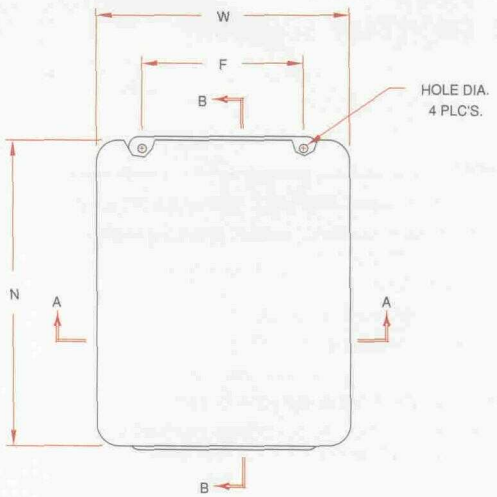
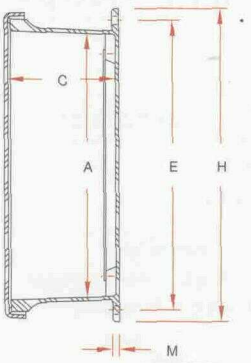
"J" Series "HPL" Configuration Technical Drawings

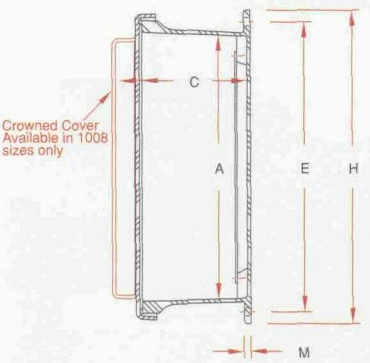


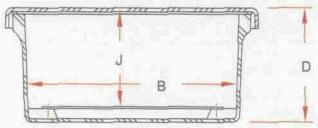
Standard Flat Cover



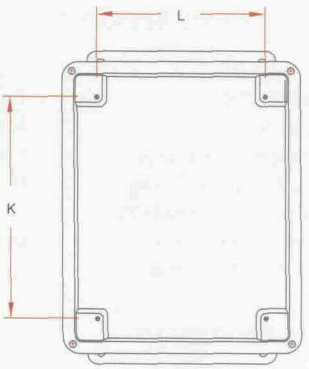
SECTION B-B

Crowned Cover



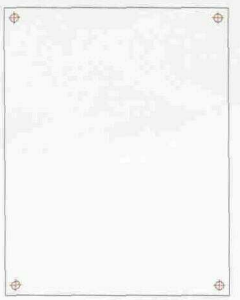


SECTION A-A



FRONT VIEW
WITHOUT COVER

Back Panel Available
(see page 246)



"J" Series Enclosures - "HPL" Configuration Dimensions

SIZE ID NUMBER	OVERALL H X W X D	INSIDE A X B X C	MOUNTING E X F	J	K	L	M	N	HOLE DIA.	ENCLOSURE WEIGHT	PANEL NUMBER
J 604HPL	7.50 x 5.43 x 4.75 (191 x 138 x 121)	5.84 x 3.85 x 4.45 (148 x 98 x 113)	6.75 x 2 (171 x 51)	4 (101)	4.25 (108)	2.25 (57)	0.25 (6)	7.39 (188)	0.31 (8)	2.5 lbs.	BP-64
J 606HPL	7.50 x 7.50 x 4.75 (191 x 191 x 121)	5.72 x 5.72 x 4.45 (145 x 145 x 113)	6.75 x 4 (171 x 101)	4 (101)	4.25 (108)	4.25 (108)	0.25 (6)	7.52 (191)	0.31 (8)	2.75 lbs.	BP-66
J 806HPL	9.62 x 7.50 x 4.74 (244 x 191 x 121)	7.73 x 5.74 x 4.45 (196 x 146 x 113)	8.88 x 4 (225 x 101)	4 (101)	6.25 (159)	4.25 (108)	0.25 (6)	9.5 (242)	0.31 (8)	3.5 lbs.	BP-86
J 1008HPL	11.62 x 9.41 x 4.25 (295 x 239 x 108)	9.73 x 7.73 x 3.98 (247 x 196 x 101)	10.75 x 6 (273 x 152)	3.5 (89)	8.25 (209)	6.25 (159)	0.25 (6)	11.35 (288)	0.31 (8)	5 lbs.	BP-108
J 1008HAPL* Crowned Cover	11.62 x 9.37 x 5.06 (295 x 238 x 129)	9.73 x 7.73 x 4.83 (247 x 196 x 123)	10.75 x 6 (273 x 152)	4.37 (111)	8.25 (209)	6.25 (159)	0.25 (6)	11.37 (289)	0.31 (8)	5 lbs.	BP-108
J 1210HPL	13.56 x 11.43 x 5.21 (344 x 291 x 132)	11.79 x 9.80 x 4.94 (299 x 249 x 125)	12.75 x 8 (324 x 203)	4.5 (114)	10.25 (260)	8.25 (209)	0.25 (6)	13.41 (341)	0.31 (8)	6.5 lbs.	BP-1210
J 1407HPL	15.87 x 8.75 x 6.81 (403 x 222 x 173)	14.00 x 7.00 x 6.56 (356 x 178 x 167)	15 x 5 (381 x 127)	6.12 (156)	12.25 (311)	5.25 (133)	0.25 (6)	15.75 (400)	0.31 (8)	6.25 lbs.	BP-1407
J 1412HPL	15.50 x 13.50 x 6.25 (394 x 343 x 159)	13.53 x 11.55 x 5.94 (344 x 293 x 151)	14.62 x 10 (371 x 254)	5.37 (137)	12.25 (311)	10.25 (260)	0.25 (6)	15.47 (393)	0.31 (8)	8.5 lbs.	BP-1412
J 1614HPL	17.53 x 15.46 x 6.23 (445 x 393 x 158)	15.63 x 13.60 x 5.94 (397 x 345 x 151)	16.75 x 12 (425 x 305)	5.36 (136)	14.25 (362)	12.25 (311)	0.25 (6)	17.45 (443)	0.31 (8)	11.5 lbs.	BP-1614
J 1816HPL	19.62 x 17.61 x 8.82 (498 x 447 x 224)	17.69 x 15.69 x 8.45 (449 x 399 x 215)	18.88 x 12 (479 x 305)	7.99 (203)	16.25 (413)	14.25 (362)	0.25 (6)	19.61 (498)	0.31 (8)	19.25 lbs.	BP-1816
J 2016HPL	22.00 x 17.68 x 8.83 (559 x 449 x 224)	19.72 x 15.72 x 8.45 (501 x 399 x 215)	21.25 x 10.00 (540 x 254)	8 (203)	18.25 (464)	14.25 (362)	0.25 (6)	21.68 (551)	0.31 (8)	20.25	BPJ2016

All measures are in inches, items in parentheses are in millimeters.

*Crowned cover – center of cover raised 3/4"

General Information

continued on following pages

NEMA 12 Indoor use to provide a degree of protection against falling dirt; circulating dust, lint, fibers and flyings; and dripping and light splashing of liquids.

NEMA 13 Indoor use to provide a degree of protection against falling dirt; circulating dust, lint, fibers and flyings; and spraying, splashing and seepage of water, oil and non-corrosive coolants.

Reference Documents and Sources

NEMA Standards Publication 250, Enclosures for Electrical Equipment (1000 Volts Maximum) and NEMA Standards Publication ICS6, Enclosures for Industrial Controls and Systems.
National Electrical Manufacturers Association
1300 North 17th ST, Suite 1847
Rosslyn, VA 22209

CSA Standard C22.2 No. 14 Industrial Control Equipment for Use in Ordinary (Non-Hazardous) Locations; CSA Standard C22.2 No. 40 Cut-Out, Junction and Pull Boxes; and CSA Standard 22.2 No. 94 Special Purpose Enclosures
Canadian Standards Association
178 Rexdale Blvd.
Etobicoke, Ontario, Canada M9W 1R3

UL 50 Enclosures for Electrical Equipment; UL 94 Tests for Flammability of Plastic Materials for Parts in Devices and Appliances; UL 508 Industrial Control Equipment; UL 870 Wireways, Auxiliary Gutters and Associated Fittings; and UL 746C Polymeric Materials - Use in Electrical Equipment Evaluations
Underwriters Laboratories
333 Pfingsten Road
Northbrook, IL 60062-2096
Underwriters Laboratories of Canada
7 Crouse Road
Scarborough, Ontario, Canada M1R 3A9

IEC 529 Classification of Degrees of Protection Provided by Enclosures
IEC 204 Electrical Equipment of Industrial Machines
International Electrotechnical Commission
1 Rue de Varembei
CH-1211
Geneva 20, Switzerland

ANSI Z55.1 Gray Finishes for Industrial Apparatus and Equipment
American National Standards Institute
1430 Broadway
New York, NY 10018

Comparison of Enclosure Types for Non-hazardous Locations

Provides a Degree of Protection Against the Following Environmental Conditions	Type of Enclosure								
	1	3	3R	4	4X	6	6P	12	13
Incidental Contact with Enclosed Equipment	•	•	•	•	•	•	•	•	•
Indoor	•	•	•	•	•	•	•	•	•
Outdoor		•	•	•	•	•	•		
Falling Dirt	•	•	•	•	•	•	•	•	•
Dripping and Light Splashing Liquids		•	•	•	•	•	•	•	•
Rain, Sleet*, Snow		•	•	•	•	•	•		
Circulating Dust, Lint, Fibers and Flyings		•		•	•	•	•	•	•
Settling Dust, Lint, Fibers and Flyings		•		•	•	•	•	•	•
External Ice*		•	•	•	•	•	•		
Hosedown and Splashing Water				•	•	•	•		
Oil and Coolant Seepage								•	•
Oil and Coolant Spraying and Splashing									•
Corrosive Agents					•		•		
Occasional Temporary Submersion						•	•		
Occasional Prolonged Submersion							•		

*External operating mechanisms are not required to be operable when the enclosure is ice covered

The "J" Series

J

The "J" Series

The "J" Series enclosures follow the original design of fiberglass enclosure products featuring a modest overhang cover on a flange mounted base. This simple but elegant concept offers unobstructed side-walls, built in mounting capabilities and the strength characteristics associated with a protective wrap around cover that is hinged, latched or screwed down.

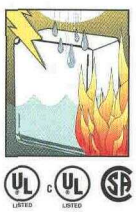
Stahlin's "J" series enclosures are designed for general electrical and electronic applications and any application that has associated environmental concerns. Simple in its design, the enclosure can be configured with cutouts, windows and modifications that make your finished product truly unique.

"J" series products enhance any instrument installation. They accommodate standard back panel mounting but offer a range of panels, including an elevated dead front panel that is highly visible through a cover mounted window. This is a smaller and slightly shallower series of product than the Classic series. If extra depth is required, the series offers a "raised cover" that increases depth by adding to the depth of the cover.

This feature can be particularly effective with cover mounted components. There is a multitude of variations available in this simple but elegant design.

"J" Series Attributes

- Overhang cover on smooth sided base
- Soft rounded radius on base lip
- All stainless hardware latches and screws
- Full length stainless steel hinge
- Chemically resistant fiberglass reinforced polyester
- Submersible, non corrosive, environmental designs
- Stainless steel retention chain on screw covers

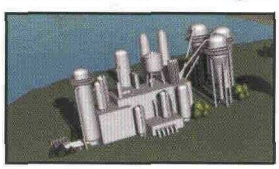


"J" Series Specifications

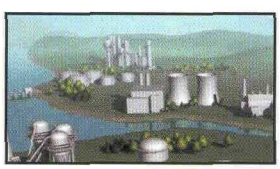
- Water tight
- Submersible
- Corrosion Resistant
- Fire resistant
- Light weight
- Rated NEMA 1, 3, 4X, 6P, 12
- UL/cUL approved
- CSA approved

The "J" Series is Applicable for Many Industries including:

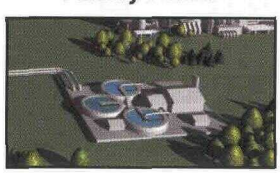
OEM & instrumentation designs



MRO facilities



Poultry Farms



Marine & Marina installations

The "J" Series Family consists of four basic concepts: screw down cover, hinged cover with screw down, a twistlock !atch and a padlock latch. There are ten basic sizes in the range. Additionally, the 10 x 8 size has a special cover configuration described as a "crown cover" which adds a small additional depth to the enclosure by offering a slightly deeper cover. Simple screw down cover style enclosures employ an industry exclusive stainless steel retention chain.Each of these configurations is equally at home in aggressive environments or high profile commercial installations.

"J" Series Ordering Information

Use the information below to derive specific catalog numbers. Stahlin catalog numbers first begin with Family ID, then size ID and configuration ID as a suffix. See the example below.

Ordering Information - Deriving Catalog Numbers			
Family ID	*Size ID*	*Configuration ID*	*EXAMPLE*
J	XXXX	Conf. ID =	"J604W"

"J" Series - Inside Dimensions

Size ID	H x W x D	Optional Panel #
J604	5.84 x 3.85 x 4.45	BP64
J606	5.72 x 5.72 x 4.45	BP66
J806	7.73 x 5.74 x 4.45	BP86
J1008*	9.73 x 7.73 x 3.98	BP108
J1210	11.79 x 9.80 x 4.94	BP1210
J1407	14.00 x 7.00 x 6.56	BP1407
J1412	13.53 x 11.55 x 5.94	BP1412
J1614	15.63 x 13.60 x 5.94	BP1614
J1816	17.69 x 15.69 x 8.45	BP1816
J2016	19.72 x 15.72 x 8.45	BPJ2016

Optional back panels available in various materials. See page 246

*Size 1008 available with crowned cover see page 62 for details.

"J" Series - Configurations

Configuration ID	DESCRIPTION
W	4 cover screws, lift off cover configuration
HW	Hinged, 2 cover screws configuration
HLL	Hinged, link lock latch configuration
HPL	Hinged, padlock latch configuration
FHW	Fiberglass hinged, 4 cover screws configuration
FHLL	Fiberglass hinged, flush mounted window, link lock latch config.
FHPL	Fiberglass hinged, flush mounted window, padlock latch config.

"J" Series Shared Characteristics

Construction

Material	Hot compression molded fiberglass reinforced polyester
Gasket	Poured polyurethane seamless gasket provides watertight, dust-tight environmental seal
Recessed Screws	No protruding surfaces
Stainless Steel Hardware	300 Series stainless used on all external hardware
Molded in Mounting Flange	Integral flange molded in place for ease of mounting.
Mounting Bosses	Panel mounting capability for fixed rear panel
Metal inserts	All bosses utilize threaded brass inserts accepting 10-32 screws
Soft Edge Design	Rounded edges, minimal protrusions or exposed pocket areas for assembly of dust and debris

Physical Characteristics

Non corrosive	Stands up to an exceptionally broad range of chemical exposures
Water-tight	Rated watertight and submersible for a prolonged period
Dust-tight	Results in an environmentally sealed, environmentally sound space
Impact resistant	Resilient material with high impact resistance
Non Conductive	Double insulated material. No incidental electrical contact
Light weight	Solid construction in a lightweight design
UV resistant	Minimizes the affects of sunlight
Workable material	Cuts, drills, punches, and saws with ease and accuracy
Easy maintenance	Scratches and gouges can be restored with a petroleum jelly product
Pleasing aesthetics	Smooth lines, soft colors easily blend into customer's design concepts
Color/Finish	Smooth surface, no color variations, swirls, or color pockets, no voids. Color described as Glacier Gray
Color Guard range	Available from stock in Red, White, and Yellow. See page 122 for details.

Industry Standards

UL/cUL 50	File E64358 Type 1, 3, 4X, 6P, 12
NEMA 250	Type 1, 3, 4X, 6P, 12
CSA Std C22.2	File LR069014 Type 1, 3, 4X, 6P, 12
Temperature Range	(-40°F to +250°F) (-40°C to +120°C)
Flammability Rating	UL94-5V
Window flammability	UL94V-0
Self extinguishing	Non-flame propagating
Chemical Resistance	Full chemical resistance charts listed in appendix

Technical Specifications - "J" Series

"HPL" configuration - Hinged, padlock latch

J1210HPL

NOTES:

HPL Construction

Material	Hot compression molded fiberglass reinforced polyester (thermoset)
Gasket	Poured polyurethane seamless gasket provides watertight, dust-tight environmental seal
Pan head screws	No protruding surfaces
Stainless Steel Hardware	300 Series stainless used on all external hardware
Molded in Mounting Flange	Molded in flange for ease of mounting.
Mounting Bosses	Panel mounting capability for fixed rear panel
Metal inserts	All bosses utilize threaded brass inserts accepting 10-32 screws
Soft Edge Design	Rounded edges, minimal protrusions or exposed pocket areas for assembly of dust and debris

HPL Industry Standards

UL/cUL 50	File E64358 Type 1, 3, 4X, 6P, 12
NEMA 250	Type 1, 3, 4X, 6P, 12
CSA Std C22.2	File LR069014 Type 1, 3, 4X, 6P, 12
Temperature Range	(-40°F to +250°F) (-40°C to +120°C)
Flammability Rating	UL94-5V
Window Flammability	UL94V-0
Self Extinguishing	Non-flame propagating
Chemical Resistance	Full chemical resistance charts listed in appendix

HPL Accessories

Back Panels

	ORDERING INFO	
Aluminum	BP__AL	pg. 246
Fiberglass	BP__FG	pg. 246
Stainless Steel	BP__SS	pg. 246
Painted Carbon Steel	BP__CS	pg. 246

Special Accessories

Surface mount windows		pg. 237
Terminal Kit	TK__	pg. 253
Encapsulated cover screws	WP4PKENCAP	pg. 241
Vent	DVK3KIT	pg. 241
Louver	LPK3KIT	pg. 241
Carrying Handle	RMEMK109506	pg. 241
Fiberglass pedestals	JP3336	pg. 241
Assorted hubs and cord grips	five assorted ranges	pg. 242, 243, 244
Vapor capsule	VC2-1	pg. 241

HPL Modifications

See Special ModRight™ Modification pg 235, 236

	ORDERING INFO
Removable dead front panels	pg. 249
Grounding stud	pg. 236
Custom painting	pg. 235
Silk screening	pg. 235
Decals	pg. 235
EMI/RFI shielding	pg. 235
Custom window	pg. 235
Custom cutouts	pg. 235
Custom hole drilling	pg. 235
Custom blending	pg. 235

Now Available In COLORGuard

See page 122 for details