MATRIX

E N C L O S U R E S

electrorack
ENCLOSURE PRODUCTS

MATRIX
ENCLOSURES

VERSATILITY AT WORK

Electrorack's Matrix Series enclosures are built on the foundation that one size does not fit all. It takes a rugged, versatile enclosure system to meet the demanding needs of today's design and instrumentation packaging engineers. The Matrix Series is ideally suited for a wide range of equipment, applications and diverse operating environments. Our unitized welded construction provides incredible strength, durability and access allowing simple integration and equipment protection - even when shipped loaded. Create the enclosure that's right for your environment - the Matrix.

- any application
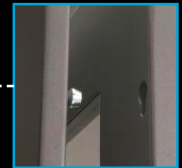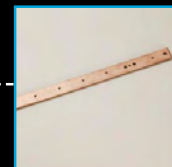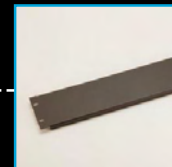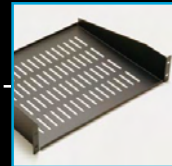- any environment
- one source

FEATURES

- Millions of combinations available
- Ships completely configured to your requirements
- ISO9001/AS9100 certified quality
- 19", 23" or 24" panel openings
- Unitized/welded construction
- Heavy-duty 14 ga. cold-rolled steel
- Aluminum or 12 ga. steel option available
- #10-32 tapped or .375 square hole EIA mounting angles
- Stand-alone or ganging option
- Multiple base options
- Wide range of power and cooling options
- Standard - 6 heights, 2 widths, 3 depths
- **Lifetime Guarantee**

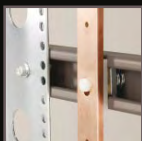# ■|C O N T E N T S

MATRIX
ENCLOSURES

COMPLETE INTEGRATION – ELIMINATES COSTLY ON-SITE ASSEMBLY
Matrix enclosures arrive fully assembled with all components installed and ready for use, reducing equipment deployment time and overall costs.

HEAVY-DUTY 14 GAUGE CONSTRUCTION
Our standard 14ga. welded steel frame offers improved durability over conventional 16 ga. racks. Optional 12ga. steel or aluminum are available for extreme conditions.
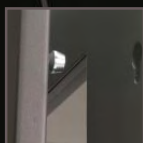
SIDE PANEL OPTIONS
The M2 models offer louvered or solid removable side panels allowing simple access to equipment. Select appropriate style with or without locks based on ventilation and security requirements.

CLEAN/FINISHED APPEARANCE – EVEN WITH NO DOORS!
Matrix corner posts are punched with holes only when doors are ordered. Units without doors are not punched providing a clean, finished look for the equipment.

VERSATILE BASE SELECTION
A wide selection of bases is available to accommodate any application. Riser Base with Levelers shown in main photo at right.
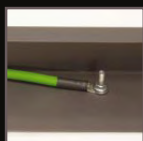
INTEGRATED GROUND STUDS
Every Matrix frame is equipped with a 1/4-20 ground stud, easing the earthing process for your enclosure systems.

THERMAL PROTECTION

A wide selection of top panels, blowers, fans and doors are available to ensure adequate ventilation is provided to the equipment loads, keeping them at optimal operating conditions.

180° DOOR SWING WITH SELF-CONTAINED HINGES

Self-contained 180 degree hinges used on our surface-mount doors have no removable pins that can be lost! These hinges eliminate aisle blockage when loading or performing maintenance on equipment without removing the door.

SECURITY

Doors include locking handles to prevent unauthorized access and tampering. Side panels are also available with locks.

FLAT FRAME BOTTOM

In bolt-down applications where no base is desired, the flat frame bottom rests directly on the floor preventing any steel or enclosure deformation when anchors are firmly secured.

INTEGRATED LEVELER NUTS IN FRAME BOTTOM

Integrated leveler nuts enable levelers to mount directly to the frame minimizing overall height while eliminating the need for a separate base.

FULLY ADJUSTABLE, PLATED MOUNTING ANGLES

The Unistrut design of our horizontal members allows infinite front-to-back rail adjustment utilizing standard hardware. Plating our 11 gauge tapped rails enhances thread quality, eliminating paint build up while improving grounding properties.
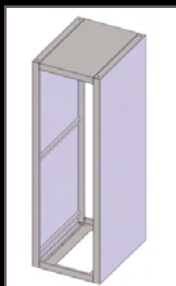
CUSTOM OPTIONS

The Matrix frame construction is easily modified to allow us to provide you with the solution you need. Don't see exactly what you need, give us a call to design it for you!

define your style

1 SELECT FRAME STYLE

M1
- Stand-alone/non-ganging
- Sides and Tops are non-removable
- Fan or Solid Top option
- Open or Closed Frame Bottom
- Most Economical
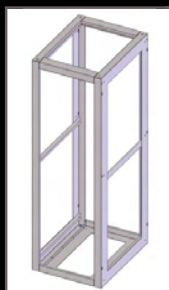
M2
- Ultimate Flexibility/Changeability
- Sides and Tops are removable
- All Sides, Tops and Bottom open - configure as required with removable panels
- Gang Multiple Units together

2 SELECT SIZE
- Height – in Rack Units (U's) – 1U = 1.75"
- Width – EIA equipment – 19", 23" or 24"
- Depth – nominal frame depth – 25", 30" or 36"

3 SELECT MOUNTING ANGLES AND BASES
- Mounting Angles - Tapped #10-32 Plated or 0.375 Painted
- Open (cable entry or airflow) or Closed Frame Bottom
- Mobility = Casters – select base for terrain
- Anchoring = no base

4 SELECT DOORS & PANELS
- Doors – Determine if required and style based on security & ventilation
- Top Panels (M2 Series Only) – Based on ventilation & cable entry requirements
- Side Panels (M2 Series only) – Lift-off

5 SELECT ACCESSORIES & COLOR
- Color - Choose from standard colors (see page 31) or we'll match your color!
- Shelves, Filler Panels, Power, Grounding, Buss Bars – all mounted to your specifications!

MOUNTING ANGLES

COMBO/OFFSET #10-32 TAPPED

COMBO/OFFSET 0.375" SQUARE HOLE

L-SHAPED #10-32 TAPPED

L-SHAPED 0.375" SQUARE HOLE

TOPS

DUAL 6" FANS W/ CABLE PORTS*

10" FAN

MESH

LOUVERED

SOLID

Cable port options are available on all Top Panel styles.

FLUSH-MOUNT DOORS

FULL MESH

FULL LOUVERED

LOUVERED TOP

LOUVERED BOTTOM

SOLID

SURFACE-MOUNT DOORS

SOLID

LOUVERED BOTTOM

FULL LOUVERED

PLEXIGLAS

PLEXIGLAS W/ VENTS

FULL MESH

FRAMES

M2 GANGABLE

M1 STAND-ALONE (not shown)

BASES

RISER BASE

RISER WITH CASTERS

DOLLY BASE

EXTENDED DOLLY BASE

EXTENDED DOLLY BASE W/ FORKLIFT

SIDE PANELS
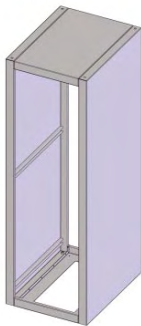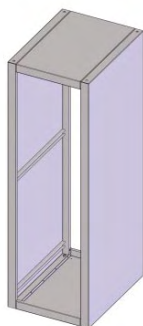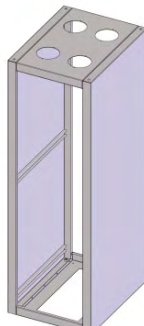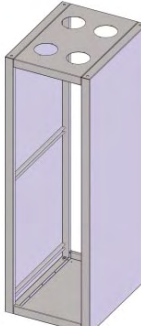
SOLID - LOCKING

LOUVERED - LOCKING

M1 standalone frames

M1 models consist of a unitized structure, including the frame, top and sides. The integral nature of the components and the fully welded construction minimizes visible seams while providing increased security. As all of these components are fixed in position, this renders them non-removable, and thus the M1 units can not be ganged together. The M1 is ideal for individual units. Do not use the M1 model if you require side access, attaching multiple enclosures together or handling large cable bundles from overhead.

- Stand-alone/non-ganging
- Sides and Tops are non-removable
- Most economical

M1 Standalone Frames

- Solid Side Panels and Top Panels are integral to the structure and non-removable
- EIA Mounting Angles (pg. 10) ordered separately
- Levelers/Base options (pgs. 12-13), and doors (pgs. 18-19) ordered separately
- Specify Open Frame Bottom when cable access and/or airflow is required from below
- Static Frame Load Capacity is 2,000 lbs.
- Fully welded construction – 14 GA (0.075") steel
- Integrated 1/4-20 x 1" Ground stud at base of enclosure
- Includes 1/2 - 13 threads in frame bottom for optional levelers
- Top corners of frames include holes (with caps) for optional Lifting Eye Kit (pg. 30)
- Frame bottoms include (4) 1/2" diameter holes for attaching bases or anchoring directly to floor. See page 30 for Anchoring Kit
- Fan top frames include (4) cut-outs for 6" diameter fans and two (2) covers
- Order fans separately. See page 26 for selections

Height (U/Overall)	Depth	Solid Top (Non-removable)		Fan Top (Non-removable)	
		Open Bottom	Solid Bottom	Open Bottom	Solid Bottom
19" Rack-mount					
20U (40.00")	25.50"	M1-192025C-S-*	M1-192025S-S-*	M1-192025C-F26-*	M1-192025S-F26-*
	30.75"	M1-192030C-S-*	M1-192030S-S-*	M1-192030C-F26-*	M1-192030S-F26-*
	36.00"	M1-192036C-S-*	M1-192036S-S-*	M1-192036C-F26-*	M1-192036S-F26-*
25U (48.75")	25.50"	M1-192525C-S-*	M1-192525S-S-*	M1-192525C-F26-*	M1-192525S-F26-*
	30.75"	M1-192530C-S-*	M1-192530S-S-*	M1-192530C-F26-*	M1-192530S-F26-*
	36.00"	M1-192536C-S-*	M1-192536S-S-*	M1-192536C-F26-*	M1-192536S-F26-*
30U (57.50")	25.50"	M1-193025C-S-*	M1-193025S-S-*	M1-193025C-F26-*	M1-193025S-F26-*
	30.75"	M1-193030C-S-*	M1-193030S-S-*	M1-193030C-F26-*	M1-193030S-F26-*
	36.00"	M1-193036C-S-*	M1-193036S-S-*	M1-193036C-F26-*	M1-193036S-F26-*
35U (66.25")	25.50"	M1-193525C-S-*	M1-193525S-S-*	M1-193525C-F26-*	M1-193525S-F26-*
	30.75"	M1-193530C-S-*	M1-193530S-S-*	M1-193530C-F26-*	M1-193530S-F26-*
	36.00"	M1-193536C-S-*	M1-193536S-S-*	M1-193536C-F26-*	M1-193536S-F26-*
40U (75.00")	25.50"	M1-194025C-S-*	M1-194025S-S-*	M1-194025C-F26-*	M1-194025S-F26-*
	30.75"	M1-194030C-S-*	M1-194030S-S-*	M1-194030C-F26-*	M1-194030S-F26-*
	36.00"	M1-194036C-S-*	M1-194036S-S-*	M1-194036C-F26-*	M1-194036S-F26-*
45U (83.75")	25.50"	M1-194525C-S-*	M1-194525S-S-*	M1-194525C-F26-*	M1-194525S-F26-*
	30.75"	M1-194530C-S-*	M1-194530S-S-*	M1-194530C-F26-*	M1-194530S-F26-*
	36.00"	M1-194536C-S-*	M1-194536S-S-*	M1-194536C-F26-*	M1-194536S-F26-*
23/24" Rack-mount					
20U (40.00")	25.50"	M1-242025C-S-*	M1-242025S-S-*	M1-242025C-F26-*	M1-242025S-F26-*
	30.75"	M1-242030C-S-*	M1-242030S-S-*	M1-242030C-F26-*	M1-242030S-F26-*
	36.00"	M1-242036C-S-*	M1-242036S-S-*	M1-242036C-F26-*	M1-242036S-F26-*
25U (48.75")	25.50"	M1-242525C-S-*	M1-242525S-S-*	M1-242525C-F26-*	M1-242525S-F26-*
	30.75"	M1-242530C-S-*	M1-242530S-S-*	M1-242530C-F26-*	M1-242530S-F26-*
	36.00"	M1-242536C-S-*	M1-242536S-S-*	M1-242536C-F26-*	M1-242536S-F26-*
30U (57.50")	25.50"	M1-243025C-S-*	M1-243025S-S-*	M1-243025C-F26-*	M1-243025S-F26-*
	30.75"	M1-243030C-S-*	M1-243030S-S-*	M1-243030C-F26-*	M1-243030S-F26-*
	36.00"	M1-243036C-S-*	M1-243036S-S-*	M1-243036C-F26-*	M1-243036S-F26-*
35U (66.25")	25.50"	M1-243525C-S-*	M1-243525S-S-*	M1-243525C-F26-*	M1-243525S-F26-*
	30.75"	M1-243530C-S-*	M1-243530S-S-*	M1-243530C-F26-*	M1-243530S-F26-*
	36.00"	M1-243536C-S-*	M1-243536S-S-*	M1-243536C-F26-*	M1-243536S-F26-*
40U (75.00")	25.50"	M1-244025C-S-*	M1-244025S-S-*	M1-244025C-F26-*	M1-244025S-F26-*
	30.75"	M1-244030C-S-*	M1-244030S-S-*	M1-244030C-F26-*	M1-244030S-F26-*
	36.00"	M1-244036C-S-*	M1-244036S-S-*	M1-244036C-F26-*	M1-244036S-F26-*
45U (83.75")	25.50"	M1-244525C-S-*	M1-244525S-S-*	M1-244525C-F26-*	M1-244525S-F26-*
	30.75"	M1-244530C-S-*	M1-244530S-S-*	M1-244530C-F26-*	M1-244530S-F26-*
	36.00"	M1-244536C-S-*	M1-244536S-S-*	M1-244536C-F26-*	M1-244536S-F26-*

PART NUMBER

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - **See page 31 for finish selections.**

gangable frames M2

M2 models offer the ultimate in flexibility, interchangeability and access. Consisting of a fully welded frame, the optional top panels and side panels are removable allowing simple integration of equipment and cabling into an enclosure. The open frame structure allows cabling or other equipment to pass between multiple units ganged together. Finishing side panels are placed at the end of a row, providing a clean, finished appearance. The M2 is ideal for attaching multiple units, allowing side and top access, handling larger cable bundles from overhead, or for open four-post rack systems.

- Ultimate flexibility/changeability
- Side and Top access
- Gang multiple units together

M2 Gangable Frames

19" Rack-mount

Height (U/Overall)	Depth	Part Number
20U (40.00")	25.50"	M2-192025C-*
	30.75"	M2-192030C-*
	36.00"	M2-192036C-*
25U (48.75")	25.50"	M2-192525C-*
	30.75"	M2-192530C-*
	36.00"	M2-192536C-*
30U (57.50")	25.50"	M2-193025C-*
	30.75"	M2-193030C-*
	36.00"	M2-193036C-*
35U (66.25")	25.50"	M2-193525C-*
	30.75"	M2-193530C-*
	36.00"	M2-193536C-*
40U (75.00")	25.50"	M2-194025C-*
	30.75"	M2-194030C-*
	36.00"	M2-194036C-*
45U (83.75")	25.50"	M2-194525C-*
	30.75"	M2-194530C-*
	36.00"	M2-194536C-*

23/24" Rack-mount

Height (U/Overall)	Depth	Part Number
20U (40.00")	25.50"	M2-242025C-*
	30.75"	M2-242030C-*
	36.00"	M2-242036C-*
25U (48.75")	25.50"	M2-242525C-*
	30.75"	M2-242530C-*
	36.00"	M2-242536C-*
30U (57.50")	25.50"	M2-243025C-*
	30.75"	M2-243030C-*
	36.00"	M2-243036C-*
35U (66.25")	25.50"	M2-243525C-*
	30.75"	M2-243530C-*
	36.00"	M2-243536C-*
40U (75.00")	25.50"	M2-244025C-*
	30.75"	M2-244030C-*
	36.00"	M2-244036C-*
45U (83.75")	25.50"	M2-244525C-*
	30.75"	M2-244530C-*
	36.00"	M2-244536C-*

- Select optional Top (pgs. 16-17), Sides (pg. 15), and Bottom Panels (pg. 13) separately
- EIA Mounting Angles (pg. 10) ordered separately
- Levelers/Base options (pgs. 12-13), and doors (pgs.18-19) ordered separately
- Configure to order based on airflow, cabling or expansion requirements or as an open 4-post rack
- Static Frame Load Capacity is 2,000 lbs.
- Fully welded construction – 14 GA (0.075") steel
- Integrated 1/4-20 Ground stud at base of enclosure
- Includes holes (with caps) on side of frame for ganging multiple frames together. See page 30 for Multi-Bay Hardware Kit
- Includes 1/2-13 threads in frame bottom for optional levelers
- Top corner of frame includes holes (with caps) for optional Lifting Eye Kit (pg. 30)
- Frame bottoms include (4) 1/2" diameter holes for attaching bases or anchoring directly to floor. See page 30 for Anchoring Kit

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.

M1 & M2 frame dimensions

4X Ø .50

DOWNWARD SECTION THROUGH FRAME
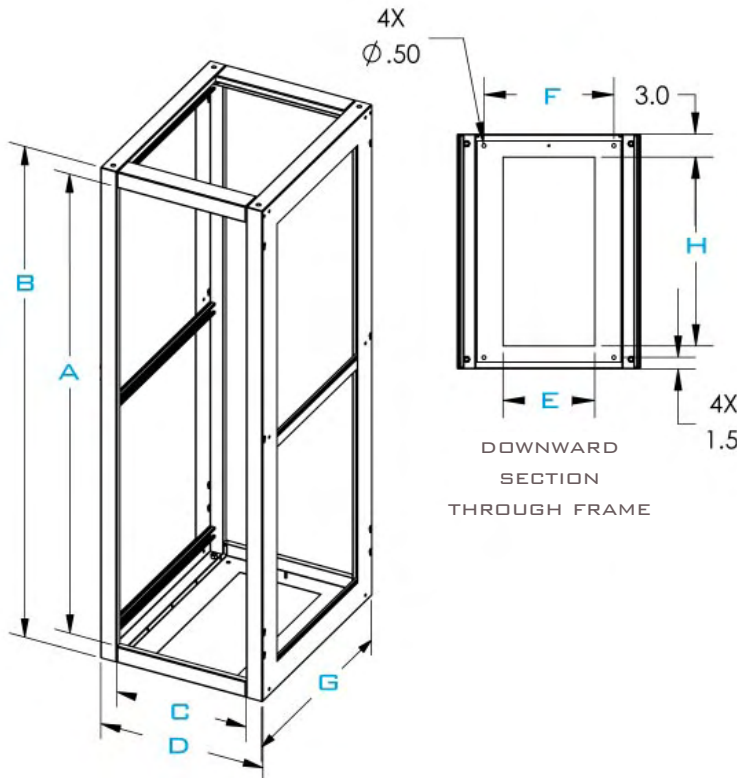
Height

Rack Units	Vertical Panel Opening A	Overall Height B
20U	35.13	40.00
25U	43.88	48.75
30U	52.63	57.50
35U	61.38	66.25
40U	70.13	75.00
45U	78.88	83.75

Width

EIA	Horizontal Panel Opening C	Overall Width D	Bottom Opening Width E	Anchoring Hole Spacing F
19"	19.13	24.00	12.00	17.00
23"/24"	24.13	29.00	17.00	22.00

Depth

Overall Depth G	Bottom Opening Depth H	Maximum Mtg. Angle Spacing
25.50	19.50	23.72
30.75	24.75	28.97
36.00	30.00	34.22

L-shaped

(19" or 24" shown)

.25
2.71
.25
2.21

0.281 Dia. Hole

#10-32 Tapped Hole
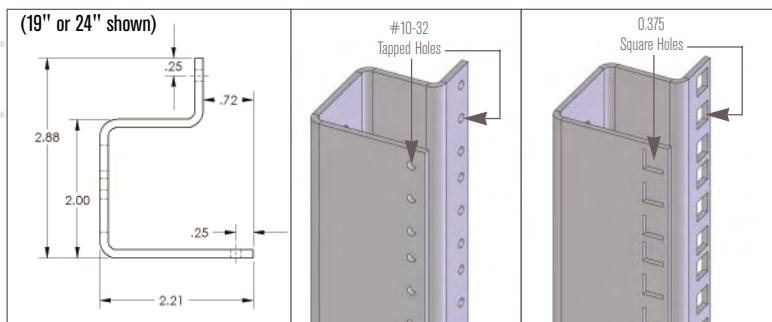
0.375 Square Hole

Mounting Angles - L-Shaped

- Not compatible with side-mount shelves or chassis angles
- 11 GA (0.120") tapped or 12 GA (0.105") sq. hole steel construction
- Height must match frame height
- Part Numbers include 2 vertical mounting angles and hardware to mount into Uni-strut members of frame
- 0.375 Square hole mounting angles allow choice of #10-32 or M6 cage nuts (ordered separately) – typical for server equipment
- #10-32 tapped holes allow fast equipment installation with screws only (ordered separately) - no cage nuts required
- 0.281 diameter holes on inside leg of tapped L-shaped mounting angles
- Minimal accessories are available for 23" EIA Mounting Angles

	EIA Rack-mount	Height (U)	Tapped #10-32 (Clear Zinc)	0.375 Square Hole (Black)
L-Shaped	19" or 24"	20U	M-MA20L-T-0	M-MA20L-S-2
		25U	M-MA25L-T-0	M-MA25L-S-2
		30U	M-MA30L-T-0	M-MA30L-S-2
		35U	M-MA35L-T-0	M-MA35L-S-2
		40U	M-MA40L-T-0	M-MA40L-S-2
		45U	M-MA45L-T-0	M-MA45L-S-2
	23"	20U	M-MA2320L-T-0	M-MA2320L-S-2
		25U	M-MA2325L-T-0	M-MA2325L-S-2
		30U	M-MA2330L-T-0	M-MA2330L-S-2
		35U	M-MA2335L-T-0	M-MA2335L-S-2
		40U	M-MA2340L-T-0	M-MA2340L-S-2
		45U	M-MA2345L-T-0	M-MA2345L-S-2

combo/offset

(19" or 24" shown)

.25
.72
2.88
2.00
.25
2.21

#10-32 Tapped Holes

0.375 Square Holes

Mounting Angles - Combo/Offset

- Compatible with side-mount shelves and chassis angles
- 11 GA (0.120") tapped or 12 GA (0.105") sq. hole steel construction
- Height must match frame height
- Part Numbers include 2 vertical mounting angles and hardware to mount into Uni-strut members of frame
- 0.375 Square hole mounting angles allow choice of #10-32 or M6 cage nuts (ordered separately) – typical for server equipment
- #10-32 tapped holes allow fast installation of equipment with screws only (ordered separately) – no cage nuts required
- Minimal accessories are available for 23" EIA Mounting Angles

	EIA Rack-mount	Height (U)	Tapped #10-32 (Clear Zinc)	0.375 Square Hole (Black)
Combo/Offset	19" or 24"	20U	M-MA20C-T-0	M-MA20C-S-2
		25U	M-MA25C-T-0	M-MA25C-S-2
		30U	M-MA30C-T-0	M-MA30C-S-2
		35U	M-MA35C-T-0	M-MA35C-S-2
		40U	M-MA40C-T-0	M-MA40C-S-2
		45U	M-MA45C-T-0	M-MA45C-S-2
	23"	20U	M-MA2320C-T-0	M-MA2320C-S-2
		25U	M-MA2325C-T-0	M-MA2325C-S-2
		30U	M-MA2330C-T-0	M-MA2330C-S-2
		35U	M-MA2335C-T-0	M-MA2335C-S-2
		40U	M-MA2340C-T-0	M-MA2340C-S-2
		45U	M-MA2345C-T-0	M-MA2345C-S-2

hardware & accessories

Mounting Angle Adapters

0.375 Sq. Hole	Tapped 10-32	Height	Kit Qty.
RA24-1	RA24T-1	1U	2
RA24-2	RA24T-2	2U	2
RA24-3	RA24T-3	3U	2
RA24-4	RA24T-4	4U	2
RA24-5	RA24T-5	5U	2

• Allows 19" equipment to be mounted in a 24" EIA enclosure
• Material: 11 GA (0.120") tapped; 12 GA (0.105") square holes
• Kit includes 2 adapter plates – if 4 post mounting, order 2 sets
• Color: Black
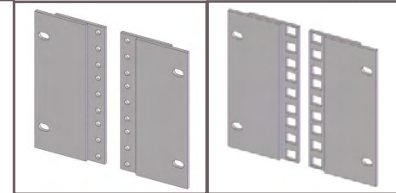
Rack Unit Labels

Part Number	Size	Description	Kit Quantity
U-LBL-1	60U	Adhesive Rack Unit Label	1
MAG-45	45U	Magnetic Rack Unit Label	1

• Adhesive backed labels allow easy equipment alignment during installation
• 1 kit covers one mounting angle – order 4 to do all 4 mounting angles
• Magnetic strip allows alignment during installation and removal to another rack after complete

Panel Screw Kits

Part Number	Color	Description	Quantity
S1B-1032-50	Black	10-32 x 5/8" w/Nylon Washer	50
S1N-1032-50	Nickel	10-32 x 5/8" w/Nylon Washer	50
S1N-M6-50	Nickel	M6 Panel Screws	50

• Decorative low profile truss head with phillips drive
• Nylon washers reduce vibration noise and prevent scratches to the face of your equipment

Cage Nut Kits

Part Number	Color	Description	Quantity
CN12-1032-50	Silver	10-32 Cage Nuts	50
CN12-M6-50	Silver	M6 Cage Nuts	50

• Allows mounting of hardware on 0.375 square hole mounting angles
• Select appropriate thread to match panel screw kits

Cage Nut Installation Tool

Part Number	Description
CN-TOOL	Cage Nut Installation Tool

• Simplifies and speeds installation of cage nuts
• Comfortable, wide grip
• Stainless Steel

Unistrut® Nut Kit

Part Number	Color	Description	Quantity
UN-1420-10	Silver	1/4-20 Bolts & Uni-strut Nuts	10

• Allows additional equipment or accessories to be mounted to front-to-back Unistrut members
• 1/4-20x3/4" serrated hex head bolts included in kit, but not shown in the photo

Levelers Only

• Allows leveling of frame on uneven surfaces
• Includes (4) heavy-duty isolation pad levelers & lock nuts (not shown)
• Install directly into bottom of pre-threaded frames
• One kit supports (1) frame

	Part Number	Description
Levelers	LVL-4	Levelers - 1/2-13 Thread with isolation pad (set of 4)

Riser Base with Levelers

• Adds minimum 3.25" to the overall frame height
• 2" high skirt
• 12 GA (0.105") steel construction
• Includes (4) 1/2-13 heavy-duty isolated non-marking levelers
• Bolts directly to a single frame (1 bay unit)
• Frame width and depth must match base width and depth

	Part Number	Fits Nominal Overall Frame Size (WxD)
Riser w/Levelers	M-B1925R-*	24"x25.50"
	M-B1930R-*	24"x30.75"
	M-B1936R-*	24"x36.00"
	M-B2425R-*	29"x25.50"
	M-B2430R-*	29"x30.75"
	M-B2436R-*	29"x36.00"

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.

Riser Base with Levelers & Casters

• Adds 4.85" to the overall height of the frame
• 2" high skirt
• 12 GA (0.105") steel construction
• Includes (4) 1/2-13 heavy-duty isolated non-marking levelers – lower after rolled into position to keep in place
• Includes (4) 3.5" Dia. swivel non-locking casters – 400 lbs. capacity each
• Bolts directly to a single frame (1 bay unit)
• Frame width and depth must match base width and depth

	Part Number	Fits Nominal Overall Frame Size (WxD)
Levelers & Casters	M-B1925RC-*	24"x25.50"
	M-B1930RC-*	24"x30.75"
	M-B1936RC-*	24"x36.00"
	M-B2425RC-*	29"x25.50"
	M-B2430RC-*	29"x30.75"
	M-B2436RC-*	29"x36.00"

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.

Dolly Base

• Adds 6.25" to the overall height of the frame
• 4" high skirt
• 12 GA (0.105") steel construction
• Includes (4) 4" Dia. casters - (2) swivel locking and (2) swivel non-locking – 550 lbs. capacity each
• Includes cable opening – 8" x 8" with removable cover (cover not shown)
• Bolts directly to a single frame (1 bay unit)
• Frame width and depth must match base width and depth

	Part Number	Fits Nominal Overall Frame Size (WxD)
Dolly Base	M-B1925D-*	24"x25.50"
	M-B1930D-*	24"x30.75"
	M-B1936D-*	24"x36.00"
	M-B2425D-*	29"x25.50"
	M-B2430D-*	29"x30.75"
	M-B2436D-*	29"x36.00"

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.

Extended Dolly Base ▮

	Part Number	Fits Nominal Overall Frame Size (WxD)
Extended	M-B1925DE-*	24"x25.50"
	M-B1930DE-*	24"x30.75"
	M-B1936DE-*	24"x36.00"
	M-B2425DE-*	29"x25.50"
	M-B2430DE-*	29"x30.75"
	M-B2436DE-*	29"x36.00"

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue;
"8" = Beige; "9" = Platinum; "X" = Special - **See page 31 for finish selections.**

• Adds 6.25" to the overall height of the frame
• 4" high skirt
• Extends 6" in front of frame and fits flush with rear of frame
• 12 GA (0.105") steel construction
• Includes (4) 4" Dia. casters - (2) swivel locking and
  (2) swivel non-locking – 550 lbs. capacity each
• Includes cable opening – 8" x 8" with removable cover
  (cover not shown)
• Bolts directly to a single frame (1 bay unit)
• Frame width and depth must match base width and depth
• Extended bases offer tread strip along extension

Extended Dolly Base with Forklift Tunnels ▮

	Part Number	Fits Nominal Overall Frame Size (WxD)
Extended w/ Forklift	M-B1930DEF-*	24"x30.75"
	M-B1936DEF-*	24"x36.00"
	M-B2430DEF-*	29"x30.75"
	M-B2436DEF-*	29"x36.00"

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue;
"8" = Beige; "9" = Platinum; "X" = Special - **See page 31 for finish selections.**

• Adds 6.25" to the overall height of the frame
• 4" high skirt
• Extends 6" in front of frame and fits flush with rear of frame
• Allows lifting/handling of enclosure via a forklift
• Forks enter from side of unit (1 bay units)
• Base blocks the open bottom of a frame
• 12 GA (0.105") steel construction
• Includes (4) 4" Dia. casters - (2) swivel locking and
  (2) swivel non-locking – 550 lbs. capacity each
• Bolts directly to a single frame (1 bay unit)
• Frame width and depth must match base width and depth
• Extended bases offer tread strip along extension
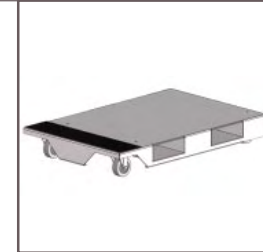
bottom panels

Bottom Panels ▮

	Fits Frame Width	Fits Frame Depth	Standard
Solid	**19" EIA** 24.0" Overall	25.50"	M-BP1925S-*
		30.75"	M-BP1930S-*
		36.00"	M-BP1936S-*
	24" EIA 29.0" Overall	25.50"	M-BP2425S-*
		30.75"	M-BP2430S-*
		36.00"	M-BP2436S-*

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue;
"8" = Beige; "9" = Platinum; "X" = Special - **See page 31 for finish selections.**

• Only compatible with open frame bottoms
• 16 GA (0.060") steel construction
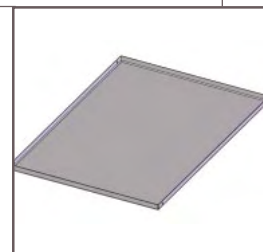
bases-multiple bay

bases - multiple bay

■ Dolly Gang Base

- Adds 6.25" to the overall height of the frame
- 4" high skirt
- 12 GA (0.105") steel construction
- 2 Bay bases Include (4) 4" Dia. swivel casters – (2) locking and (2) non-locking casters – 550 lbs. capacity each
- 3 Bay bases Include (6) 4" Dia. swivel casters – (2) locking and (4) non-locking casters – 550 lbs. capacity each
- One 8" x 8" cable cut-out with removable cover for each bay at rear of base (cover not shown)
- Frame width and depth must match base width and depth

	2 Bay	3 Bay	Fits Nominal Overall Frame Size (WxD)
Dolly Gang Base	M-2GB1925D-*	M-3GB1925D-*	24"x25.50"
	M-2GB1930D-*	M-3GB1930D-*	24"x30.75"
	M-2GB1936D-*	M-3GB1936D-*	24"x36.00"
	M-2GB2425D-*	M-3GB2425D-*	29"x25.50"
	M-2GB2430D-*	M-3GB2430D-*	29"x30.75"
	M-2GB2436D-*	M-3GB2436D-*	29"x36.00"

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.

■ Dolly Gang Base with Forklift Tunnels

- Adds 6.25" to the overall height of the frame
- 4" high skirt
- Allows lifting/handling of enclosure via a forklift
- 12 GA (0.105") steel construction
- 2 Bay bases Include (4) 4" Dia. swivel casters – (2) locking and (2) non-locking casters – 550 lbs. capacity each
- 3 Bay bases Include (6) 4" Dia. swivel casters – (2) locking and (4) non-locking casters – 550 lbs. capacity each
- Base blocks an open bottom of a frame
- Frame width and depth must match base width and depth

	2 Bay	3 Bay	Fits Nominal Overall Frame Size (WxD)
Forklift Tunnels	M-2GB1925DF-*	M-3GB1925DF-*	24"x25.50"
	M-2GB1930DF-*	M-3GB1930DF-*	24"x30.75"
	M-2GB1936DF-*	M-3GB1936DF-*	24"x36.00"
	M-2GB2425DF-*	M-3GB2425DF-*	29"x25.50"
	M-2GB2430DF-*	M-3GB2430DF-*	29"x30.75"
	M-2GB2436DF-*	M-3GB2436DF-*	29"x36.00"

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.

## ■ Extended Dolly Gang Base with Forklift Tunnels

- Adds 6.25" to the overall height of the frame
- 4" high skirt
- Extends 6" in front of frame and fits flush with rear of frame
- 12 GA (0.105") steel construction
- 2 Bay bases Include (4) 4" Dia. swivel casters – (2) locking and (2) non-locking casters – 550 lbs. capacity each
- 3 Bay bases Include (6) 4" Dia. swivel casters – (2) locking and (4) non-locking casters – 550 lbs. capacity each
- Frame width and depth must match base width and depth
- Extended bases offer tread strip along extension

	2 Bay	3 Bay	Fits Nominal Overall Frame Size (WxD)
Extended Forklift	M-2GB1925DEF-*	M-3GB1925DEF-*	24"x25.50"
	M-2GB1930DEF-*	M-3GB1930DEF-*	24"x30.75"
	M-2GB1936DEF-*	M-3GB1936DEF-*	24"x36.00"
	M-2GB2425DEF-*	M-3GB2425DEF-*	29"x25.50"
	M-2GB2430DEF-*	M-3GB2430DEF-*	29"x30.75"
	M-2GB2436DEF-*	M-3GB2436dEF-*	29"x36.00"

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.

■ Drop Down Dolly Gang Base with Forklift Tunnels
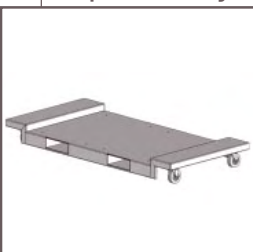
- Drop Down Gang Bases are customizable based on application. Contact Application Specialist to configure your solution
- Drop Down Gang Bases minimize overall enclosure height when using heavy duty large casters
- Allows lifting/handling via a forklift
- Base blocks an open bottom frame
- 12 GA (0.105") steel construction
- Frame width and depth must match base width and depth
- Frames bolt directly to base

	2 Bay	3 Bay	Fits Nominal Overall Frame Size (WxD)
Drop Down Forklift			24"x25.50"
			24"x30.75"
	Contact Application		24"x36.00"
	Specialist for part numbers		29"x25.50"
			29"x30.75"
			29"x36.00"

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.

solid

Fits Frame (U/Overall)	Fits Frame Depth	Locking	Non-Locking
20U (40.00")	25.50"	M2-S2025S-L-*	M2-S2025S-N-*
	30.75"	M2-S2030S-L-*	M2-S2030S-N-*
	36.00"	M2-S2036S-L-*	M2-S2036S-N-*
25U (48.75")	25.50"	M2-S2525S-L-*	M2-S2525S-N-*
	30.75"	M2-S2530S-L-*	M2-S2530S-N-*
	36.00"	M2-S2536S-L-*	M2-S2536S-N-*
30U (57.50")	25.50"	M2-S3025S-L-*	M2-S3025S-N-*
	30.75"	M2-S3030S-L-*	M2-S3030S-N-*
	36.00"	M2-S3036S-L-*	M2-S3036S-N-*
35U (66.25")	25.50"	M2-S3525S-L-*	M2-S3525S-N-*
	30.75"	M2-S3530S-L-*	M2-S3530S-N-*
	36.00"	M2-S3536S-L-*	M2-S3536S-N-*
40U (75.00")	25.50"	M2-S4025S-L-*	M2-S4025S-N-*
	30.75"	M2-S4030S-L-*	M2-S4030S-N-*
	36.00"	M2-S4036S-L-*	M2-S4036S-N-*
45U (83.75")	25.50"	M2-S4525S-L-*	M2-S4525S-N-*
	30.75"	M2-S4530S-L-*	M2-S4530S-N-*
	36.00"	M2-S4536S-L-*	M2-S4536S-N-*

Solid

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - **See page 31 for finish selections.**

- Each part number includes one side panel and adds 3/4" to overall width
- Compatible with M2 Frames only
- 18 gauge steel construction
- Locking or non-locking available
- Unique ball stud/key hole attachment system
- Includes 2 handles per side for easy removal
- Allows bolt-on security from inside of frame to prevent removal (hardware included)
- Side panel must match height and depth of frame

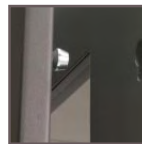Detail of side panel attachment
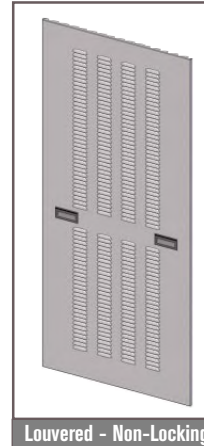
Solid - Locking

Solid - Non-Locking

louvered

Fits Frame (U/Overall)	Fits Frame Depth	Locking	Non-Locking
20U (40.00")	25.50"	M2-S2025L-L-*	M2-S2025L-N-*
	30.75"	M2-S2030L-L-*	M2-S2030L-N-*
	36.00"	M2-S2036L-L-*	M2-S2036L-N-*
25U (48.75")	25.50"	M2-S2525L-L-*	M2-S2525L-N-*
	30.75"	M2-S2530L-L-*	M2-S2530L-N-*
	36.00"	M2-S2536L-L-*	M2-S2536L-N-*
30U (57.50")	25.50"	M2-S3025L-L-*	M2-S3025L-N-*
	30.75"	M2-S3030L-L-*	M2-S3030L-N-*
	36.00"	M2-S3036L-L-*	M2-S3036L-N-*
35U (66.25")	25.50"	M2-S3525L-L-*	M2-S3525L-N-*
	30.75"	M2-S3530L-L-*	M2-S3530L-N-*
	36.00"	M2-S3536L-L-*	M2-S3536L-N-*
40U (75.00")	25.50"	M2-S4025L-L-*	M2-S4025L-N-*
	30.75"	M2-S4030L-L-*	M2-S4030L-N-*
	36.00"	M2-S4036L-L-*	M2-S4036L-N-*
45U (83.75")	25.50"	M2-S4525L-L-*	M2-S4525L-N-*
	30.75"	M2-S4530L-L-*	M2-S4530L-N-*
	36.00"	M2-S4536L-L-*	M2-S4536L-N-*

Louvered

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - **See page 31 for finish selections.**

- Each part number includes one side panel and adds 3/4" to overall width
- Compatible with M2 Frames only
- 18 gauge steel construction
- Unique ball stud/key hole attachment system
- Includes 2 handles per side for easy removal
- Allows bolt-on security from inside of frame to prevent removal (hardware included)
- Includes (4) rows of louvers
- Louvers are 0.875" apart and 0.25" high x 3" long
- Locking or non-locking available
- Side panel must match height and depth of frame
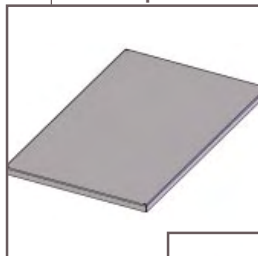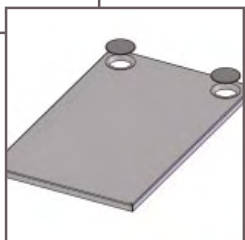
Detail of side panel attachment

Louvered - Locking

Louvered - Non-Locking
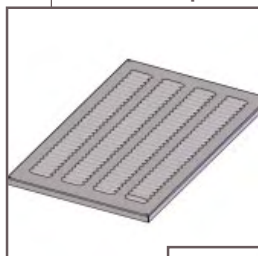
M2 side panels

M2 top panels

■ Solid Top Panels

• Formed on all four sides for added strength
• Top Panel sits flush with top of frame
• 16 GA (0.060") steel construction
• Available with or without (2) 3" cable ports
• Reversible for cable ports at front or rear
• Must match frame width and depth

	Fits Overall Frame Size (WxD)	Standard	with Cable Ports
Solid	24"x25.50"	M2-T1925S-*	M2-T1925SC-*
	24"x30.75"	M2-T1930S-*	M2-T1930SC-*
	24"x36.00"	M2-T1936S-*	M2-T1936SC-*
	29"x25.50"	M2-T2425S-*	M2-T2425SC-*
	29"x30.75"	M2-T2430S-*	M2-T2430SC-*
	29"x36.00"	M2-T2436S-*	M2-T2436SC-*

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.
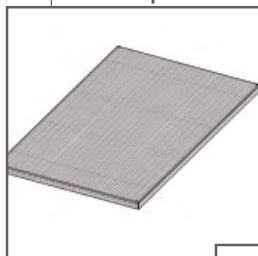
■ Louvered Top Panels

• Formed on all four sides for added strength
• Top Panel sits flush with top of frame
• 16 GA (0.060") steel construction
• Includes (2) double rows of louvers
• Louvers are 0.875" apart and 0.180" high x 2.75" long open area
• Available with or without (2) 3" cable ports
• Reversible for cable ports at front or rear
• Must match frame width and depth
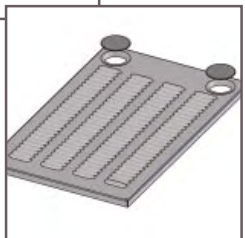
	Fits Overall Frame Size (WxD)	Standard	with Cable Ports
Louvered	24"x25.50"	M2-T1925L-*	M2-T1925LC-*
	24"x30.75"	M2-T1930L-*	M2-T1930LC-*
	24"x36.00"	M2-T1936L-*	M2-T1936LC-*
	29"x25.50"	M2-T2425L-*	M2-T2425LC-*
	29"x30.75"	M2-T2430L-*	M2-T2430LC-*
	29"x36.00"	M2-T2436L-*	M2-T2436LC-*

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.

■ Mesh Top Panels

• Formed on all four sides for added strength
• Top Panel sits flush with top of frame
• 16 GA (0.060") steel construction
• 0.25" Dia. on 0.312" Centers Hole Pattern
• 58% Open area
• Available with or without (2) 3" cable ports
• Reversible for cable ports at front or rear
• Must match frame width and depth
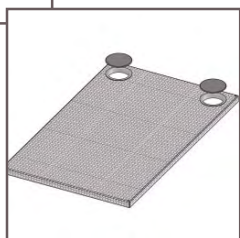
	Fits Overall Frame Size (WxD)	Standard	with Cable Ports
Mesh	24"x25.50"	M2-T1925M-*	M2-T1925MC-*
	24"x30.75"	M2-T1930M-*	M2-T1930MC-*
	24"x36.00"	M2-T1936M-*	M2-T1936MC-*
	29"x25.50"	M2-T2425M-*	M2-T2425MC-*
	29"x30.75"	M2-T2430M-*	M2-T2430MC-*
	29"x36.00"	M2-T2436M-*	M2-T2436MC-*

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.
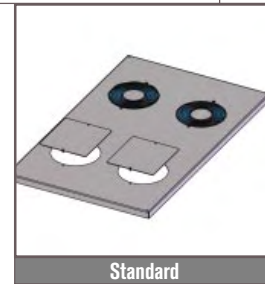
6-inch diameter fans

Top Panels – Fan - (2) 235 CFM 6" Diameter – 120V ◼

120V – 6" Fans	Fits Overall Frame Size (WxD)	Standard	with Cable Ports
	24"x25.50"	M2-T1925F26-*	M2-T1925F26C-*
	24"x30.75"	M2-T1930F26-*	M2-T1930F26C-*
	24"x36.00"	M2-T1936F26-*	M2-T1936F26C-*
	29"x25.50"	M2-T2425F26-*	M2-T2425F26C-*
	29"x30.75"	M2-T2430F26-*	M2-T2430F26C-*
	29"x36.00"	M2-T2436F26-*	M2-T2436F26C-*

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue;
"8" = Beige; "9" = Platinum; "X" = Special - **See page 31 for finish selections.**

- Formed on all four sides for added strength
- Top Panel sits flush with top of frame
- 16 GA (0.060") steel construction
- Includes (2) 235 CFM 6" diameter fans and finger guards
- Fans are daisy chained together to a single 15A (2) prong plug connection. Cord length is 24"
- Tops are punched to accept (2) additional 6" fans (ordered separately) and include cover plates
- Available with or without (2) 3" cable ports
- Reversible for cable ports at front or rear
- Must match frame width and depth

Standard

Top Panels – Fan - (2) 235 CFM 6" Diameter – 220V ◼

220V – 6" Fans	Fits Overall Frame Size (WxD)	Standard	with Cable Ports
	24"x25.50"	M2-T1925F26-H-*	M2-T1925F26C-H-*
	24"x30.75"	M2-T1930F26-H-*	M2-T1930F26C-H-*
	24"x36.00"	M2-T1936F26-H-*	M2-T1936F26C-H-*
	29"x25.50"	M2-T2425F26-H-*	M2-T2425F26C-H-*
	29"x30.75"	M2-T2430F26-H-*	M2-T2430F26C-H-*
	29"x36.00"	M2-T2436F26-H-*	M2-T2436F26C-H-*

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue;
"8" = Beige; "9" = Platinum; "X" = Special - **See page 31 for finish selections.**

- Formed on all four sides for added strength
- Top Panel sits flush with top of frame
- 16 GA (0.060") steel construction
- Includes (2) 235 CFM 6" diameter fans and finger guards
- Fans are daisy chained together to a single IEC plug connection. Cord length is 24"
- Tops are punched to accept (2) additional 6" fans (ordered separately) and include cover plates
- Available with or without (2) 3" cable ports
- Reversible for cable ports at front or rear
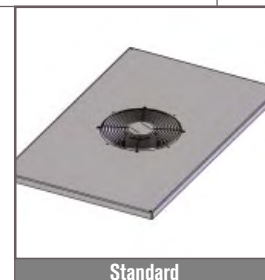- Must match frame width and depth
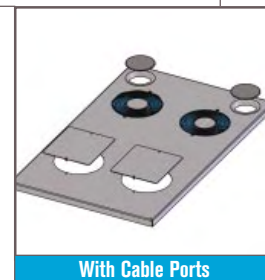
With Cable Ports

10-inch diameter fans

Top Panels – Fan - (1) 550 CFM 10" Diameter – 120V ◼

120V – 10" Fans	Fits Overall Frame Size (WxD)	Standard	with Cable Ports
	24"x25.50"	M2-T1925F10-*	M2-T1925F10C-*
	24"x30.75"	M2-T1930F10-*	M2-T1930F10C-*
	24"x36.00"	M2-T1936F10-*	M2-T1936F10C-*
	29"x25.50"	M2-T2425F10-*	M2-T2425F10C-*
	29"x30.75"	M2-T2430F10-*	M2-T2430F10C-*
	29"x36.00"	M2-T2436F10-*	M2-T2436F10C-*

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue;
"8" = Beige; "9" = Platinum; "X" = Special - **See page 31 for finish selections.**

- Formed on all four sides for added strength
- Top Panel sits flush with top of frame
- 16 GA (0.060") steel construction
- Includes (1) 550 CFM 10" diameter fan and finger guards
- Fans are individually corded with 24" cords and a (2) prong 15A plug
- Available with or without (2) 3" cable ports
- Reversible for cable ports at front or rear
- Must match frame width and depth

Standard

Top Panels – Fan - (1) 550 CFM 10" Diameter – 220V ◼

| 220V – 10" Fans	Fits Overall Frame Size (WxD)	Standard	with Cable Ports
	24"x25.50"	M2-T1925F10-H-*	M2-T1925F10C-H-*
	24"x30.75"	M2-T1930F10-H-*	M2-T1930F10C-H-*
	24"x36.00"	M2-T1936F10-H-*	M2-T1936F10C-H-*
	29"x25.50"	M2-T2425F10-H-*	M2-T2425F10C-H-*
	29"x30.75"	M2-T2430F10-H-*	M2-T2430F10C-H-*
	29"x36.00"	M2-T2436F10-H-*	M2-T2436F10C-H-*

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue;
"8" = Beige; "9" = Platinum; "X" = Special - **See page 31 for finish selections.**

- Formed on all four sides for added strength
- Top Panel sits flush with top of frame
- 16 GA (0.060") steel construction
- Includes (1) 550 CFM 10" diameter fan and finger guards
- Fans are individually corded with 24" cords and IEC plug
- Available with or without (2) 3" cable ports
- Reversible for cable ports at front or rear
- Must match frame width and depth

With Cable Ports

M2 top panels
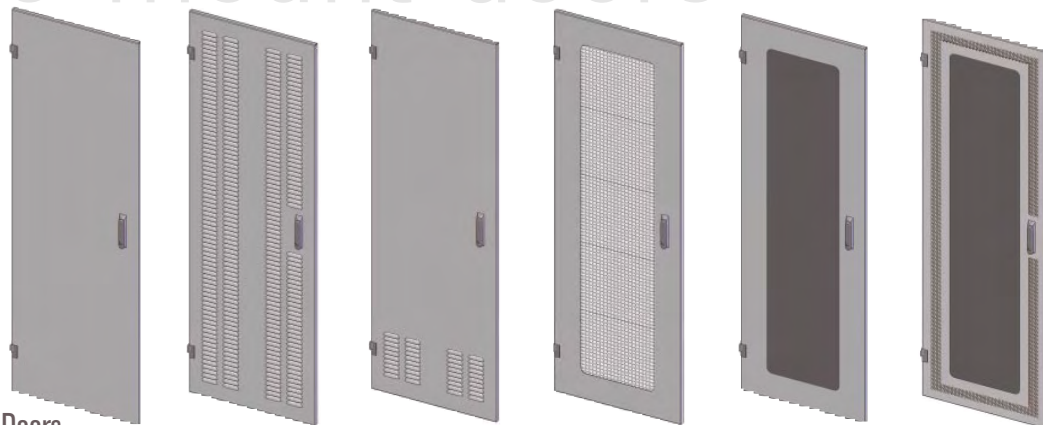
doors

Surface-Mount Doors

| Frame Width EIA (Overall)	Frame Height	Solid	Louvered Full	Louvered Bottom	Full Mesh	Plexiglas	Plexiglas with Vents
19" (24.00")	20U	M-DL1920S-S-*	M-DL1920LF-S-*	M-DL1920LB-S-*	M-DL1920M-S-*	M-DL1920P-S-*	M-DL1920PV-S-*
	25U	M-DL1925S-S-*	M-DL1925LF-S-*	M-DL1925LB-S-*	M-DL1925M-S-*	M-DL1925P-S-*	M-DL1925PV-S-*
	30U	M-DL1930S-S-*	M-DL1930LF-S-*	M-DL1930LB-S-*	M-DL1930M-S-*	M-DL1930P-S-*	M-DL1930PV-S-*
	35U	M-DL1935S-S-*	M-DL1935LF-S-*	M-DL1935LB-S-*	M-DL1935M-S-*	M-DL1935P-S-*	M-DL1935PV-S-*
	40U	M-DL1940S-S-*	M-DL1940LF-S-*	M-DL1940LB-S-*	M-DL1940M-S-*	M-DL1940P-S-*	M-DL1940PV-S-*
	45U	M-DL1945S-S-*	M-DL1945LF-S-*	M-DL1945LB-S-*	M-DL1945M-S-*	M-DL1945P-S-*	M-DL1945PV-S-*
24" (29.00")	20U	M-DL2420S-S-*	M-DL2420LF-S-*	M-DL2420LB-S-*	M-DL2420M-S-*	M-DL2420P-S-*	M-DL2420PV-S-*
	25U	M-DL2425S-S-*	M-DL2425LF-S-*	M-DL2425LB-S-*	M-DL2425M-S-*	M-DL2425P-S-*	M-DL2425PV-S-*
	30U	M-DL2430S-S-*	M-DL2430LF-S-*	M-DL2430LB-S-*	M-DL2430M-S-*	M-DL2430P-S-*	M-DL2430PV-S-*
	35U	M-DL2435S-S-*	M-DL2435LF-S-*	M-DL2435LB-S-*	M-DL2435M-S-*	M-DL2435P-S-*	M-DL2435PV-S-*
	40U	M-DL2440S-S-*	M-DL2440LF-S-*	M-DL2440LB-S-*	M-DL2440M-S-*	M-DL2440P-S-*	M-DL2440PV-S-*
	45U	M-DL2445S-S-*	M-DL2445LF-S-*	M-DL2445LB-S-*	M-DL2445M-S-*	M-DL2445P-S-*	M-DL2445PV-S-*

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue;
"8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.

Surface-Mount Door Specs
• Front or rear mounting
• Add 1" to overall frame depth (excluding handle and hinges); Louvered = 1.25" added
• 16 GA (0.060") steel construction
• Includes Lift & Turn swing handle with keylock
• Shorter height doors can be used in conjunction with Door Sill Panel (PDS-19-1-* or PDS-24-1-*)
• 180 degree, self contained lift-off hinges
• Frames are only predrilled for surface-mount doors at time of order. Future retrofit requires frame/field drilling
• All part numbers showing are for left-hinged doors. For right-hinged doors, specify "M-DR" in part number replacing "M-DL".
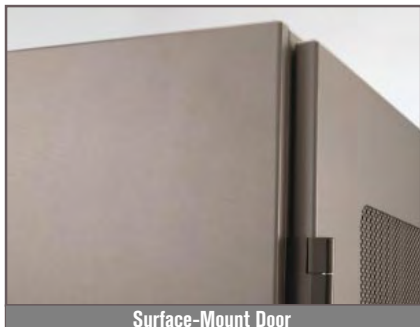
Surface-Mount Door
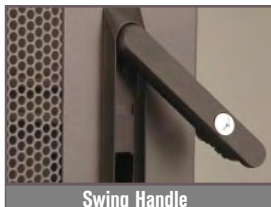
Swing Handle

180 Degree Lift-Off Hinge

Application Notes:

Solid
• Utilized for concealing interior contents and preventing airflow from entering or exiting
• Typically used in a bottom to top airflow pattern with fans

Louvered - Full
• Includes (2) double rows of louvers
• Louvers are 0.875" apart and 0.180" high x 2.75" long
• Utilized for concealing interior contents while allowing air to enter and/or exit
• Typically used in a bottom to top airflow pattern with fans

Louvered - Bottom Only
• Includes (2) double rows of louvers 12" high at the bottom of the door
• Louvers are 0.875" apart and 0.180" high x 2.75" long
• Utilized for concealing interior contents while allowing air to enter and/or exit from the bottom of the door(s)
• Typically used in a bottom to top airflow pattern with fans

Mesh
• Mesh is welded to steel door
• Mesh is 16 GA (0.060") - 0.25" dia. on 0.312 staggered centers
• Utilized for securing interior contents while allowing maximum air to enter and/or exit
• Typically used in a front-to-back airflow pattern mesh on front and rear

Plexiglas
• Only available in surface-mount
• 1/4" thick tinted Lexan®
• Utilized for viewing interior contents while preventing airflow from entering or exiting
• Typically used in a bottom to top airflow pattern with fans

Plexiglas with Vented Perimeter
• Only available in surface-mount
• Vent pattern is 16 GA (0.060") - 0.25" dia. on 0.312 staggered centers
• 1/4" thick tinted Lexan®
• Utilized for viewing interior contents and allowing airflow to enter
• Typically used on front with either a bottom to top airflow pattern with fans or front-to-back with mesh rear door
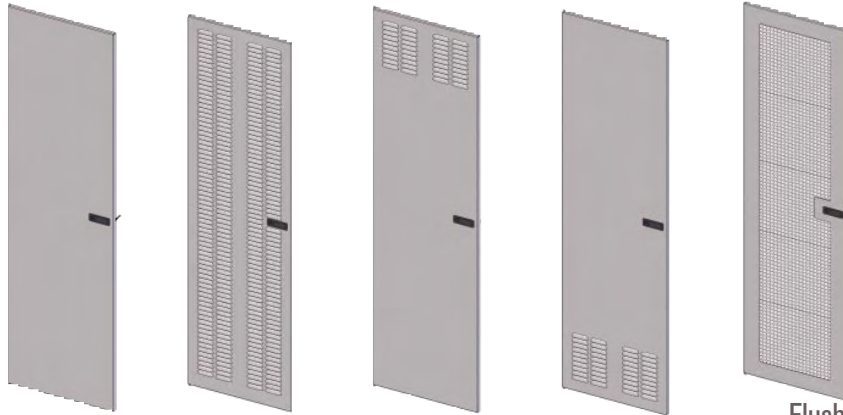
Flush-Mount Doors |

|	Frame Width EIA (Overall)	Frame Height	Solid	Louvered Full	Louvered Top	Louvered Bottom	Full Mesh
Flush Doors (Rear Only)	19" (24.00")	20U	M-DL1920S-F-*	M-DL1920LF-F-*	M-DL1920LT-F-*	M-DL1920LB-F-*	M-DL1920M-F-*
		25U	M-DL1925S-F-*	M-DL1925LF-F-*	M-DL1925LT-F-*	M-DL1925LB-F-*	M-DL1925M-F-*
		30U	M-DL1930S-F-*	M-DL1930LF-F-*	M-DL1930LT-F-*	M-DL1930LB-F-*	M-DL1930M-F-*
		35U	M-DL1935S-F-*	M-DL1935LF-F-*	M-DL1935LT-F-*	M-DL1935LB-F-*	M-DL1935M-F-*
		40U	M-DL1940S-F-*	M-DL1940LF-F-*	M-DL1940LT-F-*	M-DL1940LB-F-*	M-DL1940M-F-*
		45U	M-DL1945S-F-*	M-DL1945LF-F-*	M-DL1945LT-F-*	M-DL1945LB-F-*	M-DL1945M-F-*
	24" (29.00")	20U	M-DL2420S-F-*	M-DL2420LF-F-*	M-DL2420LT-F-*	M-DL2420LB-F-*	M-DL2420M-F-*
		25U	M-DL2425S-F-*	M-DL2425LF-F-*	M-DL2425LT-F-*	M-DL2425LB-F-*	M-DL2425M-F-*
		30U	M-DL2430S-F-*	M-DL2430LF-F-*	M-DL2430LT-F-*	M-DL2430LB-F-*	M-DL2430M-F-*
		35U	M-DL2435S-F-*	M-DL2435LF-F-*	M-DL2435LT-F-*	M-DL2435LB-F-*	M-DL2435M-F-*
		40U	M-DL2440S-F-*	M-DL2440LF-F-*	M-DL2440LT-F-*	M-DL2440LB-F-*	M-DL2440M-F-*
		45U	M-DL2445S-F-*	M-DL2445LF-F-*	M-DL2445LT-F-*	M-DL2445LB-F-*	M-DL2445M-F-*

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - **See page 31 for finish selections.**
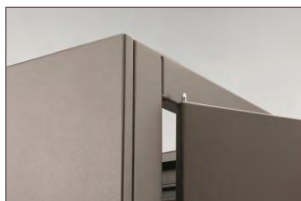
Flush-Mount Door Specs
- Rear-mounting only
- Add no depth to frame
- Doors are left-hinged
- Hinge holes are pre-punched in all frames
- 16 GA (0.060") steel construction
- Includes trigger handle with keylock
- Shorter height doors can be used in conjunction with Door Sill Panel (PDS-19-1-* or PDS-24-1-*)

Flush-Mount Door
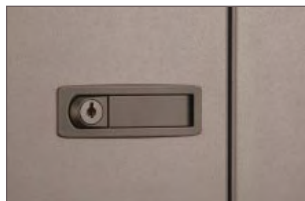
Flush Door Handle

Spring-Loaded Hinge Pin

Application Notes:

Solid
- Utilized for concealing interior contents and preventing airflow from entering or exiting
- Typically used in a bottom to top airflow pattern with fans

Louvered - Full
- Includes (2) double rows of louvers
- Louvers are 0.875" apart and 0.180" high x 2.75" long
- Utilized for concealing interior contents while allowing air to enter and/or exit
- Typically used in a bottom to top airflow pattern with fans

Louvered - Top Only
- Flush-mount only
- Includes (2) double rows of louvers 12" high at the top of the door
- Louvers are 0.875" apart and 0.180" high x 2.75" long
- Utilized for concealing interior contents while allowing air to exit from the top of the door(s)
- Typically used in a bottom to top/rear airflow pattern with blower mounted at bottom

Louvered - Bottom Only
- Includes (2) double rows of louvers 12" high at the bottom of the door
- Louvers are 0.875" apart and 0.180" high x 2.75" long
- Utilized for concealing interior contents while allowing air to enter and/or exit from the bottom of the door(s)
- Typically used in a bottom to top airflow pattern with fans

Mesh
- Mesh is welded to steel door
- Mesh is 16 GA (0.060") - 0.25" dia. on 0.312 staggered centers
- Utilized for securing interior contents while allowing maximum air to enter and/or exit
- Typically used in a front-to-back airflow pattern mesh on front and rear
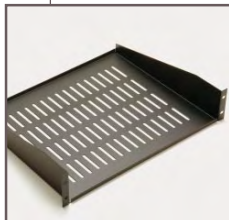
doors

shelves & drawers

Cantilevered Shelves - Solid
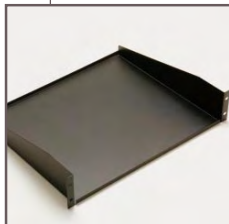
- Ideal for small, light non-rack-mount devices
- 2-post mounted
- 16 GA (0.060") steel
- Black

| 19"	24"	HxD	Weight Capacity
CS1-2	CS1-2412-2	1U x 12"	50 lbs.
CS2-2	CS2-2415-2	2U x 15"	100 lbs.
CS3-2	CS3-2415-2	3U x 15"	100 lbs.

Cantilevered Shelves - Vented

- Ideal for small, light non-rack-mount devices
- Vented for improved airflow and/or strapping down equipment
- 2-post mounted
- 16 GA (0.060") steel
- Includes rack-mount hardware - (4) #10-32 screws and (4) cage nuts
- Black

| 19"	24"	HxD	Weight Capacity
CSV1-2	CSV1-2412-2	1U x 12"	50 lbs.
CSV2-2	CSV2-2415-2	2U x 15"	100 lbs.
CSV3-2	CSV3-2415-2	3U x 15"	100 lbs.

Fixed Shelves - 4 Point Rack-mount
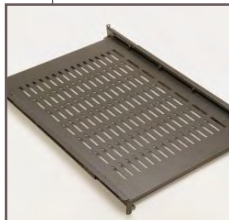
- Ideal for heavier non-rack-mount devices
- Vented for improved airflow and/or strapping down equipment
- Includes adjustable mounting ears
- Includes rack-mount hardware (8) #10-32 screws and (8) cage nuts
- 14 GA (0.075") steel
- Black

19"	24"	HxD	Required Mtg Angle Space	Weight Capacity
FS1V-1922-2	FS1V-2422-2	1U x 22"	22" - 29"	200 lbs.
FS1V-1926-2	FS1V-2426-2	1U x 26"	26" - 33"	200 lbs.

Fixed Shelves - Side-mount (Combo mounting angles only)
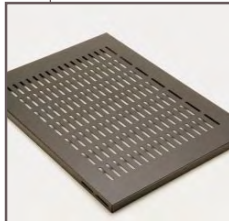
- Only compatible with Combo/Offset mounting angles
- Ideal for heavier non-rack-mount devices
- Vented for improved airflow and/or strapping down equipment
- Includes rack-mount hardware (4) #10-32 screws and (4) cage nuts
- 14 GA (0.075") steel
- Black

19"	24"	HxD	Required Mtg Angle Space	Weight Capacity
FS3V-1924-2	FS3V-2424-2	1" x 24"	24" - 31"	200 lbs.
FS3V-1926-2	FS3V-2426-2	1" x 26"	26" - 33"	200 lbs.

Sliding Shelves - 4 Point Rack-mount

- Ideal for heavier non-rack-mount devices
- Vented for improved airflow and/or strapping down equipment
- Includes adjustable mounting ears and slides
- Includes rack-mount hardware (8) #10-32 screws and (8) cage nuts
- 14 GA (0.075") steel
- Black

19"	24"	HxD	Required Mtg Angle Space	Weight Capacity
SS2V-1922-2	SS2V-2422-2	1U x 22"	24" - 31"	100 lbs.
SS2V-1924-2	SS2V-2424-2	1U x 24"	24" - 34"	100 lbs.
SS3V-1930-2	SS3V-2430-2	1U x 30"	24" - 31"	300 lbs.

Drawers - 2 post mounted ■

Part Number	HxD	Rackmount Compatible	Weight Capacity
UD2-1915-*	2U x 15"	19"	50 lbs.
UD4-1915-*	4U x 15"	19"	50 lbs.

Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.

• Ideal for light-duty concealed storage
• Includes mounting ears and slides
• Includes rack-mount hardware (4) #10-32 screws and (4) cage nuts
• 14 GA (0.075") steel
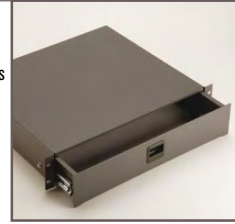
Drawers - 4 post mounted ■

Part Number	HxD	Rackmount Compatible	Weight Capacity
DR2-1915-*	2U x 15"	19"	100 lbs.
DR3-1915-*	3U x 15"	19"	100 lbs.
DR4-1915-*	4U x 15"	19"	100 lbs.

Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.

• Ideal for heavier-duty concealed storage
• Includes mounting ears and slides
• Includes rack-mount hardware (8) #10-32 screws and (8) cage nuts
• 14 GA (0.075") steel

Chassis Support Angles ■

Part Number	Depth	Required Mtg Angle Spacing	Weight Capacity
CA-18	18"	18.1"-22.0"	200 lbs.
CA-20	22"	20.1"-24.0"	200 lbs.
CA-24	24"	24.1"-28.0"	200 lbs.
CA-26	26"	26.1"-30.0"	200 lbs.

• Only compatible with Combo/Offset Mounting Angles
• 1.75"H x 3"W – each angle
• Provide added support for heavy 2-post mounted equipment
• Includes 2 support angles
• Includes rack-mount hardware (4) #10-32 screws and (4) clip nuts
• 11 GA (0.120") steel
• Zinc plated
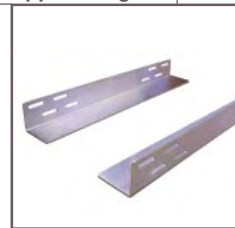
Writing Surface ■

Part Number	Description	Rackmount Compatible
WS19-*	1U Slide Out Writing Surface	19"

Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.

• Slides out of 19" rack to provide solid surface for writing
• Includes rack-mount hardware (8) #10-32 screws and (8) cage nuts
• Surface includes adjustable slides and mounting hardware
• Black
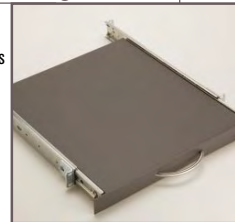
Document Pocket ■

Part Number	Description	Kit Quantity
DOC-1	Document Pocket, Black	1

• Allows ready access to documentation inside a particular rack
• Great for installation or maintenance manuals
• Adhesive backed pocket typically mounts to interior of door
• Compatible with surface or flush-mount doors
• Pocket is formed 16 GA (0.060") steel

drawers & chassis angles
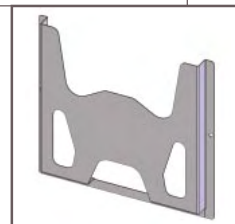
keyboard shelves & drawers

15" Keyboard

Part Number	Description	Rackmount Compatible
KBD-15	Keyboard, 15" - 104Keys, PS/2 Connection, Integrated Touchpad	19"

- Keyboard Dimensions – 16.3"L x 7.6"W
- 104 Keys, Windows Compatible
- Includes integrated touchpad and (2) mouse buttons
- PS/2 Compatible
- MTBF > 113,500 hours

Compact Keyboard Drawer
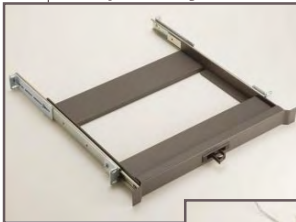
Part Number	Description	Rackmount Compatible
KD-1ULK-*	Keyboard Drawer for compact keyboard, less keyboard	19"

- Drawer allows mounting of most 15" compact keyboards
- Keyboard not included
- Drawer includes adjustable slides and #10-32 mounting hardware

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - **See page 31 for finish selections.**

Swivel Keyboard Drawer

Part Number	Description	Rackmount Compatible
KDS-2U-2	Keyboard Drawer-Swivel for standard keyboards	19"

- Allows a full-size keyboard to mount in a 19" format
- Drawer includes adjustable slides and #10-32 mounting hardware
- Keyboard not included
- Black

Rack-mount LCD

- 15" High Resolution (1024x768) TFT Display
- 83 Key Keyboard with glide point touchpad and (2) mouse buttons
- Internal Power Supply - 100 - 250V, 50-60 Hz, Single Phase
- LCD Drawer Dimensions: 19"W x 17"D x 1.75"H (1U)
- Laptop Style design protects screen
- Maximum mounting angle spacing: 35.5"
- Drawer includes slides and mounting hardware
- Black

Part Number	Description	Rackmount Compatible
KMD-1U	1U Monitor/Keyboard Drawer	19"

Vertical Lacing Bars - Aluminum

| 1" Wide	1" Wide w/Tie Mounts	Height
LBV1-20-2	LBV1T-20-2	20U
LBV1-25-2	LBV1T-25-2	25U
LBV1-30-2	LBV1T-30-2	30U
LBV1-35-2	LBV1T-35-2	35U
LBV1-40-2	LBV1T-40-2	40U
LBV1-45-2	LBV1T-45-2	45U

- 1" Wide or 1" Wide with Tie Mounts (for nylon cable ties - not included)
- Material: 1" x 0.188" thick aluminum
- Slots allow Velcro or other cable straps to neatly organize cable bundles
- Aluminum allows easy field modifications
- Includes hardware to mount to front-to-back members
- Color: Black
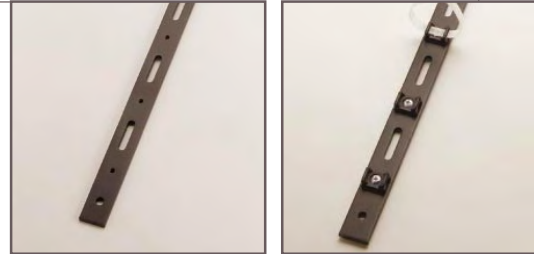
Vertical Lacing Bars - Steel

| 2" Wide w/ Velcro Straps	3.5" Wide	Height
LBV-20-2	LBV3-20-2	20U
LBV-25-2	LBV3-25-2	25U
LBV-30-2	LBV3-30-2	30U
LBV-35-2	LBV3-35-2	35U
LBV-40-2	LBV3-40-2	40U
LBV-45-2	LBV3-45-2	45U

- 2" Wide with Velcro Straps or 3.5" Wide
- Material: 14 GA (0.075") steel
- Slots allow Velcro or other cable straps to neatly organize cable bundles
- Includes hardware to mount to front-to-back members
- Color: Black
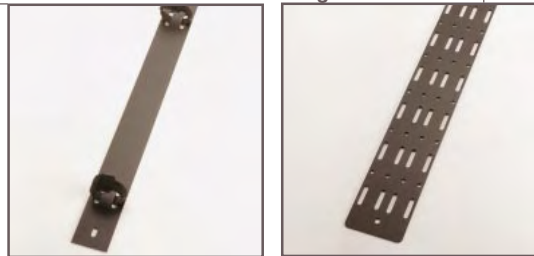
Horizontal Lacing Bars

| Part Number	Rackmount Compatible
LBT-19-2	19"
LBT-24-2	24"

- Ship in packs of 10
- Material: 14 GA (0.075") steel
- Slots allow Velcro or other cable straps to neatly organize cable bundles
- Includes #10-32 hardware to mount to EIA mounting angles
- Color: Black
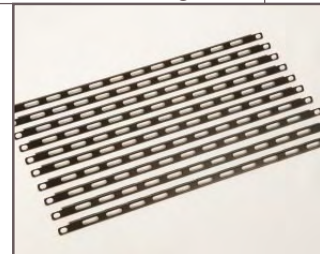
Horizontal Cable Managers

Part Number	Rackmount	Rackmount Height
HC1-19-2	19"	1U
HC2-19-2	19"	2U

- 1U or 2U versions available
- Dimensions: 1Ux19"Wx3.25"D; 2Ux19"x3.25"D
- Material: 14 GA (0.075") steel
- Neatly organizes cables horizontally across rack space
- Includes #10-32 hardware to mount to EIA mounting angles
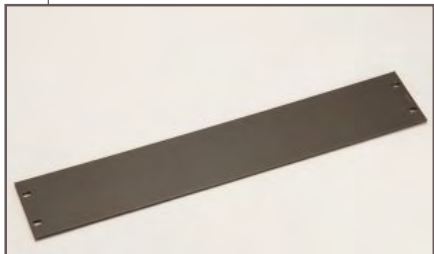- Color: Black
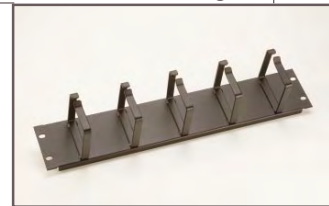
Straps & Cable Rings

Part Number	Description
VT-10	Velcro Ties (pack of 10ea)
CR-10-2	Cable Rings, 2"W x 3"D, pack of 10
VCS-24	24" cinch straps, pack of 10

- Velcro Straps are 8" long; packs of 10
- Cinch straps are 24" long with loop to pull secure; packs of 10
- Color: Black

filler panels

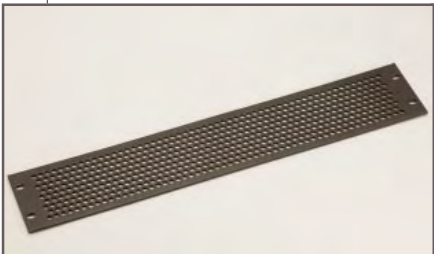filler panels

■ Filler Panels - Aluminum - Solid

- Panels provide finished look while functionally blocking or directing airflow
- Material: 0.125" thick aluminum
- Aluminum allows easy field modification for cable ports, or other connection devices
- Includes #10-32 mounting hardware
- PA-KIT includes (2) 1U, (2) 2U, (2) 3U, and (1) 4U panel

19"	24"	Height
PA-1-*	PA24-1-*	1U
PA-2-*	PA24-2-*	2U
PA-3-*	PA24-3-*	3U
PA-4-*	PA24-4-*	4U
PA-5-*	PA24-5-*	5U
PA-6-*	PA24-6-*	6U
PA-7-*	PA24-7-*	7U
PA-8-*	PA24-8-*	8U
PA-9-*	PA24-9-*	9U
PA-10-*	PA24-10-*	10U
PA-11-*	PA24-11-*	11U
PA-12-*	PA24-12-*	12U
PA-KIT-*	-	Kit

Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.

■ Filler Panels - Aluminum - Vented

- Panels provide finished look while functionally blocking or directing airflow
- Material: 0.125" thick aluminum
- Vented option allows airflow to pass
- Aluminum allows easy field modification for cable ports, or other connection devices
- Includes #10-32 mounting hardware

19"	24"	Height
PAV-1-*	PAV24-1-*	1U
PAV-2-*	PAV24-2-*	2U
PAV-3-*	PAV24-3-*	3U
PAV-4-*	PAV24-4-*	4U
PAV-5-*	PAV24-5-*	5U
PAV-6-*	PAV24-6-*	6U
PAV-7-*	PAV24-7-*	7U
PAV-8-*	PAV24-8-*	8U
PAV-9-*	PAV24-9-*	9U
PAV-10-*	PAV24-10-*	10U
PAV-11-*	PAV24-11-*	11U
PAV-12-*	PAV24-12-*	12U

Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.

■ Filler Panels - Steel - 0.89 Formed Offset

- Offset panels align flush with front of frame when mounting angles are fully forward
- Panels provide finished look while functionally blocking or directing airflow
- Formed flanges provide structural rigidity to panel - formed all 4 sides
- Material: 16 GA (0.060") steel
- Includes #10-32 mounting hardware

19"	24"	Height
P-19-1-*	P-24-1-*	1U
P-19-2-*	P-24-2-*	2U
P-19-3-*	P-24-3-*	3U
P-19-4-*	P-24-4-*	4U
P-19-5-*	P-24-5-*	5U
P-19-6-*	P-24-6-*	6U
P-19-7-*	P-24-7-*	7U
P-19-8-*	P-24-8-*	8U
P-19-9-*	P-24-9-*	9U
P-19-10-*	P-24-10-*	10U
P-19-11-*	P-24-11-*	11U
P-19-12-*	P-24-12-*	12U
P-19-15-*	P-24-15-*	15U
P-19-18-*	P-24-18-*	18U

Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - See page 31 for finish selections.

Filler Panels - Steel - Solid Flat with Flanges

19"	24"	Height
PSF-1-*	PSF24-1-*	1U
PSF-2-*	PSF24-2-*	2U
PSF-3-*	PSF24-3-*	3U
PSF-4-*	PSF24-4-*	4U
PSF-5-*	PSF24-5-*	5U
PSF-6-*	PSF24-6-*	6U

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - **See page 31** for finish selections.

• Panels provide finished look while functionally blocking or directing airflow
• Formed flanges provide structural rigidity to panel
• Material: 16 GA (0.060") steel
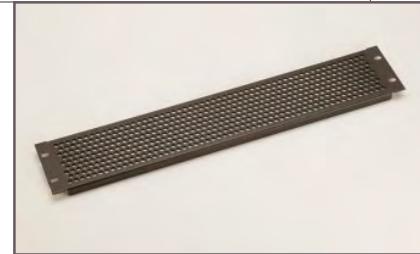• Includes #10-32 mounting hardware

Filler Panels - Steel-Vented Flat w/ Flanges

19"	24"	Height
PSFV-1-*	PSFV24-1-*	1U
PSFV-2-*	PSFV24-2-*	2U

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - **See page 31** for finish selections.

• Solid or vented option
• Formed flanges provide structural rigidity to panel
• Vented option allows airflow to pass
• Material: 16 GA (0.060") steel
• Includes #10-32 mounting hardware

Filler Panels - Fan - Flat with Flanges

19"	24"	Height
PSFF-3-*	PSFF24-3-*	3U

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - **See page 31** for finish selections.

• Low noise fans (25dB)
• Includes (2) 120V, 4" fans at 110 CFM ea. with finger guards and power cord with 2 prong plug (1-15P)
• Ships completely assembled
• Panels provide finished look while functionally directing airflow
• Material: 16 GA (0.060") steel
• Includes #10-32 mounting hardware

Filler Panels - Hinged - Flat w/ Flanges

19"	24"	Height
PSFH-2-*	PSFH24-2-*	2U
PSFH-4-*	PSFH24-4-*	4U
PSFH-6-*	PSFH24-6-*	6U
PSFH-8-*	PSFH24-8-*	8U

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - **See page 31** for finish selections.

• Hinged option allows quick, tool-less access behind panel
• Panels provide finished look while functionally blocking or directing airflow
• Formed flanges provide structural rigidity to panel
• Material: 16 GA (0.060") steel
• Includes #10-32 captive and mounting hardware

filler panels

■ Blowers

Part Number	CFM @ 0" S.P.	Cut-off S.P.	RPM Nominal	Voltage	Amps (Running)	Height	Depth
BL-300-3	300	0.87	3000	115	1.4	3U / 5.75"	7.69"
BL-330-4	330	0.42	1600	115	1.1	4U / 7.00"	10.06"
BL-525-5	525	0.82	1500	115	1.3	5U / 8.75"	11.56"
BL-300-3-2	300	0.87	3000	230	0.7	3U / 5.75"	7.69"
BL-330-4-2	330	0.42	1600	230	0.6	4U / 7.00"	10.06"
BL-525-5-2	525	0.82	1500	230	0.7	5U / 8.75"	11.56"

• All blowers are 19" rack-mount
• Baked Powder Finish
• Stainless steel grills
• Dual inlet blower design
• Permanent filters
• Exhaust guards included
• UL/CSA precision ball bearing motors
• 115V models include a 3' SJT 3-wire power cord and molded plug
• 230V models are supplied without a plug

■ Fans

Part Number	CFM @ 0" S.P.	Voltage	Diameter
FAN-10	550	115V	10"
FAN-10-2	550	230V	10"
FAN-6	235	115V	6"
FAN-6-2	235	230V	6"

• Tube axial fans
• 10" diameter fan is 3.5" high
• 6" diameter fans are 2" high
• 24" Power cord included - 115V, 2 prong plug; 230V, IEC C-14 plug
• Color is Black
• Includes (2) finger guards

■ Fan Accessories

Part Number	Description
C45-P	Fan Cord - single 120V with NEMA 1-15 plug
C45-3P	Fan Cord - 3 wire single 120V with NEMA 5-15 plug
C45-2P	Fan Cord - single 230V with IEC C-14 plug
C45-2DC-P	Fan Cord - connects (2) 120V fans to a single NEMA 1-15 plug
C45-2DC-2P	Fan Cord - connects (2) 230V fans to a single IEC C-14 plug
C45-2DC-3P	Fan Cord - 3 wire connects (2) 120V fans to a single NEMA 5-15 plug

• Fan cords are 24" long
• C45-2DC-P shown

Copper Bus Bar - Vertical

| Isolated	Non-Isolated	Height
CBI-20	CBB-20	20U
CBI-25	CBB-25	25U
CBI-30	CBB-30	30U
CBI-35	CBB-35	35U
CBI-40	CBB-40	40U
CBI-45	CBB-45	45U

• Isolated or non-isolated versions
• Holes are tapped #10-32 spaced on 2U (3.5" centers)
• Material: 1" x 0.25" thick copper bar
• Isolated versions include insulating spacers
  and nylon bolts to provide electrical isolation
• Includes hardware to mount front-to-back members
• Includes provisions for attaching 1/4" double-hole lugs

Copper Bus Bar - Horizontal

Isolated	Non-Isolated	Rackmount Compatible
CBIH-19	CBBH-19	19"
CBIH-24	CBBH-24	24"

• Isolated or non-isolated versions
• Holes are tapped #10-32 spaced on 2U (3.5" centers)
• Material: 1" x 0.25" thick copper bar
• Isolated versions include insulating spacers and
  nylon bolts to provide electrical isolation
• Includes #10-32 hardware to mount to EIA mounting angles
• Includes provisions for attaching 1/4" double-hole lugs

Grounding Straps

Part Number	Description
GRD-G-1-18	18" #6 cotton jacket
GRD-B-1-18	18" braided strap

• Braided flat straps or #6 AWG green
  cotton jacketed copper
• 0.281" diameter ring terminals at each end
• Additional lengths available upon request
• Includes (1) strap and hardware for both terminals
  - (2) 1/4" nuts, (2) lockwashers & (2) flat washers
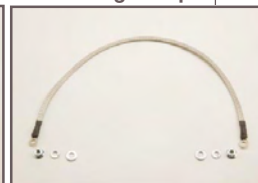
Isolation Pads

Part Number	Description
ISO-24	24"W Isolation Pads
ISO-29	29"W Isolation Pads

• Isolation pads are 3/16" thick insulating material
• Pads are 3"W x 24" or 29" long
• 2 pads per kit
• Holes in isolation pads align with anchoring
  holes in frame bottom

power

◼ Vertical Power Strips - 120V, 15 Amp - No Switch/No Breaker

Part Number	Length	Use on Frame Sizes	Receptacle Qty.	Receptacle Type	Cord Length	Plug Type
PW-3606-15-2-0	36"	20U - 45U	6	NEMA 5-15	9 ft.	5-15P
PW-6010-15-2-0	60"	35U - 45U	10	NEMA 5-15	9 ft.	
PW-7212-15-2-0	72"	45U	12	NEMA 5-15	9 ft.	
PW-3606-15-2-4	36"	20U - 45U	6	NEMA 5-15	9 ft.	L5-15P (Twistlock)
PW-6010-15-2-4	60"	35U - 45U	10	NEMA 5-15	9 ft.	
PW-7212-15-2-4	72"	45U	12	NEMA 5-15	9 ft.	
PW-3606-15-N-N	36"	20U - 45U	6	NEMA 5-15	9 ft.	3 Wire Lead No Cord
PW-6010-15-N-N	60"	35U - 45U	10	NEMA 5-15	9 ft.	
PW-7212-15-N-N	72"	45U	12	NEMA 5-15	9 ft.	

• Low profile design minimizes rack space interference
• Profile dimensions (WxD): 1.28" x 0.875" (does not include mounting brackets)
• Receptacles spaced on 6" centers – allows mounting of transformers
• Includes mounting clips, brackets and hardware for attachment to front-to-back members
• UL listed components

◼ Vertical Power Strips - 120V, 20 Amp - No Switch/No Breaker

Part Number	Length	Use on Frame Sizes	Receptacle Qty.	Receptacle Type	Cord Length	Plug Type
PW-3606-20-2-1	36"	20U - 45U	6	NEMA 5-15	9 ft.	5-20P
PW-6010-20-2-1	60"	35U - 45U	10	NEMA 5-15	9 ft.	
PW-7212-20-2-1	72"	45U	12	NEMA 5-15	9 ft.	
PW-3606-20-2-5	36"	20U - 45U	6	NEMA 5-15	9 ft.	L5-20P (Twistlock)
PW-6010-20-2-5	60"	35U - 45U	10	NEMA 5-15	9 ft.	
PW-7212-20-2-5	72"	45U	12	NEMA 5-15	9 ft.	
PW-3606-20-N-N	36"	20U - 45U	6	NEMA 5-15	9 ft.	3 Wire Lead No Cord
PW-6010-20-N-N	60"	35U - 45U	10	NEMA 5-15	9 ft.	
PW-7212-20-N-N	72"	45U	12	NEMA 5-15	9 ft.	

• Low profile design minimizes rack space interference
• Profile dimensions (WxD): 1.28" x 0.875" (does not include mounting brackets)
• Receptacles spaced on 6" centers – allows mounting of transformers
• Includes mounting clips and hardware for attachment to front-to-back members
• UL listed components

◼ Vertical Power Strips - 120V, 15 Amp - with Switch & Breaker

Part Number	Length	Use on Frame Sizes	Receptacle Qty.	Receptacle Type	Cord Length	Plug Type
PT-3612-15-4-0	36"	20U - 45U	12	NEMA 5-15	15 ft.	5-15P
PT-7224-15-4-0	72"	45U	24	NEMA 5-15	15 ft.	

• Low profile design minimizes rack space interference
• Profile dimensions (WxD): 1.5" x 1.5"
• 15 Amp breaker
• Rocker on/off switch with cover to prevent accidental shut-off
• Receptacle spacing: 36" long = 2.625"; 72" long = 2.875"
• Includes mounting clips and hardware for attachment to front-to-back members
• UL listed

◼ Vertical Power Strips - 120V, 20 Amp - with Switch & Breaker

Part Number	Length	Use on Frame Sizes	Receptacle Qty.	Receptacle Type	Cord Length	Plug Type
PT-7224-20-4-1	72"	45U	24	NEMA 5-15	15 ft.	5-20P
PT-7224-20-4-5	72"	45U	24	NEMA 5-15	15 ft.	L5-20P

• Low profile design minimizes rack space interference
• Profile dimensions (WxD): 1.5" x 1.5"
• 20 Amp breaker
• Rocker on/off switch with cover to prevent accidental shut-off
• Receptacle spacing 2.875"
• Includes mounting clips and hardware for attachment to front-to-back members
• UL listed components

## 19" Rack-mount Power Distribution Units - NEMA Receptacles

Part Number	Voltage	Amps	Height	Receptacle Qty.	Cord Length	Receptacle Type	Plug Type
PDU10N-15-0	125V	15	1U / 1.75"	10	15 ft.	NEMA 5-15	5-15P
PDU10N-20-5	125V	20	1U / 1.75"	10	15 ft.	NEMA 5-15	L5-20P (Twistlock)

- Universal mounting system allows 19" rack-mounting or vertical mounting on equipment angles
- 1U x 19" wide x 2" deep
- 15 ft. cord length
- Includes breaker
- Includes mounting hardware for attachment to EIA mounting angles
- CSA approved to UL60950 specification

19" Rack-mount Power Distribution Units - IEC Receptacles

Part Number	Voltage	Amps @120/240V	Height	Receptacle Qty.	Receptacle Type	Cord/Plug Type
PDU8-20	120/240V	20/16	1U / 1.75"	8	IEC C-13	Order Separate
PDU12-20	120/240V	20/16	1U / 1.75"	12	IEC C-13	Order Separate
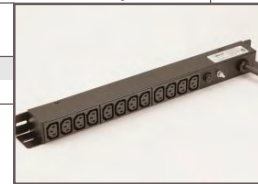
- Universal mounting system allows 19" rack-mounting or vertical mounting on equipment angles
- 1U x 19" wide x 2" deep
- Auto-sensing 110-240V based on input options
- Input power cord ordered separately
- Includes breaker
- Includes mounting hardware for attachment to EIA mounting angles
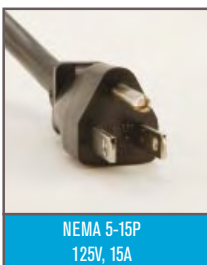- CSA approved to UL60950 specification

Power Cords for Power Distribution Units with IEC Receptacles

Part Number	Voltage	Cord Length	Plug Type
PDUC-15-L520	120V	15 ft.	L5-20P Twistlock
PDUC-15-L620	220V	15 ft.	L6-20P Twistlock

- Select appropriate cord based on required voltage output requirement of PDU
- IEC C-19 Plug end connects to 19" PDU's with IEC receptacles
- 12/3 SJT

outlet/plug guide

NEMA 5-15P	NEMA 5-20P	NEMA L5-15P	NEMA L5-20P	NEMA L6-30P
125V, 15A	125V, 20A	125V, 15A	125V, 20A	250V, 30A
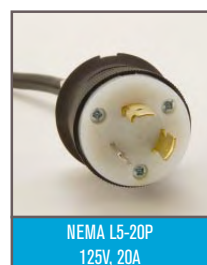
Multi-Bay Hardware Kit

- Bolts two frames together
- Special serrated head bolts and lock nuts

Part Number	Color	Description	Quantity
ER2-MBK	Silver	1/4-20 Serrated Bolts & Nuts	8 ea.

Lifting Eyes

- Attaches to Matrix Frames to allow overhead lifting
- Kit includes (4) 1/2 - 13 heavy-duty lifting eyes and (2) 12 GA (0.105") angles
- Angles run front to back on the interior of the frame
- Field retrofittable
- Lifting eyes straight pull working load limit = 2,600 lbs. each

Part Number	Description	Kit Quantity
LE-4-25-*	Lifting Eyes Hardware Kit and Angles, 25"D Frames	4 (Eyebolts)
LE-4-30-*	Lifting Eyes Hardware Kit and Angles, 30"D Frames	4 (Eyebolts)
LE-4-36-*	Lifting Eyes Hardware Kit and Angles, 36"D Frames	4 (Eyebolts)

*Specify color: "2" = Black; "3" = Charcoal; "4" = Slate; "5" = Flint Grey; "6" = Royal Blue; "8" = Beige; "9" = Platinum; "X" = Special - **See page 31 for finish selections.**

Anchoring Kit

- Kit includes (4ea.) 3/18 - 16 x 3" threaded rod, washers, nuts and expansion inserts
- Allows UBC compliant anchoring of loads up to 1,000 lbs on a concrete slab
- Anchors require pre-drilling of concrete slab

Part Number	Description	Kit Quantity
AK-C-375	Anchor Hardware Kit and Angles	4 (Anchors)

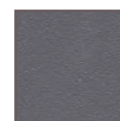## COLOR/FINISH SELECTIONS

2 = Black

3 = Charcoal

4 = Slate

5 = Flint Grey

6 = Royal Blue

8 = Beige

9 = Platinum

X = Special

index/color selections
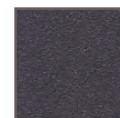
Finishes are textured powder coats. Colors shown are representative. Color swatches are available upon request.

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