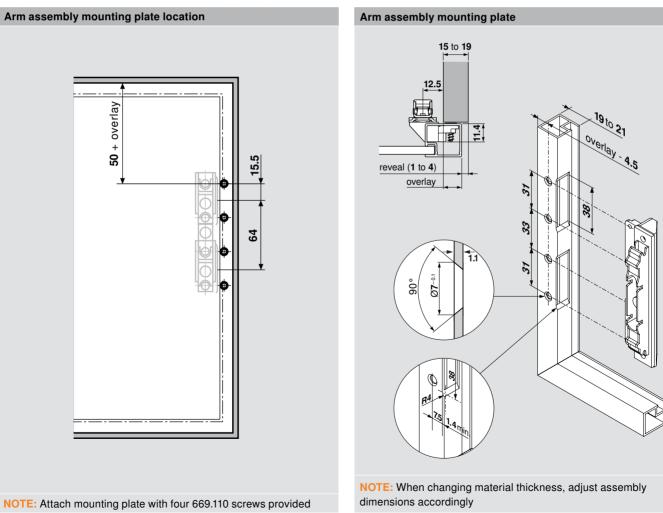
Cabinet preparation for narrow aluminum door



Step 2 - Mount the lift mechanisms

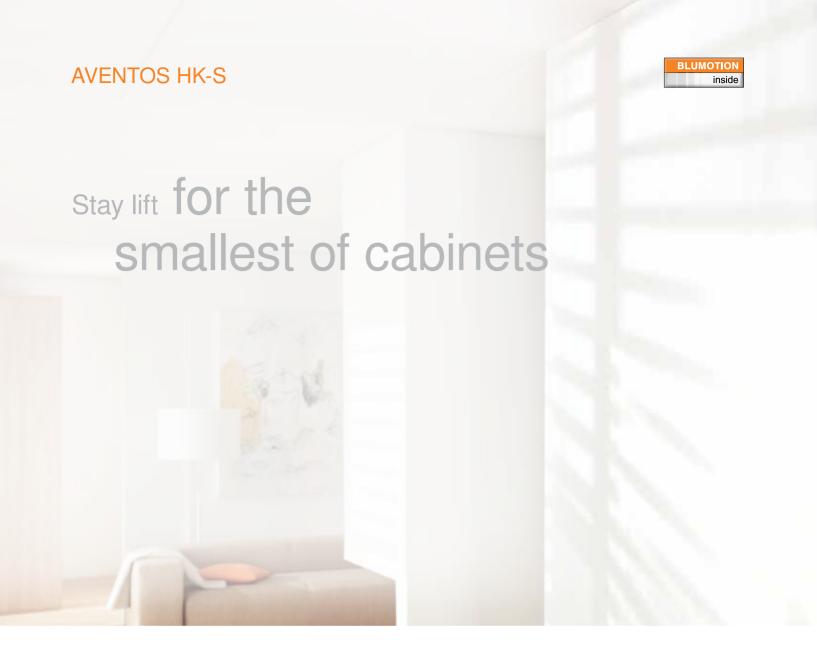


Step 3 – Determine the Lever arm mounting plate position and attach to the door



Step 4 - Assemble the cabinet

Follow the assembly instructions on page 98









Few parts - many applications

The AVENTOS HK-S program has only three lift mechanisms and covers smaller door heights. This simplifies planning, ordering and warehousing.

Numerous design options

AVENTOS HK-S can be used in small wall cabinets, above a refrigerator or in a pantry.

Easy installation and adjustment

The three-dimensional adjustment feature enables doors to be precisely aligned.







The motion inside

The amount of technology and components placed into each lift mechanism are what provide the unparalleled smooth operation of AVENTOS.

AVENTOS planning tools

Blum has downloadable Excel® spreadsheets that provide the required parts and calculate the mounting locations for your application. They are available at blum.com/planning.

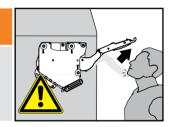
AVENTOS HK-S - Face frame cabinets

Required components



Warning: Risk of injury by spring-loaded lever arm!

- Do not push lever arm down
- Secure lever arm before installing cabinet



Step 1 – Determine the power factor for the application



AVENTOS planning tools available at blum.com/planning

Determine power factor

To select the correct lift mechanism for a given application, the power factor must first be calculated by using the formula below. Use the table at the bottom of the page to convert ounces into decimal form for easy calculation.

Power factor = cabinet height (inch) × door weight* (lb)

* Including twice the handle weight

Cabinet height: 9 inches (within possible range)

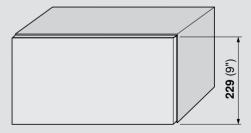
Door weight including twice the handle weight: 5 lb 14 oz (14 oz = .9 lb see chart below) Total weight converted to decimal is 5.9 lb

Power factor = cabinet height multiplied by door weight including twice the handle weight

Power factor = 9 x 5.9

Power factor = 53.1

A power factor of 53.1 requires lift mechanism 20K2C00.N1



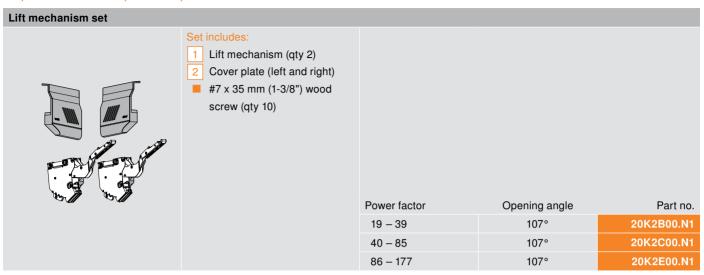
door weight + twice handle weight = 5 lb 14 oz

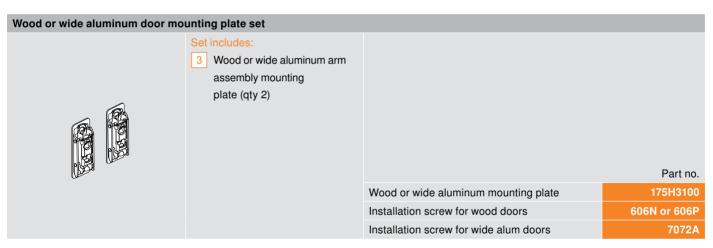
weight conversion chart															
oz	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
lb	.1	.1	.2	.3	.3	.4	.4	.5	.6	.6	.7	.8	.8	.9	.9

Ordering parts for wood or wide aluminum doors



Step 2 – Select the required components





Mounting plate with bracket set			
	Set includes: Right and left mounting plate with bracket	For use with large overlay five-piece doors	
			Part no.
		Mounting plate with bracket set	175H3F00

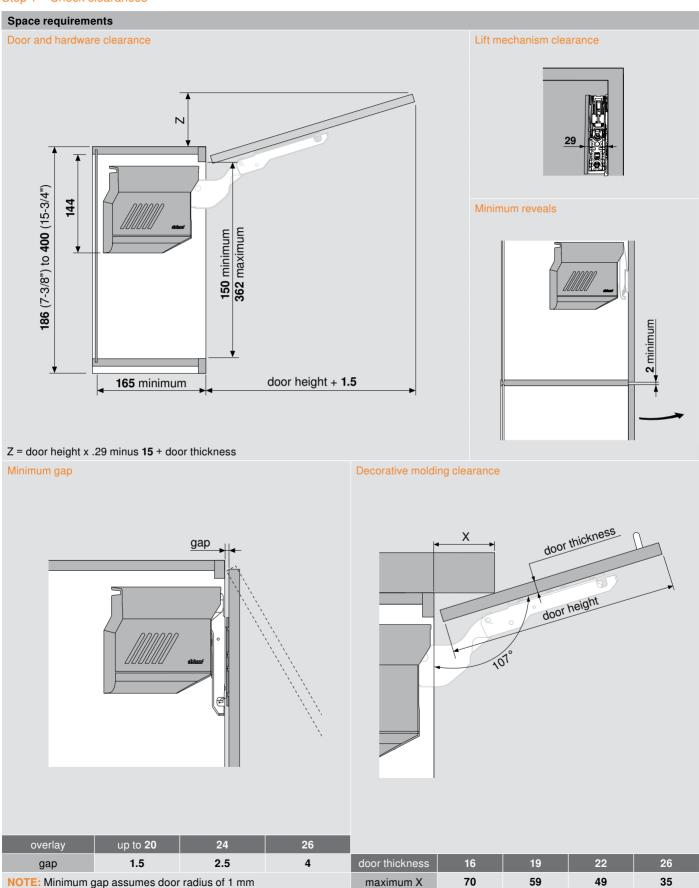
inside

TIP-ON for AVENTOS HK-S available

Please see TIP-ON for AVENTOS brochure for part and ordering information at blum.com

AVENTOS HK-S - Face frame cabinets

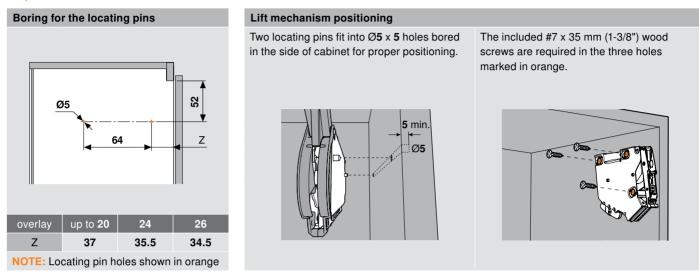
Step 1 - Check clearances



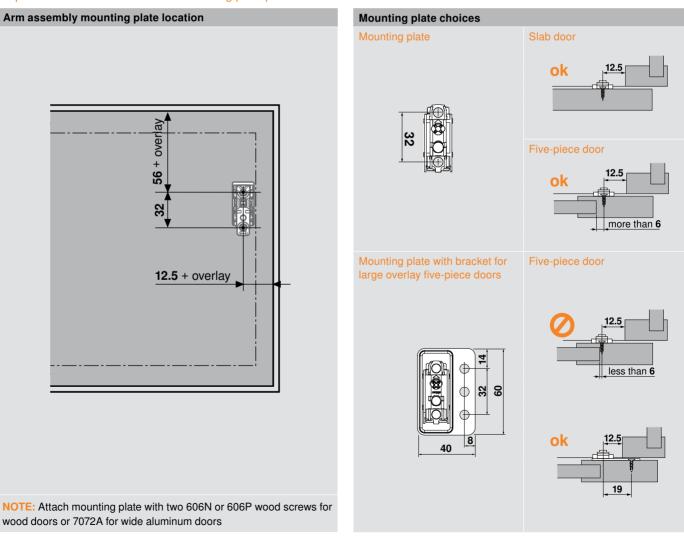
Cabinet preparation for wood or wide aluminum doors



Step 2 - Mount the lift mechanisms



Step 3 – Determine the Lever arm mounting plate position and attach to the door



Step 4 – Assemble the cabinet

Follow the assembly instructions on page 98

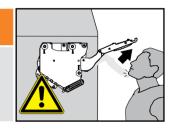
AVENTOS HK-S – Panel cabinets

Required components



Warning: Risk of injury by spring-loaded lever arm!

- Do not push lever arm down
- Secure lever arm before installing cabinet



Step 1 – Determine the power factor for the application



AVENTOS planning tools available at blum.com/planning

Determine power factor

To select the correct lift mechanism for a given application, the power factor must first be calculated by using the formula below. Use the table at the bottom of the page to convert ounces into decimal form for easy calculation.

Power factor = cabinet height (inch) x door weight* (lb)

* Including twice the handle weight

Example:

Cabinet height: 9 inches (within possible range)

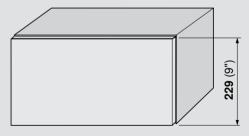
Door weight including twice the handle weight: 5 lb 14 oz (14 oz = .9 lb see chart below) Total weight converted to decimal is 5.9 lb

Power factor = cabinet height multiplied by door weight including twice the handle weight

Power factor = 9 x 5.9

Power factor = 53.1

A power factor of 53.1 requires lift mechanism 20K2C00.N1



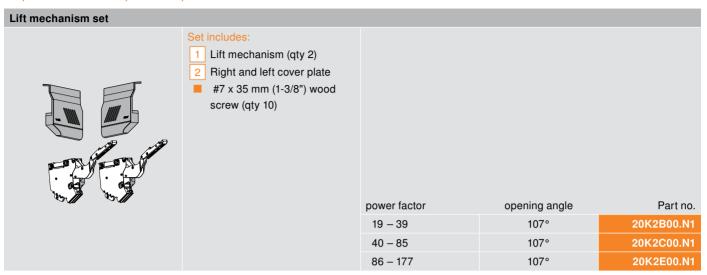
door weight + twice handle weight = 5 lb 14 oz

weight conversion chart															
oz	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
lb	.1	.1	.2	.3	.3	.4	.4	.5	.6	.6	.7	.8	.8	.9	.9

Ordering parts for wood or wide aluminum doors



Step 2 – Select the required components



Wood or wide aluminum door mounting plate set					
	Set includes: 3 Wood or wide aluminum arm assembly mounting plate (qty 2)	Mounting plate for use with AVENTOS HK-S only			
Wares .			Part no.		
		Wood or wide aluminum mounting plate	175H3100		
		Installation screw for wood doors	606N or 606P		
		Installation screw for wide alum doors	7072A		

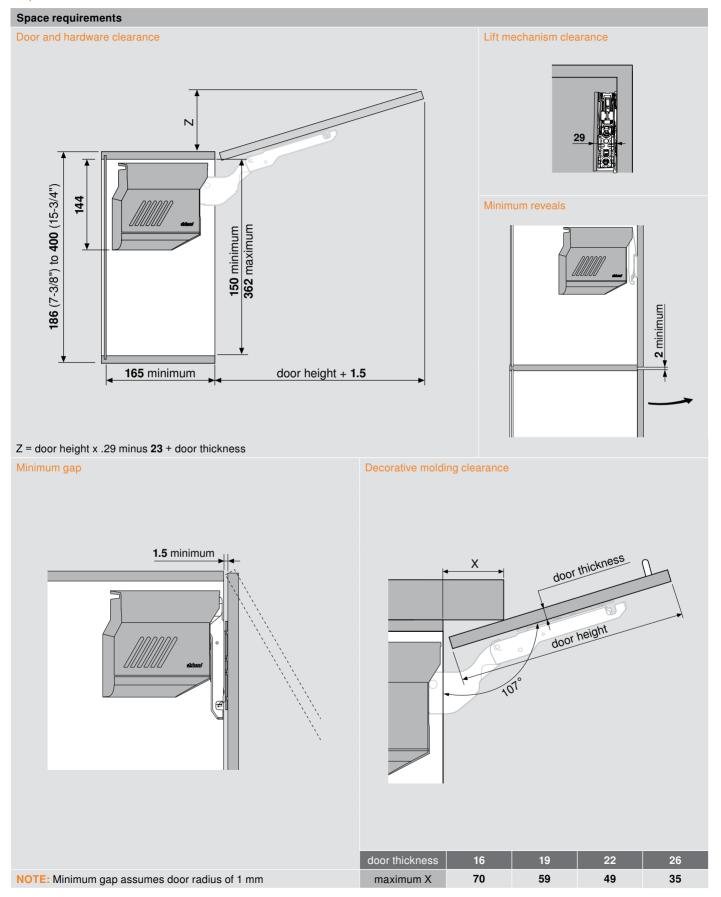


TIP-ON for AVENTOS HK-S available

Please see TIP-ON for AVENTOS brochure for part and ordering information at blum.com

AVENTOS HK-S - Panel cabinets

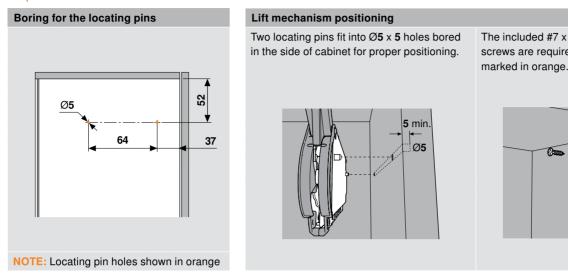
Step 1 - Check clearances

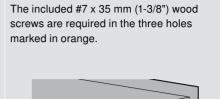


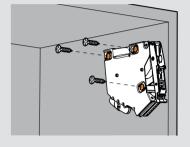
Cabinet preparation for wood or wide aluminum doors



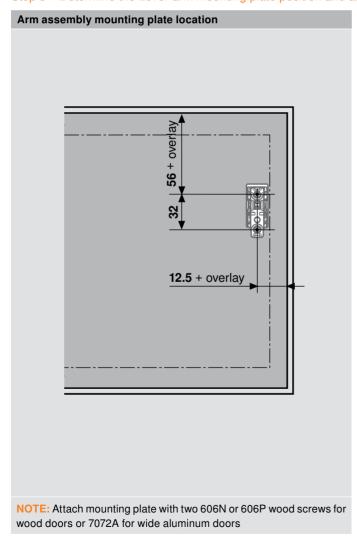
Step 2 - Mount the lift mechanisms

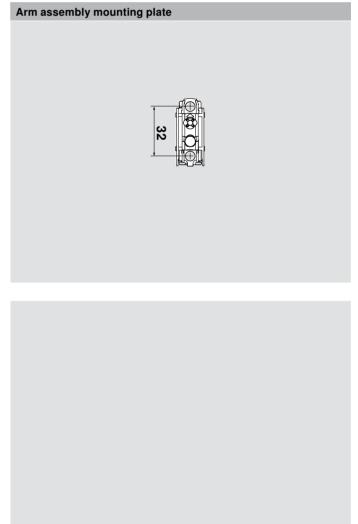






Step 3 – Determine the Lever arm mounting plate position and attach to the door





Step 4 – Assemble the cabinet

Follow the assembly instructions on page 98

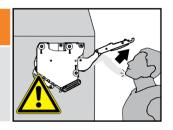
AVENTOS HK-S – Panel cabinets

Required components



Warning: Risk of injury by spring-loaded lever arm!

- Do not push lever arm down
- Secure lever arm before installing cabinet



Step 1 – Determine the power factor for the application

AVENTOS planning tools available at blum.com/planning

Determine power factor

To select the correct lift mechanism for a given application, the power factor must first be calculated by using the formula below. Use the table at the bottom of the page to convert ounces into decimal form for easy calculation.

Power factor = cabinet height (inch) x door weight* (lb)

* Including twice the handle weight

Example:

Cabinet height: 9 inches (within possible range)

Door weight including twice the handle weight: 5 lb 14 oz (14 oz = .9 lb see chart below)

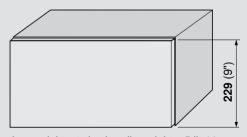
Total weight converted to decimal is 5.9 lb

Power factor = cabinet height multiplied by door weight including twice the handle weight

Power factor = 9 x 5.9

Power factor = 53.1

A power factor of 53.1 requires lift mechanism 20K2C00.N1



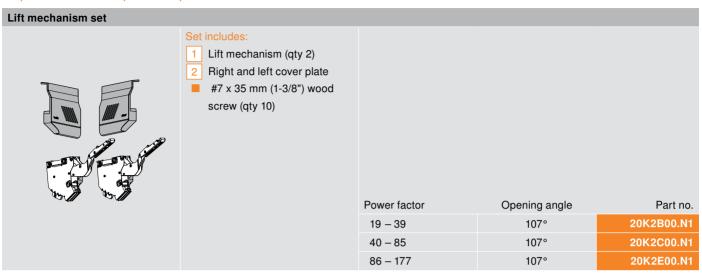
door weight + twice handle weight = 5 lb 14 oz

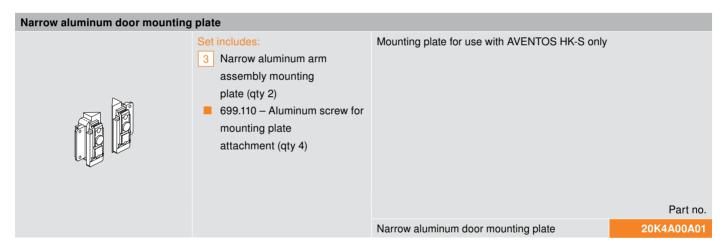
weight conversion chart															
OZ	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
lb	.1	.1	.2	.3	.3	.4	.4	.5	.6	.6	.7	.8	.8	.9	.9

Ordering information for narrow aluminum doors



Step 2 – Select the required components





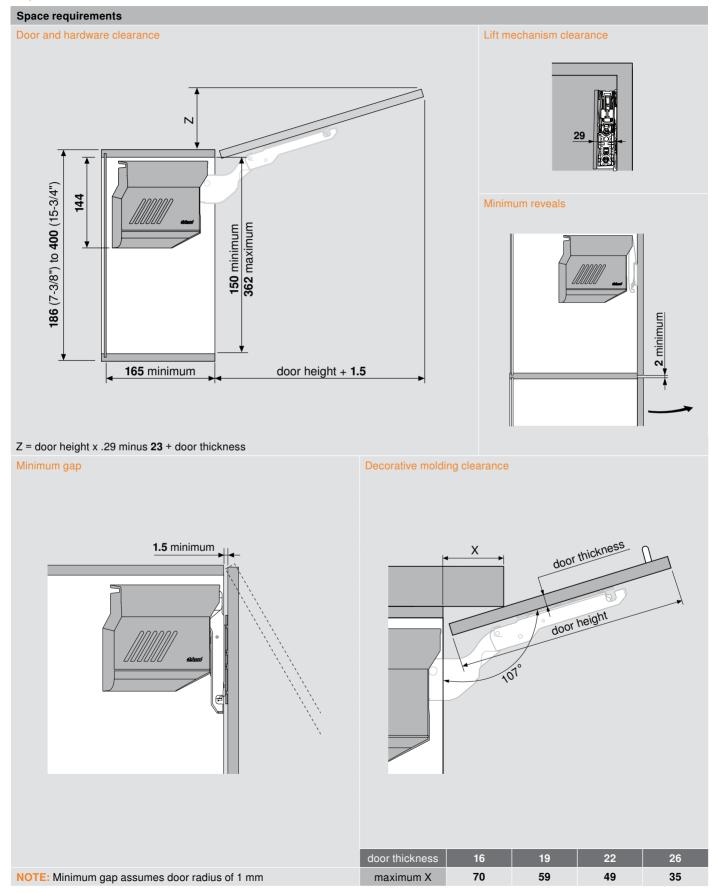


TIP-ON for AVENTOS HK-S available

Please see TIP-ON for AVENTOS brochure for part and ordering information at blum.com

AVENTOS HK-S - Panel cabinets

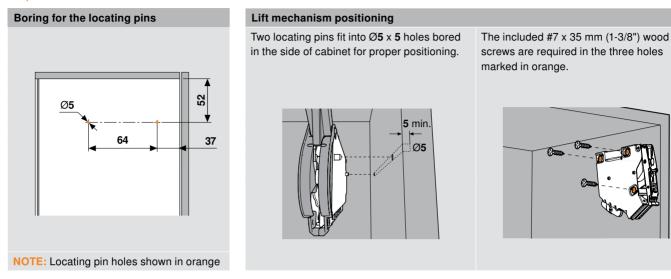
Step 1 - Check clearances



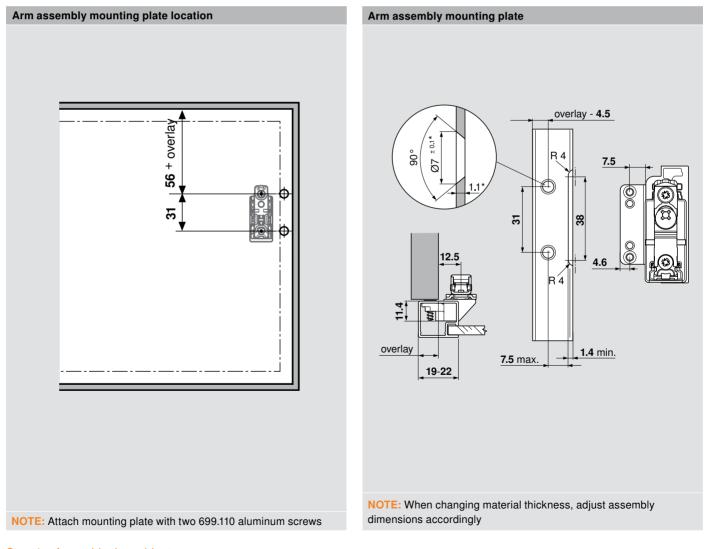
Cabinet preparation for narrow aluminum doors



Step 2 - Mount the lift mechanisms

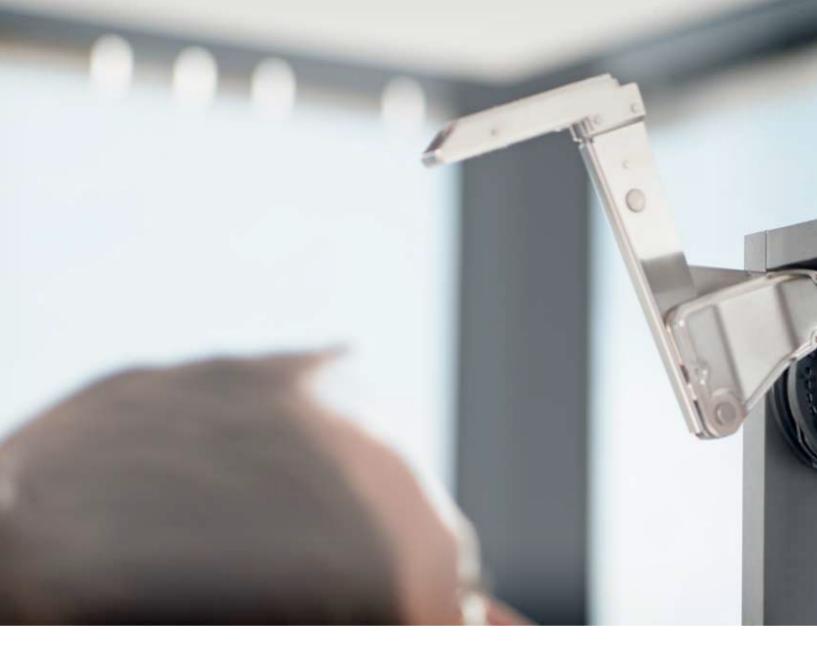


Step 3 – Determine the Lever arm mounting plate position and attach to the door



Step 4 - Assemble the cabinet

Follow the assembly instructions on page 98



easy installation, and adjustment

AVENTOS can be assembled with ease and the proven CLIP technology makes the process almost entirely tool-free.



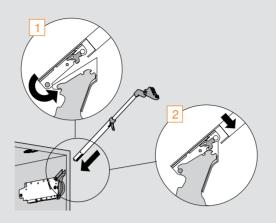


The only tool required is a hand held drill for adjusting the lift mechanism in precise accordance with the front weight. The fact that the cross stabilizer rods for AVENTOS HS and HL are attached without tools significantly reduces the amount of effort required for assembly.

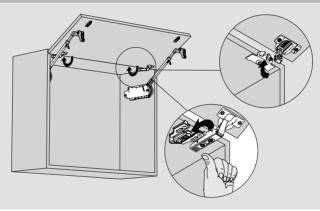
Fronts can be conveniently adjusted three-dimensions to ensure proper door alignment.

AVENTOS HF – Assembly

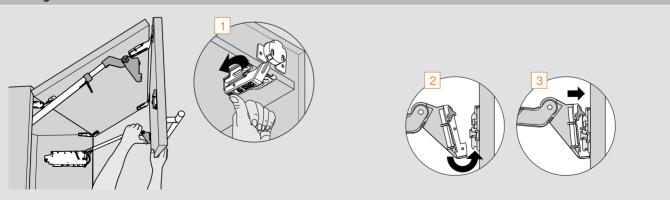
Attaching the telescopic arms



Attaching the top door to the cabinet



Attaching the bottom door to the cabinet





Warning: Risk of injury by spring-loaded telescopic arm!

- Do not push telescopic arm down
- Remove telescopic arm from mechanism before installing cabinet

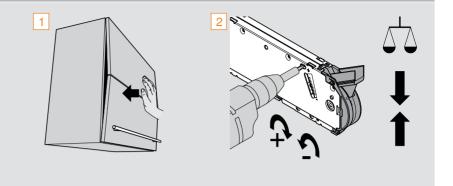


AVENTOS HF – Adjustments



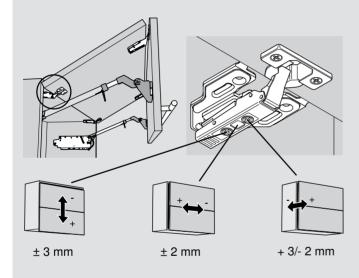
Lift mechanism tension adjustment

- Close and flush doors to cabinet. Open and close door to test closing force.
- Use a screw gun and a #2x2 POZI driver bit to adjust the lift mechanism to the desired tension. Test door again and repeat until desired function is achieved. Tension adjustment should be the same on both lift mechanisms.



AVENTOS HF door adjustments

Adjust each top door hinge and mounting plate to properly align the top door to the cabinet.

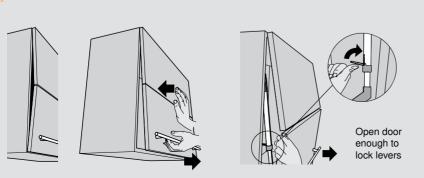


NOTE: Although not illustrated here, telescopic arm mounting plates can also be adjusted horizontally ± 2 mm if needed



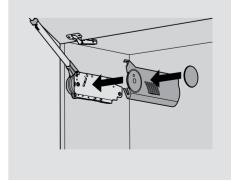
Adjust and lock telescopic arms

- Close and flush doors to cabinet. While pressing on the top door, pull the bottom door open approximately one inch.
- 2 Slightly open door and lock the telescopic arms into position using the levers as shown.



Attaching cover caps

Place the left and right cover plates over the appropriate lift mechanisms and snap them in place.

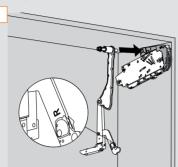


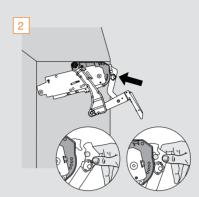
AVENTOS HS – Assembly

Attaching the arm assembly

Find the right and left arm assemblies and match them to the correct side of the cabinet.

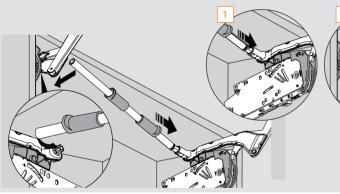
- Attach the arm assembly to the lift mechanism as shown
- Lift up on the arm assembly to lock into place





Attaching the stabilizer rod

Cut the stabilizer rod to fit the cabinet. Length = interior cabinet opening minus 129 (5-1/16') After cutting the rod to size follow steps 1, 2, and 3 below.



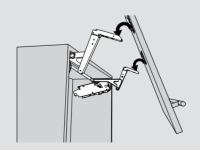


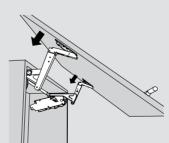


- Slide the stabilizer arm cover caps onto the rod
- Attach the stabilizer rod to spring loaded arm assembly
- Slide stabilizer arm cover caps over rod on each end

Attaching the doors

Attach the door using the CLIP mechanism to the arm assembly







Warning: Risk of injury by arm assembly!

- Do not push arm assembly down arm down
- Remove arm assembly from mechanism before installing cabinet

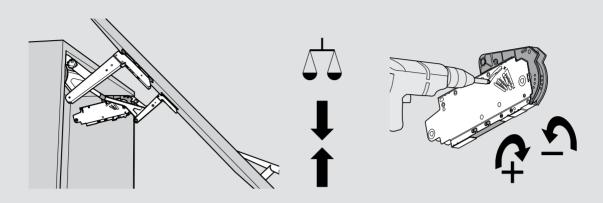


AVENTOS HS – Adjustment



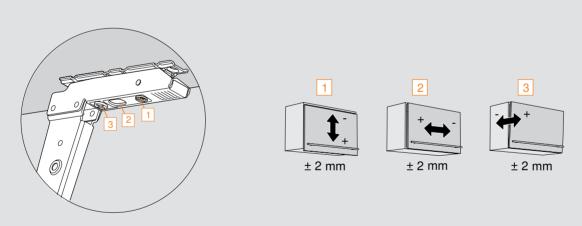
Adjusting the lift mechanism

Use a screw gun and a #2 x 2 POZI driver bit to adjust the lift mechanism to the desired tension (door weight balanced).



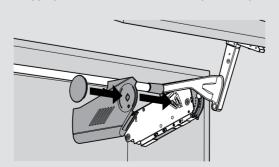
AVENTOS HS door adjustments

Use a POZI screwdriver to adjust cam adjustments for each of the three-dimensional door adjustments.



Attaching cover caps

Place the left and right cover plates over the appropriate lift mechanisms and snap them in place.

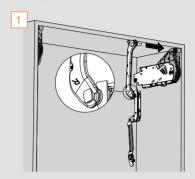


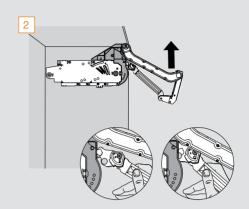
AVENTOS HL – Assembly

Attaching the arm assembly

Find the right and left arm assemblies and match them to the correct side of the cabinet.

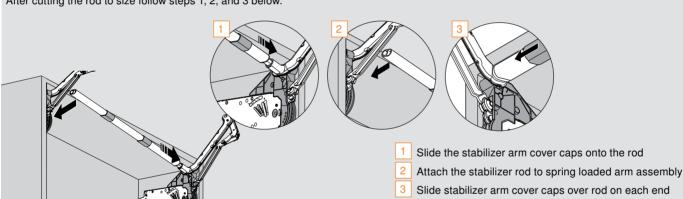
- Attach the arm assembly to the lift mecahnism as shown
- Lift up on the arm assembly to lock into place





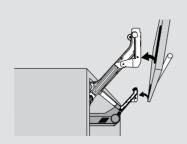
Attaching the stabilizer rod

Cut the stabilizer rod to fit the cabinet. Length = interior cabinet opening minus 129 (5-1/16"). After cutting the rod to size follow steps 1, 2, and 3 below.



Attaching AVENTOS HL doors

Attach the door using the CLIP mechanism to the arm assembly.







Warning: Risk of injury by spring-loaded arm assembly!

- Do not push arm assembly down
- Remove arm assembly from mechanism before installing cabinet

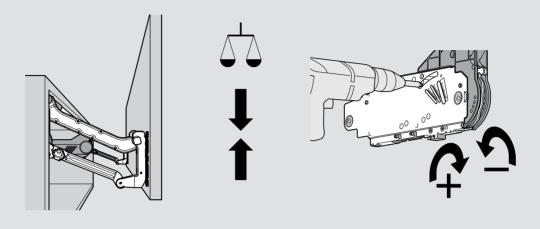


AVENTOS HL – Adjustments



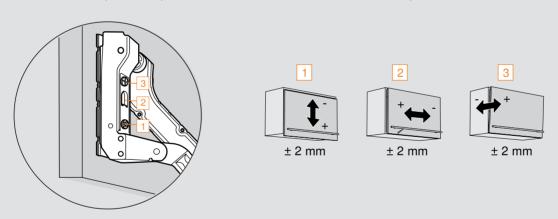
Adjusting the lift mechanism

Use a screw gun and a #2 x 2 POZI driver bit to adjust the lift mechanism to the desired tension (door weight balanced).



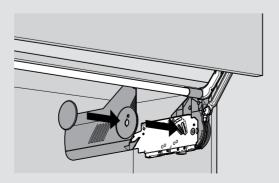
AVENTOS HL door adjustments

Use a POZI screwdriver to adjust cam adjustments for each of the three-dimensional door adjustments.

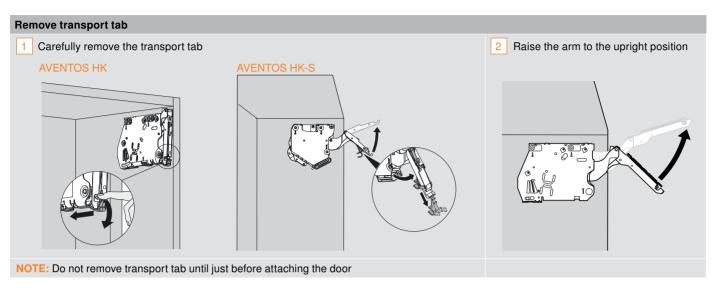


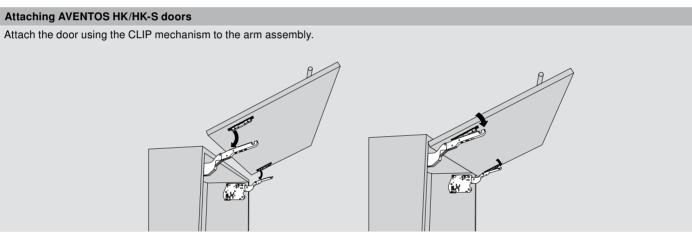
Attaching cover caps

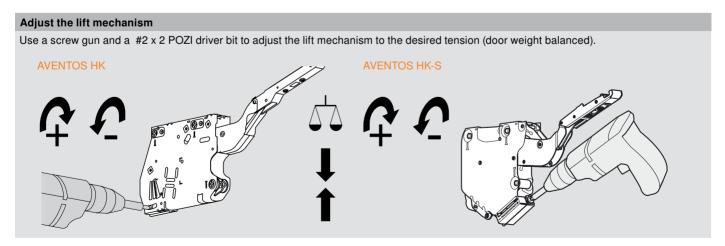
Place the left and right cover plates over the appropriate lift mechanisms and snap them in place.



AVENTOS HK and HK-S – Assembly









Warning: Risk of injury by spring-loaded lever arm!

- Do not push lever arm down
- Secure lever arm before installing cabinet



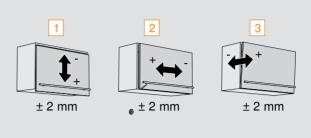
AVENTOS HK and HK-S – Adjustments



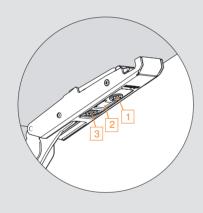
AVENTOS HK/HK-S door adjustments

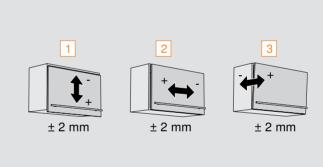
Use a POZI screwdriver to adjust cam adjustments for each of the three-dimensional door adjustments.

AVENTOS HK



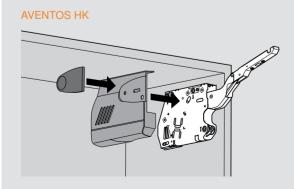
AVENTOS HK-S

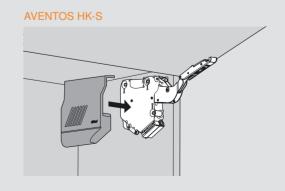




Attaching cover caps

Place the left and right cover plates over the appropriate lift mechanisms and snap them in place.





AVENTOS inset application - Face frame

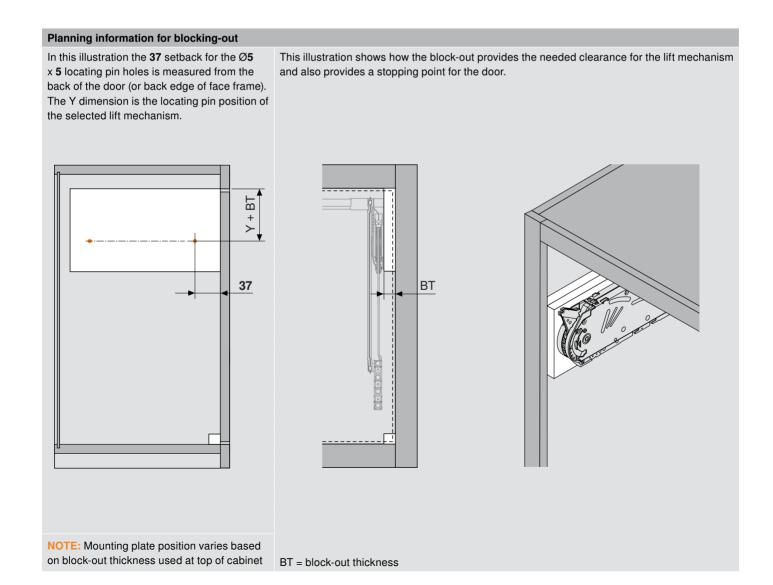


Face frame inset application

When it comes to inset cabinets and AVENTOS there are many ways to accomplish this application. Below is an option that can be used for both face frame and panel cabinets alike.

Face frame cabinets

The illustrations below show the idea of blocking-out the interior of a face frame cabinet to obtain the needed space required for AVENTOS. By blocking-out the interior of the cabinet to protrude into the cabinet opening, we have moved the AVENTOS lift mechanism far enough into the opening for the arm assembly to clear the frame of the cabinet.



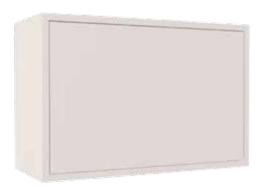
AVENTOS inset application – Panel











Panel inset application

When it comes to inset cabinets and AVENTOS there are many ways to accomplish this application. Below is an option that can be used for both face frame and panel cabinets alike.

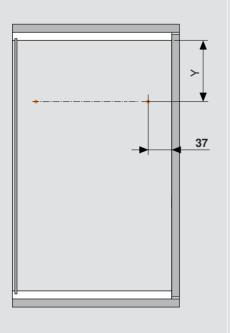
Panel cabinets

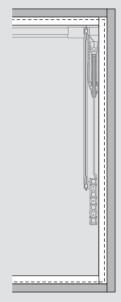
The illustrations below show the idea of building a cabinet within a cabinet to obtain the needed space required for AVENTOS. By either building a smaller cabinet within or adding panels to the outside of a cabinet, you have made it possible to simulate the look of an inset cabinet.

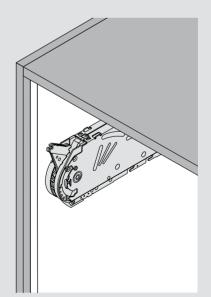
Planning information for cabinet-within-cabinet

In this illustration the 37 setback for the Ø5 x 5 locating pin holes is measured from the back of the door (or front edge of the interior cabinet). The Y dimension is determined by the selected AVENTOS lift system.

This illustration shows how the interior cabinet is simply an overlay cabinet that is set back the thickness of the door front and bumper. This also provides a stopping point for the door.

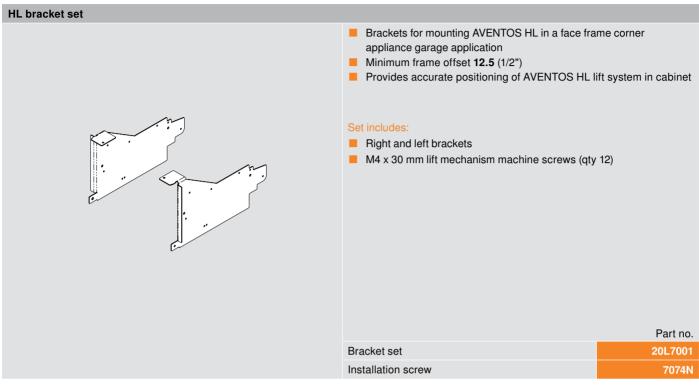






NOTE: Mounting plate position varies based on block-out thickness used at top of cabinet NOTE: The top and bottom panels of the inner cabinet are optional but their intended thickness are needed for calculating the Y dimension for the lift mechanism.

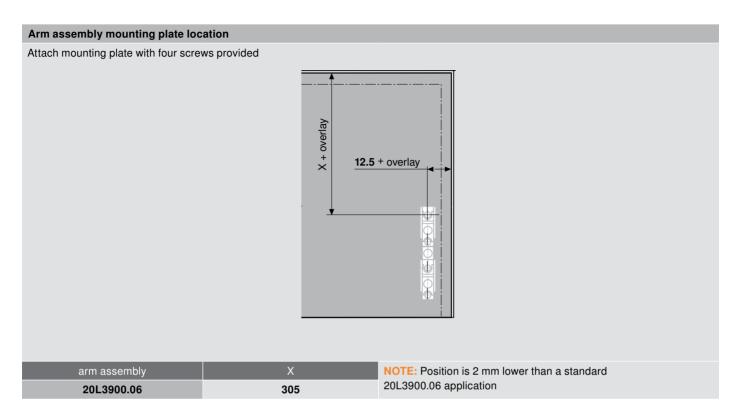
AVENTOS HL - Face frame corner cabinet

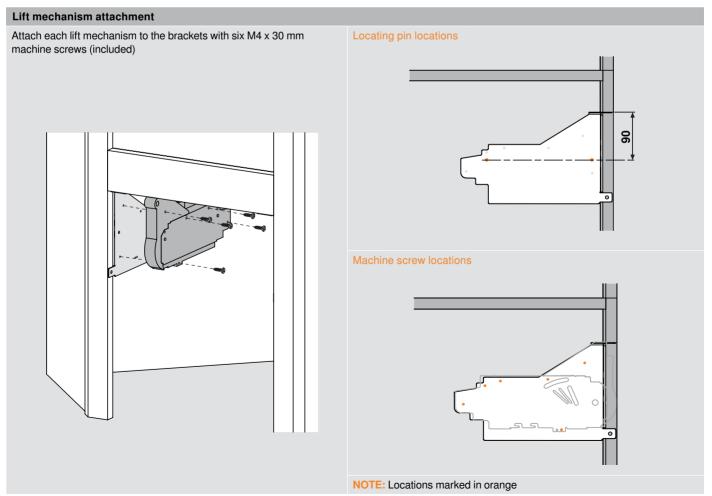


Bracket installation Attach each bracket to the top and side of the face frame opening Top mounting screw position with two #7 x 3/4" (7074N) wood screws. 29.5 9.5 12.5 min. Side mounting screw position

Appliance garage bracket

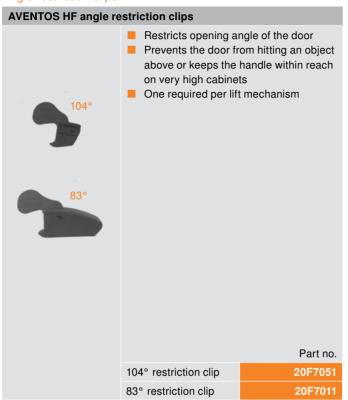


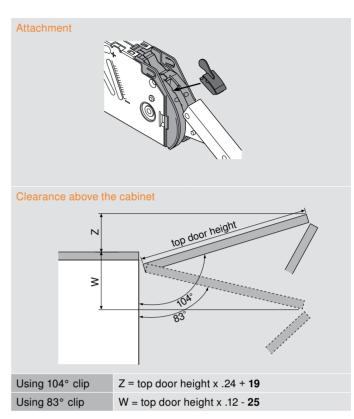


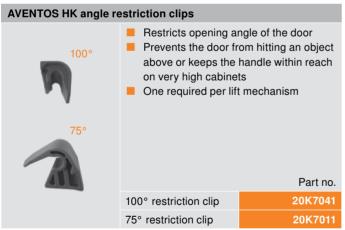


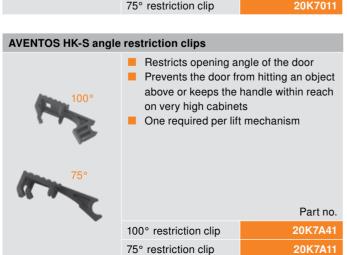
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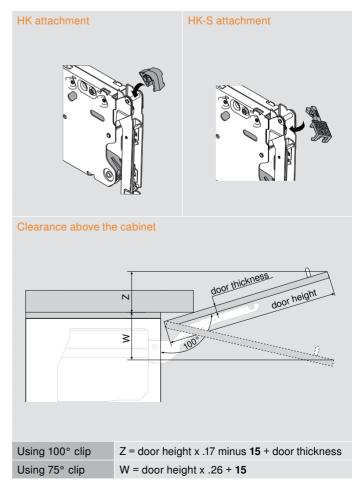
Angle restriction clips



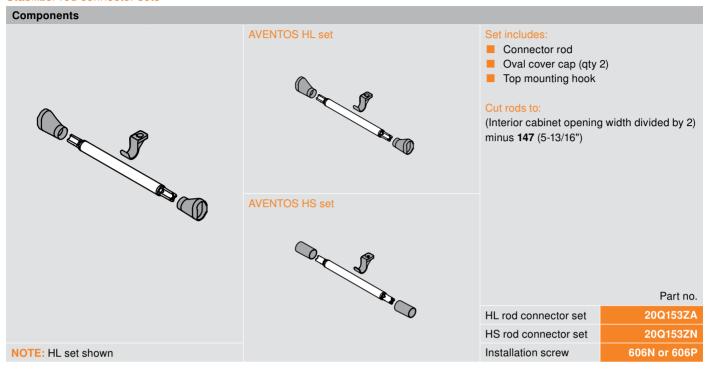


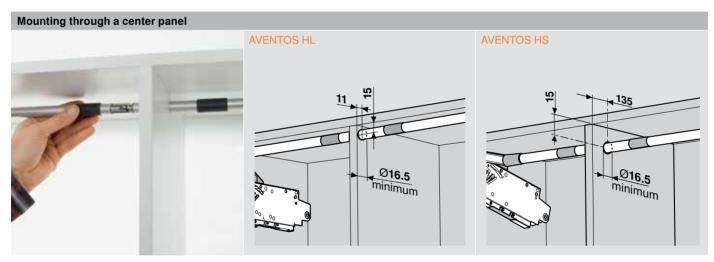


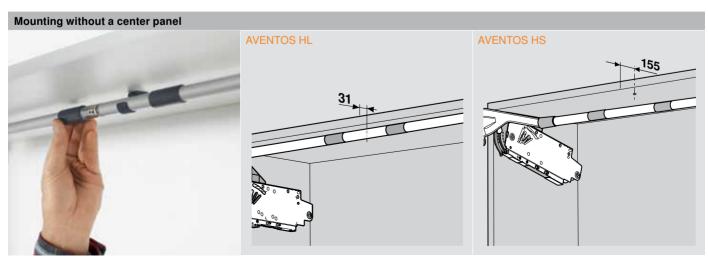




Stabilizer rod connector sets

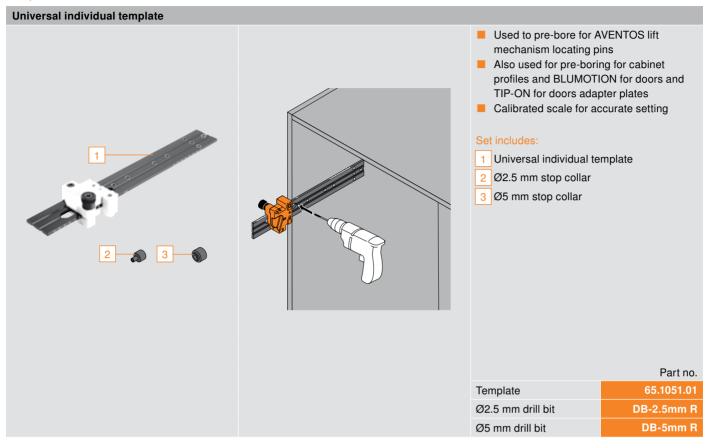


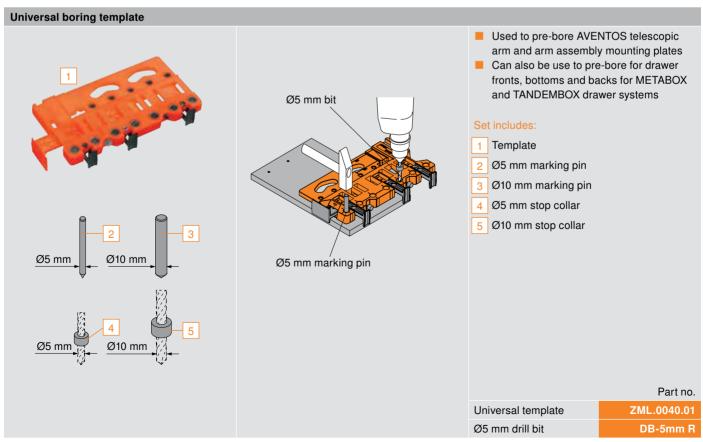


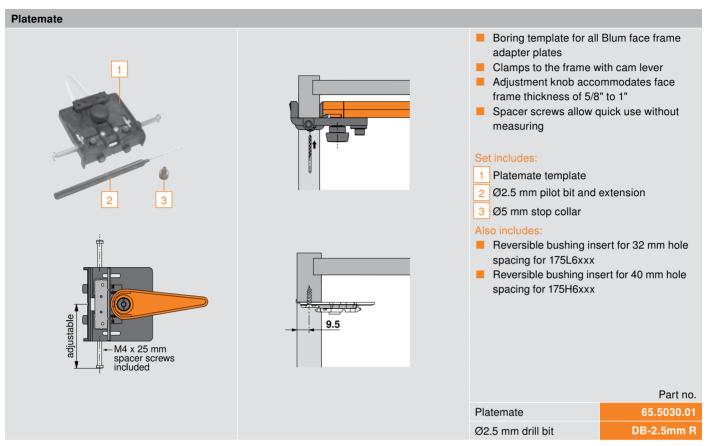


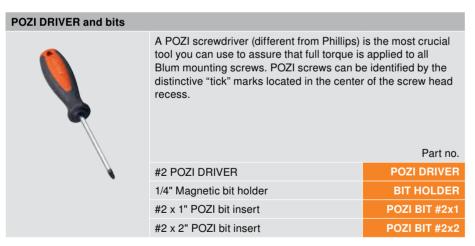
Assembly aids

Templates



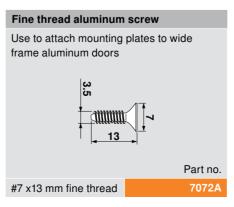


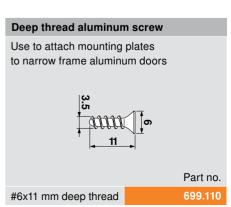






Deep thread wood screw				
Use to attach mounting plates to doors				
35 5 16				
	Part no.			
#6 x 16 mm, Phillips	606N			
#6 x 16 mm, Pozi	606P			



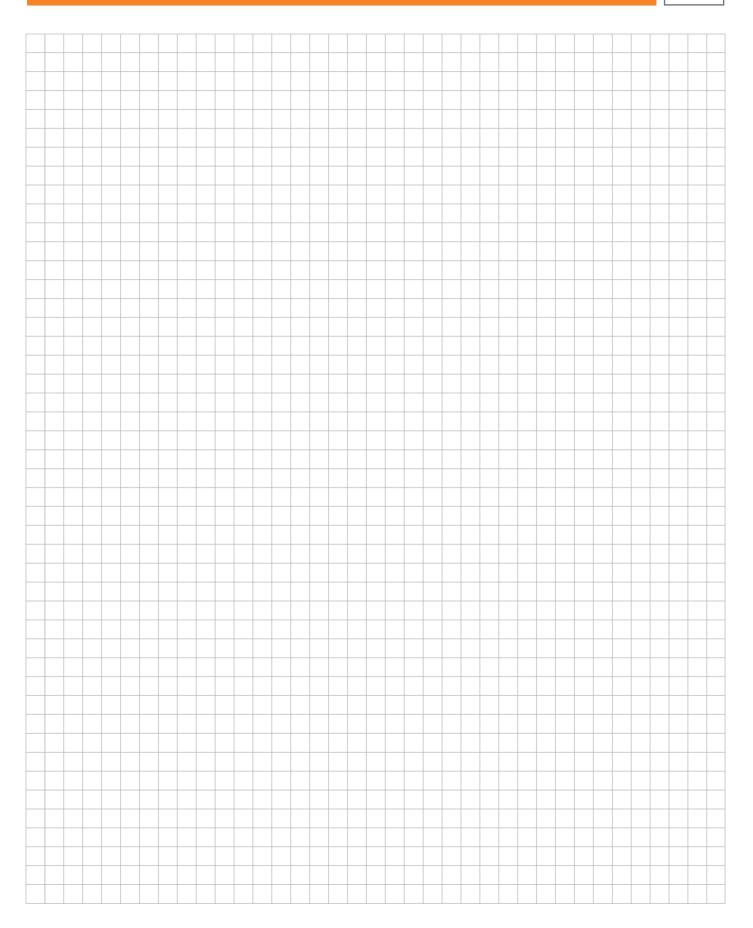


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Product development at Blum considers all of the various customers who will come in contact with our products. With this "Global Customer Benefits" philosophy we strive to create advantages for all users.



Blum, Inc. is ISO 9001 certified which means that you are assured of consistent quality in every Blum product. What's more they exceed the requirements of ANSI/BHMA standards for cycle life, static load and self-closing performance.

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