### PRODUCT APPLICATION

# Build To Spec (BTS) Kit Hot Aisle Containment (HAC) Solution

The Build To Spec Kit Hot Aisle Containment (HAC) Solution by Chatsworth Products (CPI) features a field-fabricated duct that is used over a contained hot aisle as part of a closed hot air return. This solution integrates with perimeter cooling, provides immediate improved cooling efficiency and is compatible with economization methods. It is ideal for retrofit applications over a mix of cabinets, including cabinets of varying heights, widths and depths.



- Build To Spec Kit (BTS) Includes all of the components needed to construct a ceiling-supported or cabinet-supported duct to capture and direct airflow in the contained aisle. This design adapts to a mix of cabinets and allows cabinets to be changed when required. Used as part of a closed return for the air handling system.
- Universal Bulb Seal— Edge seal used around drop panels to seal gaps above shorter cabinets. Cut excess panels from the BTS to fit the space between the duct and the cabinet. Bulb seal attaches directly to the edge of the panel. Additional panel material is also sold separately.
- Full Height Cabinet Blanking Panel Translucent panel and seal used to fill gaps where entire cabinets are omitted from the cabinet row or when adjacent cabinet rows are different lengths. Easy to install or remove in the field. The 48" (1219 mm) wide panels are easy to trim to match the required width
- 4 Aisle Containment Door Assembly Sliding double doors (shown) or single door, both with automatic closing feature and large transparent panel(s). Doors attach to the cabinets at the ends of the aisle to seal the ends of the contained aisle. To simplify installation, a reusable Floor Mounting Template is also available.

- Door Standoff Kit- Optional kit used when cabinets are placed over a raised floor to offset the door approximately 2.5" (64 mm) away from the side of the cabinets, so that the bottom of the door is not located over the edges of floor
- **Door Top Seal Kit (not shown)** Optional kit used when doors are shorter than cabinets to seal the gap between the top of the door and the top of the cabinets.
- Door Mounting Bracket Kit (not shown) Adjustable height brackets used to attach the Aisle Containment Door Assembly to the tops of cabinets.
- Aisle Containment Cabinet To Floor Seal Kit Cabinet-specific trim panels used along the base of cabinets to seal the gap between the floor and the bottom of the cabinet frame.

#### Containment Accessories

· Floor Mounting Template

### **Cabinets and Accessories**

- · Snap-In Filler Panels
- · Raised Floor Grommet

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### SOLUTION OVERVIEW

- Field-fabricated duct accommodates site differences and existing conditions
- Compatible with a mix of cabinets different heights, widths and depths in the same row
- Elevated, single-piece duct allows cabinets to be removed, omitted or replaced as required
- Translucent duct panels and transparent door panels allow light to enter the contained aisle
- Doors close automatically to maintain containment and reduce recovery time
- A complete solution maximizes performance with baffles to seal around and within cabinets and the contained aisle
- Durable construction and maintenance-free design provide many years of use



BTS Kit arrives on a pallet and includes eight unique components designed for easy installation and customization on-site.



### ORDERING INFORMATION

Black   Blacier White   III.   mm.   III.   mm.   III.   mm.   mm.   of Tiles   Sagono-701   33000-E01   48   1219   96   2438   94   2388   3   33000-702   33000-E02   48   1219   96   2438   188   4775   7   7   7   7   7   7   7   7   7				E	BTS				
Black						Descript	ion		
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#### Notes.

- The BTS Kit includes the materials needed to create the duct over the cabinets and contained aisle.
- The duct should be slightly larger than the contained aisle; a minimum of 10" (250 mm) wider and 3" (75 mm) longer, so that it
  overlaps the adjacent cabinets.
- All containment packages come standard with adequate brackets to accommodate a ceiling- or cabinet-supported solution.
   Order ceiling or cabinet installation hardware separately.
- Doors, full height cabinet blanking panels and additional materials for header/drop panels over cabinets must be ordered separately.

### ORDERING INFORMATION

Universal Bulb Seal			
Part Number	Description		
33003-001	96"L (2438 mm), Pack of 2		
33003-002	96"L (2438 mm), Pack of 10		

Note: Use as an edge seal around drop panels over cabinets.

Full Height Cabinet Blanking Panel For BTS Kit			
Part Numb	er & Finish	Description	
Black	Glacier White	Description	
33002-701	33002-E01	94"H (2387 mm) x 48"W (1219 mm), Pack of 2	
33002-702	33002-E02	94"H (2387 mm) x 48"W (1219 mm), Pack of 10	

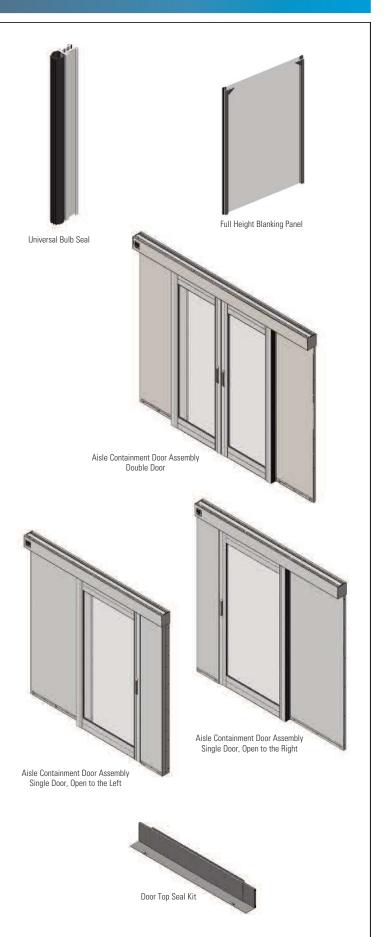
Note: Center panel is translucent, sides and brackets are painted.

Aisle Containment Door Assembly						
Part Num	er & Finish	Description				
Black	Glacier White	Description				
	Double Door					
32770-701	32770-E01	With Painted Door Frames				
32770-702	32770-E02	With Anodized Aluminum Door Frames				
	Single Door, Opens To The Right					
32780-702	32780-E02	With Painted Door Frames				
32780-704	32780-E04	With Anodized Aluminum Door Frames				
Single Door, Opens To The Left						
32780-701	32780-E01	With Painted Door Frames				
32780-703	32780-E03	With Anodized Aluminum Door Frames				

Notes: Double door spans two to three tile aisles and has a 42"W (1067 mm) door opening. Single door is right or left opening, spans two tile aisles and has a 32"W (812 mm) door opening. Order one Floor Mounting Template for each site, see Containment Accessories, page 4.

Door Standoff Kit			
Part Number & Finish Description			
Black Glacier White		Description	
32870-701	32870-E01	For Aisle Containment Double Door Assembly	
32870-702	32870-E02	For Aisle Containment Single Door Assembly	

	Door Top Seal Kit			
Part Number & Finish		Description		
Black	Glacier White	Description		
	For Use With Door Standoff Kit			
32817-704	32817-E04	Adjusts from 48"W (1219 mm) to 59"W (1500 mm)		
32817-705	32817-E05	Adjusts from 59"W (1500 mm) to 70"W (1775 mm)		
32817-706	32817-E06	Adjusts from 70"W (1775 mm) to 81"W (2050 mm)		
	For Us	e Without Door Standoff Kit		
32817-701	32817-E01	Adjusts from 48"W (1219 mm) to 59"W (1500 mm)		
32817-702	32817-E02	Adjusts from 59"W (1500 mm) to 70"W (1775 mm)		
32817-703	32817-E03	Adjusts from 70"W (1775 mm) to 81"W (2050 mm)		



### ORDERING INFORMATION

Door Mounting Bracket Kit						
Part Number & Finish		Description				
Black	Glacier White	Description				
	For Use With Door Standoff Kit					
32805-703	32805-E03	3"H (75 mm), For 85.3"H (2167 mm) to 91.4"H (2322 mm) Cabinets				
32805-704	32805-E04	5"H (125 mm), For 82.6"H (2098 mm) to 94.2"H (2393 mm) Cabinets				
32805-705	32805-E05	10"H (254 mm), For 77.8"H (1976 mm) to 98.9"H (2512 mm) Cabinets				
	For Use With	out Door Standoff Kit				
32805-700	32805-E00	3"H (75 mm), For 85.3"H (2167 mm) to 91.4"H (2322 mm) Cabinets				
32805-701	32805-E01	5"H (125 mm), For 82.6"H (2098 mm) to 94.2"H (2393 mm) Cabinets				
32805-702	32805-E02	10"H (254 mm), For 77.8"H (1976 mm) to 98.9"H (2512 mm) Cabinets				

Note: Two versions, select for use with or without Door Standoff Kit.

for F-Series	Aisle Containment Cabinet To Floor Seal Kit for F-Series TeraFrame® Gen 3 Cabinet and GF-Series GlobalFrame® Gen 2 Cabinet				
Part Number & Finish		Description			
Black	<b>Glacier White</b>	Description			
	Front Seal Kits				
39208-700	39208-E00	Front Seal, For 23.6"W (600 mm) Cabinet			
39208-701	39208-E01	Front Seal, For 27.6"W (700 mm) Cabinet			
39208-703	39208-E03	Front Seal, For 29.5"W (750 mm) Cabinet			
39208-702	39208-E02	Front Seal, For 31.5"W (800 mm) Cabinet			
		Side Seal Kits			
39209-700	39209-E00	Side Seal, For 31.5"D (800 mm) frame			
39209-708	39209-E08	Side Seal, For 39.4"D (1000 mm) frame			
39209-710	39209-E10	Side Seal, For 41.3"D (1050 mm) frame			
39209-712	39209-E12	Side Seal, For 43.3"D (1100 mm) frame			
39209-716	39209-E16	Side Seal, For 47.2"D (1200 mm) frame			

Note: Order one Front Seal Kit for each cabinet. Order one Side Seal Kit for each end of the cabinet row. Other sizes are available. For existing cabinets, check with CPI Technical Support to identify the correct Floor Seal Kit.



Door Mounting Bracket Kit



Aisle Containment Cabinet to Floor Front Seal Kit



Aisle Containment Cabinet to Floor Side Seal Kit

### ACCESSORIES

### **Containment Accessories**

Use the Floor Mounting Template to locate door mounting holes on the floor.

Floor Mounting Template			
Part Num	ber & Finish	Description	
Black	Glacier White	Description	
32875-701	N/A	For Aisle Containment Double-Door	
32875-702	N/A	For Aisle Containment Single Door	

Note: Reusable, order one per site.



### **Thermal Management Accessories**

To maximize performance of the containment solution, it is critical to seal any gaps within and between cabinets and any openings in the floor or duct. CPI offers a number of options, including Snap-In Filler Panels, AisleLok™ Acrycell™ Sealing Tape and Raised Floor Grommets. For new installations that use CPI Cabinets, cabinet-specific panels are also available.

Snap-In Filler Panels			
Part Num	ber & Finish	Description	
Black	Glacier White	Description	
34537-002	34537-E02	1U x 19"EIA, Pack of 50	
34538-002	34538-E02	2U x 19"EIA, Pack of 50	

Note: Also sold individually and in packs of 6 each.



Snap-In Filler Panel

Raised Floor Grommets			
Part Number Description			
Black	Description		
13671-001	Raised Floor Grommets, 8.25" (210 mm) x 10.75" (273 mm), Each		
13671-002	Raised Floor Grommets, 8.25" (210 mm) x 10.75" (273 mm), Pack of 10		



#### HOW TO GET STARTED

The specific combination of components needed to create a complete BTS Hot Aisle Containment (HAC) Solution will depend on a number of factors, including room layout, ceiling height and what types of cabinets models are selected.

To ensure you have a complete solution that addresses site- and cabinet-specific requirements, please contact CPI Technical Support for assistance developing a Bill of Materials (BOM).

Based on your input, CPI Technical Support will propose a complete solution with a drawing and detailed BOM. They will take the time to explain each selection, so you have a complete understanding of how CPI solutions will provide desired results.

Example Bill Of Materials (BOM)						
Item	Part Number	Description	Qty			
	BTS Hot Aisle Containment (HAC) Solution					
1	33000-713	BTS Kit, 96"H (2438 mm) x 96"W (2438 mm) x 282"L (7163 mm), Black	1			
2	33003-002	Universal Bulb Seal, 96"L (2438 mm), Pack of 10	1			
3	33002-701	Full Height Cabinet Blanking Panel, 94"H (2387 mm) x 48"W (1219 mm), Pack of 2	1			
4	32770-702	Aisle Containment Double Door Assembly, Black with Anodized Door Frames	2			
5	32870-701	Door Standoff Kit, for Double Door Assembly	2			
6	32817-706	Door Top Seal Kit, For Use With Door Standoff Kit, 70"W (1775 mm) to 81"W (2050 mm)	2			
7	32805-703	Door Mounting Bracket Kit, 3"H (75 mm)	2			
		Recommended Accessories				
	32875-701	Installation Template, Aisle Containment Double Door Assembly	1			
	34537-702	Snap-In Filler Panel, 1U x 19"EIA, Black, Pack of 50	2			
	34538-702	Snap-In Filler Panel, 2U x 19"EIA, Black, Pack of 50	2			
	13671-002	Raised Floor Grommet, 10 Pack, Black	2			

Notes: This example BOM is based on a solution for the mix of 16 cabinets shown in the image to the right. Example calculations for determining the correct BTS Kit part number are listed below the image. Recommended Accessories include Thermal Management Accessories to seal the gaps within and around cabinets. Contact CPI Technical Support to develop a BOM for your site.



### Required Measurements:

- Floor to Ceiling Height
   Maximum Cabinat Height
- Maximum Cabinet Height
   Maximum Cabinet Aisle Width
- 4. Cabinet Row Length 210" (5334 mm)

#### **Required Calculations:**

5. Containment Duct Height 54.1" (1476 mm) Floor to Ceiling Height minus Maximum Cabinet Height.

144" (3658 mm)

89.9" (2282 mm)

66" (1676 mm)

- 6. Containment Aisle Width 76" (1930 mm)

  Maximum Cabinet Aisle Width plus 10" (250 mm).
- 7. Containment Row Length 213" (5410 mm) Cabinet Row Length plus 3" (75 mm).

For a more detailed analysis of your site, CPI offers a Pre-Installation Site Survey, a service where a CPI Technical Representative visits your site to provide a more detailed recommendation. To help ensure an optimized aisle containment installation, CPI offers On-Site Installation Supervision Services, which includes related training and examination of the initial pods. Both Pre-Installation Site Surveys and On-Site Installation Supervision Support are especially important if there are special conditions, concerns or required customization.

All suggestions and performance statements are based on using an overall approach to airflow containment through the use of CPI Products and solutions. For more information about CPI's Aisle Containment Services or products, call 800-834-4969, email techsupport@chatsworth.com or contact your Regional Sales Manager.

All products quoted are subject to availability based on manufacturing capacity, and shipping dates should be considered estimates only. While every effort has been made to ensure the accuracy of all information, CPI does not accept liability for any errors or omissions and reserves the right to change information and descriptions of listed services and products.

**Not exactly what you need?** Additional products, sizes and configurations are available from CPI. Visit **www.chatsworth.com** or call **+1-800-834-4969.** 

