SAGINAW CONTROL & ENGINEERING

Bid Specification

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MANUFACTURER CAPABILITIES

1. Highly critical equipment is mounted into an enclosure to protect it from the elements. It is important that the equipment be protected adequately, therefore it is important that the enclosure and its accessories be manufactured to the highest standards. The manufacturer of this equipment must be ISO 9001 Certified.
2. To maintain consistency in equipment mounting, all enclosures to be manufactured and assembled in the United States of America.
3. The manufacturer must be able to meet the demand of the product ordered.
4. The manufacturer shall have the ability to customize enclosure to application needs.
5. The manufacturer must be RoHS compliant.
6. All goods manufactured by SCE shall be warranted to be free of defects in material or workmanship for a period of two years from the date of shipment.

PRODUCTS

Mild STEEL ENCLOSURES

Operator System Enclosures

ELJ Consolet

This enclosure shall:
1. Be constructed of high quality 16 gauge steel
2. Be available in ANSI 61 gray powder coat finish
3. Have seams that are continuously welded and ground smooth
4. Have a removable door hinge
5. Have an oil resistant gasket that meets type 4 and 12 rating requirements
6. Have flange trough collar around all sides of door opening
7. Include standoffs for mounting optional sub-panels
8. Have mini quarter turn latches
9. Have mounting holes in back of enclosure
10. Have optional mounting pedestals
11. Have optional locking provisions
12. Have ground studs on door and body
13. Have the ability to add cut-outs and change paint color
14. Be available in sizes ranging from 8" x 8" x 7" to 20" x 30" x 13"
15. Be approved by UL for type 4 and 12 rating

Series 9 Console

This enclosure shall:
1. Be constructed of high quality 14 gauge steel
2. Be available in ANSI 61 gray powder coat finish
3. Have seams that are continuously welded and ground smooth
4. Have a removable door hinge
5. Have an oil resistant gasket that meets type 12 rating requirements
6. Have flange trough collar around all sides of door opening
7. Include collar studs for mounting optional sub-panels on back and sides
8. Have keylocking/padlocking handle and 3-point latching mechanism
9. Have sloping control panel door that opens to 90°
10. Have optional locking provisions
11. Have ground studs on door and body
12. Have heavy duty lifting eyes for easy handling
13. Have the ability to add cut-outs and change paint color
14. Be approved by UL for type 12 rating

Series 14 Console

This enclosure shall:
1. Be constructed of high quality 12 gauge steel
2. Be available in ANSI 61 gray powder coat finish
3. Be available in single and two-door
4. Have dual access with doors on front and rear of enclosure
5. Have seams that are continuously welded and ground smooth
6. Have a removable door hinge
7. Have an oil resistant gasket that meets type 12 rating requirements
8. Have flange trough collar around all sides of door opening
9. Have horizontal channels welded to sides for mounting optional equipment
10. Have flush mounted doors
11. Have optional writing desk and top section available
12. Have keylocking/padlocking handles and 3-point latching mechanisms
13. Have sloping control panel door with concealed hinge on bottom edge that opens to 90°
14. Have optional locking provisions
15. Have ground studs on door and body
16. Have heavy duty lifting eyes for easy handling
17. Have the ability to add cut-outs and change paint color
18. Be approved by UL for type 12 rating

Desk Console

This enclosure shall:
1. Be constructed of high quality 14 gauge steel
2. Be available in ANSI 61 gray powder coat finish
3. Be available in single and two-door
4. Be available with single and dual access
5. Have seams that are continuously welded and ground smooth
6. Have doors with concealed hinges
7. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
8. Have rubber pad with provision for leveling pads on bottom of enclosure
9. Have an oil resistant gasket that meets type 4 and 12 rating requirements
10. Have flange trough collar around all sides of door opening
11. Have mounting studs welded on interior back for mounting optional panels on single access console
12. Have mounting channels welded on interior sides for mounting optional panels on dual access console
13. Have quarter turn latches on top door
14. Have keylocking 3-point flush swing handles on front and rear doors
15. Have 25° sloped top with door stops to hold in open position
16. Have optional locking provisions
17. Have ground studs on door and body
18. Have the ability to add cut-outs and change paint color
19. Be approved by UL for type 4 and 12 rating

Work Station

This enclosure shall:
1. Be constructed of high quality 14 gauge steel
2. Be available in RAL 7035 gray powder coat finish
3. Have seams that are continuously welded and ground smooth
4. Have doors with concealed hinges
5. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal

6. Have large polycarbonate viewing window in top door
7. Have rubber pad with provision for leveling pads on bottom of enclosure
8. Have an oil resistant gasket that meets type 12 rating requirements
9. Have flange trough collar around all sides of door opening
10. Have mounting channels welded on sides of interior body for mounting optional sub-panels, racks, mounting angles and shelves
11. Have quarter turn latches on top door
12. Have keyboard door with quarter turn wing knob latches
13. Have pullout keyboard shelf with attached self-storing mouse shelf
14. Have keylocking 3-point flush swing handles on lower front and rear doors
15. Have gland plate on lower back of enclosure
16. Have optional locking provisions
17. Have ground studs on door and body
18. Have heavy duty lifting eyes for easy handling
19. Have the ability to add cut-outs and change paint color
20. Be approved by UL for type 12 rating

Pedestal/Desktop Work Station

This enclosure shall:
1. Be constructed of high quality 14 gauge steel
2. Be available in RAL 7035 gray powder coat finish
3. Have seams that are continuously welded and ground smooth
4. Have doors with concealed hinges
5. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
6. Have large polycarbonate viewing window in top door
7. Have rubber pad with provision for leveling pads on bottom of enclosure
8. Have an oil resistant gasket that meets type 12 rating requirements
9. Have flange trough collar around all sides of door opening
10. Have mounting channels welded on sides of interior body for mounting optional sub-panels, racks, mounting angles and shelves
11. Have quarter turn latches on top door
12. Have keyboard door with quarter turn wing knob latches
13. Have pullout keyboard shelf with attached self-storing mouse shelf
14. Have gland plate on lower back of enclosure
15. Have optional locking provisions
16. Have ground studs on door and body
17. Have heavy duty lifting eyes for easy handling
18. Have the ability to add cut-outs and change paint color
19. Be approved by UL for type 12 rating

Slope Top Work Station

This enclosure shall:
1. Be constructed of high quality 14 gauge steel
2. Be available in white powder coat finish
3. Have seams that are continuously welded and ground smooth
4. Have doors with concealed hinges
5. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
6. Have large polycarbonate viewing window in top door
7. Have rubber pad with provision for leveling pads on bottom of enclosure
8. Have an oil resistant gasket that meets type 12 rating requirements
9. Have flange trough collar around all sides of door opening

10. Have mounting channels welded on sides of interior body for mounting optional sub-panels, racks, mounting angles and shelves
11. Have provisions for monitor mounting system
12. Have 15° sloped top and 12.5° sloped keyboard desk
13. Have pencil palm rest
14. Have quarter turn latches on top door
15. Have keyboard door with quarter turn wing knob latches
16. Have pullout keyboard shelf with attached self-storing mouse shelf
17. Have keylocking 3-point flush swing handles on lower front and rear doors
18. Have gland plate on lower back of enclosure
19. Have optional locking provisions
20. Have ground studs on door and body
21. Have heavy duty lifting eyes for easy handling
22. Have the ability to add cut-outs and change paint color
23. Be approved by UL for type 12 rating

Junction Enclosures

Enviroline® Series Junction (ELJ)

This enclosure shall:
1. Be constructed of high quality 16 gauge steel
2. Be available in ANSI 61 gray powder coat finish
3. Have seams that are continuously welded and ground smooth
4. Have a removable door hinge
5. Have an oil resistant gasket that meets type 4 and 12 rating requirements
6. Have flange trough collar around all sides of door opening
7. Include standoffs for mounting optional sub-panels
8. Have optional polycarbonate viewing window
9. Have door that opens 180°
10. Have mini quarter turn latches
11. Have mounting holes in back of enclosure with mounting feet included
12. Have the ability to mount cooling options to the wall of the enclosure
13. Have optional locking provisions
14. Have ground studs on door and body
15. Have the ability to add cut-outs and change paint color
16. Be available in sizes ranging from 6" x 4" x 4" to 20" x 20" x 10"
17. Be approved by UL for type 4 and 12 rating

Continuous Hinge Clamp Fastened

This enclosure shall:
1. Be constructed of high quality 16 gauge steel
2. Be available in ANSI 61 gray powder coat finish
3. Have seams that are continuously welded and ground smooth
4. Have a continuous door hinge with stainless steel pin
5. Have an oil resistant gasket that meets type 4 and 12 rating requirements
6. Have flange trough collar around all sides of door opening
7. Include standoffs for mounting optional sub-panels
8. Have external screw clamps that are quick and easy to use
9. Have mounting straps on back of enclosure
10. Have the ability to mount cooling options to the wall of the enclosure
11. Have optional locking provisions
12. Have ground studs on door and body
13. Have the ability to add cut-outs and change paint color
14. Be available in sizes ranging from 4" x 4" x 3" to 16" x 14" x 10"
15. Be approved by UL for type 4 and 12 rating

Screw Cover Junction

This enclosure shall:
1. Be constructed of high quality 16 gauge steel
2. Be available in ANSI 61 gray powder coat finish
3. Have seams that are continuously welded and ground smooth
4. Have an oil resistant gasket that meets type 4 and 12 rating requirements
5. Have flange trough collar around all sides of door opening
6. Include standoffs for mounting optional sub-panels
7. Have captive screws securing cover to body
8. Have mounting straps on back of enclosure
9. Have the ability to mount cooling options to the wall of the enclosure
10. Have the ability to add cut-outs and change paint color
11. Have ground studs on door and body
12. Be available in sizes ranging from 4" x 4" x 3" to 16" x 14" x 6"
13. Be approved by UL for type 4 and 12 rating

Screw Cover Type 3R

This enclosure shall:
1. Be constructed of high quality 16 or 18 gauge galvannealed steel
2. Be available in ANSI 61 gray powder coat finish
3. Have slip on removable screw cover
4. Have padlocking provisions
5. Have a rain cap
6. Have the ability to add cut-outs and change paint color
7. Have mounting holes in back of enclosure
8. Have ground studs on door and body
9. Have the ability to mount thermal management products
10. Be available in sizes ranging from 4" x 4" x 4" to 12" x 12" x 6"
11. Be approved by UL for type 3R

Wall-Mount Enclosures

Enviroline® Series Single-Door

This enclosure shall:
1. Be constructed of high quality 14 gauge steel
2. Have seams continuously welded and ground smooth
3. Be available in ANSI 61 gray powder coat
4. Have door that opens 180°
5. Have a door with concealed hinges
6. Have a door secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
7. Have door secured with flush quarter-turn latch(s)
8. Have optional locking provisions
9. Have the ability to add cut-outs and change paint color
10. Have oil resistant gasket that meets type 4 and 12 rating requirements
11. Have flange trough collar around all sides of door opening
12. Have collar studs for mounting optional sub-panels
13. Have mounting holes in back of enclosure
14. Have easily removable and interchangeable doors
15. Have ground studs on door and body
16. Have the ability to mount thermal management products
17. Have the ability to add front swing-out or dead front panel
18. Be available in sizes ranging from 12" x 12" x 6" to 72" x 36" x 16"
19. Be approved by UL for type 4 and 12 rating

Enviroline® Series Single-Door w/ 3-Point Hardware

This enclosure shall:
1. Be constructed of high quality 14 gauge steel
2. Have seams continuously welded and ground smooth
3. Be available in ANSI 61 gray powder coat
4. Have door that opens 180°
5. Have a door with concealed hinges
6. Have a door secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
7. Have a keylocking/padlocking handle and 3-point latching mechanism
8. Have optional locking provisions
9. Have the ability to add cut-outs and change paint color
10. Have oil resistant gasket that meets type 4 and 12 rating requirements
11. Have flange trough collar around all sides of door opening
12. Have collar studs for mounting optional sub-panels
13. Have mounting holes in back of enclosure
14. Have easily removable and interchangeable doors
15. Have ground studs on door and body
16. Have the ability to mount thermal management products
17. Have the ability to add front swing-out or dead front panel
18. Be available in sizes ranging from 24" x 20" x 10" to 72" x 36" x 24"
19. Be approved by UL for type 4 and 12 rating

Clamp Fastened Single-Door

This enclosure shall:
1. Be constructed of high quality 14 gauge steel
2. Have seams continuously welded and ground smooth
3. Have padlocking capability with hasp and staple
4. Have collar studs for mounting optional sub-panels
5. Have oil resistant gasket that meets type 4 and 12 rating requirements
6. Have flange trough collar around all sides of door opening
7. Have easy to use door clamps for quick access
8. Have a door with concealed hinges
9. Have a door secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
10. Have mounting tabs on back of enclosure
11. Be available in ANSI 61 gray powder coat finish
12. Be available in sizes ranging from 12" x 24" x 6" to 72" x 36" x 16"
13. Have the ability to add cut-outs and change paint color
14. Have the ability to mount thermal management products
15. Have the ability to add front swing-out or dead front panel
16. Be approved by UL for type 4 and 12 rating

Hinged Cover Type 3R

This enclosure shall:
1. Be constructed of high quality 14, 16 or 18 gauge galvannealed steel
2. Be available in ANSI 61 gray powder coat finish
3. Have a door with concealed hinges
4. Have a door secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
5. Have doors secured with quarter-turn latches with padlocking provisions
6. Have optional locking provisions
7. Have a rain cap
8. Have the ability to add cut-outs and change paint color
9. Have oil resistant gasket that meets type 3R rating requirements

10. Have collar studs for mounting optional sub-panels
11. Have mounting holes in back of enclosure
12. Have easily removable and interchangeable doors
13. Have ground studs on door and body
14. Have the ability to mount thermal management products
15. Have the ability to add front swing-out or dead front panel
16. Be available in sizes ranging from 12" x 12" x 6" to 42" x 30" x 16"
17. Be approved by UL for type 3R

Vented Type 3R

This enclosure shall:
1. Be constructed of high quality 14 gauge galvannealed steel
2. Be available in white powder coat finish
3. Have a door with concealed hinges
4. Have a door secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
5. Have doors secured with flush quarter-turn latches and padlock wing knob
6. Have optional locking provisions
7. Have the ability to add cut-outs and change paint color
8. Have oil resistant gasket that meets type 3R rating requirements
9. Have collar studs for mounting optional sub-panels
10. Have mounting holes in back of enclosure
11. Have easily removable and interchangeable doors
12. Have vented top hood with bug screen
13. Have vented rain hood with filter kits in door
14. Include 115 volt fan
15. Have din rail mounting provisions on inside top for installation of thermostats and terminals
16. Have ground studs on door and body
17. Have the ability to mount thermal management products
18. Have the ability to add front swing-out or dead front panel
19. Be available in sizes ranging from 29" x 24" x 12" to 65" x 36" x 16"
20. Be approved by UL for type 3R

Enviroline® Series Two-Door

This enclosure shall:
1. Be constructed of high quality 14 gauge steel
2. Have oil resistant gasket that meets type 3R, 4 and 12 rating requirements
3. Have flange trough collar around all sides of door opening
4. Have keylocking/padlocking handles and 3-point latching mechanisms
5. Have a door with concealed hinges
6. Have a door secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
7. Have collar studs for mounting optional sub-panels
8. Have removable center post for easy installation of sub-panel
9. Have mounting holes in back of enclosure
10. Be available in ANSI 61 gray powder coat finish
11. Have the ability to add cut-outs and change paint color
12. Have the ability to mount thermal management products
13. Be available in sizes ranging from 24" x 42" x 10" to 48" x 48" x 12" and 42" x 60" x 12"
14. Be approved by UL for a type 3R, 4 or 12 rating

Overlapping Two-Door

This enclosure shall:
1. Be constructed of high quality 14 gauge steel

2. Have gasketed overlapping doors, eliminating the need for a center post
3. Have a keylocking/padlocking handle and 3-point latching mechanism
4. Have a door with concealed hinges
5. Have a door secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
6. Have collar studs for mounting optional sub-panels
7. Be available in ANSI 61 gray powder coat finish
8. Have the ability to add cut-outs and change paint color
9. Have the ability to mount thermal management products
10. Be available in sizes ranging from 24" x 42" x 8" to 48" x 48" x 16" and 42" x 60" x 12-16"
11. Be approved by UL for a type 3R or 12 rating

Wall-Mount Disconnect Enclosures

Enviroline® Series Single-Door for Flange-Mounted Disconnects

This enclosure shall:
1. Be constructed of high quality 14 gauge steel
2. Have seams continuously welded and ground smooth
3. Be available in ANSI 61 gray powder coat
4. Have mounting holes in back of enclosure
5. Have disconnect cutout provided on flange
6. Have a door with concealed hinges
7. Have a door secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
8. Have optional locking provisions
9. Have the ability to add cut-outs and change paint color
10. Have oil resistant gasket that meets type 3R, 4 and 12 rating requirements
11. Have flange trough collar around all sides of door opening
12. Have collar studs for mounting optional sub-panels
13. Have a coin-proof padlocking handle and 3-point latching mechanism
14. Have easily removable and interchangeable doors
15. Have ground studs on door and body
16. Have the ability to mount thermal management products
17. Have the ability to add front swing-out or dead front panel
18. Be available in sizes ranging from 20" x 21.38" x 8" to 60" x 37.38" x 16"
19. Be approved by UL for a type 3R, 4 or 12 rating

Single-Door for Flange-Mounted Disconnects

This enclosure shall:
1. Be constructed of high quality 14 gauge steel
2. Have seams continuously welded and ground smooth
3. Be available in ANSI 61 gray powder coat
4. Have mounting tabs on back of enclosure
5. Have disconnect cutout provided on flange
6. Have a door with concealed hinges
7. Have a door secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
8. Have optional locking provisions
9. Have the ability to add cut-outs and change paint color
10. Have oil resistant gasket that meets type 12 rating requirements
11. Have flange trough collar around all sides of door opening
12. Have collar studs for mounting optional sub-panels
13. Have a coin-proof padlocking handle and 3-point latching mechanism
14. Have easily removable and interchangeable doors
15. Have ground studs on door and body
16. Have the ability to mount thermal management products

17. Have the ability to add front swing-out or dead front panel
18. Be available in sizes ranging from 20" x 21.38" x 8" to 60" x 37.38" x 16
19. Be approved by UL for type 12 rating

Clamp Fastened Single-Door for Flange-Mounted Disconnects

This enclosure shall:
1. Be constructed of high quality 14 gauge steel
2. Have seams continuously welded and ground smooth
3. Have padlocking capability with hasp and staple
4. Have collar studs for mounting optional sub-panels
5. Have disconnect cutout provided on flange
6. Have oil resistant gasket that meets type 4 or 12 rating requirements
7. Have flange trough collar around all sides of door opening
8. Have easy to use door clamps for quick access
9. Have mounting tabs on back of enclosure
10. Have a door with concealed hinges
11. Have a door secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
12. Be available in ANSI 61 gray powder coat finish
13. Have the ability to add cut-outs and change paint color
14. Have the ability to mount thermal management products
15. Have the ability to add front swing-out or dead front panel
16. Be available in sizes ranging from 24" x 21.38" x 8" to 60" x 37.38" x 12"
17. Be approved by UL for type 12 and type 4 rating

Vented Type 3R for Flange-Mounted Disconnects

This enclosure shall:
1. Be constructed of high quality 14 gauge galvannealed steel
2. Be available in white powder coat
3. Have a door with concealed hinges
4. Have a door secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
5. Have a coin-proof padlocking handle and 3-point latching mechanism
6. Have optional locking provisions
7. Have disconnect cutout provided on flange
8. Have the ability to add cut-outs and change paint color
9. Have oil resistant gasket that meets type 3R rating requirements
10. Have collar studs for mounting optional sub-panels
11. Have mounting holes in back of enclosure
12. Have easily removable and interchangeable doors
13. Have vented top hood with bug screen
14. Have vented rain hood with filter kits in door
15. Include 115 volt fan
16. Have din rail mounting provisions on inside top for installation of thermostats and terminals
17. Have ground studs on door and body
18. Have the ability to mount thermal management products
19. Have the ability to add front swing-out or dead front panel
20. Be approved by UL for type 3R

Free-Standing Enclosures

Enviroline® Series Two-Door

This enclosure shall:
1. Be constructed of high quality 12 gauge steel

2. Have seems continuously welded and ground smooth
3. Have oil resistant gasket that meets type 3R, 4 and 12 rating requirements
4. Have flange trough collar around all sides of door opening
5. Have removable center post
6. Have keylocking/padlocking handles and 3-point latching mechanisms
7. Have doors with concealed hinges
8. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
9. Have collar studs for mounting optional sub-panels
10. Be available in ANSI 61 gray powder coat finish
11. Have the ability to add cut-outs and change paint color
12. Have the ability to mount thermal management products
13. Have removable print pocket on interior of main door
14. Have removable 12" high floor stands
15. Have panel support angles to assist panel installation
16. Have heavy-duty lifting eyes for easy handling
17. Have ground studs on door and body
18. Have a provisions inside top for mounting a light kit
19. Be approved by UL for a type 3R, 4 or 12 rating

Overlapping Two-Door

This enclosure shall:
1. Be constructed of high quality 12 gauge steel
2. Have seems continuously welded and ground smooth
3. Have oil resistant gasket that meets type 3R and 12 rating requirements
4. Have gasketed overlapping doors, eliminating the need for a center post
5. Have a keylocking/padlocking handle and 3-point latching mechanism
6. Have doors with concealed hinges
7. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
8. Have collar studs for mounting optional sub-panels
9. Be available in ANSI 61 gray powder coat finish
10. Have the ability to add cut-outs and change paint color
11. Have the ability to mount thermal management products
12. Have removable print pocket on interior of main door
13. Have removable 12" high floor stands
14. Have panel support angles to assist panel installation
15. Have heavy-duty lifting eyes for easy handling
16. Have ground studs on door and body
17. Have a provisions inside top for mounting a light kit
18. Be approved by UL for a type 3R or 12 rating

Free-Standing Single-Door with Single and Dual Access

This enclosure shall:
1. Be constructed of high quality 12 gauge steel
2. Have seems continuously welded and ground smooth
3. Be available with single or dual access
4. Have oil resistant gasket that meets type 3R, 4 and 12 rating requirements
5. Have flange trough collar around all sides of door opening
6. Have a keylocking/padlocking handle and 3-point latching mechanism
7. Have doors with concealed hinges
8. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
9. Have mounting channels welded horizontally on sides of interior body at top, bottom, and middle for mounting optional panels or rack mounting angles

10. Be available in ANSI 61 gray powder coat finish
11. Have the ability to add cut-outs and change paint color
12. Have the ability to mount thermal management products
13. Have removable print pocket on interior of door
14. Have heavy-duty lifting eyes for easy handling
15. Have ground studs on door and body
16. Have a provisions inside top for mounting a light kit
17. Be approved by UL for a type 3R, 4 or 12 rating

Free-Standing Two-Door with Single and Dual Access

This enclosure shall:
1. Be constructed of high quality 12 gauge steel
2. Have seems continuously welded and ground smooth
3. Be available with single or dual access
4. Have oil resistant gasket that meets type 3R and 12 rating requirements
5. Have flange trough collar around all sides of door opening
6. Have gasketed overlapping doors, eliminating the need for a center post
7. Have a keylocking/padlocking handle and 3-point latching mechanism
8. Have doors with concealed hinges
9. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
10. Have mounting channels welded horizontally on sides of interior body at top, bottom, and middle for mounting optional panels or rack mounting angles
11. Be available in ANSI 61 gray powder coat finish
12. Have the ability to add cut-outs and change paint color
13. Have the ability to mount thermal management products
14. Have removable print pocket on interior of main door
15. Have heavy-duty lifting eyes for easy handling
16. Have ground studs on door and body
17. Have a provisions inside top for mounting a light kit
18. Be approved by UL for a type 3R or 12 rating

Enviroline® Series Free-Standing Two-Door Single Access

This enclosure shall:
1. Be constructed of high quality 12 gauge steel
2. Have seems continuously welded and ground smooth
3. Have oil resistant gasket that meets type 3R, 4 and 12 rating requirements
4. Have flange trough collar around all sides of door opening
5. Have removable center post
6. Have a keylocking/padlocking handle and 3-point latching mechanism
7. Have doors with concealed hinges
8. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
9. Have mounting channels welded horizontally on sides of interior body at top, bottom, and middle for mounting optional panels or rack mounting angles
10. Be available in ANSI 61 gray powder coat finish
11. Have the ability to add cut-outs and change paint color
12. Have the ability to mount thermal management products
13. Have removable print pocket on interior of door
14. Have heavy-duty lifting eyes for easy handling
15. Have ground studs on door and body
16. Have a provisions inside top for mounting a light kit
17. Be approved by UL for a type 3R, 4 or 12 rating

Multi-Door

This enclosure shall:
1. Be constructed of high quality 11 gauge steel
2. Have seems continuously welded and ground smooth
3. Have heavy-duty lifting eyes for easy handling
4. Have a padlocking handle and 3-point latching mechanism
5. Have doors with concealed hinges
6. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
7. Have steel stiffeners welded to back inside of enclosure for extra rigidity
8. Have collar studs for mounting optional sub-panels
9. Have oil resistant gasket that meets type 3R and 12 rating requirements
10. Have flange trough collar around all sides of door opening
11. Have panel support angles to assist panel installation
12. Be available in ANSI 61 gray powder coat finish
13. Have the ability to add cut-outs and change paint color
14. Have the ability to mount thermal management products
15. Have removable print pocket on interior of main door
16. Have ground studs on door and body
17. Have a provisions inside top for mounting a light kit
18. Be approved by UL for a type 3R or 12 rating

Free-Standing Disconnect Enclosures

Multi-Door Free-Standing/Wall-Mount for Flange-Mounted Disconnects

This enclosure shall:
1. Be constructed of high quality 12 gauge steel
2. Have seems continuously welded and ground smooth
3. Have heavy-duty lifting eyes for easy handling
4. Have removable center post for easy sub-panel installation
5. Have a coin-proof padlocking handle on main door and padlocking handles on slave doors with 3-point latching mechanisms
6. Have doors with concealed hinges
7. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
8. Have collar studs for mounting optional sub-panels
9. Have oil resistant gasket that meets type 3R and 12 rating requirements
10. Have flange trough collar around all sides of door opening
11. Have a defeater on master door
12. Have panel support angles to assist panel installation
13. Be available in ANSI 61 gray powder coat finish
14. Have the ability to add cut-outs and change paint color
15. Have the ability to mount thermal management products
16. Have removable print pocket on interior of door
17. Have provisions for optional wall mounting bracket kit
18. Have ground studs on door and body
19. Have a provisions inside top for mounting a light kit
20. Be approved by UL for a type 3R or 12 rating

Two-Door for Flange-Mounted Disconnects

This enclosure shall:
1. Be constructed of high quality 12 gauge steel
2. Have seems continuously welded and ground smooth
3. Have heavy-duty lifting eyes for easy handling
4. Have removable center post for easy sub-panel installation

5. Have a coin-proof padlocking handle on main door and padlocking handle on slave door with 3-point latching mechanism
6. Have doors with concealed hinges
7. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
8. Have collar studs for mounting optional sub-panels
9. Have oil resistant gasket that meets type 3R, 4 and 12 rating requirements
10. Have flange trough collar around all sides of door opening
11. Have a mechanical interlock
12. Have panel support angles to assist panel installation
13. Be available in ANSI 61 gray powder coat finish
14. Have removable 15" high floor stands
15. Have the ability to add cut-outs and change paint color
16. Have the ability to mount thermal management products
17. Have removable print pocket on interior of door
18. Have ground studs on door and body
19. Have a provisions inside top for mounting a light kit
20. Be approved by UL for a type 3R, 4 or 12 rating

Heavy Duty for Flange-Mounted Disconnects

This enclosure shall:
1. Be constructed of high quality 11 gauge steel
2. Be available in single, two, three, four, five and six-door
3. Have seems continuously welded and ground smooth
4. Have heavy-duty lifting eyes for easy handling
5. Have removable center post for easy sub-panel installation
6. Have a coin-proof padlocking handle on main door and padlocking handles on slave doors with 3-point latching mechanism
7. Have doors with concealed hinges
8. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
9. Have removable sub-panels mounted on collar studs
10. Have defeater on main door
11. Have oil resistant gasket that meets type 3R, 4 and 12 rating requirements
12. Have flange trough collar around all sides of door opening
13. Have a mechanical interlock that when activated by master door prevents slave doors from being opened first
14. Have panel support angles to assist panel installation
15. Be available in ANSI 61 gray powder coat finish
16. Have the ability to add cut-outs and change paint color
17. Have the ability to mount thermal management products
18. Have removable print pocket on interior of door
19. Have ground studs on door and body
20. Have a provisions inside top for mounting a light kit
21. Be approved by UL for a type 3R, 4 or 12 rating

Heavy Duty with External Disconnect Enclosure installed

This enclosure shall:
1. Be constructed of high quality 11 gauge steel
2. Be available in single, two and three-door
3. Have seems continuously welded and ground smooth
4. Have heavy-duty lifting eyes for easy handling
5. Have removable center post for easy sub-panel installation
6. Have padlocking handles with 3-point latching mechanisms
7. Have doors with concealed hinges

8. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
9. Have removable sub-panels mounted on collar studs
10. Have defeater on main door
11. Have oil resistant gasket that meets type 3R, 4 and 12 rating requirements
12. Have flange trough collar around all sides of door opening
13. Have a mechanical interlock that when activated by the external disconnect prevents main door of the enclosure from being closed unless the EXD enclosure is first closed
14. Have a mechanical interlock that when activated by master door prevents slave doors from being opened first.
15. Have panel support angles to assist panel installation
16. Be available in ANSI 61 gray powder coat finish
17. Have the ability to add cut-outs and change paint color
18. Have the ability to mount thermal management products
19. Have removable print pocket on interior of door
20. Have ground studs on door and body
21. Have a provisions inside top for mounting a light kit
22. Be approved by UL for a type 3R, 4 or 12 rating

Modular Enclosures

Modular for Flange-Mounted Disconnects

This enclosure shall:
1. Be constructed of high quality 11 gauge steel
2. Be available in single and two-door
3. Have left side open
4. Have seems continuously welded and ground smooth
5. Have heavy-duty lifting eyes for easy handling
6. Have removable center post for easy sub-panel installation
7. Have a coin-proof padlocking handle on main door and padlocking handle on slave door with 3-point latching mechanism
8. Have doors with concealed hinges
9. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
10. Have removable sub-panels mounted on collar studs
11. Have oil resistant gasket that meets type 12 rating requirements
12. Have flange trough collar around all sides of door opening
13. Have a defeater on master door
14. Have panel support angles to assist panel installation
15. Have mechanical interlock and parts required to connect interlock system between adjacent enclosures
16. Be available in ANSI 61 gray powder coat finish
17. Have the ability to add cut-outs and change paint color
18. Have the ability to mount thermal management products
19. Have removable print pocket on interior of door
20. Have ground studs on door and body
21. Have a provisions inside top for mounting a light kit
22. Be approved by UL for a type 12 rating

Modular Slave

This enclosure shall:
1. Be constructed of high quality 11 gauge steel
2. Be available in single and two-door
3. Have both right and left sides open
4. Have seems continuously welded and ground smooth
5. Have heavy-duty lifting eyes for easy handling

6. Have removable center post for easy sub-panel installation
7. Have padlocking handles with 3-point latching mechanisms
8. Have doors with concealed hinges
9. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
10. Have removable sub-panels mounted on collar studs
11. Have oil resistant gasket that meets type 12 rating requirements
12. Have flange trough collar around all sides of door opening
13. Have a defeater on master door
14. Have panel support angles to assist panel installation
15. Have mechanical interlock and parts required to connect interlock system between adjacent enclosures
16. Be available in ANSI 61 gray powder coat finish
17. Have the ability to add cut-outs and change paint color
18. Have the ability to mount thermal management products
19. Have removable print pocket on interior of door
20. Have ground studs on door and body
21. Have a provisions inside top for mounting a light kit
22. Be approved by UL for a type 12 rating

Industrial Modular System (IMS)

This enclosure shall:
1. Be constructed of high quality 12 gauge steel
2. Be available in single and two-door
3. Have both right and left sides open
4. Have seems continuously welded and ground smooth
5. Have heavy-duty lifting eyes for easy handling
6. Have mounting holes in bottom of enclosure for installing plinth base or securing to the floor
7. Have padlocking handles with 3-point latching mechanism
8. Have doors with concealed hinges
9. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
10. Have mounting channels provided in top and bottom of enclosure
11. Have oil resistant gasket that meets type 12 rating requirements
12. Have flange trough collar around all sides of door opening
13. Have provisions for mechanical interlock system expansion
14. Be available in white powder coat finish
15. Have the ability to add cut-outs and change paint color
16. Have the ability to mount thermal management products
17. Have ground studs on door and body
18. Have removable print pocket on interior of main door
19. Be approved by UL for a type 12 rating

Industrial Modular System (IMS) for Flange-Mounted Disconnects

This enclosure shall:
1. Be constructed of high quality 12 gauge steel
2. Be available in single and two-door
3. Have both right and left sides open
4. Have seems continuously welded and ground smooth
5. Have heavy-duty lifting eyes for easy handling
6. Have mounting holes in bottom of enclosure for installing plinth base or securing to the floor
7. Have coin-proof padlocking handle on main door and padlocking handles on all other doors with 3-point latching mechanisms

8. Have doors with concealed hinges
9. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
10. Have mounting channels provided in top and bottom of enclosure
11. Have oil resistant gasket that meets type 12 rating requirements
12. Have provisions for mechanical interlock system expansion
13. Have mechanical interlock and parts required to connect interlock system between adjacent enclosures
14. Be available in white gray powder coat finish
15. Have the ability to add cut-outs and change paint color
16. Have the ability to mount thermal management products
17. Have ground studs on door and body
18. Have removable print pocket on interior of main door
19. Be approved by UL for a type 12 rating

Stainless Steel Enclosures

Operator System Enclosures

ELJ Consolet

This enclosure shall:
1. Be constructed of high quality 16 gauge stainless steel type 304
2. Have #4 brush finish on all exterior surfaces
3. Have seams that are continuously welded and ground smooth
4. Have a removable door hinge
5. Have an oil resistant gasket that meets type 4, 4X and 12 rating requirements
6. Have flange trough collar around all sides of door opening
7. Include standoffs for mounting optional sub-panels
8. Have mini quarter turn latches
9. Have mounting holes in back of enclosure
10. Have optional mounting pedestals
11. Have optional locking provisions
12. Have ground studs on door and body
13. Have the ability to add cut-outs and change paint color
14. Be available in sizes ranging from 8" x 8" x 7" to 20" x 30" x 13"
15. Be approved by UL for type 4, 4X and type 12 rating

Desk Console

This enclosure shall:
1. Be constructed of high quality 14 gauge stainless steel type 304 or 316/316L
2. Have #4 brush finish on all exterior surfaces
3. Be available in single and two-door
4. Be available with single and dual access
5. Have seams that are continuously welded and ground smooth
6. Have doors with concealed hinges
7. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
8. Have rubber pad with provision for leveling pads on bottom of enclosure
9. Have an oil resistant gasket that meets type 4, 4X and 12 rating requirements
10. Have flange trough collar around all sides of door opening
11. Have mounting studs welded on interior back for mounting optional panels on single access console

12. Have mounting channels welded on interior sides for mounting optional panels on dual access console
13. Have quarter turn latches on top door
14. Have keylocking 3-point flush swing handles on front and rear doors
15. Have 25° sloped top with door stops to hold in open position
16. Have optional locking provisions
17. Have ground studs on door and body
18. Have the ability to add cut-outs and change paint color
19. Be approved by UL for type 4, 4X and 12 rating

Work Station

This enclosure shall:
1. Be constructed of high quality 14 gauge stainless steel type 304
2. Have #4 brush finish on all exterior surfaces
3. Have seams that are continuously welded and ground smooth
4. Have doors with concealed hinges
5. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
6. Have large polycarbonate viewing window in top door
7. Have rubber pad with provision for leveling pads on bottom of enclosure
8. Have an oil resistant gasket that meets type 12 rating requirements
9. Have flange trough collar around all sides of door opening
10. Have mounting channels welded on sides of interior body for mounting optional sub-panels, racks, mounting angles and shelves
11. Have quarter turn latches on top door
12. Have keyboard door with quarter turn wing knob latches
13. Have pullout keyboard shelf with attached self-storing mouse shelf
14. Have keylocking 3-point flush swing handles on lower front and rear doors
15. Have gland plate on lower back of enclosure
16. Have optional locking provisions
17. Have ground studs on door and body
18. Have heavy duty lifting eyes for easy handling
19. Have the ability to add cut-outs and change paint color
20. Be approved by UL for type 12 rating

Pedestal/Desktop Work Station

This enclosure shall:
1. Be constructed of high quality 14 gauge stainless steel type 304
2. Have #4 brush finish on all exterior surfaces
3. Have seams that are continuously welded and ground smooth
4. Have doors with concealed hinges
5. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
6. Have large polycarbonate viewing window in top door
7. Have rubber pad with provision for leveling pads on bottom of enclosure
8. Have an oil resistant gasket that meets type 4, 4X and 12 rating requirements
9. Have flange trough collar around all sides of door opening
10. Have mounting channels welded on sides of interior body for mounting optional sub-panels, racks, mounting angles and shelves
11. Have quarter turn latches on top door
12. Have keyboard door with quarter turn wing knob latches
13. Have pullout keyboard shelf with attached self-storing mouse shelf
14. Have gland plate on lower back of enclosure
15. Have optional locking provisions
16. Have ground studs on door and body

17. Have heavy duty lifting eyes for easy handling
18. Have the ability to add cut-outs and change paint color
19. Be approved by UL for type 4, 4X and 12 rating

Slope Top Work Station

This enclosure shall:
1. Be constructed of high quality 14 gauge stainless steel type 304
2. Have #4 brush finish on all exterior surfaces
3. Have seams that are continuously welded and ground smooth
4. Have doors with concealed hinges
5. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
6. Have large polycarbonate viewing window in top door
7. Have rubber pad with provision for leveling pads on bottom of enclosure
8. Have an oil resistant gasket that meets type 12 rating requirements
9. Have flange trough collar around all sides of door opening
10. Have mounting channels welded on sides of interior body for mounting optional sub-panels, racks, mounting angles and shelves
11. Have provisions for monitor mounting system
12. Have 15° sloped top and 12.5° sloped keyboard desk
13. Have pencil palm rest
14. Have quarter turn latches on top door
15. Have keyboard door with quarter turn wing knob latches
16. Have pullout keyboard shelf with attached self-storing mouse shelf
17. Have keylocking 3-point flush swing handles on lower front and rear doors
18. Have gland plate on lower back of enclosure
19. Have optional locking provisions
20. Have ground studs on door and body
21. Have heavy duty lifting eyes for easy handling
22. Have the ability to add cut-outs and change paint color
23. Be approved by UL for type 12 rating

Junction Enclosures

Enviroline® Series Junction (ELJ)

This junction enclosure shall:
1. Be constructed of high quality 16 gauge stainless steel type 304 or 316/316L
2. Have #4 brush finish on all exterior surfaces
3. Have seams that are continuously welded and ground smooth
4. Have a removable door hinge
5. Have an oil resistant gasket that meets type 4, 4X and 12 rating requirements
6. Have flange trough collar around all sides of door opening
7. Include standoffs for mounting optional sub-panels
8. Have optional polycarbonate viewing window
9. Have mini quarter turn latches
10. Have mounting holes in back of enclosure with mounting feet included
11. Have the ability to mount cooling options to the wall of the enclosure
12. Have optional locking provisions
13. Have the ability to add cut-outs and change paint color
14. Be available in sizes ranging from 6" x 4" x 4" to 16" x 14" x 8"
15. Be approved by UL for type 4, 4X and type 12 rating

Continuous Hinge Clamp Fastened

This junction enclosure shall:
1. Be constructed of high quality 16 gauge stainless steel type 304 or 316/316L

2. Have #4 brush finish on all exterior surfaces
3. Have seams that are continuously welded and ground smooth
4. Have a stainless steel continuous door hinge
5. Have an oil resistant gasket that meets type 4, 4X and 12 rating requirements
6. Include standoffs for mounting optional sub-panels
7. Have external stainless steel screw clamps that are quick and easy to use
8. Have mounting straps on back of enclosure
9. Have the ability to mount cooling options to the wall of the enclosure
10. Have optional locking provisions
11. Have the ability to add cut-outs and change paint color
12. Be available in sizes ranging from 6" x 4" x 4" to 16" x 14" x 6"
13. Be approved by UL for type 4, 4X and type 12 rating

Wall-Mount Enclosures

Enviroline® Series Single-Door

This enclosure shall:
1. Be constructed of high quality 14 gauge stainless steel type 304 or 316/316L
2. Have #4 brush finish on all exterior surfaces
3. Have seams continuously welded and ground smooth
4. Have a door opening greater than 180° for complete access to equipment
5. Have a door with stainless steel concealed hinges
6. Have a door secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
7. Have door secured with flush quarter-turn latch(s)
8. Have optional locking provisions
9. Have the ability to add cut-outs and change paint color
10. Have oil resistant gasket that meets type 4, 4X and 12 rating requirements
11. Have flange trough collar around all sides of door opening
12. Have collar studs for mounting optional sub-panels
13. Have mounting holes in back of enclosure
14. Have easily removable and interchangeable doors
15. Have ground studs on door and body
16. Have the ability to mount thermal management products
17. Have the ability to add front swing-out or dead front panel
18. Be available in sizes ranging from 12" x 12" x 6" to 72" x 36" x 16"
19. Be approved by UL for type 4, 4X and type 12 rating

Enviroline® Series Single-Door w/ 3-Point Hardware

This enclosure shall:
1. Be constructed of high quality 14 gauge stainless steel type 304 or 316/316L
2. Have #4 brush finish on all exterior surfaces
3. Have seams continuously welded and ground smooth
4. Have a door opening greater than 180° for complete access to equipment
5. Have a door with stainless steel concealed hinges
6. Have a door secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
7. Have a keylocking/padlocking handle and 3-point latching mechanism
8. Have optional locking provisions
9. Have the ability to add cut-outs and change paint color
10. Have oil resistant gasket that meets type 4, 4X and 12 rating requirements
11. Have flange trough collar around all sides of door opening
12. Have collar studs for mounting optional sub-panels
13. Have mounting holes in back of enclosure
14. Have easily removable and interchangeable doors

15. Have ground studs on door and body
16. Have the ability to mount thermal management products
17. Have the ability to add front swing-out or dead front panel
18. Be available in sizes ranging from 24" x 20" x 10" to 72" x 36" x 24"
19. Be approved by UL for type 4, 4X and type 12 rating

Enviroline® Series Sloping Top Single-Door

This enclosure shall:
1. Be constructed of high quality 14 gauge stainless steel type 304
2. Have #4 brush finish on all exterior surfaces
3. Have seams continuously welded and ground smooth
4. Have 15° Sloping Top
5. Have a door opening greater than 180° for complete access to equipment
6. Have a door with stainless steel concealed hinges
7. Have a door secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
8. Have door secured with flush quarter-turn latch(s)
9. Have optional locking provisions
10. Have the ability to add cut-outs and change paint color
11. Have oil resistant gasket that meets type 4, 4X and 12 rating requirements
12. Have flange trough collar around all sides of door opening
13. Have collar studs for mounting optional sub-panels
14. Have mounting holes in back of enclosure
15. Have easily removable and interchangeable doors
16. Have ground studs on door and body
17. Have the ability to mount thermal management products
18. Have the ability to add front swing-out or dead front panel
19. Be available in sizes ranging from 16" x 12" x 8" to 60" x 36" x 16"
20. Be approved by UL for type 4, 4X and type 12 rating

Clamp Fastened Single-Door

This enclosure shall:
1. Be constructed of high quality 14 gauge stainless steel type 304 or 316/316L
2. Have #4 brush finish on all exterior surfaces
3. Have seams continuously welded and ground smooth
4. Have padlocking capability with stainless steel hasp and staple
5. Have collar studs for mounting optional sub-panels
6. Have oil resistant gasket that meets type 4, 4X and 12 rating requirements
7. Have flange trough collar around all sides of door opening
8. Have easy to use stainless steel door clamps for quick access
9. Have a door with stainless steel continuous hinge
10. Have stainless steel mounting tabs on back of enclosure
11. Have the ability to add cut-outs and change paint color
12. Have the ability to mount thermal management products
13. Have the ability to add front swing-out or dead front panel
14. Be available in sizes ranging from 16" x 12" x 6" to 60" x 36" x 12"
15. Be approved by UL for type 4, 4X and type 12 rating

Enviroline® Series Two-Door

This enclosure shall:
1. Be constructed of high quality 14 gauge stainless steel type 304
2. Have #4 brush finish on all exterior surfaces
3. Have oil resistant gasket that meets type 4, 4X and 12 rating requirements
4. Have flange trough collar around all sides of door opening
5. Have keylocking/padlocking handles and 3-point latching mechanisms

6. Have doors with stainless steel concealed hinges
7. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
8. Have collar studs for mounting optional sub-panels
9. Have mounting holes in back of enclosure
10. Have the ability to add cut-outs and change paint color
11. Have the ability to mount thermal management products
12. Be available in sizes ranging from 24" x 42" x 10" to 48" x 48" x 12" and 42" x 60" x 12"
13. Be approved by UL for a type 4, 4X or 12 rating

Wall-Mount Disconnect Enclosures

Enviroline® Series Single-Door for Flange-Mounted Disconnects

This enclosure shall:
1. Be constructed of high quality 14 gauge stainless steel type 304 or 316/316L
2. Have #4 brush finish on all exterior surfaces
3. Have seams continuously welded and ground smooth
4. Have mounting holes in back of enclosure
5. Have disconnect cutout provided on flange
6. Have a door with stainless steel concealed hinges
7. Have a door secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
8. Have optional locking provisions
9. Have the ability to add cut-outs and change paint color
10. Have oil resistant gasket that meets type 3R, 4, 4X and 12 rating requirements
11. Have flange trough collar around all sides of door opening
12. Have collar studs for mounting optional sub-panels
13. Have a coin-proof padlocking handle and 3-point latching mechanism
14. Have easily removable and interchangeable doors
15. Have ground studs on door and body
16. Have the ability to mount thermal management products
17. Have the ability to add front swing-out or dead front panel
18. Be available in sizes ranging from 20" x 21.38" x 8" to 60" x 37.38" x 16"
19. Be approved by UL for a type 3R, 4, 4X or 12 rating

Enviroline® Series Sloping Top Single-Door for Flange-Mounted Disconnects

This enclosure shall:
1. Be constructed of high quality 14 gauge stainless steel type 304
2. Have #4 brush finish on all exterior surfaces
3. Have seams continuously welded and ground smooth
4. Have 15° Sloping Top
5. Have mounting holes in back of enclosure
6. Have disconnect cutout provided on flange
7. Have a door with stainless steel concealed hinges
8. Have a door secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
9. Have optional locking provisions
10. Have the ability to add cut-outs and change paint color
11. Have oil resistant gasket that meets type 4, 4X and 12 rating requirements
12. Have flange trough collar around all sides of door opening
13. Have collar studs for mounting optional sub-panels
14. Have a stainless steel coin-proof padlocking handle and 3-point latching mechanism
15. Have easily removable and interchangeable doors
16. Have ground studs on door and body
17. Have the ability to mount thermal management products
18. Have the ability to add front swing-out or dead front panel

19. Be available in sizes ranging from 24" x 25.38" x 10" to 60" x 37.38" x 16"
20. Be approved by UL for a type 4, 4X or 12 rating

Clamp Fastened Single-Door for Flange-Mounted Disconnects

This enclosure shall:
1. Be constructed of high quality 14 gauge stainless steel type 304 or 316/316L
2. Have #4 brush finish on all exterior surfaces
3. Have seams continuously welded and ground smooth
4. Have padlocking capability with stainless steel hasp and staple
5. Have collar studs for mounting optional sub-panels
6. Have disconnect cutout provided on flange
7. Have oil resistant gasket that meets type 4, 4X or 12 rating requirements
8. Have flange trough collar around all sides of door opening
9. Have easy to use stainless steel door clamps for quick access
10. Have a door with stainless steel continuous hinge
11. Have stainless steel mounting tabs on back of enclosure
12. Have the ability to add cut-outs and change paint color
13. Have the ability to mount thermal management products
14. Have the ability to add front swing-out or dead front panel
15. Be available in sizes ranging from 24" x 21.38" x 8" to 60" x 37.38" x 12"
16. Be approved by UL for type 4, 4X and 12 rating

Free-Standing Enclosures

Enviroline® Series Two-Door

This enclosure shall:
1. Be constructed of high quality 12 gauge stainless steel type 304 or 316/316L
2. Have #4 brush finish on all exterior surfaces
3. Have seems continuously welded and ground smooth
4. Have oil resistant gasket that meets type 3R, 4, 4X and 12 rating requirements
5. Have flange trough collar around all sides of door opening
6. Have removable center post
7. Have keylocking/padlocking handles and 3-point latching mechanisms
8. Have doors with stainless steel concealed hinges
9. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
10. Have collar studs for mounting optional sub-panels
11. Have removable print pocket on interior of main door
12. Have removable 12" high floor stands
13. Have panel support angles to assist panel installation
14. Have heavy-duty lifting eyes for easy handling
15. Have ground studs on door and body
16. Have a provisions inside top for mounting a light kit
17. Have the ability to add cut-outs and change paint color
18. Have the ability to mount thermal management products
19. Be approved by UL for a type 3R, 4, 4X or 12 rating

Enviroline® Series Sloping Top Two-Door

This enclosure shall:
1. Be constructed of high quality 12 gauge stainless steel type 304
2. Have #4 brush finish on all exterior surfaces
3. Have seems continuously welded and ground smooth
4. Have oil resistant gasket that meets type 3R, 4, 4X and 12 rating requirements
5. Have flange trough collar around all sides of door opening

6. Have 15° sloping top
7. Have removable center post
8. Have stainless steel padlocking handles and 3-point latching mechanisms
9. Have doors with stainless steel concealed hinges
10. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
11. Have collar studs for mounting optional sub-panels
12. Have removable print pocket on interior of main door
13. Have provisions for floor stands
14. Have panel support angles to assist panel installation
15. Have heavy-duty lifting eyes for easy handling
16. Have ground studs on door and body
17. Have the ability to add cut-outs and change paint color
18. Have the ability to mount thermal management products
19. Have a provisions inside top for mounting a light kit
20. Be approved by UL for a type 3R, 4, 4X or 12 rating

Enviroline® Series Free-Standing Single-Door

This enclosure shall:
1. Be constructed of high quality 12 gauge stainless steel type 304 or 316/316L
2. Have #4 brush finish on all exterior surfaces
3. Have seems continuously welded and ground smooth
4. Have oil resistant gasket that meets type 3R, 4, 4X and 12 rating requirements
5. Have flange trough collar around all sides of door opening
6. Have a keylocking/padlocking handle and 3-point latching mechanism
7. Have a door with stainless steel concealed hinges
8. Have a door secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
9. Have mounting channels welded horizontally on sides of interior body at top, bottom, and middle for mounting optional panels or rack mounting angles
10. Have removable print pocket on interior of door
11. Have heavy-duty lifting eyes for easy handling
12. Have ground studs on door and body
13. Have a provisions inside top for mounting a light kit
14. Have the ability to add cut-outs and change paint color
15. Have the ability to mount thermal management products
16. Be approved by UL for a type 3R, 4, 4X or 12 rating

Enviroline® Series Free-Standing Two-Door

This enclosure shall:
1. Be constructed of high quality 12 gauge stainless steel type 304 or 316/316L
2. Have #4 brush finish on all exterior surfaces
3. Have seems continuously welded and ground smooth
4. Have oil resistant gasket that meets type 3R, 4, 4X and 12 rating requirements
5. Have removable center post
6. Have keylocking/padlocking handles and 3-point latching mechanisms
7. Have doors with stainless steel concealed hinges
8. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
9. Have mounting channels welded horizontally on sides of interior body at top, bottom, and middle for mounting optional panels or rack mounting angles
10. Have removable print pocket on interior of door
11. Have heavy-duty lifting eyes for easy handling
12. Have ground studs on door and body
13. Have a provisions inside top for mounting a light kit

14. Have the ability to add cut-outs and change paint color
15. Have the ability to mount thermal management products
16. Be approved by UL for a type 3R, 4, 4X or 12 rating

Free-Standing Two-Door Single Access

This enclosure shall:
1. Be constructed of high quality 12 gauge stainless steel type 304
2. Have #4 brush finish on all exterior surfaces
3. Have seems continuously welded and ground smooth
4. Have oil resistant gasket that meets type 3R and 12 rating requirements
5. Have flange trough collar around all sides of door opening
6. Have gasketed overlapping doors, eliminating the need for a center post
7. Have keylocking/padlocking handle and 3-point latching mechanism
8. Have doors with stainless steel concealed hinges
9. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
10. Have mounting channels welded horizontally on sides of interior body at top, bottom, and middle for mounting optional panels or rack mounting angles
11. Have removable print pocket on interior of main door
12. Have heavy-duty lifting eyes for easy handling
13. Have ground studs on door and body
14. Have a provisions inside top for mounting a light kit
15. Have the ability to add cut-outs and change paint color
16. Have the ability to mount thermal management products
17. Be approved by UL for a type 3R or 12 rating

Free-Standing Disconnect Enclosures

Enviroline® Series Two-Door for Flange-Mounted Disconnects

This enclosure shall:
1. Be constructed of high quality 12 gauge stainless steel type 304 or 316/316L
2. Have #4 brush finish on all exterior surfaces
3. Have seems continuously welded and ground smooth
4. Have heavy-duty lifting eyes for easy handling
5. Have removable center post for easy sub-panel installation
6. Have a coin-proof padlocking handle on main door and padlocking handle on slave door with 3-point latching mechanisms
7. Have doors with stainless steel concealed hinges
8. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
9. Have collar studs for mounting optional sub-panels
10. Have oil resistant gasket that meets type 3R, 4, 4X and 12 rating requirements
11. Have flange trough collar around all sides of door opening
12. Have a mechanical interlock
13. Have panel support angles to assist panel installation
14. Have removable 15" high floor stands
15. Have removable print pocket on interior of door
16. Have ground studs on door and body
17. Have a provisions inside top for mounting a light kit
18. Have the ability to add cut-outs and change paint color
19. Have the ability to mount thermal management products
20. Be approved by UL for a type 3R, 4, 4X or 12 rating

Enviroline® Series Sloping Top Two-Door for Flange-Mounted Disconnects

This enclosure shall:
1. Be constructed of high quality 12 gauge stainless steel type 304
2. Have #4 brush finish on all exterior surfaces
3. Have seems continuously welded and ground smooth
4. Have heavy-duty lifting eyes for easy handling
5. Have 15° sloping top
6. Have removable center post for easy sub-panel installation
7. Have a stainless steel coin-proof padlocking handle on main door and stainless steel padlocking handle on slave door with 3-point latching mechanisms
8. Have doors with stainless steel concealed hinges
9. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
10. Have collar studs for mounting optional sub-panels
11. Have oil resistant gasket that meets type 3R, 4, 4X and 12 rating requirements
12. Have flange trough collar around all sides of door opening
13. Have a mechanical interlock
14. Have panel support angles to assist panel installation
15. Have provisions for floor stands
16. Have removable print pocket on interior of door
17. Have ground studs on door and body
18. Have a provisions inside top for mounting a light kit
19. Have the ability to add cut-outs and change paint color
20. Have the ability to mount thermal management products
21. Be approved by UL for a type 3R, 4, 4X or 12 rating

Heavy Duty for Flange-Mounted Disconnects

This enclosure shall:
1. Be constructed of high quality 11 gauge stainless steel type 304
2. Have #4 brush finish on all exterior surfaces
3. Be available in single, two, three, four, five and six-door
4. Have seems continuously welded and ground smooth
5. Have heavy-duty lifting eyes for easy handling
6. Have removable center post for easy sub-panel installation
7. Have a coin-proof padlocking handle on main door and padlocking handles on slave doors with 3-point latching mechanisms
8. Have doors with stainless steel concealed hinges
9. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
10. Have removable sub-panels mounted on collar studs
11. Have defeater on main door
12. Have oil resistant gasket that meets type 3R, 4, 4X and 12 rating requirements
13. Have flange trough collar around all sides of door opening
14. Have a mechanical interlock that when activated by master door prevents slave doors from being opened first
15. Have panel support angles to assist panel installation
16.
17. Have removable print pocket on interior of door
18. Have ground studs on door and body
19. Have a provisions inside top for mounting a light kit
20. Have the ability to add cut-outs and change paint color
21. Have the ability to mount thermal management products
22. Be approved by UL for a type 3R, 4, 4X or 12 rating

Heavy Duty with External Disconnect Enclosure installed

This enclosure shall:
1. Be constructed of high quality 11 gauge stainless steel type 304 or 316/316L
2. Have #4 brush finish on all exterior surfaces
3. Be available in single, two and three-door
4. Have seems continuously welded and ground smooth
5. Have heavy-duty lifting eyes for easy handling
6. Have removable center post for easy sub-panel installation
7. Have padlocking handles with 3-point latching mechanisms
8. Have doors with stainless steel concealed hinges
9. Have doors secured with easily removable and replaceable stainless steel hinge pins with clip retainer that allow door removal
10. Have removable sub-panels mounted on collar studs
11. Have defeater on main door
12. Have oil resistant gasket that meets type 3R, 4, 4X and 12 rating requirements
13. Have a mechanical interlock that when activated by the external disconnect prevents main door of the enclosure from being closed unless the EXD enclosure is first closed
14. Have a mechanical interlock that when activated by master door prevents slave doors from being opened first.
15. Have panel support angles to assist panel installation
16. Have removable print pocket on interior of door
17. Have ground studs on door and body
18. Have a provisions inside top for mounting a light kit
19. Have the ability to add cut-outs and change paint color
20. Have the ability to mount thermal management products
21. Be approved by UL for a type 3R, 4, 4X or 12 rating

NON-METALLIC ENCLOSURES

Fiberglass

Pushbutton

This fiberglass enclosure shall:
1. Be constructed fiberglass reinforced compression molded polyester, excellent chemical and moisture resistance, high impact resistance, and superior range of temperature limits
2. Have a Type 4X rated continuous memory retaining gasket
3. Have pushbutton hole diameter of 1.20" (30.5mm)
4. Have material that is light gray inside and out
5. Have recessed stainless steel captive screws securing cover to body
6. Be approved by UL for a type 4, 4X or 12 rating

Screw Cover Junction

This fiberglass enclosure shall:
1. Be constructed fiberglass reinforced compression molded polyester, excellent chemical and moisture resistance, high impact resistance, and superior range of temperature limits
2. Have a Type 4X rated continuous memory retaining gasket
3. Have surface flat stainless steel screws captive screws securing cover to body
4. Have stainless steel continuous hinge
5. Have panel mounting inserts
6. Have optional rear sub-panels
7. Have material that is light gray inside and out
8. Be approved by UL for a type 4, 4X or 12 rating

Hinged Cover Junction

This fiberglass enclosure shall:
1. Be constructed fiberglass reinforced compression molded polyester, excellent chemical and moisture resistance, high impact resistance, and superior range of temperature limits
2. Have oil resistant gasket that meets type 4, 4X and 12 rating requirements
3. Have stainless steel quick release padlocking latch
4. Have stainless steel continuous hinge
5. Have mounting straps molded in to body
6. Have panel mounting inserts
7. Have optional UVA acrylic bonded window
8. Have optional rear sub-panels
9. Have a material that is light gray inside and out
10. Be approved by UL for a type 4, 4X or 12 rating

Wall-Mount Clamp Fastened

This fiberglass enclosure shall:
1. Be constructed fiberglass reinforced compression molded polyester, excellent chemical and moisture resistance, high impact resistance, and superior range of temperature limits
2. Have oil resistant gasket that meets type 4, 4X and 12 rating requirements
3. Have stainless steel quick release latches
4. Have padlocking capability with stainless steel hasp and staple
5. Have stainless steel continuous hinge
6. Have mounting feet molded in to body
7. Have panel mounting inserts
8. Have optional rear sub-panels
9. Have a material that is light gray inside and out
10. Be approved by UL for a type 4, 4X or 12 rating

ACCESSORIES

Thermal Management

Enviro-Therm® Air Conditioner

This air conditioner shall:
1. Have closed loop cooling system
2. Have hermitically sealed reciprocating or rotary compressor
3. Have corrosion resistant internal components
4. Have active condensate system using PTC heater element
5. Have coils designed as filterless units, fin spacing and hydrophobic nano coating to help reduce chance of clogging
6. Include washable, reusable 8 layer aluminum mesh filters
7. Have integrated compressor heater for low ambient temperatures and up to 2000 watts of enclosure heat
8. Have R134a refrigerant – chlorine-free and harmless to the environment
9. Have easy mounting flange hangers for installation included
10. Have digital touchpad programmable controller, viewable and accessible from inside enclosure
11. Have high temp alarm
12. Have high performance ball bearing fans
13. Have door activated switch wiring provisions provided for easy installation
14. Have cage clamp terminal connector
15. Have captive screw fastened filter cover

16. Have powder coated steel cover RAL7035 river texture over aluzinc coated steel or #4 brushed finish 304 Stainless Steel Cover and Frame
17. Include mounting hardware, gaskets, and a mounting template
18. Be available in 1870 - 13,650 BTU/Hr
19. Be available in 115V, 230V or 460V
20. Be approved by UL for a type 3, 3R, 4, 4X and 12 rating

Enviro-Therm® Heat Exchanger

This heat exchanger shall:
1. Have closed loop cooling system
2. Have counter-flow or modified heat pipe core
3. Have corrosion resistant internal components
4. Have filter-less design, low maintenance counter-flow heat exchangers are finless, reducing the chances of clogging, and easy to clean
5. Have threaded mounting studs provided for simple installation
6. Have digital touchpad programmable controller
7. Have high temp alarm
8. Have high performance ball bearing fans
9. Have door activated switch wiring provisions provided for easy installation
10. Have cage clamp terminal connector
11. Have powder coated steel cover RAL7035 river texture over aluzinc coated steel
12. Include mounting hardware, gaskets, and a mounting template
13. Be available in 4 - 24 W/F°
14. Be available in 115V
15. Be approved by UL for a type 3R and 12 rating

Cooling Fans

This fan shall:
1. Have a rigid housing that minimizes breakage and grounding problems
2. Have dynamically balanced impellers that are molded from polycarbonate material
3. Be able to run for 50,000 hours without lubrication or service
4. Include appropriate mounting hardware
5. Include a finger guard for safety
6. Be available in 4, 6 & 10" sizes
7. Have lead wires that are stripped ½ inch
8. Be available in 115 and 230 VAC

Fan Heater with Thermostat

This heater shall:
1. Have durable brushed aluminum housing
2. Have thermostat that is adjustable from 0°F to 100°F (-18°C to 38°C)
3. Discharge heated air through top of heater unit
4. Have heat indicator light
5. Have switch for auto or fan
6. Be available in 125 – 800 watts and 115 or 230 volts

Condensation and Pressure Compensation

Breather/Drain Vent

This vent drains shall:
1. Be made of corrosion and UV resistant Polycarbonate material
2. Maintain an enclosure's UL/cUL type 4, 4x rating when properly installed
3. Use gravity to remove collected liquids from an enclosure
4. Equalized pressure to prevent water and contaminants from entering an enclosure
5. Install with a 22.5mm Push button hole in the bottom or side of an enclosure

Sub-Panels

Steel Sub-Panels for Type 3R, 4, 4X and 12 Enclosures

This panel shall:
1. Be constructed of heavy gauge steel with a white polyester painted finish
2. Match mounting equipment supplied in enclosure

Galvanized Sub-Panels for Type 3R, 4, 4X and 12 Enclosures

This panel shall:
1. Be constructed of heavy gauge steel
2. Match mounting equipment supplied in enclosure

Protective Access Enclosures

Internal Disconnect Enclosure

This enclosure shall:
1. Be constructed of high quality 16 gauge steel
2. Be available in orange powder coat
3. Have a door with removable continuous hinges
4. Have door secured with slotted quarter-turn latch and spring loaded quarter turn latch with 7mm square insert and key that latch automatically when door is closed
5. Be symmetrical for use with left or right hand disconnects
6. Have 110°door stop prevents incidental contact with other components
7. Have optional locking provisions
8. Have gland plate top and bottom provides easy installation of wires
9. Have knockouts for cable or rod activated disconnect
10. Have collar studs for mounting optional sub-panels
11. Have mounting holes provided in back for securing to the sub-panel of main enclosure
12. Have ground studs on door and body
13. Be approved by UL for type 1 rating

External Disconnect Enclosure

This enclosure shall:
1. Be constructed of high quality 14 gauge steel or stainless steel type 304
2. Be available in ANSI 61 gray powder coat finish or stainless steel with #4 brush finish on all exterior surfaces
3. Have seams continuously welded and ground smooth
4. Have a door with concealed hinges
5. Have door secured with quarter-turn latches
6. Have optional locking provisions
7. Have mechanical interlock and hardware included
8. Have the ability to add cut-outs and change paint color
9. Have oil resistant gasket that meets type 4, 4X and 12 rating requirements
10. Have removable 31"H X 12"W galvanized sub-panel mounted on collar studs
11. Have a coin-proof padlocking handle and 3-point latching mechanism
12. Have easily removable and interchangeable doors
13. Have ground studs on door and body
14. Have mechanical interlock that when activated by the external disconnect prevents main door of the enclosure from being closed unless the EXD enclosure is first closed
15. Have mechanical interlock that when activated by master door prevents slave doors from being opened first
16. Be approved by UL for a type 4, 4X or 12 rating