

HOT BOX[®]

"The Engineered Enclosure"[®]

924 LANE AVENUE N
 JACKSONVILLE, FLORIDA 32254
 (800) 736-0238 or (904) 786-0204
 FAX (904) 783-6965
 E-MAIL: hotboxsales@hps.hubbell.com
 http://www.hot-box.com



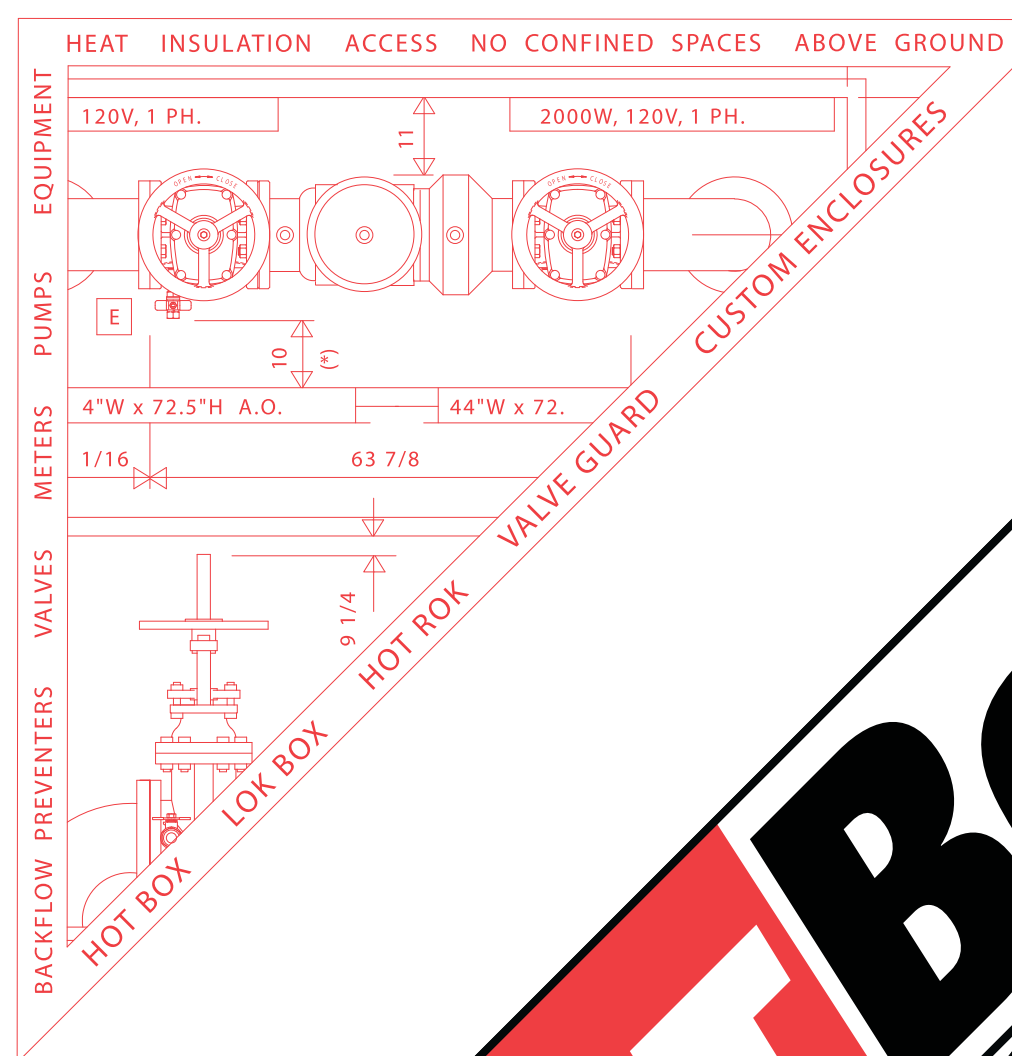
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NOVEMBER 2010

HB-9
 A&J 3M Affiliated companies of CDR Systems Group: HOT BOX, Comcore and Aegis

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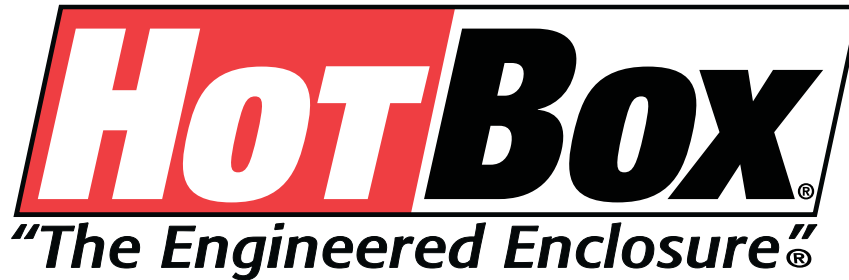
HOT BOX The Engineered Enclosure



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ASSE Certified



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Catalog Registration Form

Please fill out and mail the card below to assure receipt of periodic updated HOT BOX® literature.

REGISTERED

By _____

Date _____

Company _____

Address _____

City & State _____ Zip _____

Name & Position _____

Telephone # _____ Fax # _____

- Architect Engineer Utility Distributor
 Contractor Municipality Other

Registration only: () Catalog updates mailed as applicable

- Request: () Confined spaces presentation () ASSE 1060 Presentation
() "Water Distribution Security" Presentation
() Local Rep Contact () Call to Discuss Pending Project
() CDR Vaults and Meter Boxes Information

Hot Box[®]
924 LANE AVENUE N
JACKSONVILLE, FLORIDA 32254

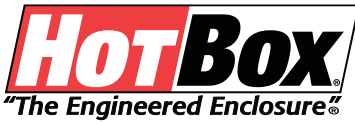


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Hot Box

The Engineered Enclosure



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Hot Box

The Engineered Enclosure That's Built To Last

ENCLOSURES FOR BACKFLOW PREVENTION ASSEMBLIES, PUMPS, METERS, CONTROL VALVES . . .



FREEZE AND VANDAL PROTECTION FOR WATER, FIRE SPRINKLER AND IRRIGATION SERVICE



"Built to Last in Any Environment"



The Hot Box ® is designed to enhance the installation of backflow prevention, pump, and sprinkler assemblies, pressure vacuum breakers, air release valves, etc. in the most economical, accessible location - outside, above ground. More and more designers, utilities, and contractors are putting the Backflow Preventer "at the curb" to eliminate the problems encountered in equipment rooms (no costly floor space, drainage constraints..) and pits (OSHA 29 CFR, parts 1910 flooding, accessibility ..)

Engineered features such as heater sizing (freeze protection), drain sizing, service access, and rigid construction make the Hot Box ® the permanent solution to the problem of protecting your outdoor piping systems.

Hot Box ® is a Division of



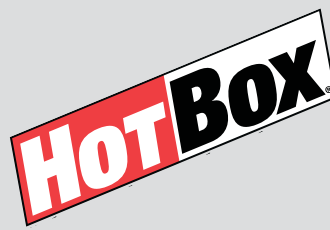
924 Lane Ave. N., Jacksonville, Florida 32254-2857
 Phone (904) 786-0204 - Toll Free (800) 736-0238
 Fax (904) 783-6965 Email: hotboxsales@hps.hubbell.com

Hot Box ®, EZ Box ®, & Hot Rok ® products through the HB10ES are ASSE 1060 Certified .

Hot Box ® "THE ENGINEERED ENCLOSURE"®

MEMBERS OF: AWWA, ABPA, ASPE, ASSE, AFSA, NFSA & USC FOUNDATION
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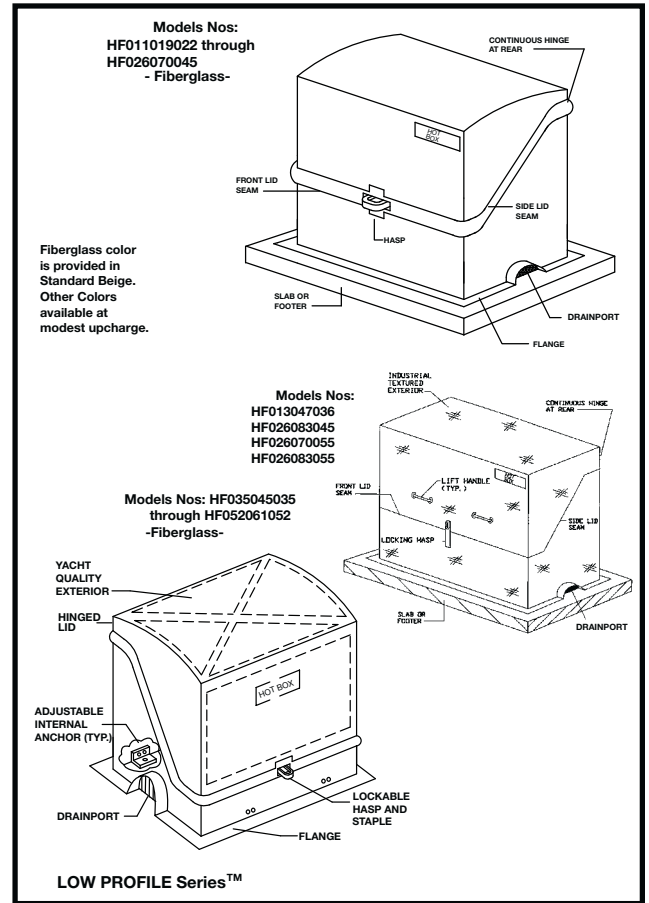
HEATED "ORIGINAL"

FLIP TOP FIBERGLASS ENCLOSURES:

SPECIFICATION:

The enclosure, certified to ASSE 1060, shall be of min. 1/8" tk. thixotropic polyester resin reinforced with fiberglass strand. Molded exteriors will be a smooth, yacht quality finish, protected w/UV inhibited isophthalic polyester gel coat. Non-molded products will utilize an "industrial" exterior texture, with the same gel coated finish. Insulation shall be min. 1 1/4" tk. (R8), uni-cellular, non-wicking, polyisocyanate foam. Enclosure shall utilize a lockable flip top design, for maintenance access through lid without removal of the entire unit. Molded product shall utilize an overlapping lid seam design for weather proofing and vandal resistance. Drains shall be sized for full port backflow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASSPAD™ from within the enclosure w/steel anchors and require a single lock for security purposes.

Heat will protect the piping and equipment from exterior temperatures to -30°F and be thermostatically controlled. UL or ETL listed self-regulating cable(s) or wall mounted air heater(s) will be sized to maintain the equipment at +40°F, in accordance with N.F.P.A. 3-3.1.8 & 3-6.1.3.2. Heat source shall be mounted a minimum of 7" above the slab unless it is UL or ETL certified and NEC approved for submersion. Power source shall be installed inside the enclosure by others, protected with a ground fault interrupting receptacle (GFI) or GFI circuit – ref. UL 943, N.E.M.A.3R.



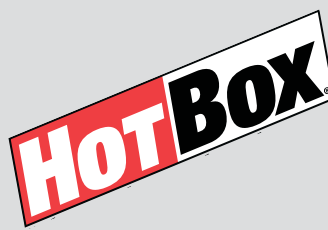
Hot Box w/ Heat	Old Hot Box w/Heat	Inside Width	Inside Length	Inside Height	Heat	Shipping Weight	Pad Size	GlassPad	Old GlassPad No.
HF011019022	HB.75	11	19	22	30W	30#	28 x 20	GG019027005	GP.75
HF013027023	HB1	13	27	23	60W	40#	36 x 22	GG021035005	GP1
HF013027035	HB1T	13	27	35	60W	50#	36 x 22	GG021035005	GP1
HF021033025	HB1.5	21	33	25	60W	60#	44 x 32	GG030042005	GP1.5
HF013039028	HB2	13	39	28	90W	55#	50 x 24	GG021047005	GP2
HF013039036	HB2T	13	39	36	90W	65#	50 x 24	GG021047005	GP2
HF013047028	HB2S	13	47	28	90W	70#	58 x 24	N/A	N/A
HF013047036	HB2ST	13	47	36	90W	100#	58 x 24	N/A	N/A
HF026070045	HB3N	26	70	45	1000W	285#	82 x 38	N/A	N/A
HF026083045	HB3NS	26	83	45	1500W	365#	95 x 38	N/A	N/A
HF026070055	HB3E	26	70	55	1500W	375#	82 x 38	N/A	N/A
HF026083055	HB3ES	26	83	55	1500W	395#	95 x 38	N/A	N/A
HL035045035	HB3000	35	45	35	1000W	265#	57 x 47	GG046055005	GP3000
HL044053044	HB4000	44	53	44	1000W	290#	65 x 56	GG055063005	GP4000
HL052061052	HB5000	52	61	52	1500W	455#	74 x 64	GG063074005	GP5000

OPTIONS:						
OPTION	TYPE	SIZE	PHASE	VOLTAGE	QUANTITY	
COLOR						
VENT(S)						
EXHAUST						
ALARM						
ALARM						
HEAT						
LIGHT(S)						
OTHER						

MEMBERS OF:



Job Name _____ Contractor _____
 Job Location _____ Approval _____ Date: _____
 Engineer _____ Contractor's P.O. No. _____
 Approval _____ Date: _____ Representative _____



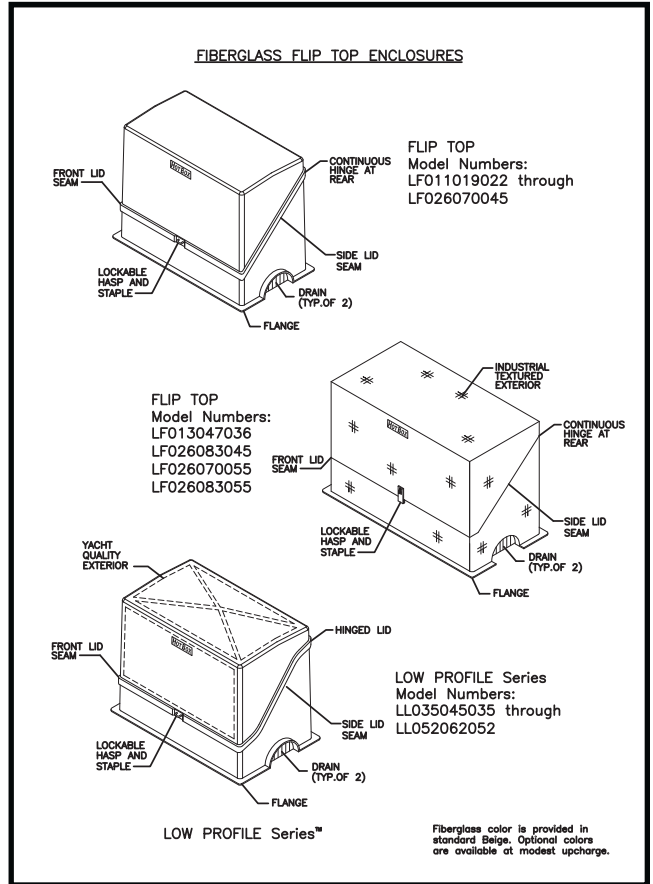
UNHEATED INSULATED

FLIP TOP FIBERGLASS ENCLOSURES:

SPECIFICATION:

The enclosure, certified to ASSE 1060, shall be of min. 1/8" tk. thixotropic polyester resin reinforced with fiberglass strand. Molded exteriors will be a smooth, yacht quality finish, protected w/UV inhibited isophthalic polyester gel coat. Non-molded products will utilize an "industrial" exterior texture, with the same gel coated finish. Insulation shall be min. 1 1/4" tk. (R8), uni-cellular, non-wicking, polyisocyanate foam. Enclosure shall utilize a lockable flip top design, for maintenance access through lid without removal of the entire unit. Molded product shall utilize an overlapping lid seam design for weather proofing and vandal resistance. Drains shall be sized for full port backflow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASSPAD™ from within the enclosure w/steel anchors and require a single lock for security purposes.

NOTE: Please see page 1 for heated models.



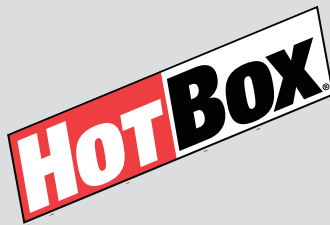
Lok Box w/No Heat	Old Lok Box w/No Heat	Inside Width	Inside Length	Inside Height	Shipping Weight	Pad Size	GlassPad	Old GlassPad No.
LF011019022	LB.75	11	19	22	30#	28 x 20	GG019027005	GP.75
LF013027023	LB1	13	27	23	40#	36 x 22	GG021035005	GP1
LF013027035	LB1T	13	27	35	50#	36 x 22	GG021035005	GP1
LF021033025	LB1.5	21	33	25	60#	44 x 32	GG030042005	GP1.5
LF013039028	LB2	13	39	28	55#	50 x 24	GG021047005	GP2
LF013039036	LB2T	13	39	36	65#	50 x 24	GG021047005	GP2
LF013047028	LB2S	13	47	28	70#	58 x 24	N/A	N/A
LF013047036	LB2ST	13	47	36	100#	58 x 24	N/A	N/A
LF026070045	LB3N	26	70	45	275#	82 x 38	N/A	N/A
LF026083045	LB3NS	26	83	45	355#	95 x 38	N/A	N/A
LF026070055	LB3E	26	70	55	365#	82 x 38	N/A	N/A
LF026083055	LB3ES	26	83	55	385#	95 x 38	N/A	N/A
LL035045035	LB3000	35	45	35	265#	57 x 47	GG046055005	GP3000
LL044053044	LB4000	44	53	44	290#	65 x 56	GG055063005	GP4000
LL052061052	LB5000	52	61	52	455#	74 x 64	GG063074005	GP5000

OPTIONS:					
OPTION	TYPE	SIZE	PHASE	VOLTAGE	QUANTITY
COLOR					
VENT(S)					
EXHAUST					
ALARM					
HEAT					
LIGHT(S)					
OTHER					

MEMBERS OF:



Job Name _____ Contractor _____
 Job Location _____ Approval _____ Date: _____
 Engineer _____ Contractor's P.O. No. _____
 Approval _____ Date: _____ Representative _____

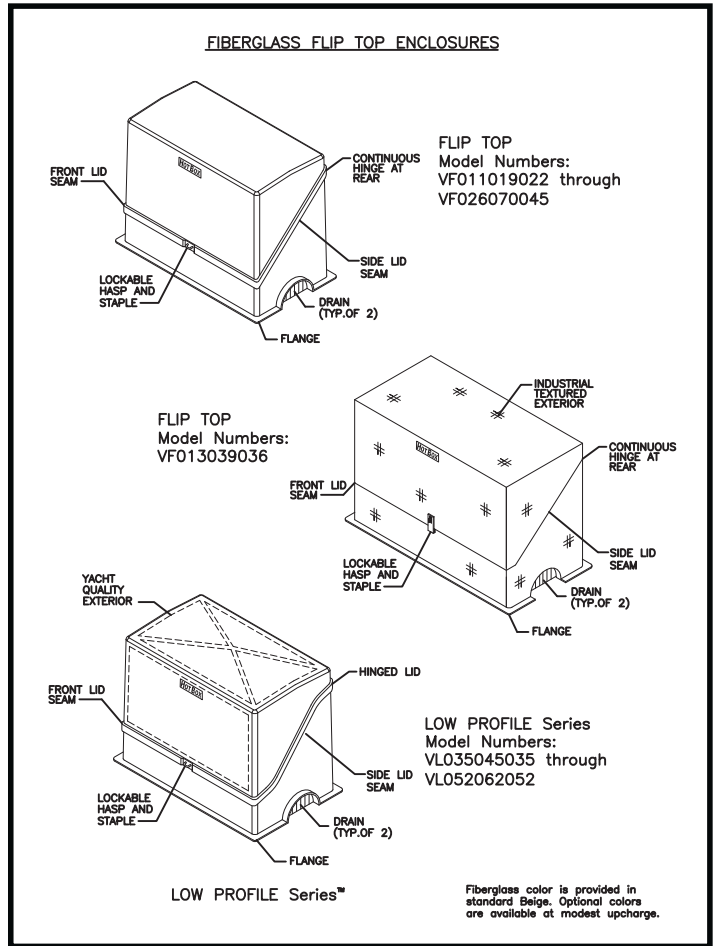


NO HEAT/NO INSULATION

FLIP TOP FIBERGLASS ENCLOSURES:

SPECIFICATION:

The enclosure, certified to ASSE 1060, shall be of min. 1/8" tk. thixotropic polyester resin reinforced with fiberglass strand. Molded exteriors will be a smooth, yacht quality finish, protected w/UV inhibited isophthalic polyester gel coat. Non-molded products will utilize an "industrial" exterior texture, with the same gel coated finish. Enclosure shall utilize a lockable flip top design, for maintenance access through lid without removal of the entire unit. Molded product shall utilize an overlapping lid seam design for weather proofing and vandal resistance. Drains shall be sized for full port backflow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASSPAD™ from within the enclosure w/steel anchors and require a single lock for security purposes.

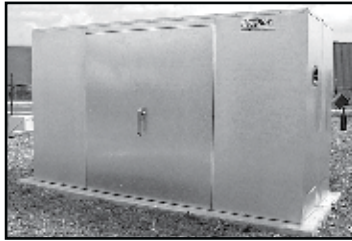
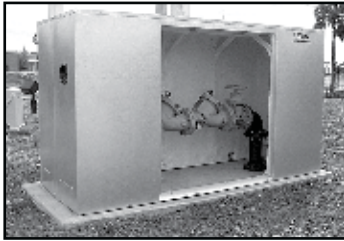
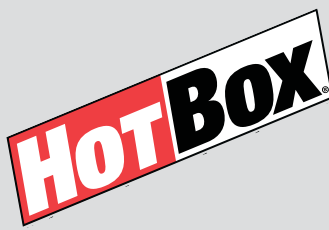


Valve Guard No Insul.	Old Valve Guard No Insul.	Inside Width	Inside Length	Inside Height	Shipping Weight	Pad Size	GlassPad	Old GlassPad No.
VF011019022	VG.75	13	21	23	21#	28 x 20	GG019027005	GP.75
VF013027023	VG1	15	29	24	31#	36 x 22	GG021035005	GP1
VF013027035	VG1T	15	29	36	41#	36 x 22	GG021035005	GP1
VF021033025	VG1.5	23	35	26	46#	44 x 32	GG030042005	GP1.5
VF013039028	VG2	15	41	29	45#	50 x 24	GG021047005	GP2
VF013039036	VG2T	15	41	37	56#	50 x 24	GG021047005	GP2
VF013047028	VG2S	15	49	29	51#	58 x 24	N/A	N/A
VF026070045	VG3N	29	73	46	270#	82 x 38	N/A	N/A
VL035045035	VG3000	38	48	36	220#	57 x 47	GG046055005	GP3000
VL044053044	VG4000	47	56	45	270#	65 x 56	GG055063005	GP4000
VL052061052	VG5000	55	64	53	410#	74 x 64	GG063074005	GP5000

OPTIONS:						
OPTION	TYPE	SIZE	PHASE	VOLTAGE	QUANTITY	
COLOR						
VENT(S)						
EXHAUST						
ALARM						
HEAT						
LIGHT(S)						
OTHER						



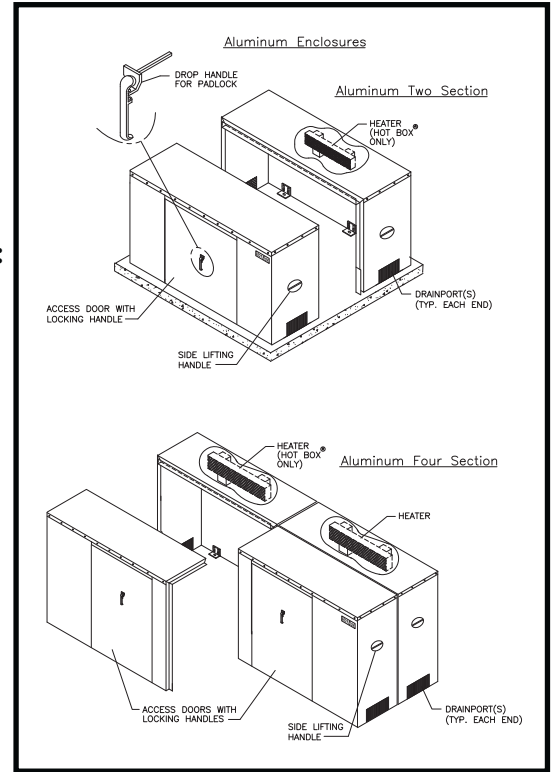
Job Name _____ Contractor _____
 Job Location _____ Approval _____ Date: _____
 Engineer _____ Contractor's P.O. No. _____
 Approval _____ Date: _____ Representative _____



**2 & 4 PIECE SECTIONAL ALUMINUM HEATED ENCLOSURES:
 SPECIFICATION:**

The enclosure, certified to ASSE 1060, shall be of min. .050" tk. reinforced stucco embossed aluminum sheeting (some optional at 1/8" tk.), providing access through removable doors and being totally removable for maintenance purposes. A modular design with a max. of four "tongue and groove" sections required; with no panels requiring jobsite assembly allowed. Wood or "particle board" framing shall be cause for rejection. Insulation shall be min. 1 1/2" tk. (R10), unicellular, non-wicking, polyisocyanate, sprayed in place (not glued or pinned) to form a monolithic bond with metal framing and skin. Drains shall be sized for full port backflow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASSPAD™ from within the enclosure with steel anchors and be lockable for security purposes.

Heat will protect the piping and equipment from exterior temperatures to -30°F and be thermostatically controlled. UL or ETL listed self-regulating cables(s) or wall mounted air heater(s) will be sized to maintain the equipment at +40°F, in accordance with N.F.P.A. 3-3.1.8 & 3-6.1.3.2. Heat source shall be mounted a minimum of 7" above the slab unless it is UL or ETL certified and NEC approved for submersion. Power source shall be installed inside the enclosure by others, protected with a ground fault interrupting receptacle (GFI) or GFI circuit – ref. UL 943, N.E.M.A.3R.



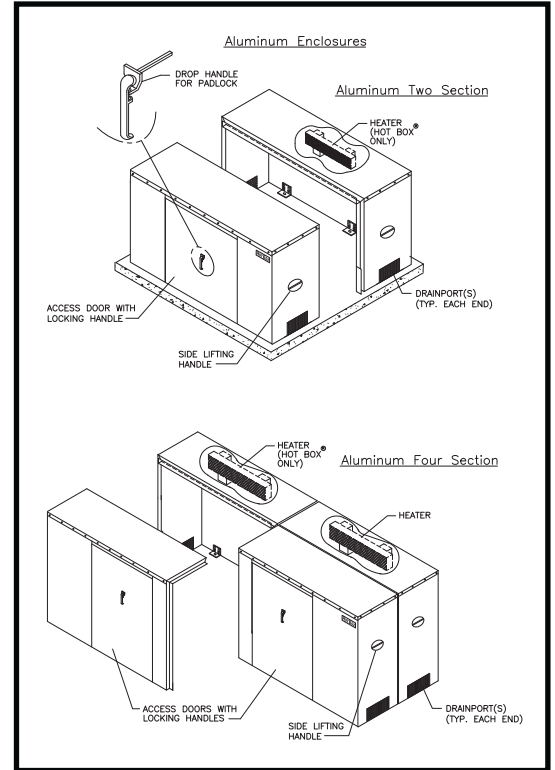
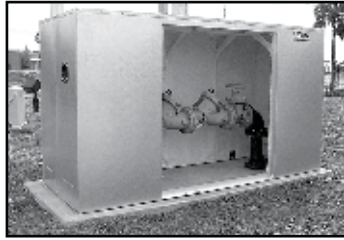
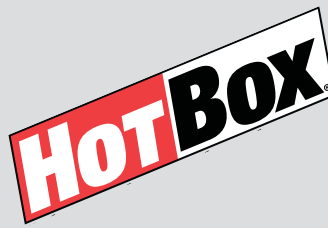
Hot Box w/Heat	Old Hot Box w/Heat	Inside Width	Inside Length	Inside Height	# of Sections	Heat	Shipping Weight	Pad Size	GlassPad	Old GlassPad No.
HA033053044	HB4000AN	33	53	44	2	1000W	280#	65 x 45	N/A	N/A
HA044053044	HB4000AE	44	53	44	2	1000W	340#	64 x 56	GG055063005	GP4000
HA039062046	HB6000AN	39	62	46	2	1500W	350#	74 x 51	N/A	N/A
HA053062046	HB6000AE	53	62	46	2	1500W	440#	74 x 65	GG063074005	GP5000
HA045073060	HB8000ANT	45	73	60	2	1900W	363#	85 x 57	N/A	N/A
HA067073060	HB8000AET	67	73	60	2	1900W	453#	85 x 79	N/A	N/A
HA032090051	HB4N	32	90	50.5	2	1900W	400#	102 x 44	N/A	N/A
HA032102051	HB4NS	32	102	50.5	2	1900W	415#	114 x 44	N/A	N/A
HA032090058	HB4E	32	90	57.5	2	1900W	435#	102 x 44	N/A	N/A
HA032102058	HB43S	32	102	57.5	2	1900W	425#	114 x 44	N/A	N/A
HA036105053	HB6N	36	105	53	2	1900W	480#	117 x 48	N/A	N/A
HA036125053	HB6NS	36	125	53	4	2/1500W	545#	137 x 48	N/A	N/A
HA036105064	HB6E	36	105	64	2	2/1500W	530#	117 x 48	N/A	N/A
HA036105080	HB6ET	36	105	80	2	2/1500W	551#	117 x 48	N/A	N/A
HA036125064	HB6ES	36	125	64	4	2/1500W	550#	137 x 48	N/A	N/A
HA040118058	HB8N	40	118	58	2	2/1500W	565#	130 x 52	N/A	N/A
HA040142058	HB8NS	40	142	58	4	2/1500W	585#	154 x 52	N/A	N/A
HA040118074	HB8E	40	118	74	2	2/1500W	625#	130 x 52	N/A	N/A
HA040142074	HB8ES	40	142	74	4	2/1900W	650#	154 x 52	N/A	N/A
HA042142065	HB10N	42	142	65	4	2/1500W	620#	154 x 54	N/A	N/A
HA042172065	HB10NS	42	172	65	4	2/1900W	685#	184 x 54	N/A	N/A
HA042142085	HB10E	42	142	85	4	2/1900W	700#	154 x 54	N/A	N/A
HA042172085	HB10ES	42	172	85	4	2/1900W	825#	184 x 54	N/A	N/A

OPTIONS:					
OPTION	TYPE	SIZE	PHASE	VOLTAGE	QUANTITY
COLOR					
VENT(S)					
EXHAUST					
ALARM					
ALARM					
HEAT					
LIGHT(S)					
OTHER					

MEMBERS OF:



Job Name _____ Contractor _____
 Job Location _____ Approval _____ Date: _____
 Engineer _____ Contractor's P.O. No. _____
 Approval _____ Date: _____ Representative _____



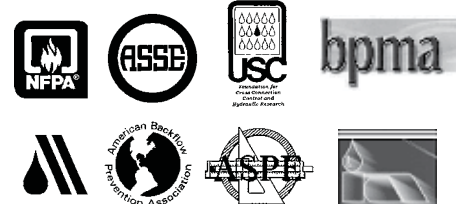
2 & 4 PIECE SECTIONAL ALUMINUM UNHEATED ENCLOSURES: SPECIFICATION:

The enclosure, certified to ASSE 1060, shall be of min. .050" tk. reinforced stucco embossed aluminum sheeting (some optional at 1/8" tk.), providing access through removable doors and being totally removable for maintenance purposes. A modular design with a max. of four "tongue and groove" sections required; with no panels requiring jobsite assembly allowed. Wood or "particle board" framing shall be cause for rejection. Insulation shall be min. 1 1/2" tk. (R10), unicellular, non-wicking, polyisocyanate, sprayed in place (not glued or pinned) to form a monolithic bond with metal framing and skin. Drains shall be sized for full port back-flow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASSPAD™ from within the enclosure with steel anchors and be lockable for security purposes.

Lok Box w/No Heat	Old Lok Box w/Heat	Inside Width	Inside Length	Inside Height	# of Sections	Shipping Weight	Pad Size	GlassPad	Old GlassPad No.
LA033053044	LB4000AN	33	53	44	2	280#	65 x 45	N/A	N/A
LA044053044	LB4000AE	44	53	44	2	340#	64 x 56	GG055063005	GP4000
LA039062046	LB6000AN	39	62	46	2	350#	74 x 51	N/A	N/A
LA053062046	LB6000AE	53	62	46	2	440#	74 x 65	GG063074005	GP5000
LA045073060	LB8000ANT	45	73	60	2	363#	85 x 57	N/A	N/A
LA067073060	LB8000AET	67	73	60	2	453#	85 x 79	N/A	N/A
LA032090051	LB4N	32	90	50.5	2	400#	102 x 44	N/A	N/A
LA032102051	LB4NS	32	102	50.5	2	415#	114 x 44	N/A	N/A
LA032090058	LB4E	32	90	57.5	2	435#	102 x 44	N/A	N/A
LA032102058	LB43S	32	102	57.5	2	425#	114 x 44	N/A	N/A
LA036105053	LB6N	36	105	53	2	480#	117 x 48	N/A	N/A
LA036125053	LB6NS	36	125	53	4	545#	137 x 48	N/A	N/A
LA036105064	LB6E	36	105	64	2	530#	117 x 48	N/A	N/A
LA036105080	LB6ET	36	105	80	2	551#	117 x 48	N/A	N/A
LA036125064	LB6ES	36	125	64	4	550#	137 x 48	N/A	N/A
LA040118058	LB8N	40	118	58	2	565#	130 x 52	N/A	N/A
LA040142058	LB8NS	40	142	58	4	585#	154 x 52	N/A	N/A
LA040118074	LB8E	40	118	74	2	625#	130 x 52	N/A	N/A
LA040142074	LB8ES	40	142	74	4	650#	154 x 52	N/A	N/A
LA042142065	LB10N	42	142	65	4	620#	154 x 54	N/A	N/A
LA042172065	LB10NS	42	172	65	4	685#	184 x 54	N/A	N/A
LA042142085	LB10E	42	142	85	4	700#	154 x 54	N/A	N/A
LA042172085	LB10ES	42	172	85	4	825#	184 x 54	N/A	N/A

OPTIONS:					
OPTION	TYPE	SIZE	PHASE	VOLTAGE	QUANTITY
COLOR					
VENT(S)					
EXHAUST					
ALARM					
HEAT					
LIGHT(S)					
OTHER					

MEMBERS OF:



Job Name _____ Contractor _____
 Job Location _____ Approval _____ Date: _____
 Engineer _____ Contractor's P.O. No. _____
 Approval _____ Date: _____ Representative _____

Bulletin No. 55: Hot Box Installation Guidelines

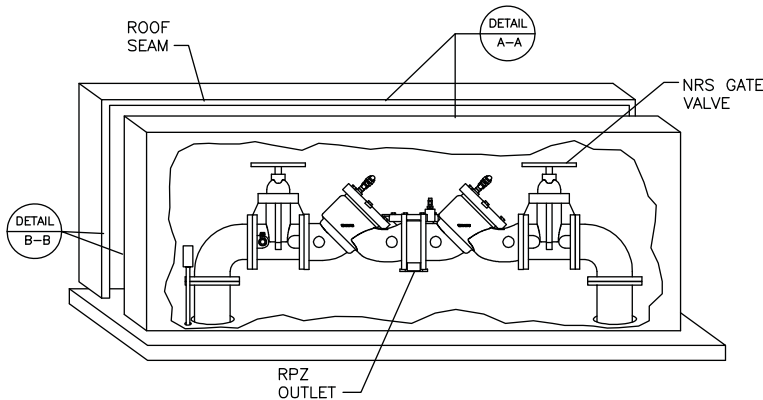
1. Provide applicable GFI protected power, UL STND. 943-NEMA 3R, inside enclosure requiring heat. Mount at least 6" above any water discharge point and near the pipe riser on the enclosure access side – or – per local codes.
2. Pour a full concrete slab 4" thick around valve, allowing a minimum 1" radial space between valve risers and slab.
OR
Pour a 12" wide x 4" deep footer around the valve.
3. Place Hot Box over valve onto slab or footer – sectional BOXES should be completely assembled before proceeding.

CAUTION

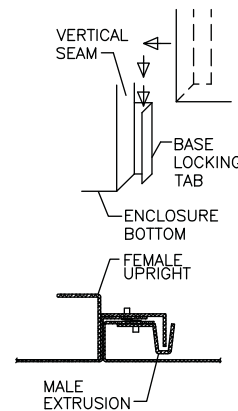
Note tongue and groove joints in roof and vertical seams of aluminum enclosures.

CAUTION

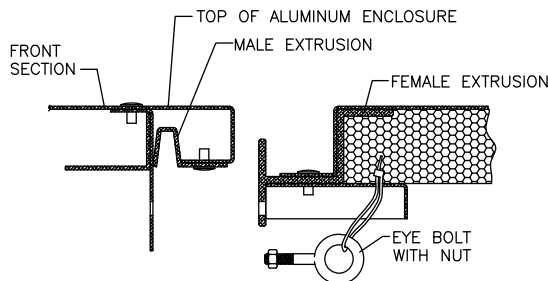
- A. Eye bolts, inside aluminum enclosures on roof seam, must be secured to lock sections together.
4. Use a masonry bit to drill through the base mounting brackets.
 - A. Insert wedge anchors and bolt firmly to concrete.
 - B. Tighten slotted anchors on aluminum and fiberglass enclosures (which allow vertical adjustment for uneven concrete slabs).
5. For BOXES using self regulating heat trace tape heat source, secure tape to valve with wire ties or fiberglass tape. No covering is necessary. The Hot Box provides the necessary insulation.
6. Plug the heat source into the specified circuit, after verifying proper voltage and amps.
7. Secure locks, removable penetration plates and Siamese connection boots, where applicable.



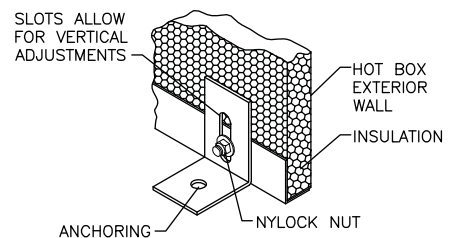
NOTE: HEAT TRACE TAPE SHALL BE INSTALLED IN SMALLER ENCLOSURES.



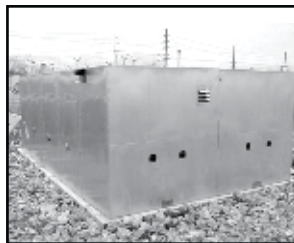
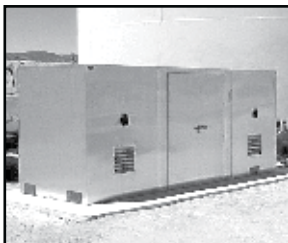
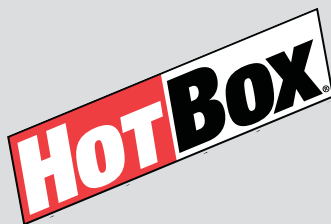
SECURING THE SIDE SEAM
DETAIL B-B



SECURING THE TOP SEAM
DETAIL A-A



ALUMINUM AND FIBERGLASS ENCLOSURE ANCHORING
DETAIL C-C

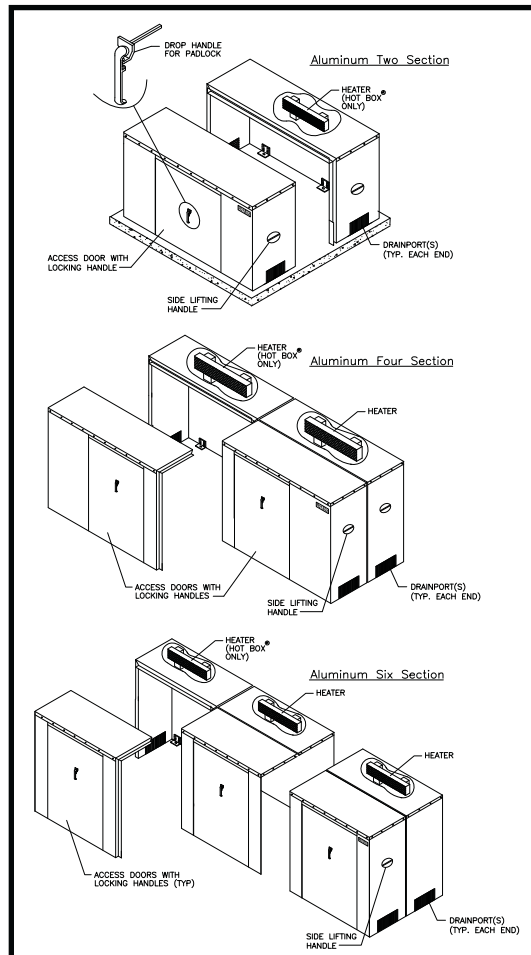


**LARGE SECTIONAL ALUMINUM HEATED ENCLOSURES:
 SPECIFICATION:**

The enclosure, certified to ASSE 1060*, shall be of min. .050" tk. reinforced stucco embossed aluminum sheeting (with optional .063" tk.), providing access through removable doors and being totally removable for maintenance purposes. A modular design with "tongue and groove" sections is required; with no panels requiring jobsite assembly allowed. In four or more piece enclosures over 70" wide, sections shall be secured together with mechanical "roto locks" of latch and receptacle configuration. Wood or "particle board" framing shall be cause for rejection. Enclosures over 80" wide will utilize internal aluminum extruded roof beams the full width of the enclosure for support. Enclosures over 150" wide will utilize adjustable floor to roof support jacks in addition to the roof beams. Insulation shall be min. 1 1/2" tk. (R10), unicellular, non-wicking, polyisocyanate, sprayed in place (not glued or pinned) to form a monolithic bond with metal framing and skin. Drains shall be sized for full port backflow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab from within the enclosure with steel anchors and be lockable for security purposes.

Heat will protect the piping and equipment from exterior temperatures to -30°F and be thermostatically controlled. UL or ETL listed self-regulating cable(s) or wall mounted air heater(s) will be sized to maintain the equipment at +40°F, in accordance with N.F.P.A. 3-3.1.8 & 3-6.1.3.2. Heat source shall be mounted a minimum of 7" above the slab unless it is UL or ETL certified and NEC approved for submersion. Power source shall be protected with a ground fault interrupting receptacle, UL 943, N.E.M.A.3R, installed by others inside the enclosure.

*Maximum size for ASSE 1060 certified enclosure is 172" IL x 87" IW x 85" IH. Enclosures larger than these dimensions are constructed in the same manner and design as the certified enclosures, but have not been lab tested and listed by ASSE.



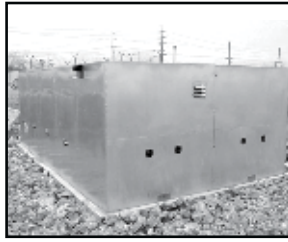
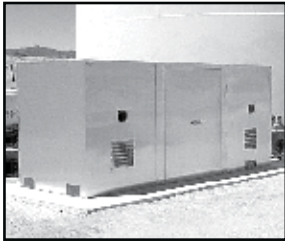
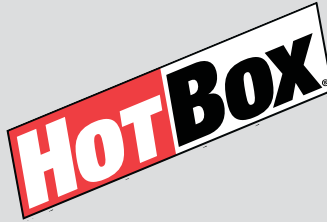
Hot Box w/Heat	Old Hot Box w/Heat	Inside Width	Inside Length	Inside Height	# of Sections	Roto Locks	Roof Truss	Heat	Shipping Weight	Pad Size
HA055074057	HB3ED	55	74	57	2	X	X	2/1000W	510#	86 x 67
HA055085057	HB3EDS	55	85	57	2	X	X	2/1000W	585#	97 x 67
HA067090051	HB4ND	67	90	51	2	X	X	2/1500W	610#	102 x 79
HA067102067	HB4NDS	67	102	67	2	X	X	2/1500W	645#	114 x 79
HA067090058	HB4ED	67	90	58	2	X	X	2/1500W	640#	102 x 79
HA067102058	HB4EDS	67	102	58	2	X	X	2/1500W	650#	114 x 79
HA071105053	HB6ND	71	105	53	4	✓	X	2/1500W	665#	117 x 83
HA071125053	HB6NDS	71	125	53	4	✓	X	2/1500W	700#	137 x 83
HA071105064	HB6ED	71	105	64	4	✓	X	2/1500W	680#	117 x 83
HA071125064	HB6EDS	71	125	64	4	✓	X	2/1500W	740#	137 x 83
HA083123058	HB8ND	83	123	58	4	✓	✓	2/1900W	711#	130 x 95
HA083145058	HB8NDS	83	145	58	4	✓	✓	2/1900W	801#	154 x 95
HA083123074	HB8ED	83	123	74	4	✓	✓	2/1900W	849#	130 x 95
HA083145074	HB8EDS	83	145	74	4	✓	✓	2-1.5+2-1	954#	154 x 95
HA087144065	HB10ND	87	144	65	4	✓	✓	2-1.5+2-1	888#	154 x 99
HA087172065	HB10NDS	87	172	65	4	✓	✓	2-1.5+2-1	1200#	184 x 99
HA087144085	HB10ED	87	144	85	4	✓	✓	4/1500W	1300#	154 x 99
HA087172085	HB10EDS	87	172	85	4	✓	✓	4/1500W	1400#	184 x 99

OPTIONS:					
OPTION	TYPE	SIZE	PHASE	VOLTAGE	QUANTITY
COLOR					
VENT(S)					
EXHAUST					
ALARM					
ALARM					
HEAT					
LIGHT(S)					
ALUM. GAUGE					
FLOOR JACKS					
OTHER					

MEMBERS OF:



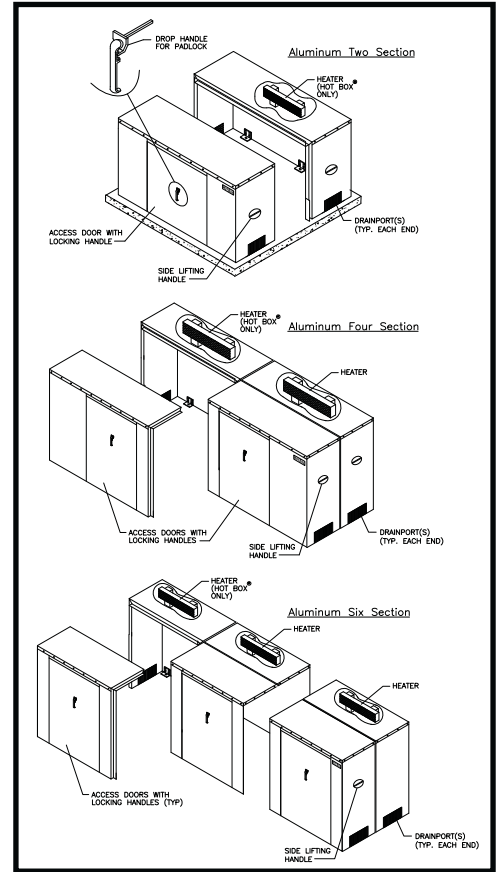
Job Name _____ Contractor _____
 Job Location _____ Approval _____
 Engineer _____ Contractor's P.O. No. _____
 Approval _____ Representative _____



LARGE SECTIONAL ALUMINUM UNHEATED ENCLOSURES: SPECIFICATION:

The enclosure, certified to ASSE 1060*, shall be of min. .050" tk. reinforced stucco embossed aluminum sheeting (with optional .063" tk.), providing access through removable doors and being totally removable for maintenance purposes. A modular design with "tongue and groove" sections is required; with no panels requiring jobsite assembly allowed. In four or more piece enclosures over 70" wide, sections shall be secured together with mechanical "roto locks" of latch and receptacle configuration. Wood or "particle board" framing shall be cause for rejection. Enclosures over 80" wide will utilize internal aluminum extruded roof beams the full width of the enclosure for support. Enclosures over 150" wide will utilize adjustable floor to roof support jacks in addition to the roof beams. Insulation shall be min. 1 1/2" tk. (R10), unicellular, non-wicking, polyisocyanate, sprayed in place (not glued or pinned) to form a monolithic bond with metal framing and skin. Drains shall be sized for full port backflow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab from within the enclosure with steel anchors and be lockable for security purposes.

*Maximum size for ASSE 1060 certified enclosure is 172" IL x 87" IW x 85" IH. Enclosures larger than these dimensions are constructed in the same manner and design as the certified enclosures, but have not been lab tested and listed by ASSE.



Lok Box w/No Heat	Old Lok Box w/No Heat	Inside Width	Inside Length	Inside Height	# of Sections	Roto Locks	Roof Truss	Shipping Weight	Pad Size
LA055074057	LB3ED	55	74	57	2	X	X	510#	86 x 67
LA055085057	LB3EDS	55	85	57	2	X	X	570#	97 x 67
LA067090051	LB4ND	67	90	51	2	X	X	610#	102 x 79
LA067102067	LB4NDS	67	102	67	2	X	X	645#	114 x 79
LA067090058	LB4ED	67	90	58	2	X	X	585#	102 x 79
LA067102058	LB4EDS	67	102	58	2	X	X	645#	114 x 79
LA071105053	LB6ND	71	105	53	4	✓	X	665#	117 x 83
LA071125053	LB6NDS	71	125	53	4	✓	X	700#	137 x 83
LA071105064	LB6ED	71	105	64	4	✓	X	680#	117 x 83
LA071125064	LB6EDS	71	125	64	4	✓	X	740#	137 x 83
LA083123058	LB8ND	83	123	58	4	✓	✓	711#	130 x 95
LA083145058	LB8NDS	83	145	58	4	✓	✓	801#	154 x 95
LA083123074	LB8ED	83	123	74	4	✓	✓	849#	130 x 95
LA083145074	LB8EDS	83	145	74	4	✓	✓	954#	154 x 95
LA087144065	LB10ND	87	144	65	4	✓	✓	888#	154 x 99
LA087172065	LB10NDS	87	172	65	4	✓	✓	1200#	184 x 99
LA087144085	LB10ED	87	144	85	4	✓	✓	1300#	154 x 99
LA087172085	LB10EDS	87	172	85	4	✓	✓	1400#	184 x 99

OPTIONS:					
OPTION	TYPE	SIZE	PHASE	VOLTAGE	QUANTITY
COLOR					
VENT(S)					
EXHAUST					
ALARM					
ALARM					
HEAT					
LIGHT(S)					
ALUM. GAUGE					
FLOOR JACKS					
OTHER					

MEMBERS OF:



Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

Bulletin No. 55L: Hot Box Installation Guidelines

1. Provide applicable GFI protected power, UL STND. 943-NEMA 3R, inside enclosure requiring heat. Mount at least 6" above any water discharge point and near the pipe riser on the enclosure access side – or – per local codes.
2. Pour a full concrete slab 4" thick around valve, allowing a minimum 1" radial space between valve risers and slab.

OR

Pour a 12" wide x 4" deep footer around the valve.

A. Slab should be at least 4" greater than enclosure in length and width.

3. Place Hot Box over valve onto slab or footer – sectional BOXES should be completely assembled before proceeding.

CAUTION

Note tongue and groove joints in roof and vertical seams of aluminum enclosures. (Details "A-A" and "B-B")

CAUTION

A. Eye bolts, inside aluminum enclosures on roof seam, must be secured to lock sections together (Detail "A-A").

4. Secure vertical and roof seams with Roto-Loks where applicable (Detail "C-C").

5. Install and secure interior roof channel beams where applicable (Detail "D-D").

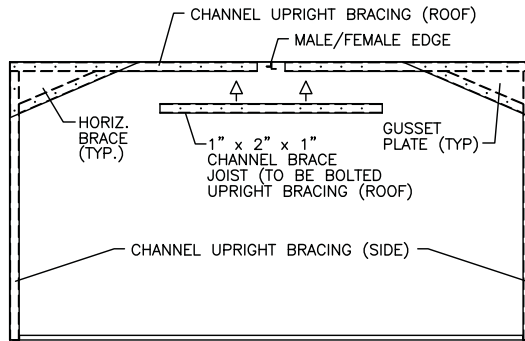
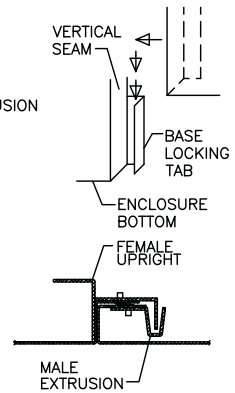
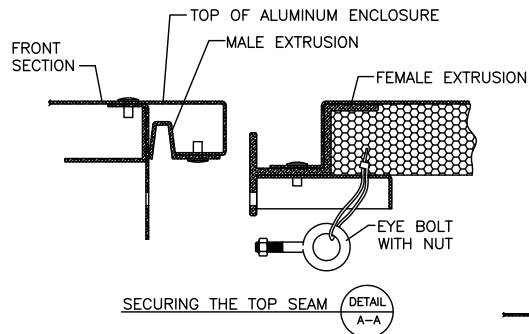
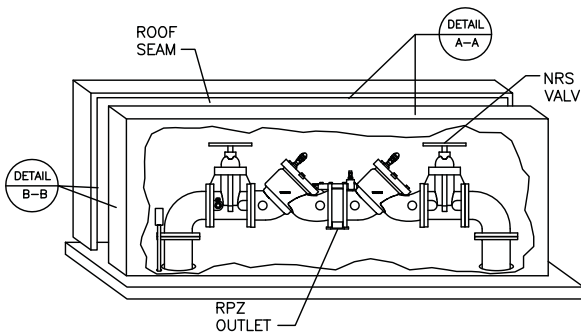
6. Use a masonry bit to drill through the base mounting brackets.

A. Insert wedge anchors and bolt firmly to concrete.

B. Tighten slotted anchors on aluminum and fiberglass enclosures (which allow vertical adjustment for uneven concrete slabs).

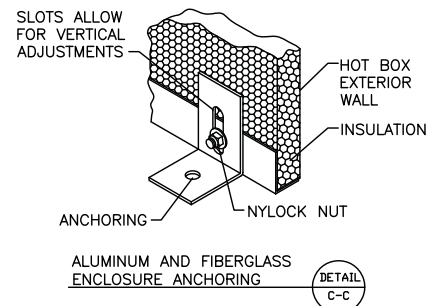
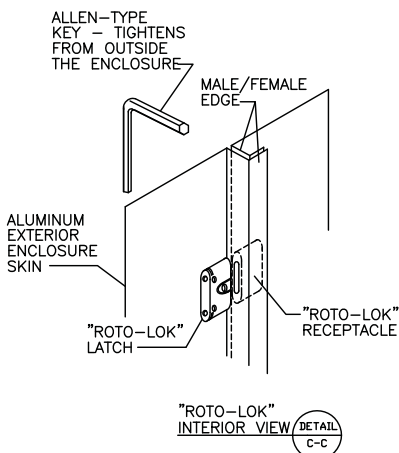
7. Plug the heat source into the specified circuit, after verifying proper voltage and amps.

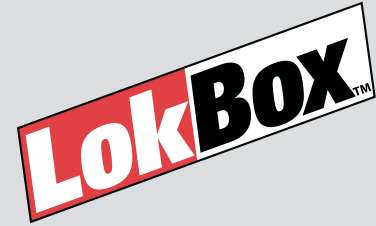
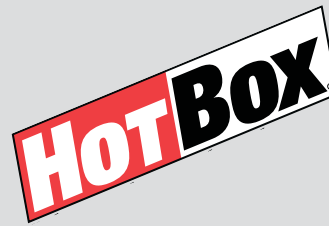
8. Secure locks, removable penetration plates and Siamese connection boots, where applicable.



NOTE: JOIST IS USED WHERE WIDTH OF ROOF EXCEEDS 40" PER HALF. ENCLOSURES HAVING LESS WIDTH SHALL UTILIZE ANGLE TYPE BRACING WITHOUT THE JOIST SUPPORT.

ROOF JOIST AND BRACING (DETAIL D-D)



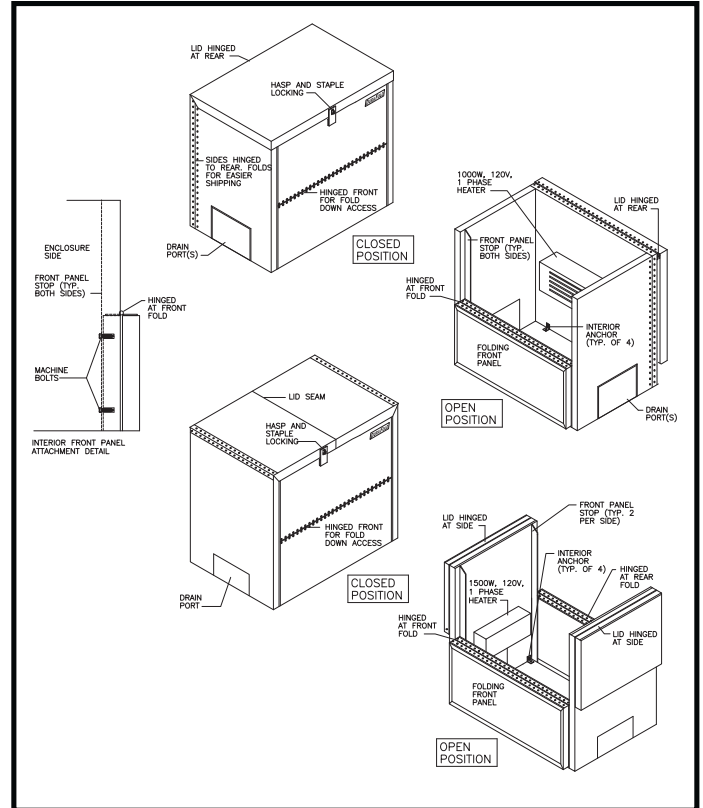


2 - PIECE HINGED / FOLDING ALUMINUM ENCLOSURES:

SPECIFICATION:

The enclosure, certified to ASSE 1060, shall be of min. .050" tk. reinforced stucco embossed aluminum sheeting (optional on some up to 1/8" tk. smooth), providing access through flip back roof and front section and being totally removable for maintenance purposes. A hinged / folding design with a max. of two sections and four (4) bolts required; with no panels requiring job-site assembly allowed. Wood or "particle board" framing shall be cause for rejection. Insulation shall be min. 1-1/2" tk. (R10), uni-cellular, non-wicking, polyisocyanate, sprayed in place (not glued or pinned) to form a monolithic bond with metal framing and skin. Drains shall be sized for full port backflow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GlassPad™ from within the enclosure w/steel anchors and be lockable for security purposes.

Heat will protect the piping and equipment from exterior temperatures to -30° F and be thermostatically controlled. UL or ETL listed thermostatically controlled wall mounted air heater(s) or heat cable will be sized to maintain the equipment at +40°F, in accordance with N.F.P.A. 3-3.1.8 & 3-6.1.3.2. Heat source and electrical supply shall be mounted a minimum of 7" above the slab unless it is UL or ETL certified and NEC approved for submersion. Power source shall be protected with a ground fault interrupting receptacle, U.L. 943, N.E.M.A.3R, or circuit installed by others inside the enclosure.



Hot Box w/ Heat	Old Hot Box w/Heat	Lok Box w/ No Heat	Old Lok Box w/No Heat	Inside Width	Inside Length	Inside Height	# of Sections	Heat	Shipping Weight	Pad Size
HD024039032	DF2000H	LD024039032	DF2000L	24	39	32	2	90W	120#	51 x 36
HD022060030	DF2.5H	LD022060030	DF2.5L	22	60	30	2	(2) 90W	100#	72 x 34
HD022060042	DF2.75H	LD022060042	DF2.75L	22	60	42	2	(2) 90W	140#	72 x 34
HD032037035	DFS4F0H	LD032037035	DFS4F0L	32	37	35	2	1500W	170#	49 x 44
HD037043040	DFS6F0H	LD037043040	DFS6F0L	37	43	40	2	1500W	205#	55 x 49
HD026070045	DF3NH	LD026070045	DF3NL	26	70	45	2	1000W	210#	82 x 38
HD026070055	DF3EH	LD026070055	DF3EL	26	70	55	2	1500W	258#	82 x 38
HD033053044	DF4000H	LD033053044	DF4000L	33	53	44	2	1000W	275#	65 x 45
HD030090051	DF4NH	LD030090051	DF4NL	30	90	51	2	1900W	370#	102 x 44
HD032090058	DF4EH	LD032090058	DF4EL	32	90	58	2	1900W	400#	102 x 44

OPTIONS:					
OPTION	TYPE	SIZE	PHASE	VOLTAGE	QUANTITY
COLOR					
VENT(S)					
EXHAUST					
ALARM					
HEAT					
LIGHT(S)					
OTHER					

MEMBERS OF:



Job Name _____ Contractor _____
 Job Location _____ Approval _____ Date _____
 Engineer _____ Contractor's P.O. No. _____
 Approval _____ Date: _____ Representative _____

Enclosures. Made Easy.



What's in a name? Introducing DURA FOLD[®], a new product from the enclosure innovators at HOT BOX[®] that's "flat-out" different. Like all of our enclosures, it offers durable, superior protection for your above-ground valves, meters and pumps. However, it ships and stores flat and can be erected even more quickly than our modular enclosures. It's just another way we're creating innovative products that make it easy for you to protect your equipment — and tough for the people who'd like to get their hands on it. You might say that progress is unfolding before your eyes at DURA FOLD. To learn more, call 800.736.0238, visit us at hot-box.com or e-mail us at hotboxsales@hps.hubbell.com.

DURA FOLD[®]
The Engineered Enclosure[®]

DESIGNER SERIES™

INSULATED VALVE & PUMP ENCLOSURES

This functionally aesthetic enclosure is crafted to meet the design requirements for the protection and security of valves, pumps and meters installed outside, above ground.



Designed to Cover:

- Backflow Preventers
- Pumps
- Meters
- Air Valves
- Control Valves



Benefits:

- ASSE 1060 Certified
- "Size Engineered" For 4" thru 10" Valves
- Aesthetic Design For Outdoor Installations
- Minimal Installation Procedures



Features:

- Yacht Quality Fiberglass
- Front and Rear Door Access
- Doors Mounted On "Lift Off" Hinges
- Internal Locks On Both Doors
- Gas Spring Roof Supports
- Spray Foam Insulated
- Designer Inlays For Strength and Appearance



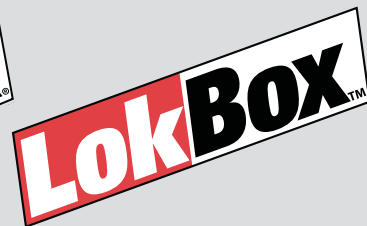
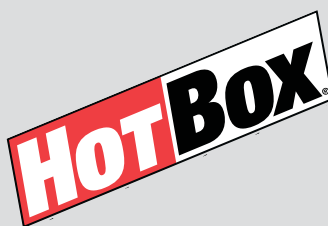
Available:

- Heated (HB)
- Unheated (LB)
- Colors
- Vents
- Exhaust Fan(s)
- Alarms

DESIGNER Series™ Data						
UNIT NO. w/HEAT	OLD UNIT NO. w/ HEAT	INSIDE WIDTH	INSIDE LENGTH	INSIDE HEIGHT	SHIPPING WT.	PAD SIZE
HM041041045	HB4FEM	41	41	45	275#	53 x 53
HM047047049	HB6FEM	47	47	49	315#	57 x 57
HM053053056	HB8FEM	53	53	56	350#	63 x 63
HM054062056	HB10FEM	54	62	56	500#	74 x 66



JACKSONVILLE, FL
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 (800) 736-0238
<http://www.hot-box.com>



MODULAR, FLIP TOP FIBERGLASS ENCLOSURES:

THE "DESIGNER SERIES™"



CERTIFIED

SPECIFICATION:

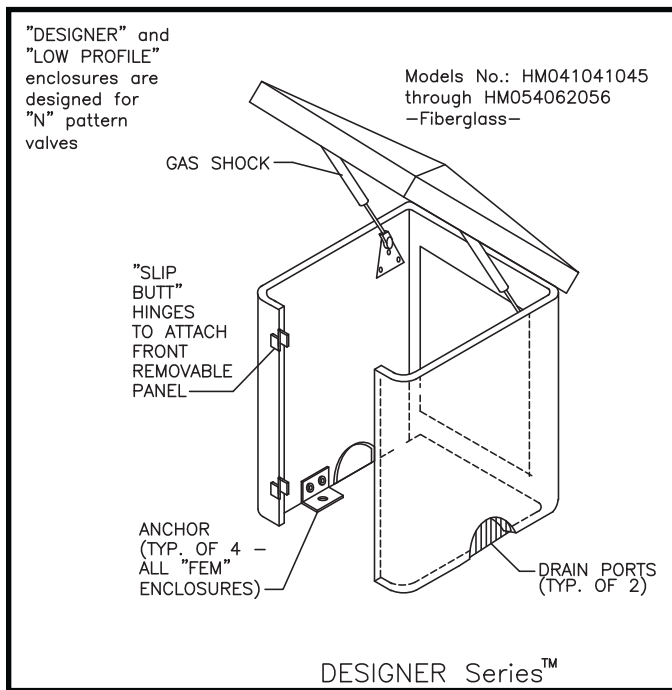
The enclosure, certified to ASSE 1060, shall be of min. 1/8" tk. thixotropic polyester resin reinforced w/fiberglass strand. Exterior will be finished w/UV inhibited isophthalic polyester gel coat, buffed to a smooth finish. Insulation shall be min. 1-1/2" tk. (R10), uni-cellular, non-wicking, polyisocyanate, frothed or sprayed in place (not glued or pinned). Drains shall be sized for full port backflow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab from within the enclosure w/steel anchors and be lockable for security purposes. Enclosure shall utilize a lockable gas spring flip top design and feature both front and rear removable access doors, for maintenance access through the enclosure w/o removal of the entire unit.

Heat, when required, will protect the piping and equipment from exterior temperatures to -30° F and be thermostatically controlled. UL or ETL listed self regulating cable(s) or wall mounted air heater(s) will be sized to maintain the equipment at +40°F, in accordance with N.F.P.A. 3-3.1.8 & 3-6.1.3.2. Heat source shall be mounted a minimum of 7" above the slab unless it is UL or ETL certified and NEC approved for submersion. Power source shall be protected with a ground fault interrupting receptacle, U.L. 943, N.E.M.A.3R, installed by others inside the enclosure.



• Single Door •
#4, 6 & 8

• Double Door •
#10



Unit No. w/ Heat	Old Unit No. w/Heat	Shipping Weight	Unit No. w/ Heat	Shipping Weight	Old Unit No. w/o Heat	Inside Width	Inside Length	Inside Height	Heat	Pad Size
HM041041045	HB4FEM	275#	LM041041045	265#	LB4FEM	41	41	45	1000W	53 x 53
HM047047049	HB6FEM	315#	LM047047049	300#	LB6FEM	47	47	49	1500W	57 x 57
HM053053056	HB8FEM	350#	LM053053056	335#	LB8FEM	53	53	56	1500W	63 x 63
HM054062056	HB10FEM	500#	LM054062056	485#	LB10FEM	54	62	56	1900W	74 x 66

OPTIONS:					
OPTION	TYPE	SIZE	PHASE	VOLTAGE	QUANTITY
COLOR					
VENT(S)					
EXHAUST					
ALARM					
ALARM					
HEAT					
LIGHT(S)					
OTHER					

MEMBERS OF:



Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

* UNINSULATED FIBERGLASS & PLASTIC ENCLOSURES *

* PROVEN PROTECTION FROM THE ELEMENTS AND VANDALISM *



Flip Top Units

SECURITY:

- Utilize in EPA's "Vulnerability Assessment"
- Protect Distribution Access
- Lockable Entry
- Alarms Available



Drop Over Units

AESTHETICS:

- Good Looking Protection
- Landscape Friendly
- No Rusting Metal
- No Weeds Growing Through Cage



Imitation Rocks

CODE COMPLIANCE:

- ASSE 1060, Class III Certified
- Drains Sized for RPZ Backflow Devices
- Testing/Maintenance Access Ease



Yacht Quality

PROTECTION:

- Lockable
- "Out of Sight . . . Out of Mind"
- Inert Construction Lasts for Years
- Available With Optional Freeze Protection Qualities



No More Cages

HOTBOX
"The Engineered Enclosure"

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e-mail: hotboxsales@hps.hubbell.com



VALVE GUARD UNINSULATED ENCLOSURES						
EZ	Old EZ No.	ENCLOSURE SIZE (INSIDE)	MOUNTING PAD	SHIPPING WEIGHT	GLASS PAD	Old GLASS PAD
VE012017021500	VGEZLV.75	14W x 19L x 22.5H	29 x 24	25#		N/A
VE014021024500	VGEZLV1	16W x 23L x 25H	33 x 26	28#		N/A
VE006020022	VGEZ.75	8.5W x 22L x 23H	32 x 16	16#	GG026041005	GPEZ1
VE014027026	VGEZ1	16W x 29L x 27H	38 x 25	31#		
VE012038028	VGEZ2	14W x 40.5L x 29H	48 x 22	44#		
VE013047027	VGEZ2S	15W x 49L x 28H	59 x 22	49#		N/A
VE026070045	VGEZ3	29W x 73L x 46H	82 x 38	215#		N/A
VE035045035	VGEZ3000	38W x 48L x 36H	57 x 47	175#	GG046055005	GP3000
VE044053044	VGEZ4000	47W x 56L x 45H	65 x 56	240#	GG055063005	GP4000
VE052061050	VGEZ5000	55W x 64L x 51H	74 x 64	400#	GG063074005	GP5000
POLY EZ	Old POLY EZ No				GLASS PAD	Old GLASS PAD
VP009024023	VGEZP1	11W x 26L x 24H	34 x 17	22#	GG026041005	GPEZ1
VP011036026	VGEZP2	13W x 38L x 27H	45 x 19	35#		N/A
VALVE GUARD	Old VALVE GUARD				GLASS PAD	Old GLASS PAD
VF011019022	VG.75	13W x 21L x 23H	28 x 20	21#	GG019027005	GP.75
VF013027023	VG1	15W x 29L x 24H	36 x 22	31#	GG021035005	GP1
VF013027035	VG1T	15W x 29L x 36H	36 x 22	41#	GG021035005	GP1
VF021033025	VG1.5	23W x 35L x 26H	44 x 32	46#	GG030042005	GP1.5
VF013039028	VG2	15W x 41L x 29H	50 x 24	45#	GG021047005	GP2
VF013039036	VG2T	15W x 41L x 37H	50 x 24	56#	GG021047005	GP2
VF013047028	VG2S	15W x 49L x 29H	58 x 24	51#		N/A
VF013047028	VG3N	29W x 73L x 46H	82 x 38	270#		N/A
VL035045035	VG3000	38W x 48L x 36H	57 x 47	220#	GG046055005	GP3000
VL044053044	VG4000	47W x 56L x 45H	65 x 56	270#	GG055063005	GP4000
VL052061052	VG5000	55W x 64L x 53H	74 x 64	410#	GG063074005	GP5000
GLASS ROKS	Old GLASS ROKS				GLASS PAD	Old GLASS PAD
VR006015019	VGGLR.75	09W x 18L x 20H	27 x 21	20#	GG018024005	GPGR.75
VR010026022	VGGLR1	13W x 29L x 22H	40 x 30	41#	GG030040005	GPGR1
VR015040030	VGGLR2	18W x 43L x 31H	51 x 26	75#	GG023048005	GPGR2
VR021067043	VGGLR3	24W x 70L x 44H	90 x 40	310#		N/A
POLY ROKS	Old POLY ROKS				GLASS PAD	Old GLASS PAD
VQ010026022	VGPLR1	13W x 29L x 23H	40 x 27	25#	GG027037005	GPPR1
VQ012043027	VGPLR2	15W x 46L x 28H	56 x 22	50#	GG022056005	GPPR2
PUMP GUARD	Old PUMP GUARD				GLASS PAD	Old GLASS PAD
NF013027023	VGPG1000	15W x 29L x 24H	36 x 22	35#	GG021035005	GP1
NF021033025	VGPG1500	23W x 35L x 26H	46 x 32	50#	GG030042005	GP1.5
NF035045035	VGPG3000	38W x 48L x 36H	57 x 47	250#	GG046055005	GP3000
NF044053044	VGPG4000F	47W x 56L x 45H	65 x 56	300#	GG055063005	GP4000
NL052061052	VGPG5000	55W x 64L x 53H	74 x 64	440#	GG063074005	GP5000
FIBERGLASS ENCLOSURES ARE CONSTRUCTED OF THIXOTROPIC POLYESTER RESIN WITH 30% CHOPPED GLASS; RANDOM PATTERNS OF 3/32" - 3/16" TK. EXTERIOR FINISH IS ISOPHALIC GEL COAT .02" - .04" TK.						
POLYETHYLENE ENCLOSURES CONSIST OF 1/8" TK. UV STABILIZED LMDPE LOW DENSITY HEXEN COPOLYMER RESIN.						
MOUNTING AND ACCESS HARDWARE IS RUST RESISTANT AND ALL ENCLOSURES ARE LOCKABLE.						
NOT INTENDED FOR FREEZE PROTECTION. ORDER HOT BOX OR LOK BOX IN COLD CLIMATES.						



The **EzBox** has all the design features to meet minimum requirements for backflow preventer protection, such as:

- * drains sized for full port discharge
- * testing/maintenance access
- * vandal/intrusion protection
- * optional freeze protection



- * The N044053044 **EzBox** is engineered to allow testing and maintenance without removal of the enclosure by adding convenient, lockable access panels.

- * The affordable enclosure for backflow prevention devices, pumps, meters, valves...
- * A fiberglass or plastic shell, insulated with urethane foam, provides the security and freeze protection.
- * The **EzBox** is aesthetically pleasing.
- * Optional heater adds extra freeze protection for exposed valves in colder climates.

**“Just Say No”
to the Cage !**



- * Check with our sales team about an available **GLASSPAD** to reduce your installation costs. Set the valve, pad and enclosure at one time for a quick and cost-effective installation.



**TESTED AND CERTIFIED
FOR WINDS UP TO 146 MPH**



The Un-Insulated Fiberglass **VALVEGUARD** offers several advantages over the cage.

- * The **VE EzBox** is usually less expensive! (Call for pricing.)
- * The **VE EzBox** “hides the installation”!
- Valves are out of sight (out of mind) and consequently more secure.
- * The **POLY EzBox** adds affordability with style.



- * Landscape and irrigation designers install our enclosures over small, obtrusive 3/4” - 2” backflow preventers required for irrigation systems.



CERTIFIED

(800) 736-0238
fax: (904) 783-6965
www.hot-box.com



The Engineered Enclosure®

JACKSONVILLE, FL

(904) 786-0204 • FAX (904) 783-6965

hotboxsales@hps.hubbell.com

75504

SUBMITTAL DATA SHEET

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(800) 736-0238

FAX: (904) 783-6965

http://www.hot-box.com

Email: hotboxsales@hps.hubbell.com



ONE PIECE, DROP OVER, HEATED ENCLOSURES:

SPECIFICATION:

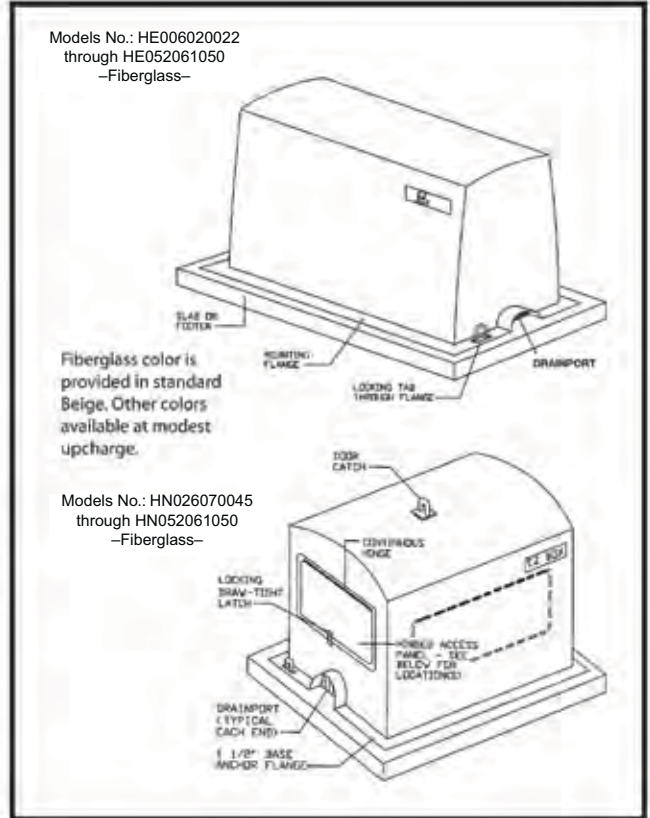
The enclosure, certified to ASSE 1060*, shall be of min. 1/8" tk, thixotropic polyester resin reinforced w/fiberglass strand. Exterior will be a smooth, yacht quality; finished w/UV inhibited isophthalic polyester gel coat, buffed to a smooth finish. Polyethylene enclosures shall consist of 1/8" tk, UV stabilized LMDPE low density hexene copolymer resin. Insulation shall be min. 1/2"tk. (R8), uni-cellular, non-wicking, polyisocyanate, frothed or sprayed in place (not glued or pinned). Enclosure shall utilize a lockable drop over design. Optional locking access panels are available for maintenance access w/o removal of the entire unit. Drains shall be sized for full port backflow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASSPAD™ through the enclosure mounting flange w/steel anchors and require a padlock(s) for security purposes.

Heat will protect the piping and equipment from exterior temperatures to -30°F and be thermostatically controlled. UL or ETL listed self regulating cable(s) or wall or stand mounted air heater(s) will be sized to maintain the equipment at +40°F, in accordance with N.F.P.A. 3-3.1.8 & 3-6.1.3.2. Heat source and electrical supply shall be mounted a minimum of 7" above the slab unless it is UL or ETL certified and NEC approved for submersion. Power source shall be protected with a ground fault interrupting receptacle, U.L. 943, N.E.M.A.3R, installed by others inside the enclosure.

* Model's # HE026070045 through # HE052061050 without doors are not ASSE 1060 certified.

EZ Box w/Heat	Old EZ Box w/Heat	Inside Width	Inside Length	Inside Height	Heat	Shipping Weight	Pad Size	GLASS PAD	Old GLASS PAD
HE006020022	HEZ.75	6.5	20	22	30W	27#	32 x 16	GG026041005	GPEZ1
HE014027026	HEZ1	14	27	26	60W	40#	41 x 27	GG026041005	GPEZ1
HE012038028	HEZ2	12	38.5	28	90W	55#	52 x 26		N/A
HE013047028	HEZ2S	13	47	28	90W	70#	59 x 22		N/A
HE026070045	HEZ3	26	70	45	2-90W	230#	82 x 38		N/A
HE026083045	HEZ3S	26	83	45	1500	249#	95 x 38		N/A
HE035045035	HEZ3000	35	45	35	1000W	235#	57 x 47	GG046055005	GP3000
HE044053044	HEZ4000	44	53	44	1000W	300#	65 x 56	GG055063005	GP4000
HE052061050	HEZ5000	52	61	50	1500W	440#	74 x 64	GG063074005	GP5000
HE012017021500	HEZLV.75	12	17	21	30W	25#	29 x 24		N/A
HE014021024500	HEZLV1	14	21	24	30W	28#	33 x 26		N/A
HE012017021	HEZLV.75X	12	17	21	30W	18#	29 x 24		N/A
HE014021024	HEZLV1X	14	21	24	30W	21#	33 x 26		N/A
HP009024023	HPEZ1	09	24	23	60W	22#	34 x 17		N/A
HP011036026	HPEZ2	11	36	26	90W	35#	45 x 19		N/A
HN026070045	NCHEZ3	26	70	45	2-90W	230#	82 x 38		N/A
HN035045035	NCHEZ3000	35	45	35	1000W	235#	57 x 47	GG046055005	GP3000
HN044053044	NCHEZ4000	44	53	44	1000W	300#	65 x 56	GG055063005	GP4000
HN052061050	NCHEZ5000	52	61	50	1500W	440#	74 x 64	GG063074005	GP5000

OPTIONS:					
OPTION	TYPE	SIZE	PHASE	VOLTAGE	QUANTITY
COLOR					
VENT(S)					
EXHAUST					
ALARM					
ALARM					
HEAT					
OTHER					



Job Name _____ Contractor _____
 Job Location _____ Approval _____ Date _____
 Engineer _____ Contractor's P.O. No. _____
 Approval _____ Date: _____ Representative _____



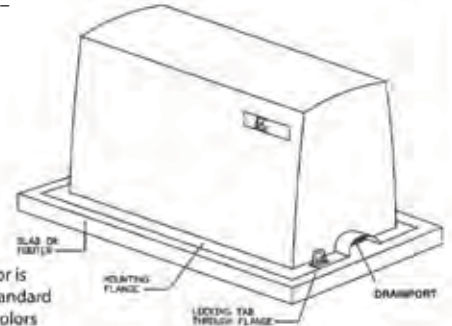
ONE PIECE, DROP OVER, UNHEATED ENCLOSURES:

SPECIFICATION:

The enclosure, certified to ASSE 1060*, shall be of min. 1/8" tk. thixotropic polyester resin reinforced w/fiberglass strand. Exterior will be a smooth, yacht quality; finished w/UV inhibited isophthalic polyester gel coat, buffed to a smooth finish. Polyethylene enclosures shall consist of 1/8" tk. UV stabilized LMDPE low density hexene copolymer resin. Insulation shall be min. 1 1/2"tk. (R8), uni-cellular, non-wicking, polyisocyanate, frothed or sprayed in place (not glued or pinned). Enclosure shall utilize a lockable drop over design. Optional locking access panels are available for maintenance access w/o removal of the entire unit. Drains shall be sized for full port backflow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASSPAD™ through the enclosure mounting flange w/steel anchors and require a padlock(s) for security purposes.

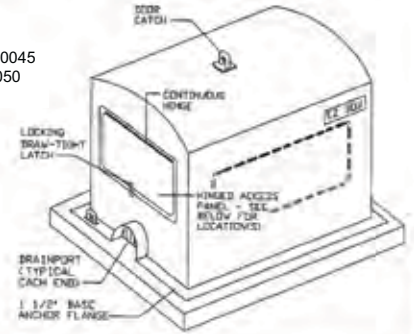
* Model's # LE026070045 through # LE052061050 without doors are not ASSE 1060 certified.

Models No.: LE006020022 through LE052061050
-Fiberglass-



Fiberglass color is provided in standard beige. Other colors available at modest upcharge.

Models No.: LN026070045 through LN052061050
-Fiberglass-

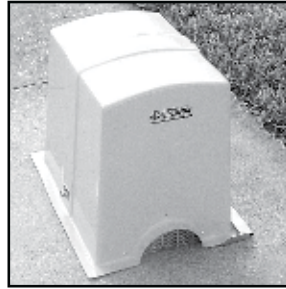
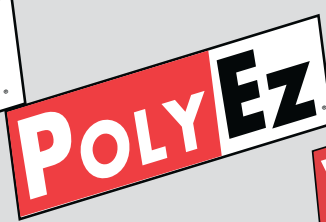
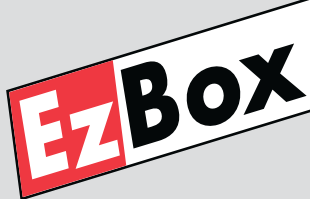


EZ Box w/No Heat	Old EZ Box w/No Heat	Inside Width	Inside Length	Inside Height	Shipping Weight	Pad Size	GLASS PAD	Old GLASS PAD
LE006020022	EZ.75	6.5	20	22	20#	32 x 16	GG026041005	GPEZ1
LE014027026	EZ1	14	27	26	40#	41 x 27	GG026041005	GPEZ1
LE012038028	EZ2	12	38.5	28	60#	52 x 26		N/A
LE013047028	EZ2S	13	47	28	70#	59 x 22		N/A
LE026070045	EZ3	26	70	45	275#	82 x 38		N/A
LE026083045	EZ3S	26	83	45	249#	95 x 38		N/A
LE035045035	EZ3000	35	45	35	250#	57 x 47	GG046055005	GP3000
LE044053044	EZ4000	44	53	44	280#	65 x 56	GG055063005	GP4000
LE052061050	EZ5000	52	62	50	440#	74 x 64	GG063074005	GP5000
LE012017021	EZLV.75	12	17	21	25#	29 x 24		N/A
LE014021024	EZLV1	14	21	24	28#	33 x 26		N/A
LE012017021	EZLV.75X	12	17	21	18#	29 x 24		N/A
LE014021024	EZLV1X	14	21	24	21#	33 x 26		N/A
LP009024023	PEZ1	09	24	23	22#	34 x 17		N/A
LP011036026	PEZ2	11	36	26	35#	45 x 19		N/A
LN026070045	NCEZ3	26	70	45	230#	82 x 38		N/A
LN035045035	NCEZ3000	35	45	35	235#	57 x 47	GG046055005	GP3000
LN044053044	NCEZ4000	44	53	44	300#	65 x 56	GG055063005	GP4000
LN052061050	NCEZ5000	52	61	50	440#	74 x 64	GG063074005	GP5000

OPTIONS:					
OPTION	TYPE	SIZE	PHASE	VOLTAGE	QUANTITY
COLOR					
VENT(S)					
EXHAUST					
ALARM					
HEAT					
OTHER					



Job Name _____ Contractor _____
 Job Location _____ Approval _____ Date _____
 Engineer _____ Contractor's P.O. No. _____
 Approval _____ Date: _____ Representative _____



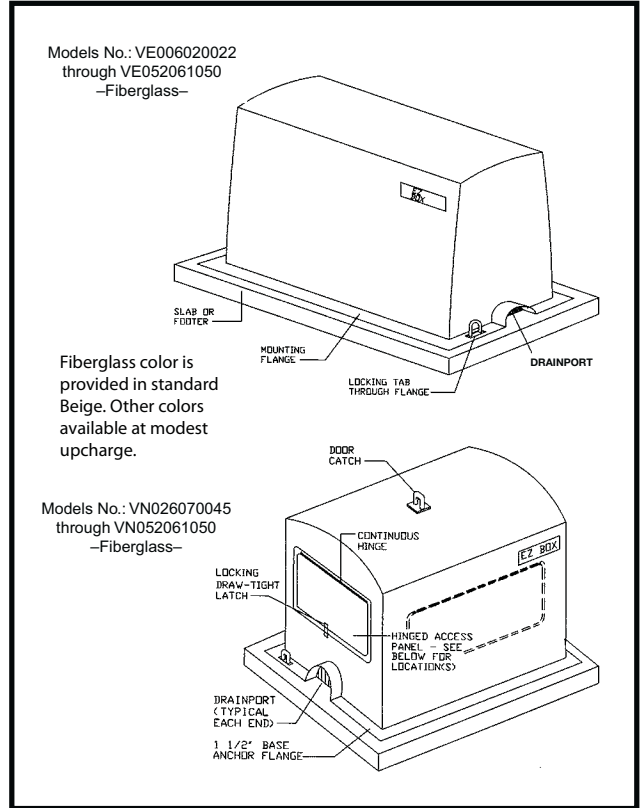
ONE PIECE, DROP OVER, NO HEAT/NO INSULATION ENCLOSURES:

SPECIFICATION:

The enclosure, certified to ASSE 1060*, shall be of min. 1/8" tk. thixotropic polyester resin reinforced w/fiberglass strand. Exterior will be a smooth, yacht quality; finished w/UV inhibited isophthalic polyester gel coat, buffed to a smooth finish. Polyethylene enclosures shall consist of 1/8" tk. UV stabilized LMDPE low density hexene copolymer resin. Enclosure shall utilize a lockable drop over design.

Optional locking access panels are available for maintenance access w/o removal of the entire unit. Drains shall be sized for full port backflow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASSPAD™ through the enclosure mounting flange w/steel anchors and require a padlock(s) for security purposes.

* Model's # VE026070045 through # VE052061050 without doors are not ASSE 1060 certified.



EZ Box w/Heat	Ov'd EZ Box w/Heat	Inside Width	Inside Vength	Inside Height	Shipping Weight	Pad Size	GVASS PAD	Ov'd GVASS PAD
VE006020022	VGEZ.75	8.5	22	23	16#	32 x 16	GG026041005	GPEZ1
VE014027026	VGEZ1	16	29	27	31#	41 x 27	GG026041005	GPEZ1
VE012038028	VGEZ2	14	40.5	29	44#	52 x 26		N/A
VE026070045	VGEZ3	29	73	46	215#	82 x 38		N/A
VE035045035	VGEZ3000	38	48	36	175#	57 x 47	GG046055005	GP3000
VE044053044	VGEZ4000	47	56	45	240#	65 x 56	GG055063005	GP4000
VE052061050	VGEZ5000	55	65	51	400#	74 x 64	GG063074005	GP5000
VE012017021500	VGEZLV.75	14	19	22.5	25#	29 x 24		N/A
VE014021024500	VGEZLV1	16	23	25	28#	33 x 26		N/A
VE012017021	VGEZLV.75X	14	19	22.5	18#	29 x 24		N/A
VE014021024	VGEZLV1X	16	23	25	21#	33 x 26		N/A
VP009024023	VGPEZ1	11	26	24	22#	34 x 17		N/A
VP011036026	VGPEZ2	13	38	27	35#	45 x 19		N/A
VN026070045	VGNCEZ3	29	73	46	230#	82 x 38		N/A
VN035045035	VGNCEZ3000	38	48	36	235#	57 x 47	GG046055005	GP3000
VN044053044	VGNCEZ4000	47	56	45	300#	65 x 56	GG055063005	GP4000
VN052061050	VGNCEZ5000	55	64	51	440#	74 x 64	GG063074005	GP5000

OPTIONS:					
OPTION	TYPE	SIZE	PHASE	VOLTAGE	QUANTITY
COLOR					
VENT(S)					
EXHAUST					
ALARM					
ALARM					
HEAT					
OTHER					



Job Name _____ Contractor _____
 Job Location _____ Approval _____ Date _____
 Engineer _____ Contractor's P.O. No. _____
 Approval _____ Date: _____ Representative _____

VENT GUARD® AIR VALVE ENCLOSURES

VENT GUARD® is a protective enclosure designed exclusively for the air release valve found in many public water supply systems.



LV018018024 (closed)



LV020020041 (open)

- Built with a tough fiberglass laminate material, it can take the abuse normally associated with air release valve installations.
- Noncorrosive gel coat surface never rusts or corrodes like metal products.
- Does not require a jib crane truck for installation or for valve maintenance, as often required with “steel cans”.

LOOK AT THESE FEATURES:

- ◆ Improves Aesthetics
- ◆ Easy Access
- ◆ Drainage Outlets
- ◆ Wide Range of Sizes
- ◆ Strong Octagon Shape
- ◆ Rust and Corrosion Resistant
- ◆ Lockable/Removable Lid
- ◆ Foam Insulated for Freeze Protection
- ◆ Reinforced Mounting Flange
- ◆ Light Weight

AVAILABLE THROUGH WHOLESALE PLUMBING/UTILITY DISTRIBUTORS
THROUGHOUT THE UNITED STATES AND CANADA

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MEMBERS OF: AWWA, ABPA, ASPE, ASSE, AFSA, NFSA, & USC FOUNDATION

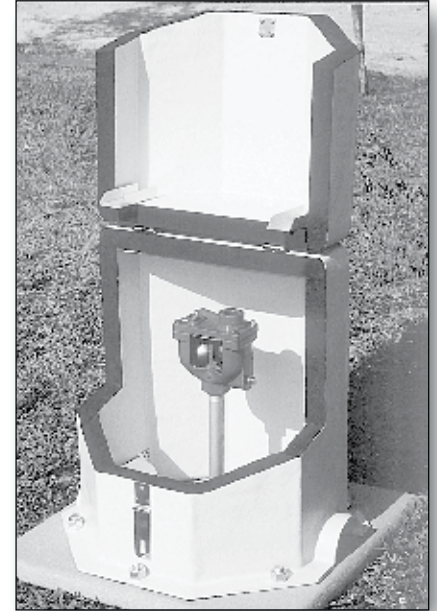
VEG1003



**VENT GUARD®, FLIP TOP FIBERGLASS ENCLOSURES:
 SPECIFICATION:**

The enclosure shall be of min. 1/8" tk. thixo-tropic polyester resin reinforced w/fiberglass strand. Exterior will be finished w/UV inhibited isophthalic polyester gel coat. Insulation shall be min. 1" tk. (R 8), uni-cellular, non-wicking, polyisocyanate, frothed or sprayed in place (not glued or pinned). Drains shall be sized for full port backflow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Vents shall be sized for max.design engineered air flow of release valve and be screened internally to preclude invasion of vermin and / or insects. Enclosure shall be anchored to a concrete slab or pre-fabricated fiberglass GlassPad™ through the exterior flange w/steel anchors or internally via self adjusting anchor brackets and be lockable for security purposes. Enclosure shall utilize a lockable flip top design, for maintenance access through lid w/o removal of the entire unit.

Heat, when required, will protect the piping and equipment from exterior temperatures to -30°F and be thermostatically controlled. UL or ETL listed self regulating cable(s) or wall mounted air heater(s) will be sized to maintain the equipment at +40°F, in accordance with N.F.P.A. 3-3.1.8 & 3-6.1.3.2. Heat source shall be mounted a minimum of 7" above the slab unless it is UL or ETL certified and NEC approved for submission. Power source shall be protected with a ground fault interrupting receptacle, U.L 943, N.E.M.A.3R, installed by others inside the enclosure.



LV020020041 (open)

No Heat	Old No. w/ No Heat	W/Heat	Old No. w/ Heat	Inside Width	Inside Length	Inside Height	Heat	Shipping Weight	Pad Size	GLASS PAD	Old GLASS PAD
LV018018024	AVG1824	HV018018024	AVGH1824	18	18	24	30W	40#	30 x 30	GG028028005	GP1824
LV020020036	AVG2036	HV020020036	AVGH2036	20	20	36	60W	65#	32 x 32		N/A
LV020020041	AVG2041	HV020020041	AVGH2041	20	20	41	90W	75#	32 x 32		N/A
LV022022040	AVG2240	HV022022040	AVGH2240	22	22	40	90W	85#	34 x 34		N/A
LV024024048	AVG2448	HV024024048	AVGH2448	24	24	48	2-90W	175#	36 x 36		N/A
LV036036048	AVG3648	HV036036048	AVGH3648	36	36	48	2-90W	240#	48 x 48		N/A
LV048048048	AVG4848	HV048048048	AVGH4848	48	48	48	2-90W	260#	60 x 60		N/A

OPTIONS:					
OPTION	TYPE	SIZE	PHASE	VOLTAGE	QUANTITY
COLOR					
VENT(S)					
ALARM					
ALARM					
HEAT					



MEMBERS OF:

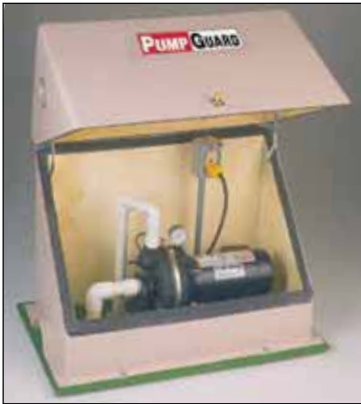


Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

Contractor _____
 Approval _____
 Contractor's P.O. No. _____
 Representative _____

PUMP GUARD

INSULATED AND UNINSULATED ENCLOSURES



Model - MF013027023
for most pumps 1/2 HP
Inside dimensions
13"W x 27"L x 23"H

Model - MF021033025
for most pumps 1-2HP
Inside dimensions
21"W x 33"L x 25"H

Part Nos. MF013027023 & MF021033025
Flip Top Unit



Model - ML035045035
for most pumps up to 3HP
Inside dimensions
35"W x 45"L x 35"H

Model - ML044053044
for pumps from 3HP to 5HP
Inside dimensions
44"W x 53"L x 44"H

Model - ML052061052
for larger pumps or sets
Inside dimensions
52"W x 61"L x 52"H

Part Nos. ML035045035, ML044053044 & ML052061052
"Low Profile" Series
Flip Top Unit



Model - MM041041045
for pumps from 3HP to 5HP
Inside dimensions
41"W x 41"L x 45"H

Model - MM047047049
for most pumps up to 5HP
Inside dimensions
47"W x 47"L x 49"H

Model - MM053053056
for larger pumps or sets
Inside dimensions
53"W x 53"L x 56"H

Model - MM054062056
for larger pumps or sets
Inside dimensions
54"W x 62"L x 56"H

Part Nos. MM041041045 - MM054062056
"Designer Series"



Custom Enclosures are our speciality!
Call and talk to our designers!

FEATURES:

- ★ Laminated Fiberglass Construction on most standard sized units
- ★ Insulated for Strength & Sound Protection
- ★ Lockable
- ★ Vented for Cool Pump Operation
- ★ Deters Theft and Damage

OPTIONAL:

- ★ Powered Exhaust with Louvers, Thermostat Controlled (not available on MF013027023 or MF021033025)
- ★ Thermostatically Controlled Heat
- ★ Custom Colors
- ★ Custom Sizes
- ★ Flip Top Units Available Without Insulation

All units are vented, with one-way deck drains and lockable covers. Easy installation on cement pad, or for the new FlipTop units, on our new fiberglass GlassPad™.



JACKSONVILLE, FL

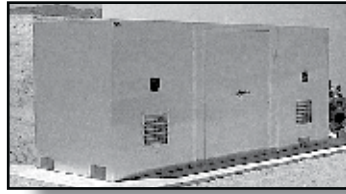
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PG604



PUMP GUARD® VENTED PROTECTIVE HEATED ENCLOSURE

SPECIFICATION:

The enclosure, manufactured to ASSE 1060 specifications, shall be constructed of either if three (3) different materials:

1. Fiberglass: min. 3/16" thick Thixotropic polyester resin reinforced with fiberglass strand, protected with 18 to 20 mils of UV inhibited isophthalic polyester gel coat
2. Aluminum sheet (.05" thick Or .125" thick)
Standard thickness of .050" thick only available with insulation
Optional heavy duty .125 thick available with or without insulation
3. Polyethylene: min 1/8" thick UV stabilized LMDPE low density hexane copolymer resin.

Enclosure shall utilize one of four (4) different designs:

1. Lockable flip top design, for maintenance access through lid without removal of the entire unit.
Fiberglass molded product shall utilize an overlapping lid seam design for weatherproofing and vandal resistance.
2. Aluminum: panel-access doors or folding roof and front design
3. Fiberglass: panel construction with lift up roof and both front and rear access doors (Designer Series).
4. One-piece drop over (special order only).

Insulation shall be min 1" thick (R8) uni-cellular, non-wicking, polyisocyanate foam. Drains shall be installed for water evacuation and be designed for one way exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASSPAD™ (where applicable) from within the enclosure with steel anchors and be lockable for security purposes.

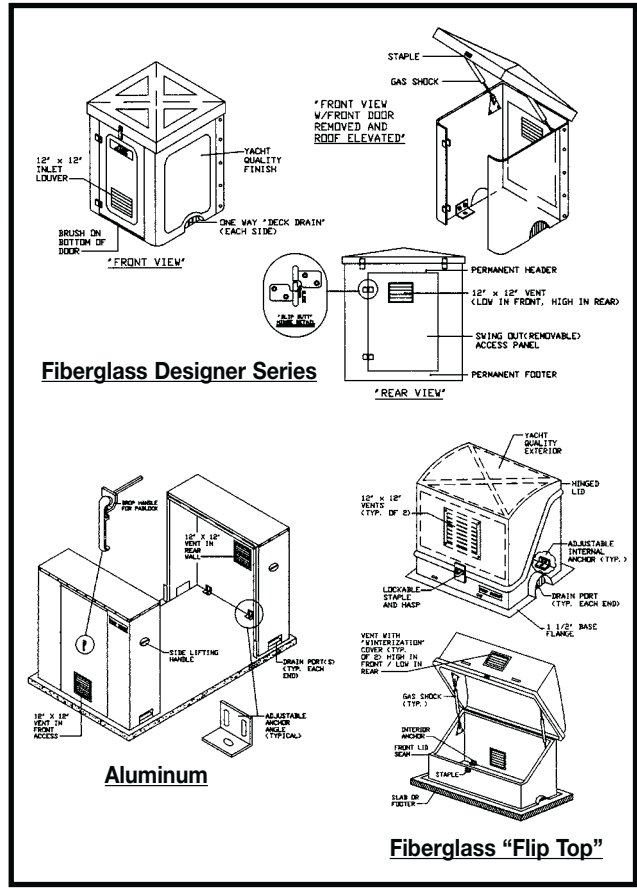
Inlet and outlet vents will be installed, sized in accordance with the requirements for the equipment contained therein. Thermostatically controlled exhaust fans are a factory installed option.

The unit shall provide a minimum of 5% sound reduction at eight (8) feet with vents open and 15% reduction with vents closed.

Heat will protect the piping and equipment from exterior temperatures to -30°F and be thermostatically controlled. UL or ETL listed self regulating cable(s) or wall mounted air heater(s) will be sized to maintain the equipment at +40°F, in accordance with N.F.P.A. 3-3.1.8 & 3-6.1.3.2. Heat source shall be mounted a minimum of 7" above the slab unless it is UL or ETL certified and NEC approved for submersion. Power source shall be installed inside the enclosure by others, protected with a ground fault interrupting receptacle (GFI) or GFI circuit, ref UL 943, N.E.M.A. 3R.

HOT BOX w/ Heat	Old HOT BOX w/Heat	Access Type	Inside Width	Inside Length	Inside Height	Heat	Shipping Weight	Pad Size	GLASS PAD	Old GLASS PAD
PL035045035	PG3000H	Flip Top	35	45	35	1000W	265#	57 x 47	GG046055005	GP3000
PL044053044	PG4000FH	Flip Top	44	53	44	1000W	290#	65 x 56	GG055063005	GP4000
PL052061052	PG5000H	Flip Top	52	61	52	1500W	440#	74 x 64	GG063074005	GP5000
PM041041045	PG4000H	Doors	41	41	45	1000W	280#	53 x 53	GG046055005	GP3000
PM047047049	PG6000H	Doors	47	47	49	1500W	315#	57 x 57	GG063074005	GP5000
PM053053056	PG8000H	Doors	53	53	56	1500W	350#	63 x 63	GG063074005	GP5000
PM054062056	PG10000H	Doors	54	62	56	1500W	500#	74 x 66	GG063074005	GP5000

OPTIONS					
OPTION	TYPE	SIZE	PHASE	VOLTAGE	QUANTITY
=====	=====	=====	=====	=====	=====
COLOR					
VENT(S)					
EXHAUST					
ALARM					
HEAT					
INSULATION					
OTHER					

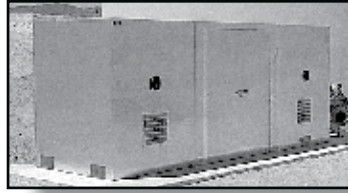


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CERTIFIED*



PUMP GUARD® VENTED PROTECTIVE INSULATED/ NO HEAT ENCLOSURE

SPECIFICATION:

The enclosure, manufactured to ASSE 1060 specifications, shall be constructed of either if three (3) different materials:

1. Fiberglass: min. 3/16" thick Thixotropic polyester resin reinforced with fiberglass strand, protected with 18 to 20 mils of UV inhibited isophthalic polyester gel coat
2. Aluminum sheet (.05" thick Or .125" thick)
Standard thickness of .050" thick only available with insulation
Optional heavy duty .125 thick available with or without insulation
3. Polyethylene: min 1/8" thick UV stabilized LMDPE low density hexane copolymer resin.

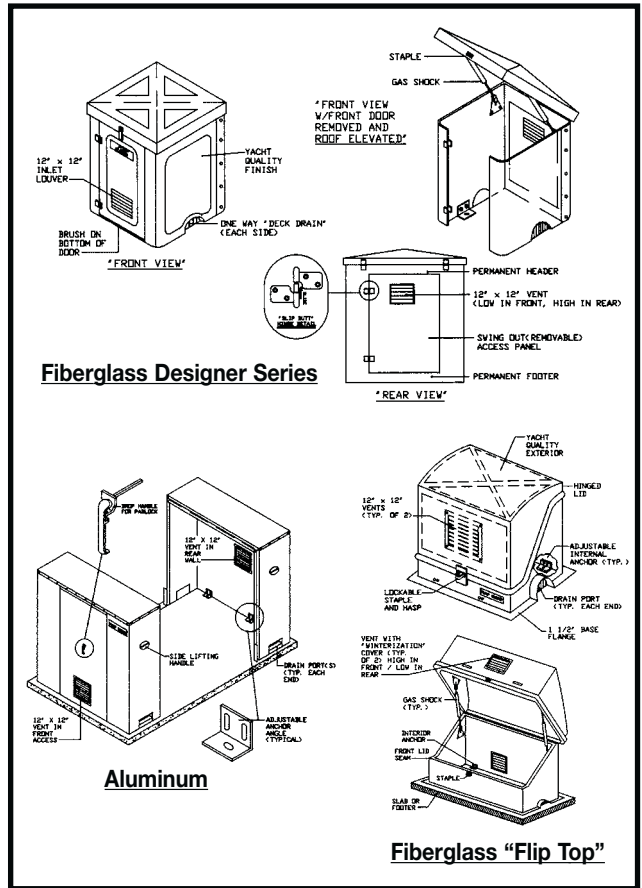
Enclosure shall utilize one of four (4) different designs:

1. Lockable flip top design, for maintenance access through lid without removal of the entire unit.
Fiberglass molded product shall utilize an overlapping lid seam design for weatherproofing and vandal resistance.
2. Aluminum: panel-access doors or folding roof and front design
3. Fiberglass: panel construction with lift up roof and both front and rear access doors (Designer Series).
4. One-piece drop over (special order only).

Insulation shall be min 1" thick (R8) uni-cellular, non-wicking, polyisocyanate foam. Drains shall be installed for water evacuation and be designed for one way exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASSPAD™ (where applicable) from within the enclosure with steel anchors and be lockable for security purposes.

Inlet and outlet vents will be installed, sized in accordance with the requirements for the equipment contained therein. Thermostatically controlled exhaust fans are a factory installed option.

The unit shall provide a minimum of 5% sound reduction at eight (8) feet with vents open and 15% reduction with vents closed.



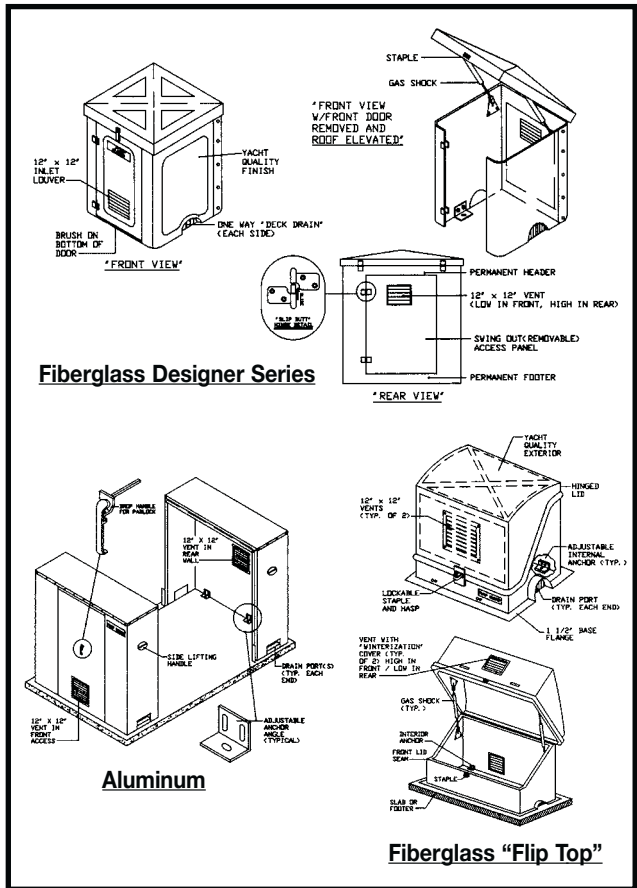
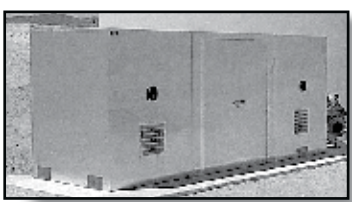
VALVE GUARD w/ Heat	Old VALVE GUARD w/Heat	Access Type	Inside Width	Inside Length	Inside Height	Shipping Weight	Pad Size	GLASS PAD	Old GLASS PAD
MF013027023	PG1000	Flip Top	13	27	23	40#	36 x 22	GG022035005	GP1
MF021033025	PG1500	Flip Top	21	33	25	60#	46 x 32	GG029042005	GP1.5
ML035045035	PG3000	Flip Top	35	45	35	250#	57 x 47	GG046055005	GP3000
ML044053044	PG4000F	Flip Top	44	53	44	300#	65 x 56	GG055063005	GP4000
ML052061052	PG5000	Flip Top	52	61	52	440#	74 x 64	GG063074005	GP5000
MM041041045	PG4000	Doors	41	41	45	280#	53 x 53	GG046055005	GP3000
MM047047049	PG6000	Doors	47	47	49	300#	57 x 57	GG063074005	GP5000
MM053053056	PG8000	Doors	53	53	56	335#	63 x 63	GG063074005	GP5000
MM054062056	PG10000	Doors	54	62	56	485#	74 x 66	GG063074005	GP5000

OPTIONS					
OPTION	TYPE	SIZE	PHASE	VOLTAGE	QUANTITY
=====	=====	=====	=====	=====	=====
COLOR					
VENT(S)					
EXHAUST					
ALARM					
HEAT					
INSULATION					
OTHER					



Job Name _____ Contractor _____
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PUMP GUARD® VENTED PROTECTIVE NO HEAT/NO INSULATION ENCLOSURE

SPECIFICATION:

The enclosure, manufactured to ASSE 1060 specifications, shall be constructed of either if three (3) different materials:

1. Fiberglass: min. 3/16" thick Thixotropic polyester resin reinforced with fiberglass strand, protected with 18 to 20 mils of UV inhibited isophthalic polyester gel coat
2. Aluminum sheet (.05" thick Or .125" thick)
Standard thickness of .050" thick only available with insulation
Optional heavy duty .125 thick available with or without insulation
3. Polyethylene: min 1/8" thick UV stabilized LMDPE low density hexane copolymer resin.

Enclosure shall utilize one of four (4) different designs:

1. Lockable flip top design, for maintenance access through lid without removal of the entire unit.
Fiberglass molded product shall utilize an overlapping lid seam design for weatherproofing and vandal resistance.
2. Aluminum: panel-access doors or folding roof and front design
3. Fiberglass: panel construction with lift up roof and both front and rear access doors (Designer Series).
4. One-piece drop over (special order only).

Insulation shall be min 1" thick (R8) uni-cellular, non-wicking, polyisocyanate foam. Drains shall be installed for water evacuation and be designed for one way exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASSPAD™ (where applicable) from within the enclosure with steel anchors and be lockable for security purposes.

Inlet and outlet vents will be installed, sized in accordance with the requirements for the equipment contained therein. Thermostatically controlled exhaust fans are a factory installed option.

The unit shall provide a minimum of 5% sound reduction at eight (8) feet with vents open and 15% reduction with vents closed.

VALVE GUARD w/ Heat	Old VALVE GUARD w/Heat	Access Type	Inside Width	Inside Length	Inside Height	Shipping Weight	Pad Size	GLASS PAD	Old GLASS PAD
VF013027023	VGPG1000	Flip Top	15	29	24	40#	36 x 22	GG021035005	GP1
VF021033025	VGPG1500	Flip Top	23	35	26	60#	46 x 32	GG029042005	GP1.5
VF035045035	VGPG3000	Flip Top	38	48	36	250#	57 x 47	GG046055005	GP3000
VF044053044	VGPG4000F	Flip Top	47	56	45	280#	65 x 56	GG055063005	GP4000
VL052061050	VGPG5000	Flip Top	55	64	53	300#	74 x 64	GG063074005	GP5000
VM041041045	VGPG4000	Doors	44	44	46	280#	53 x 53	GG046055005	GP3000
VM049049049	VGPG6000	Doors	50	50	50	300#	57 x 57	GG063074005	GP5000
VM053053056	VGPG8000	Doors	56	56	57	335#	63 x 63	GG063074005	GP5000
VM054062056	VGPG10000	Doors	57	65	56	485#	74 x 66	GG063074005	GP5000

OPTIONS					
OPTION	TYPE	SIZE	PHASE	VOLTAGE	QUANTITY
=====	=====	=====	=====	=====	=====
COLOR					
VENT(S)					
EXHAUST					
ALARM					
HEAT					
INSULATION					
OTHER					



Job Name _____ Contractor _____
 Job Location _____ Approval _____ Date _____
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 Approval _____ Date _____ Representative _____

"CLASSIC"



VALVE & PUMP ENCLOSURES

THE ATTRACTIVE, INSULATED, ENCLOSURE THAT ENHANCES THE APPEARANCE OF YOUR PROPERTY



THE HOT ROK® HAS ALL THE FEATURES YOU HAVE COME TO EXPECT FROM HOT BOX®, SUCH AS:

- ENGINEERED FREEZE PROTECTION
- DRAINS SIZED FOR FULL PORT DISCHARGE
- TESTING/ MAINTENANCE ACCESS
- VANDAL PROTECTION

Plus, it's the best looking enclosure on the market!!!!

- AESTHETICALLY PLEASING
- BLENDS IN WITH THE LANDSCAPE

HOT ROK (INS. & HEAT)	Old HOT ROK NO. (INS. & HEAT)	HOT ROK (INSULATED)	OLD HOT ROK (NO INSUL.)	Inside Width	Inside Length	Inside Height	Shipping Weight	Base Dimensions
HT013026024	HR1	LT013026024	LR1	13	26	24	75#	48 x 32
HT019048040	HR2	LT019048040	LR2	19	48	40	200#	72 x 40
HT043043048	HR4FE	LT043043048	LR4FE	43	43	48	395#	74 x 74

HOT ROK (NON-INSULATED)	Old HOT ROK NO. (NON-INSULATED)	Inside Width	Inside Length	Inside Height	Shipping Weight	Base Dimensions
VT013026024	VGLR1	16	29	25	75#	48 x 32
VT019048040	VGL42	22	51	41	200#	72 x 40
VT043043048	VGLR4FE	46	46	49	395#	74 x 74



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"CLASSIC"



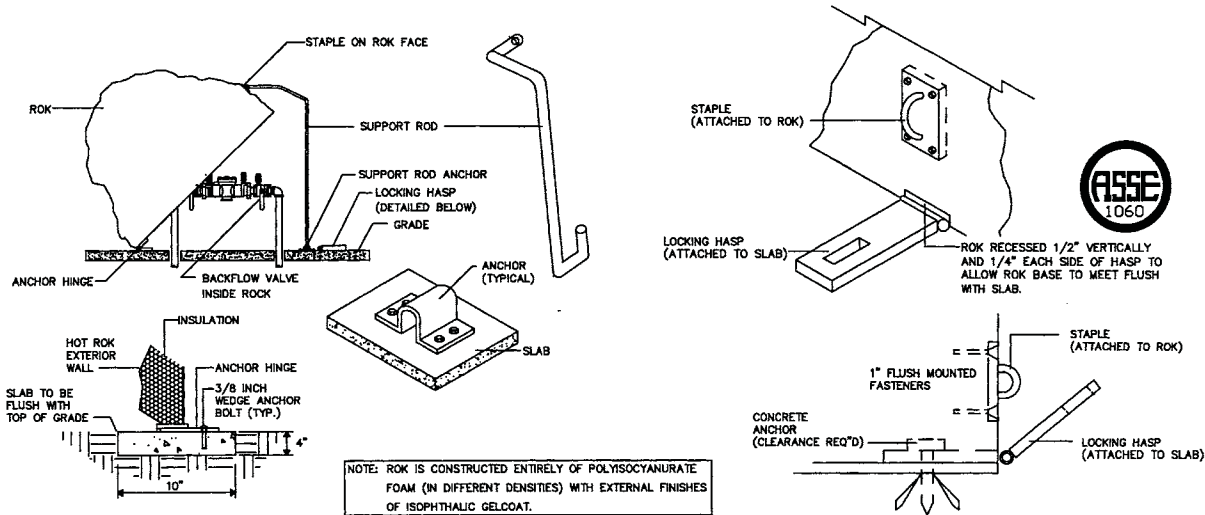
VALVE & PUMP ENCLOSURES

SPECIFICATION FOR THE CLASSIC ROK:

The decorative landscaping enclosure, certified (and labeled) to ASSE 1060, shall be of min. 1/4" tk. 30 pound density polyisocyanurate foam. Exterior will be a UV inhibited isophthalic polyester coating, colored as specified. Insulation, when required, shall be min. 1/4" tk. (R8), unicellular, non-wicking, polyisocyanurate, frothed or sprayed in place (not glued or pinned). Enclosure shall utilize a flip up design for maintenance access or provide for removal of the entire unit. Drains shall be sized for full port backflow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASSPAD™ through the hinge from within the enclosure w/steel anchors with the opposite end requiring a single padlock for security purposes.

Heat, when required, will protect the piping and equipment from exterior temperatures to -30o F and be thermostatically controlled. UL or ETL listed self regulating cable(s) or wall mounted air heater(s) will be sized to maintain the equipment at +40oF, in accordance with N.F.P.A. 3-3.1.8 & 3-6.1.3.2. Heat source shall be mounted a minimum of 7" above the slab unless it is UL or ETL certified and NEC approved for submersion. Power source shall be protected with a ground fault interrupting receptacle, U.L. 943, N.E.M.A.3R, installed by others inside the enclosure.

HOT ROK (INS. & HEAT)	Old HOT ROK NO. (INS. & HEAT)	HOT ROK (INSULATED)	OLD HOT ROK (NO HEAT)	Inside Width	Inside Length	Inside Height	Heat	Shipping Weight	Pad Size
HT013026024	HR1	LT013026024	LR1	13	26	24	60W	75#	48 x 32
HT019048040	HR2	LT019048040	LR2	19	48	40	90W	200#	72 x 40
HT043043048	HR4FE	LT043043048	LR4FE	43	43	48	2-90W	395#	74 x 74



NOTES:

1. PROVIDE APPLICABLE GFI PROTECTED POWER, U.L. STND. 943-NEMA 3R, INSIDE ENCLOSURES REQUIRING HEAT. MOUNT AT LEAST 6" ABOVE ANY DISCHARGE POINT AND NEAR THE PIPE RISER ON THE ENCLOSURE ACCESS SIDE - OR - PER LOCAL CODE.
2. POUR A FULL CONCRETE PAD 4" THICK AROUND VALVE, ALLOWING A MINIMUM 1" RADIAL SPACE BETWEEN RISER AND PAD - OR - POUR A 10" WIDE X 4" DEEP FOOTER AT EACH END FOR ANCHOR HINGE AND ROD ANCHOR / LOCKING HASP.
3. PLACE HOT ROK® OVER VALVE ONTO PAD OR FOOTER.
4. USE A MASONRY BIT TO DRILL THROUGH ANCHOR HINGE. INSERT CONCRETE SCREWS AND BOLT FIRMLY TO CONCRETE.
5. MARK AND MOUNT LOCKING HASP.
6. MARK AND MOUNT SUPPORT ROD ANCHOR.
7. FOR ROKS USING SELF REGULATING TAPE HEAT SOURCE, SECURE TAPE TO VALVE WITH PIPE TIES OR FIBERGLASS / ELECTRICIAN'S TAPE. NO PIPE INSULATION IS NECESSARY. THE HOT-ROK® ENCLOSURE PROVIDED THE NECESSARY INSULATION.
8. PLUG THE HEAT SOURCE INTO THE SPECIFIED CIRCUIT / RECEPTACLE, AFTER VERIFYING PROPER VOLTAGE.
9. LOWER ROK AND SECURE HASP TO STAPLE VIA PAD LOCK.



MEMBERS OF:



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Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

THE
FIBERGLASS



VALVE & PUMP ENCLOSURES

**THE ATTRACTIVE ENCLOSURE
THAT ENHANCES THE APPEARANCE OF YOUR PROPERTY**



THIS FIBERGLASS ROK HAS ALL THE FEATURES YOU HAVE COME TO EXPECT FROM HOT BOX®, SUCH AS:

- ENGINEERED FREEZE PROTECTION
- DRAINS SIZED FOR FULL PORT DISCHARGE
- TESTING/ MAINTENANCE ACCESS
- VANDAL PROTECTION

IT'S VERSATILE . . .

- AVAILABLE WITH OR WITHOUT HEAT
- AVAILABLE WITH OR WITHOUT INSULATION
- STANDARD COLORS: GRANITE, BROWN, DESERT ROSE
- AVAILABLE WITH OR WITHOUT DRAINS

Plus, it's the best looking enclosure on the market!!!!

- AESTHETICALLY PLEASING
- BLENDS IN WITH THE LANDSCAPE

STANDARD COLORS



Granite



Brown



Desert Rose

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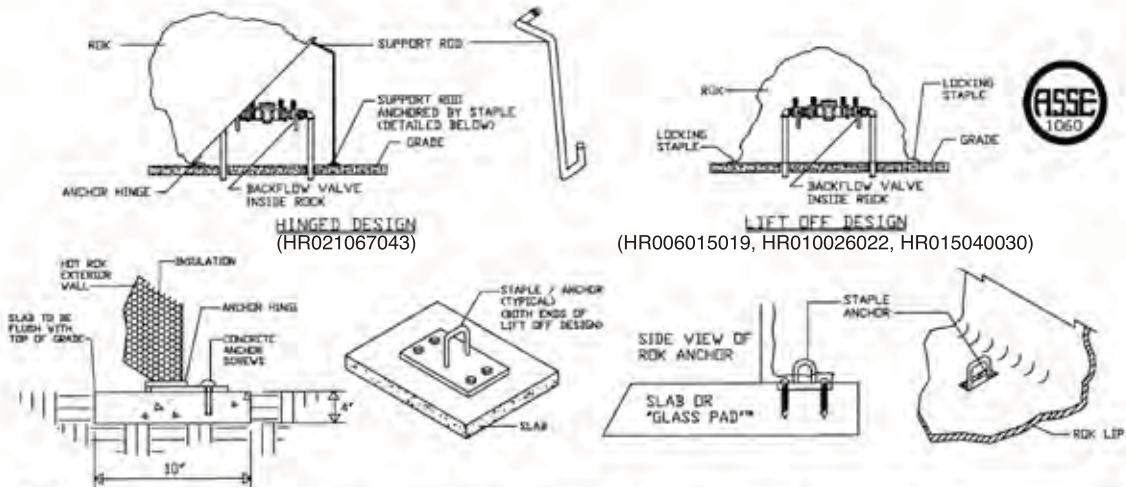
VALVE & PUMP ENCLOSURES

SPECIFICATION (INSULATED WITH HEAT):

The decorative landscaping enclosure, certified (and labeled) to ASSE 1060, shall be of min. 1/8" tk. thixotropic polyester resin reinforced w/fiberglass strand. Exterior will be a UV inhibited isophthalic polyester gel coat, colored as specified. Insulation shall be min. 1-1/4" tk. (R8), unicellular non-wicking, polyisocyanate, frothed or sprayed in place (not glued or pinned). Enclosure shall utilize a flip up design for maintenance access or provide for removal of the entire unit. Drains shall be sized for full port backflow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASS PAD™ through the hinge from within the enclosure w/steel anchors with the opposite end requiring a single padlock for security purposes.

Heat will protect the piping and equipment from exterior temperatures to -30° F and be thermo- statically controlled. UL or ETL listed self-regulating cable(s) or wall mounted air heater(s) will be sized to maintain the equipment at +40°F, in accordance with N.F.P.A. 3-3.1.8 & 3-6.1.3.2. Heat source shall be mounted a minimum of 7" above the slab unless it is UL or ETL certified and NEC approved for submersion. Power source shall be protected with a ground fault interrupting receptacle, U.L. 943, N.E.M.A.3R, installed by others inside the enclosure.

HOT ROK (INSULATION & HEAT)	Old HOT ROK NO. (INSULATION & HEAT)	Inside Width	Inside Length	Inside Height	Heat	Shipping Weight	Pad Size	GLASS PAD	OLD GLASS PAD
HR006015019	GHR.75	06	15	19	30W	20#	27 x 21	GG018024005	GPGLR.75
HR010026022	GHR1	10	26	22	60W	55#	40 x 30	GG030040005	GPGLR1
HR015040030	GHR2	15	40	30	90W	85#	51 x 26	GG023048005	GPGLR2
HR021067043	GHR3	21	67	43	2-90W	325#	90 x 40		N/A



NOTES:

- PROVIDE APPLICABLE GFI PROTECTED POWER, U.L. STND. 943-NEMA 3R, INSIDE ENCLOSURES REQUIRING HEAT. MOUNT AT LEAST 6" ABOVE ANY WATER DISCHARGE POINT AND NEAR THE PIPE RISER ON THE ENCLOSURE ACCESS SIDE - OR - PER LOCAL CODE.
- POUR A FULL CONCRETE PAD 4" THICK AROUND VALVE, ALLOWING A MINIMUM 1" RADIAL SPACE BETWEEN VALVE RISERS AND PAD.
OR
INSTALL ON A "GLASS PAD™".
- PLACE HOT ROK® OVER VALVE ONTO PAD OR FOOTER.
- USE A MASONRY BIT TO DRILL THROUGH ANCHOR HINGE.
A. INSERT CONCRETE SCREWS AND BOLT FIRMLY TO CONCRETE.
- MARK AND MOUNT LOCKING STAPLE.
- FOR ROKS USING SELF REGULATING TAPE HEAT SOURCE, SECURE TAPE TO VALVE WITH WIRE TIES OR ELECTRICIAN'S TAPE. NO COVERING IS NECESSARY. THE HOT ROK® PROVIDES THE NECESSARY INSULATION.
- PLUG THE HEAT SOURCE INTO THE SPECIFIED CIRCUIT, AFTER VERIFYING PROPER VOLTAGE
- LOWER ROK AND SECURE STAPLE VIA PAD LOCK.



MEMBERS OF:



Job Name _____	Contractor _____
Job Location _____	Approval _____
Engineer _____	Contractor's P.O. No. _____
Approval _____	Representative _____

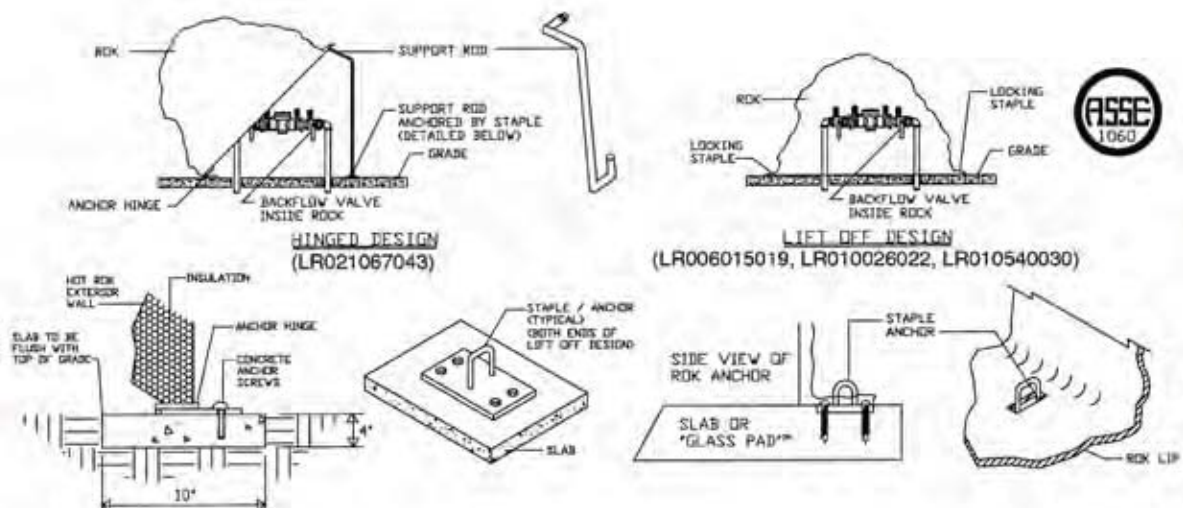


VALVE & PUMP ENCLOSURES

SPECIFICATION (INSULATED WITHOUT HEAT):

The decorative landscaping enclosure, certified (and labeled) to ASSE 1060, shall be of min. 1/8" tk. thixotropic polyester resin reinforced w/fiberglass strand. Exterior will be a UV inhibited isophthalic polyester gel coat, colored as specified. Insulation shall be min. 1-1/4" tk. (R8), unicellular non-wicking, polyisocyanate, frothed or sprayed in place (not glued or pinned). Enclosure shall utilize a flip up design for maintenance access or provide for removal of the entire unit. Drains shall be sized for full port backflow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASS PAD™ through the hinge from within the enclosure w/steel anchors with the opposite end requiring a single padlock for security purposes.

HOT ROK (INSULATED)	Old HOT ROK NO. (NO HEAT)	Inside Width	Inside Length	Inside Height	Shipping Weight	Pad Size	GLASS PAD	OLD GLASS PAD
LR006015019	GHR.75	06	15	19	20#	27 x 21	GG018024005	GPGLR.75
LR010026022	GHR1	10	26	22	55#	40 x 30	GG030040005	GPGLR1
LR015040030	GHR2	15	40	30	85#	51 x 26	GG023048005	GPGLR2
LR021067043	GHR3	21	67	43	325#	90 x 40		N/A



NOTES:

- POUR A FULL CONCRETE PAD 4" THICK AROUND VALVE, ALLOWING A MINIMUM 1" RADIAL SPACE BETWEEN VALVE RISERS AND PAD.
OR
INSTALL A "GLASS PAD™".
- PLACE POLY ROK™ OVER VALVE ONTO PAD OR FOOTER.
- MARK LOCKING STAPLE. POSITION ON CONCRETE.
- USE A MASONRY BIT TO DRILL THROUGH ANCHOR STAPLE.
A. INSERT CONCRETE SCREWS AND BOLT FIRMLY TO CONCRETE.
- LOWER ROK AND SECURE STAPLE VIA PAD LOCK.



MEMBERS OF:



Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

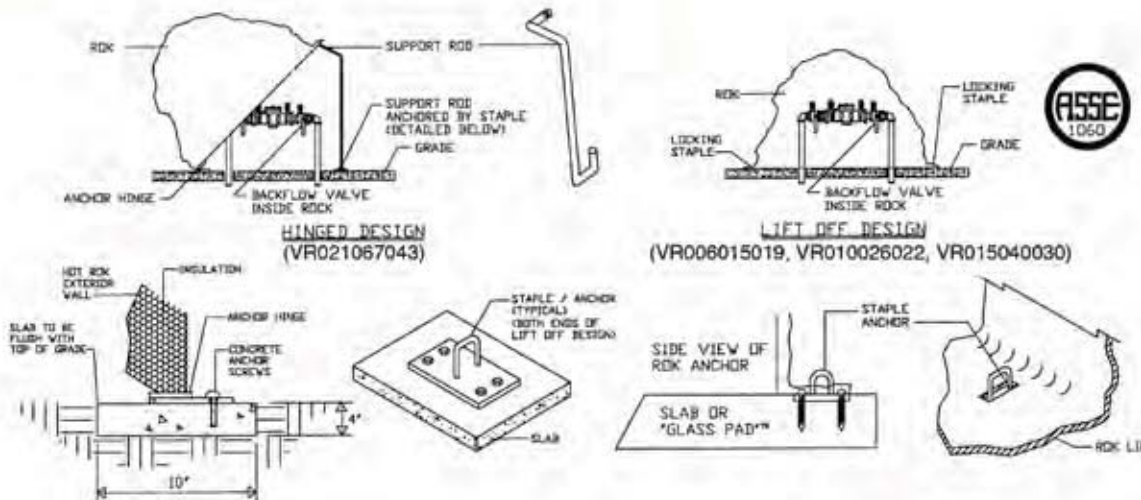


VALVE & PUMP ENCLOSURES

SPECIFICATION (NO INSULATED/NO HEAT):

The decorative landscaping enclosure, certified (and labeled) to ASSE 1060, shall be of min. 1/4" tk. thixotropic polyester resin reinforced w/fiberglass strand. Exterior will be a UV inhibited isophthalic polyester gel coat, colored as specified. Insulation shall be min. 1-1/4" tk. (R8), unicellular non-wicking, polyisocyanate, frothed or sprayed in place (not glued or pinned). Enclosure shall utilize a flip up design for maintenance access or provide for removal of the entire unit. Drains shall be sized for full port backflow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASS PAD™ through the hinge from within the enclosure w/steel anchors with the opposite end requiring a single padlock for security purposes.

HOT ROK (NO INS. OR HEAT)	Old HOT ROK NO.	Inside Width	Inside Length	Inside Height	Shipping Weight	Pad Size	GLASS PAD	OLD GLASS PAD
VR006015019	VGGLR.75	09	18	20	20#	27 x 21	GG018024005	GPGLR.75
VR010026022	VGGLR1	13	29	23	41#	40 x 30	GG030040005	GPGLR1
VR015040030	VGGLR2	18	43	31	75#	51 x 26	GG023048005	GPGLR2
VR021067043	VGGLR3	24	70	44	310#	90 x 40		N/A



NOTES:

- POUR A FULL CONCRETE PAD 4" THICK AROUND VALVE, ALLOWING A MINIMUM 1" RADIAL SPACE BETWEEN VALVE RISERS AND PAD.
OR
INSTALL A "GLASS PAD™" MODEL #GG027037005 AND GG022056005.
- PLACE POLY ROK™ OVER VALVE ONTO PAD OR FOOTER.
- MARK LOCKING STAPLE POSITION ON CONCRETE.
- USE A MASONRY BIT TO DRILL THROUGH ANCHOR STAPLE.
A. INSERT CONCRETE SCREWS AND BOLT FIRMLY TO CONCRETE.
- LOWER ROK AND SECURE STAPLE VIA PAD LOCK.



MEMBERS OF:

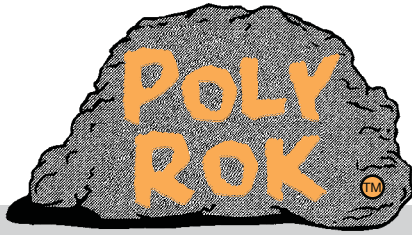


Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____



INSULATED & UNINSULATED VALVE & PUMP ENCLOSURES

THE ATTRACTIVE, ECONOMICAL, ENCLOSURE THAT ENHANCES THE APPEARANCE OF YOUR PROPERTY



LQ010026022



LQ012043027

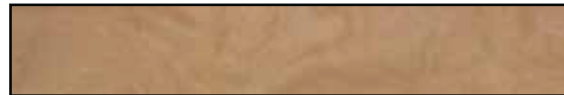


LQ010026022

Standard Colors in Either Size



Granite



Brown

THE LIFELIKE POLYETHYLENE ROK THAT OFFERS THE QUALITY OF Hot Box® AT A VERY COMPETITIVE PRICE

Developed with the irrigation market in mind PolyRok™ is sized for 3/4"-2" backflow devices, PVB's and small pumps.

FEATURES

- Lifelike Shape and Coloring
- Testing/Maintenance Access
- Durable Polyethylene Shell
- Drain Sizing for Full Port Discharge
- ASSE 1060 Certified

BENEFITS

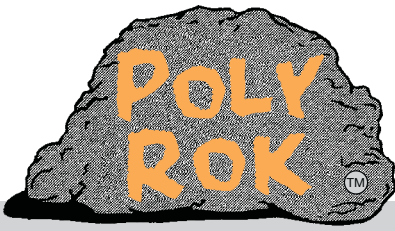
- Landscape Friendly
- Vandal Protection
- Code Compliance
- Optional Freeze Protection Qualities
- Low Cost Installation



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INSULATED & UNINSULATED VALVE & PUMP ENCLOSURES

SPECIFICATION FOR THE POLY ROK™:

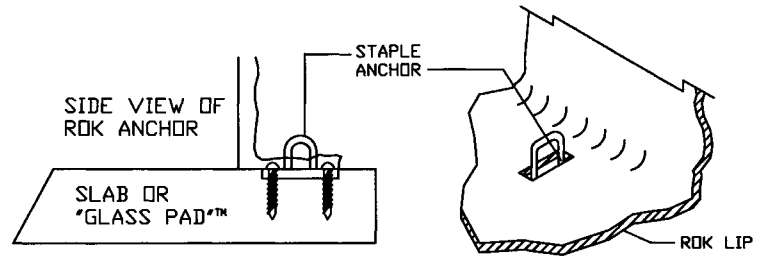
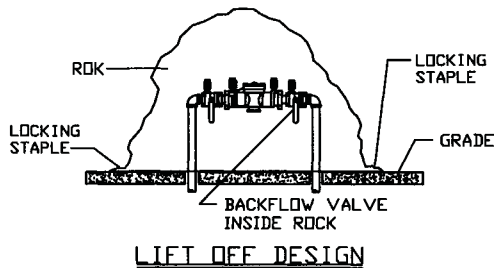
The decorative landscaping enclosure, **certified** (and labeled) to ASSE 1060, shall be of min. 1/8" tk. UV stabilized LMDPE low density hexane copolymer resin, colored as specified. Insulation, when required, shall be min. 1 1/4" tk. (R8), unicellular, non-wicking, polyisocyanurate, frothed or sprayed in place (not glued or pinned). Enclosure shall utilize a flip up design for maintenance access or provide for removal of the entire unit. Drains shall be sized for full port backflow discharge and designed for "one way" exit, inhibiting intrusion of debris and/or vermin. Enclosure shall be anchored to a concrete slab or GLASSPAD™ through the hinge from within the enclosure w/steel anchors with the opposite end requiring a single padlock for security purposes.

Heat, when required, will protect the piping and equipment from exterior temperatures to -30o F and be thermostatically controlled. UL or ETL listed self regulating cable(s) or wall mounted air heater(s) will be sized to maintain the equipment at +40oF, in accordance with N.F.P.A. 3-3.1.8 & 3-6.1.3.2. Heat source shall be mounted a minimum of 7" above the slab unless it is UL or ETL certified and NEC approved for submersion. Power source shall be protected with a ground fault interrupting receptacle, U.L. 943, N.E.M.A.3R, installed by others inside the enclosure.

POLY ROK (W/HEAT)	Old POLY ROK NO. (INS. & HEAT)	POLY ROK (W/HEAT)	Old POLY ROK NO. (INS. & HEAT)	Inside Width	Inside Length	Inside Height	Heat	Shipping Weight	Pad Size	GLASS PAD	OLD GLASS PAD
HQ010026022	PHR1	LQ010026022	PLR1	10	26	22	60W	25#	40 x 27	GG030040005	GPGLR1
HQ012043027	PHR2	LQ012043027	PLR2	12	43	27	90W	90#	56 x 22	GG023048005	GPGLR2

POLY ROK (NO INS. OR HEAT)	Old POLY ROK NO. (NO INS. OR HEAT)	Inside Width	Inside Length	Inside Height	Shipping Weight	Pad Size	GLASS PAD	OLD GLASS PAD
VQ010026022	VGPLR1	13	29	23	25#	40 x 27	GG030040005	GPGLR1
VQ012043027	VGPLR2	15	46	28	90#	56 x 22	GG023048005	GPGLR2

NOTE: ROK IS CONSTRUCTED OF POLYETHYLENE INSULATED WITH POLYISOCYANURATE FOAM.



NOTES:

- PROVIDE APPLICABLE GFI PROTECTED POWER, U.L. STND. 943-NEMA 3R, INSIDE ENCLOSURES REQUIRING HEAT. MOUNT AT LEAST 6" ABOVE ANY WATER DISCHARGE POINT AND NEAR THE PIPE RISER ON THE ENCLOSURE ACCESS SIDE - OR - PER LOCAL CODE.
- POUR A FULL CONCRETE PAD 4" THICK AROUND VALVE, ALLOWING A MINIMUM 1" RADIAL SPACE BETWEEN VALVE RISERS AND PAD.
OR
INSTALL ON A "GLASS PAD™" MODEL #GG027037005 AND GG022056005.
- PLACE POLY ROK™ OVER VALVE ONTO PAD OR FOOTER.
- MARK LOCKING STAPLE. POSITION ON CONCRETE.
- USE A MASONRY BIT TO DRILL THROUGH ANCHOR STAPLE.
A. INSERT CONCRETE SCREWS AND BOLT FIRMLY TO CONCRETE.
- FOR ROKS USING SELF REGULATING TAPE HEAT SOURCE, SECURE TAPE TO VALVE WITH WIRE TIES OR ELECTRICIAN'S TAPE. NO COVERING IS NECESSARY. THE POLY ROK™ PROVIDES THE NECESSARY INSULATION.
- PLUG THE HEAT SOURCE INTO THE SPECIFIED CIRCUIT, AFTER VERIFYING PROPER VOLTAGE
- LOWER ROK AND SECURE STAPLE VIA PAD LOCK.



MEMBERS OF:



Job Name _____ Contractor _____
 Job Location _____ Approval _____
 Engineer _____ Contractor's P.O. No. _____
 Approval _____ Representative _____

PR92608

GLASS/PAD™

FIBERGLASS MOUNTING PADS FOR BACKFLOW ENCLOSURES!



- Sized for the enclosure of your choice
- Guaranteed good-looking job
- No guesswork



- Installed in half the time with half the tools at half the cost!



- The look of concrete without the cost
- "One trip" to install valve, pad and enclosure. (No waiting for concrete to dry.)



• Glass Pad™

GLASS FIBERGLASS MOUNTING PADS

NEW ENCLOSURE NO.	OLD ENCLOSURE NO.	GLASS PAD#	Old GLASS PAD #	SIZE	WEIGHT
HF,LF,VF011019022, HC,LC,VC009018018, HC,LC,VC009018024	(HB,LB,VG) .75 + VC1 & 1T	GG019027005	GP.75	19 x 27	12#
HF,LF,VF013027023, HC,LC,VC012026020, HC,LC,VC012026028	(HB,LB,VG) 1 + VC2 & 2T	GG021035005	GP1	21 x 35	18#
HF,LF,VF021033025	(HB,LB,VG) 1.5	GG030042005	GP1.5	30 x 42	22#
HF,LF,VF013039028	(HB,LB,VG) 2	GG021047005	GP2	21 x 47	19#
HF,LF,VF035045035	(HB,LB,VG) 3000	GG046055005	GP3000	46 x 55	40#
HF,LF,VF044053044	(HB,LB,VG) 4000	GG055063005	GP4000	55 x 63	50#
HF,LF,VF052061052	(HB,LB,VG) 5000	GG063074005	GP5000	63 x 74	60#
HR,LR,VR006015019	(GHR,GLR,VGGLR) .75	GG018024005	GPGR.75	18 x 24	9#
HR,LR,VR010026022	(GHR,GLR,VGGLR)1	GG030040005	GPGR1	30 x 40	16#
HR,LR,VR015040030	(GHR,GLR,VGGLR)2	GG023048005	GPGR2	23 x 48	19#
HQ,LQ,VQ010026022	(PHR,PLR,VGPLR)1	GG027037005	GPPR1	27 x 37	16#
HQ,LQ,VQ012043027	(PGR,PLR,VGPLR)2	GG022056005	GPPR2	22 x 56	19#
LV018018024	AVG1824	GG028028005	GP1824	28 x 28	17#
HE,LE,VE014027026, HP,LP,VP009024023	(HEZ,EZ,VGEZ,HPEZ, PEZ,VGPEZ)1	GG026041005	GPEZ1	26 x 41	20#
HW,LW,VW016031027	(FSH,FS,VGFS)1	GG028038005	GPFS1	28 x 38	16#



- No concrete to pour
- No forms to build



- The practical alternative to traditional concrete slab installations



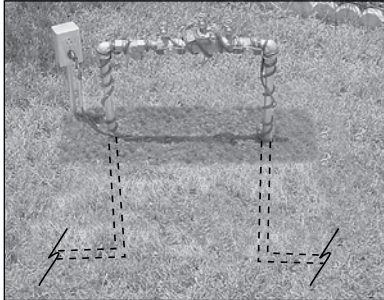
A DIVISION OF HUBBELL POWER SYSTEMS
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INSTALLATION GUIDELINES

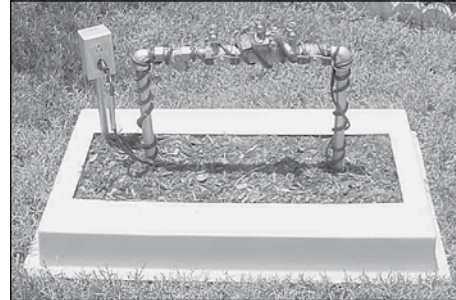
THE GLASS PAD™ IS DESIGNED TO ALLOW FOR THE INSTALLATION OF THE VALVE, PAD AND ENCLOSURE IN ONE TRIP TO THE JOB SITE:

STEP 1



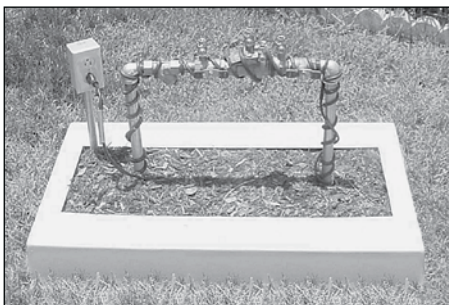
- INSTALL VALVE (AND ELEC. IF USED) TO CORRECT ELEVATION AND BACKFILL TO WITHIN 2" OF FINISHED GRADE.

STEP 2



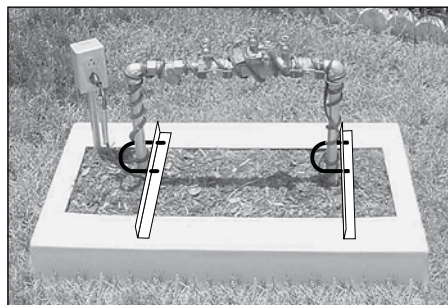
- INSTALL GLASS PAD™ OVER VALVE ASSEMBLY.

STEP 3



- FINISH BACK FILLING WITH GLASS PAD™ FLANGE 2" BELOW GRADE.
- INTERIOR OF GLASS PAD™ SHOULD BE BACKFILLED WITH DIRT, ROCK OR QUICKCRETE®.

STEP 4



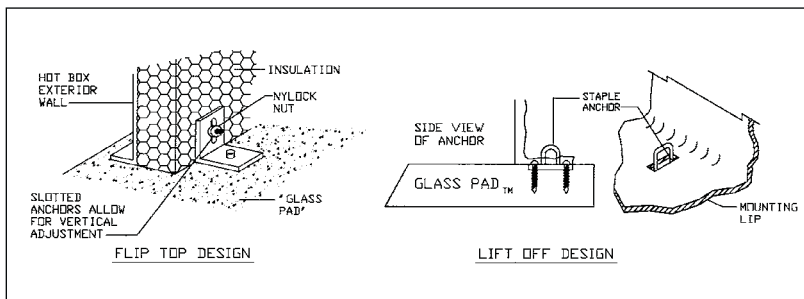
- ANCHOR RISERS TO GLASS PAD™ WITH ANGLES AND "U" BOLTS (FURNISHED)

STEP 5



- DROP ENCLOSURE OVER INSTALLATION.

STEP 6



- ANCHOR ENCLOSURE TO GLASS PAD™ PER THE INSTRUCTIONS PROVIDED WITH THE ENCLOSURE.

STEP 7



- CLOSE ENCLOSURE, INSTALL PADLOCK AND YOU'RE DONE!



HOTBOX[®]

"The Engineered Enclosure"[®]

-VS.-

"The Kit"

Installation Shoot-out

1. Set factory assembled back section.



2. Set factory assembled front section.



3. Install internal anchors.



matching overlapping
"tongue & groove" joints.

4. Secure wingnut.



5. Close door, place padlock and walk away.



HOTBOX[®]
"The Engineered Enclosure"[®]

924 Lane Avenue North
Jacksonville, Florida 32254

Phone 904.786.0204 • Fax 904.783.6965
800.736.0238 • www.hot-box.com

1. Count pieces and read instructions carefully.



2. Assemble pieces "A" to pieces "B".



3. Align each "A" piece with ends of LOA(left over angle).



4. Set piece "D" on pieces "A-B" & fasten externally.



5. Insert screws into outside of "A-B" pieces.



6. Use LOA to pull pieces "B" to LOA, then attaching anchor angle to piece "B".



7. Install roof clips in piece "D", then attach piece "D" to "B".



For steps 8 and 9, repeat steps 6 and 7 for the other side.

10. Assemble door hardware when needed.



11. Set "C" pieces in place.



12. Remove wrapper, clean up and GET OUT OF THERE.



Don't let "Kit" enclosures bury you in labor costs! When installed cost is much more than your quoted price, you've bought a "Kit." Get the original. Get a HOT Box!



Product Installation

VALVE COVER™

INSULATED & UNINSULATED LANDSCAPE ENCLOSURES



- PROVEN PROTECTION FROM THE ELEMENTS AND VANDALISM!
- PROTECT BACKFLOW PREVENTION ASSEMBLIES, PRESSURE VACUUM BREAKERS, METERS, CONTROL VALVES, WELL HEADS...

PROTECTION:

- Lockable
- "Out of Sight.... Out of Mind"
- Inert Fiberglass Lasts for Years
- Available with Optional Freeze Protection Qualities
- Easy Installation

AESTHETICS:

- Yacht Quality Craftsmanship
- U.V. Resistant Gel Coat Surface
- Landscape Friendly
- No Rusting Metal
- No Weeds Growing Through Cage

CODE COMPLIANCE:

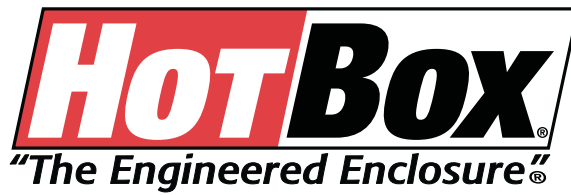
- ASSE 1060 Certified
- Drains Sized for RPZ Backflow Units
- Testing/Maintenance Access Ease
- Single Point Locking

VALVE COVER (W/HEAT)	Old VALVE COVER (W/HEAT)	VALVE COVER (NO HEAT)	Old VALVE COVER (NO HEAT)	ENCLOSURE SIZE (INSIDE)	HEAT	MOUNTING PAD SIZE	GLASS PAD	OLD GLASS PAD	SHIPPING WEIGHT
HC009018018	VCH1	LC009018018	VC1	9W x 18L x 18H	30W	27 x 19	GG019027005	GP.75	25#
HC009018024	VCH1T	LC009018024	VC1T	9W x 18L x 24H	30W	27 x 19	GG019027005	GP.75	28#
HC012026020	VCH2	LC012026020	VC2	12W x 26L x 20H	60W	35 x 21	GG021035005	GP1	30#
HC012026028	VCH2T	LC012026028	VC2T	12W x 26L x 28H	60W	35 x 21	GG021035005	GP1	35#

VALVE COVER (NO INSUL.)	Old VALVE COVER (NO INSUL.)	ENCLOSURE SIZE (INSIDE)	MOUNTING PAD SIZE	GLASS PAD	OLD GLASS PAD	SHIPPING WEIGHT
VC009018018	VGVC1	11W x 20L x 19H	27 x 19	GG019027005	GP.75	25#
VC009018024	VGVC1T	11W x 20L x 25H	27 x 19	GG019027005	GP.75	28#
VC012026020	VGVC2	14W x 28L x 21H	35 x 21	GG021035005	GP1	30#
VC012026028	VGVC2T	14W x 28L x 29H	35 x 21	GG021035005	GP1	35#



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BULLETIN No. 85: CODES AND SPECIFICATIONS

The following are representative samples of building codes and manufactures' specifications applicable to freeze protection.

ASSE STANDARD #1060 Outdoor Enclosures For Backflow Prevention Assemblies

Section 3.1.1: Enclosures shall contain a heat source capable of maintaining 4°C (40°F) inside the enclosure when subjected to 34°C (-30°F) outside air temperature.

Section 3.2.1: Enclosures shall be designed to support a minimum vertical load of 100 lb./sf.

Section 3.3.1: Depth of water within the enclosure shall not exceed 6 inches during full flow of the backflow preventer relief discharge.

Section 3.5.2: Enclosure shall be designed to be accessed and provide sufficient room for testing and maintenance... drawings shall be submitted by the manufacturer.

AMERICAN SOCIETY OF PLUMBING ENGINEERS • ASPE Data Book – volume 2 - 2000

Chapter 5 - Pg. 144, Par 2: Reduced-pressure-principle devices, double-check valves and vacuum breakers installed in regions subject to freezing must be protected by the insulation of the units in above-ground, heated structures.

..., Par. 18: For reduced-pressure-principle and double-check-valve devices located outside of buildings, consideration should be given to the use of landscaping, etc. to obtain an aesthetically pleasing installation.

..., Par. 19: In a device installed in a deep chamber, the chamber should be a self-venting. Workers Compensation Board regulations require that the air within the chamber be checked for combustible gas and adequate oxygen content before a workman enters the chamber.

International Plumbing Code • 2000

Par. 608.14.1: Outdoor enclosures for backflow prevention devices shall comply with ASSE 1060.

AWWA M-14

Page 39: A reduced pressure backflow assembly must be protected from freezing temperatures.

Page 46: A double check (backflow) valve assembly must be protected from freezing temperatures.

FEBCO

The backflow prevention assembly must be protected from freezing.

WATTS

In an area where freezing conditions can occur, the backflow prevention assembly should be installed on a properly insulated utility building or shelter.

NFPA 13

4-6.4.1.2: Where water-filled supply pipes, risers, system risers, or feed mains pass through open areas, cold rooms, passageways, or other areas exposed to freezing, the pipe shall be protected against freezing by insulated coverings, frostproof casings, or other reliable means capable of maintaining a minimum temperature of 40°F (4°C).

THE NATIONAL ASSOCIATION OF PLUMBING-HEATING-COOLING CONTRACTORS (N.A.P.H.C.C.) National Standard Plumbing Code

Section 2.16 Freezing: The plumbing system shall be protected from freezing or over-overheating. The following conditions shall be met:

- e. In areas with seasonal freezing temperatures, all waste, vent and water supply piping in exterior walls and other areas shall be protected from freezing.

THE COUNCIL OF AMERICAN BUILDING OFFICIALS (C.A.B.O.) One and Two Family Dwelling Code

Section P-2003.6 Freezing: Water, soil, or waste pipe shall not be installed or permitted outside of a building or in an exterior wall unless adequate provision is made to protect such pipe from freezing where necessary.

THE SOUTHERN BUILDING CODE CONGRESS International (S.B.C.C.I) Standard Plumbing Code

Section 407.4 Freezing: A water, soil, or waste pipe shall not be installed or permitted outside of a building or concealed in outside walls or on any place where they may be subject to freezing temperature, unless adequate provision is made to protect them from freezing.

THE BUILDING OFFICIALS & CODE ADMINISTRATORS International, In. (B.O.A.C.) National Plumbing Code

Section P - 308.3 Freezing: In climates with freezing temperatures, plumbing piping in exterior walls or areas subject to freezing temperatures shall be protected against freezing by insulation or heat or both.

THE NATIONAL BUILDING CODE OF CANADA Canadian Plumbing Code 1990

Section 3.5.4 Protected From Frost: Where piping may be exposed to freezing conditions it shall be protected from frost.



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American Society of Sanitary Engineering

Performance Requirements for
**Outdoor Enclosures
for Backflow
Prevention
Assemblies**

An American National Standard

Page i: ...no product may be said to ASSE approved unless the manufacturer...has had his product tested by an official ASSE recognized independent laboratory...

Page V: 1060 Working Group - included (amongst others):

- Watts Regulator
- USC
- HOT BOX[®]
- Hydrocowl
- Febco
- City of Raleigh, NC

Page 1:

1.2.2.1 Classes

1.2.2.1.1 Freeze Protection Enclosures (Class I)

- ...protection to –30oF (with a positive means of heat...)

1.2.2.1.2 Freeze Retardant Enclosures (Class II)

- ...insulated, but not heated, to retard internal enclosure temperature drop...

1.2.2.1.3 Non-Freeze Protection Enclosures (Class III)

- ...vandal protection (and aesthetics) only...no insulation...no heat...

Pages 3 – 9: laboratory testing required...

1. Freeze protection capability (inside a freezer).
2. Structural capacity (100 lb. / sq. ft. roof load).
3. Drainage performance (live water load into enclosure...).
4. Air inlet test (vacuum breakers).
5. Access for testing and maintenance (of equipment housed within).
6. Hinged Access Panel Restraint (held in both open and closed positions – “hands free”).

Page 10:

- 4.3.1 Each enclosure shall have the following information marked on it where is shall be visible after the enclosure has been installed....

Full text available from ASSE in Des Plaines, IL

Table 3
Relief Discharge Design

Backflow Preventer Size		Discharge Rate of 100.0 psi (689.5 kPa)	
inches	mm	GPM	L/s
1/4 - 1/2	6-15	27.0	1.7
3/4 - 1	20 - 25	45.0	2.8
1 1/4 - 2	30 - 50	155.0	9.8
2 1/2 - 3	64 - 75	260.0	16.4
4 - 6	100 - 150	710.0	44.8
8 - 10	200 - 150	710.0	44.8
12 - 16	300 - 400	_____	_____

3.5.4 Criteria

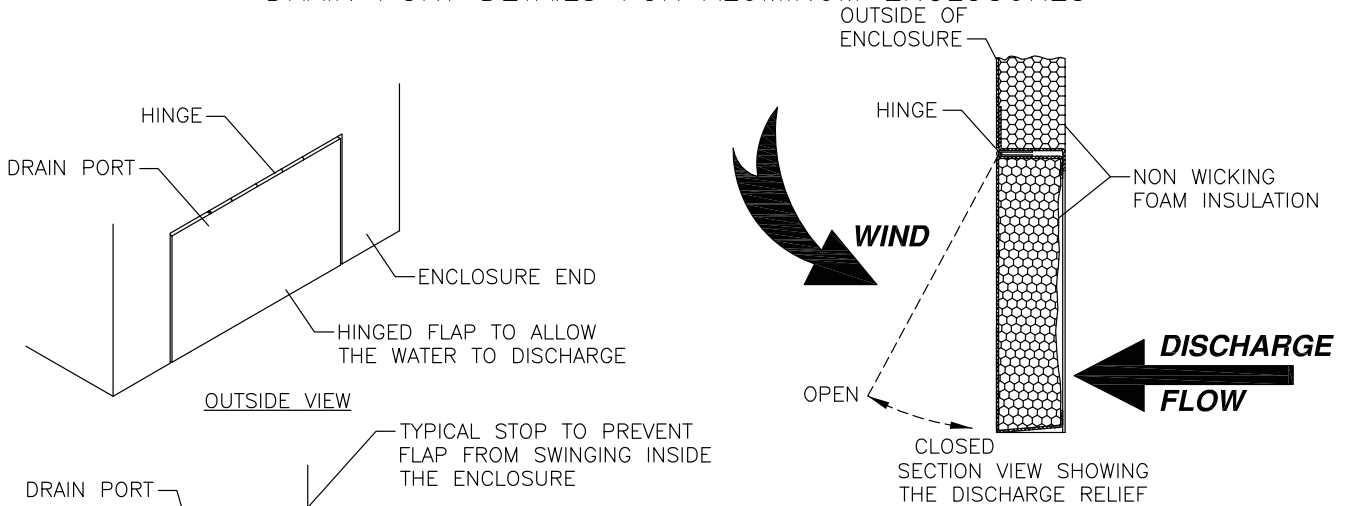
Any water rise greater than 8 inches (203.2 mm) during flow shall result in a rejection of the enclosure. After the flow has stopped, a water level greater than 1/4 inch (6.4 mm) shall result in a rejection of the enclosure.

*Outdoor Enclosures for Fluid Conveying Components
ASSE 1060-2006*

Caution: Consult backflow preventer manufacturer for maximum water discharge rates and size floor drains accordingly following local plumbing code requirements.

MARCH, 2006	ILLUSTRATION ONLY	
DRAIN SIZE REQUIRED FOR RPS DISCHARGE		
BACKFLOW PIPE SIZE	GPM DISCHARGE W/RPZ DUMPING	DIAMETER FLOOR DRAIN REQUIRED
3/4" - 1"	45 GALLONS	4" TO 6"
1-1/4" - 3"	155 GALLONS	5" TO 6"
2-1/2" - 3"	260 GALLONS	6" TO 8"
4" - 6"	710 GALLONS	8" TO 10"
8" - 10"	710 GALLONS	10" - OR - 6" + 8"

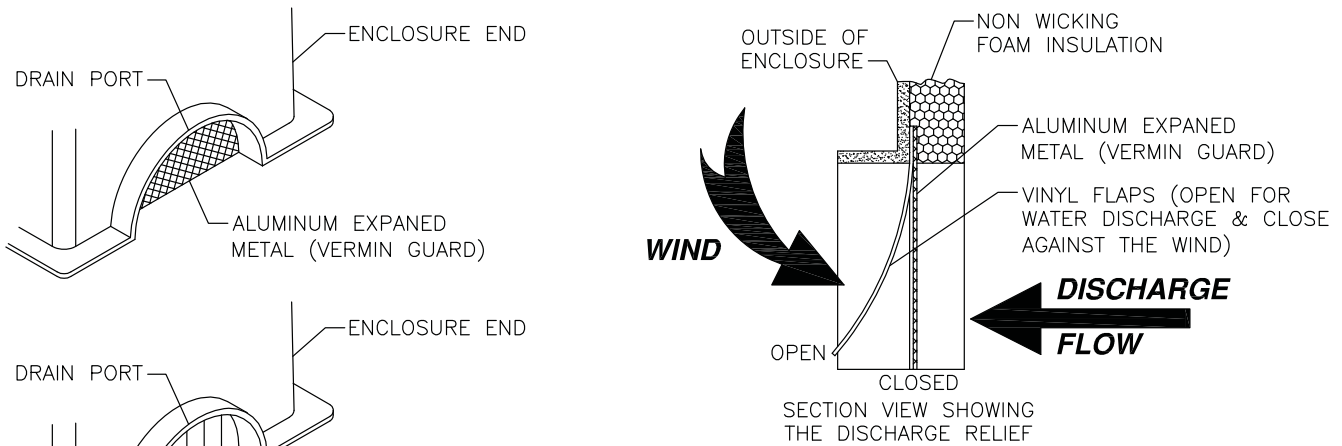
DRAIN PORT DETAILS FOR ALUMINUM ENCLOSURES



BFP SIZE	ENCLOSURE	OLD ENCLOSURE #	DRAIN SIZE	DRAINAGE AREA	BFP DISCHARGE	# PER ENCLOSURE
4"-6"	HA032090050	HB4N	8LX7.5H	7LX6H	750 GPM	4
	HA032090057	HB4E				
	HA036105053	HB6N				
	HA036105064	HB6E				
8"-10"	HA040118058	HB8N	10LX6.5H	9LX5H	1,100 GPM	4
	HA040118074	HB8E				
	HA042142065	HB10N				
	HA042142085	HB10E				

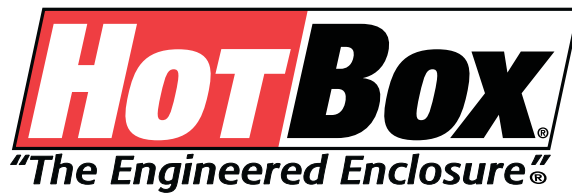
THE DRAINPORTS IN EACH ENCLOSURE ARE SIZED TO ALLEVIATE A FULL DISCHARGE OF THE BACKFLOW PREVENTER. (LAB TESTED PER A.S.S.E. STANDARD #1060.)

DRAIN PORT DETAILS FOR FIBERGLASS ENCLOSURES



BFP SIZE	ENCLOSURE	ENCLOSURE OLD #	DRAIN SIZE	BFP DISCHARGE	# PER ENCL.
3/4"-1"	HF011019022	HB.75	R4"	200 GPM	2
	HF013027023	HB1			
	HF013027035	HB1T			
	HT013026024	HR1			
1 1/4"-2"	HF021033025	HB1.5	R5"	300 GPM	2
	HF013039028	HB2			
	HF013039036	HB2T			
2 1/2"-3"	HF026070045	HB3N	R6"	450 GPM	2
	HF026070055	HB3E			

THE DRAINPORTS IN EACH ENCLOSURE ARE SIZED TO ALLEVIATE A FULL DISCHARGE OF THE BACKFLOW PREVENTER. (LAB TESTED PER A.S.S.E. STANDARD #1060.)



“OPERATIONS AND MAINTENANCE SCHEDULE”

The **HOTBOX**® enclosure is designed for minimum maintenance. However, areas that need to be checked, as a minimum, at the beginning of each cold season and recorded in your files are:

- **Heaters / Thermostats / Exhaust Fans / Alarms:**

1. Insure that the electrical service to the enclosure site and receptacle is live.
2. Inspect the cord and plug for frayed or damages areas.
3. Inspect the receptacle for signs of deterioration.
4. Make sure the connection between the plug and receptacle is tight.
5. Please take the time during the cold season to make sure that the heater and / or accessory operation is satisfactory. (i.e.: in the heater - the bars, thermostat and fan are all separate components.)
 - A. Thermostats on standard **HOT BOX**® heaters are pre-set at the factory and are not adjustable. The range is on at 44 degrees F and off at 50 degrees F.
 - B. To test heaters with pre-set thermostats, spray CO2 on the thermostat bulb to simulate cold temp.
 - C. For older units that feature adjustable heater thermostat, the thermostat should be turned clockwise until the heater activates and then reset to the minimum setting by turning the knob counter-clockwise, after testing is completed.

- **Heater Trace Tapes:**

Note: Heat trace tape does not respond to a drop in ambient temperature. It responds to abject cooling of surfaces such as the risers and backflow prevention device. It does not heat along the entire cable at one time. The tape uses a sensory bulb and is self regulating, heating only those sections of tape that are required to warm cooled portions of riser and backflow prevention devices. Testing is sometimes difficult due to the mechanical nature of the tape.

Steps 1 through 4 are the same as stated above for heaters, etc.

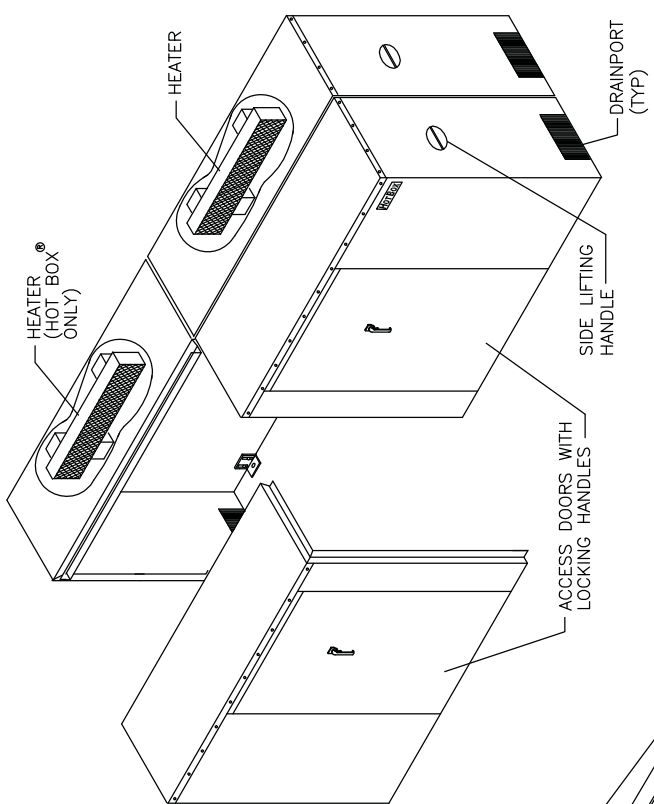
5. Locate the sensory bulb on the end of the tape and apply ice to simulate the lowering of temperature that causes activation. Feel along the cable for areas of warming.
6. Please take the time during the cold season to make sure that the heat trace tape's operation is satisfactory.

- **Enclosure:**

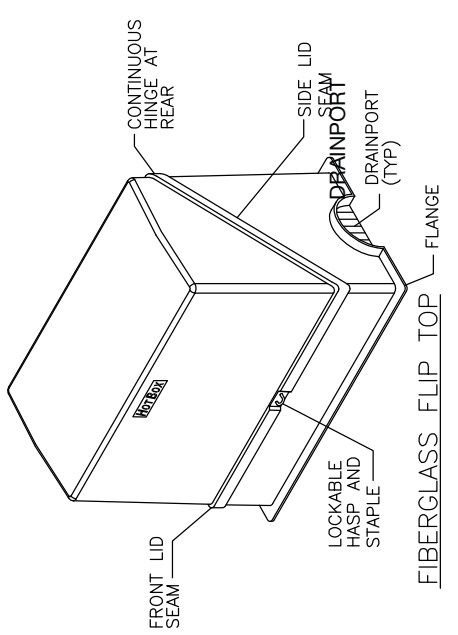
1. Visually inspect the enclosure for physical damage. Examples are cracks, dents, improperly fitted joints or lids, improperly functioning hinges and lid stays, door handles, access panel locking systems, eroding gaskets, ill fitting drain port screen and loose anchors. On custom enclosures, determine if the operation of cam locking devices is correct.
2. Insure that all locks and latches are lubricated and secure.
3. On openings for exposed OS&Y gate valves and siamese fire connections, check that the escutcheons are not damages and that they are secured around the valve or pipe.

- **Notes:**

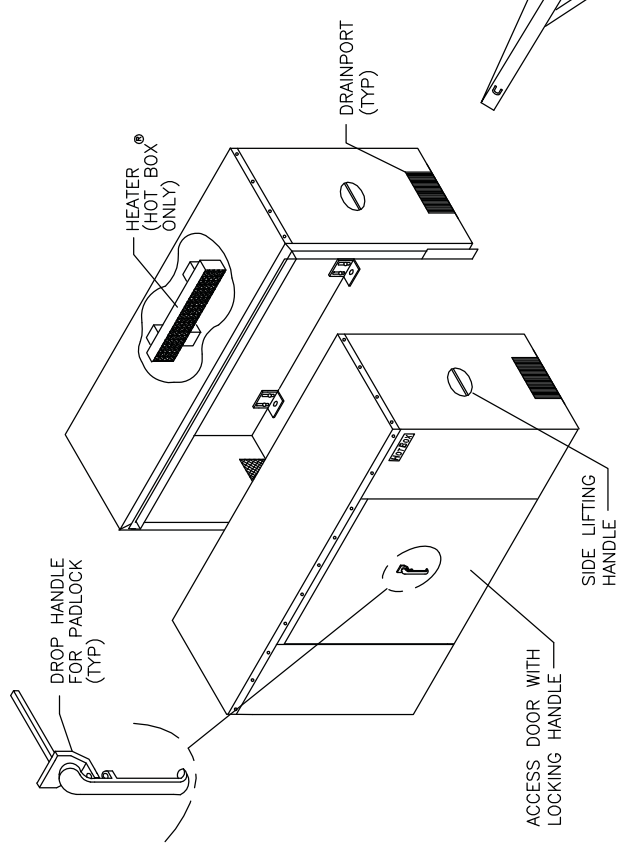
1. We recommend that any electrical components inside or attached to the enclosure be ground fault protected, via receptacle or circuit.
2. We recommend the use of a power outage alarm and a low temperature alarm as back up security to freezing.
3. We recommend that you add this “Operations and Maintenance Schedule” to your maintenance department’s schedule to assure execution.
4. **DO NOT CLIMB, STAND OR JUMP ON ANY PART OF THE ENCLOSURE. IT IS NOT DESIGNED TO SUPPORT ROOF TRAFFIC.**



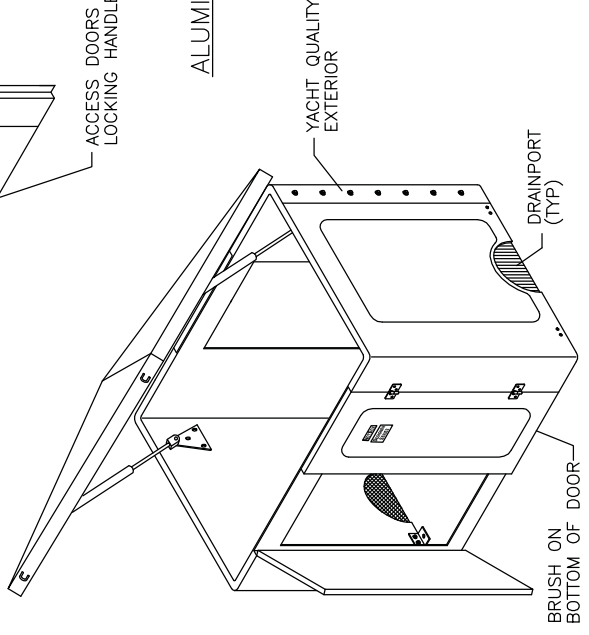
ALUMINUM FOUR SECTION



FIBERGLASS FLIP TOP

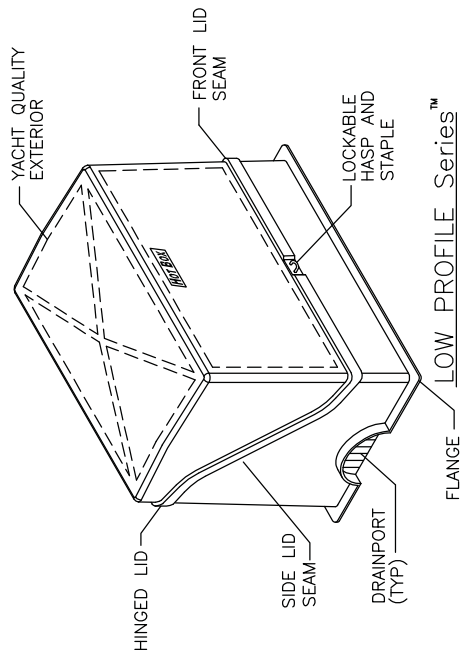


ALUMINUM TWO SECTION



DESIGNER Series™

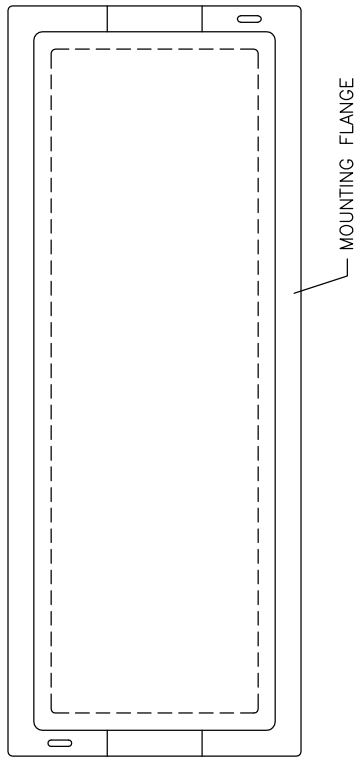
STANDARD ENCLOSURES



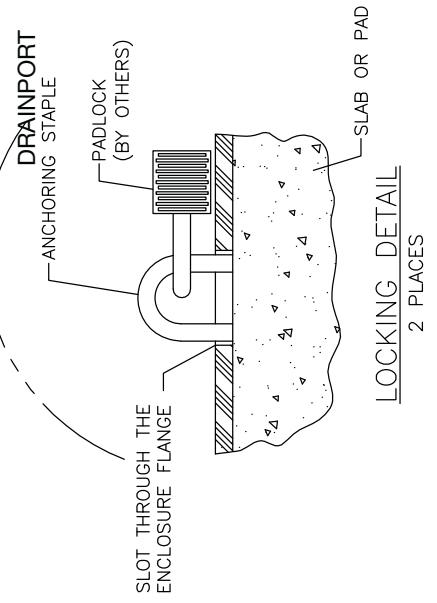
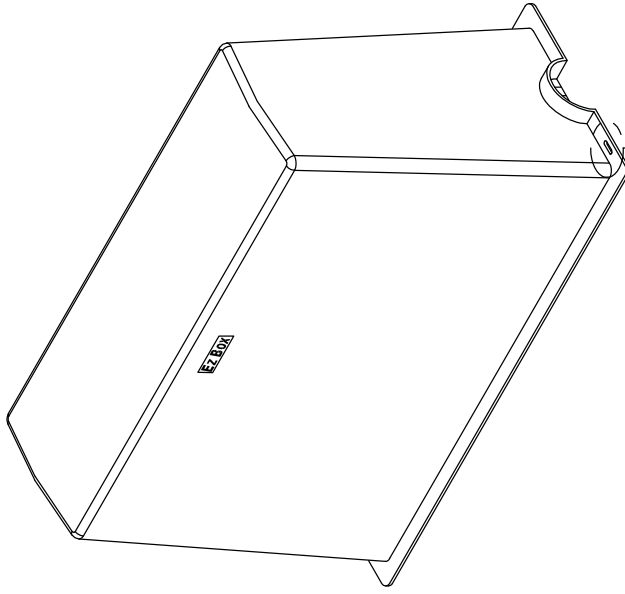
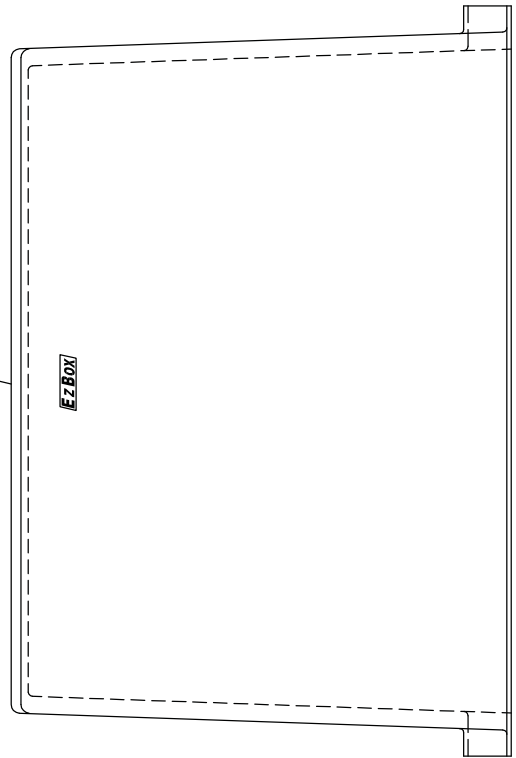
LOW PROFILE Series™

FIBERGLASS EZ BOX ENCLOSURE

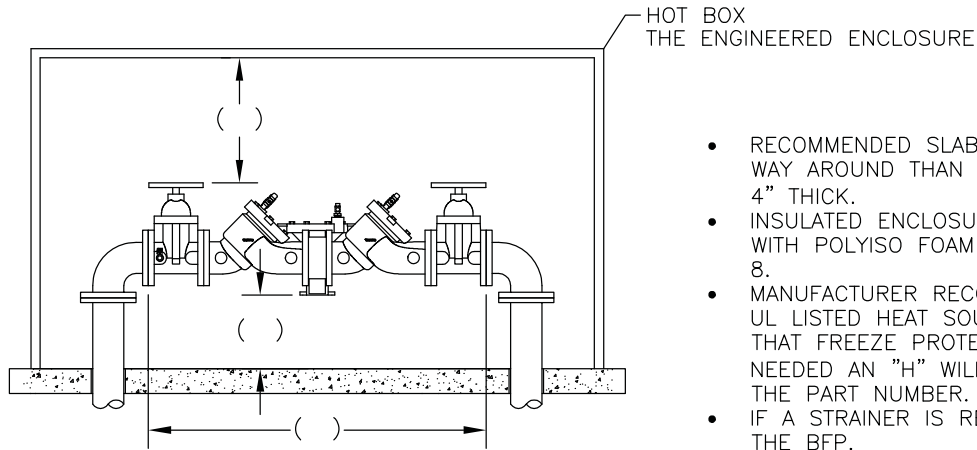
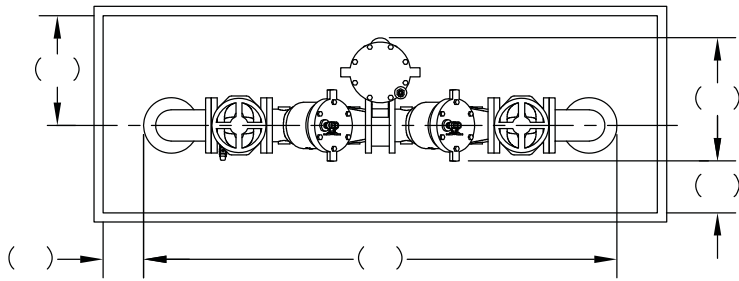
3/4" I.P.S. THROUGH 3" I.P.S.
 ONE PIECE DROP OVER ENCLOSURE
 OPTIONAL HEAT IS AVAILABLE
 STANDARD COLOR: BEIGE (OPTIONS AVAILABLE)



EZ BOX
 THE ENGINEERED ENCLOSURE

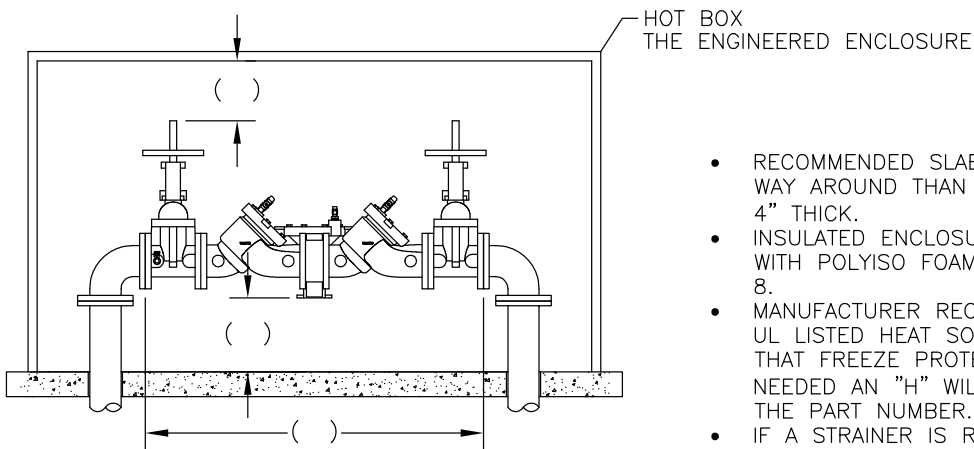
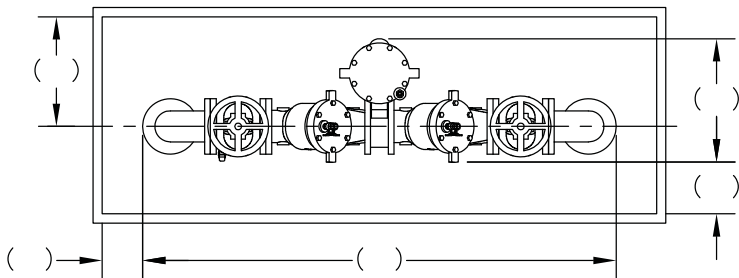


TYPICAL NRS HOT BOX INSTALLATION



- RECOMMENDED SLAB SIZE IS 5" LARGER ALL THE WAY AROUND THAN THE SPECIFIED ENCLOSURE AND 4" THICK.
- INSULATED ENCLOSURES ARE INTERNALLY LINED WITH POLYISO FOAM FOR A MINIMUM R FACTOR OF 8.
- MANUFACTURER RECOMMENDS ENCLOSURES HAVE A UL LISTED HEAT SOURCE WHEN IT IS DETERMINED THAT FREEZE PROTECTION IS NEEDED. IF HEAT IS NEEDED AN "H" WILL REPLACE THE FIRST LETTER IN THE PART NUMBER.
- IF A STRAINER IS REQUIRED IT IS LOCATED BEFORE THE BFP.

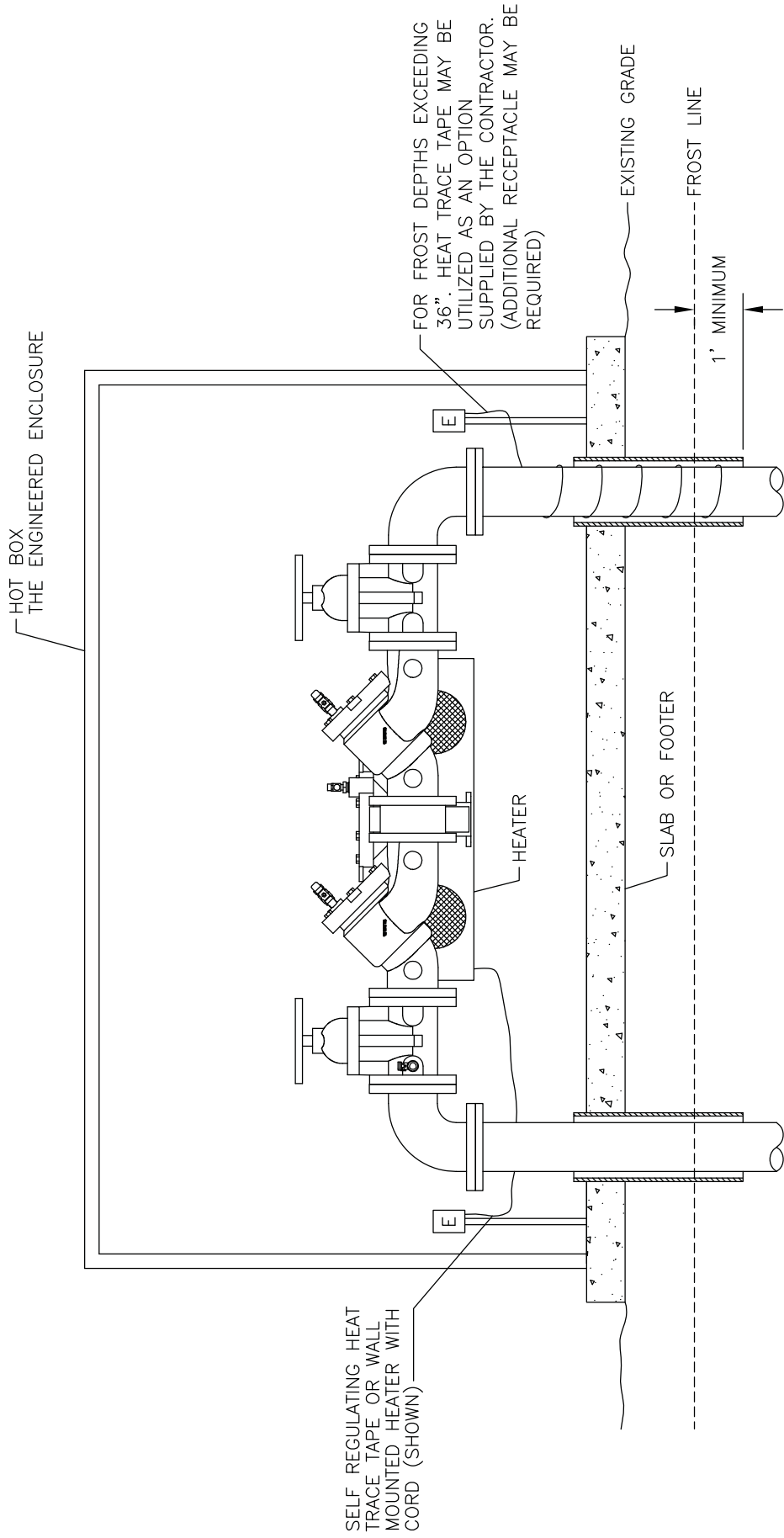
TYPICAL OS&Y HOT BOX INSTALLATION

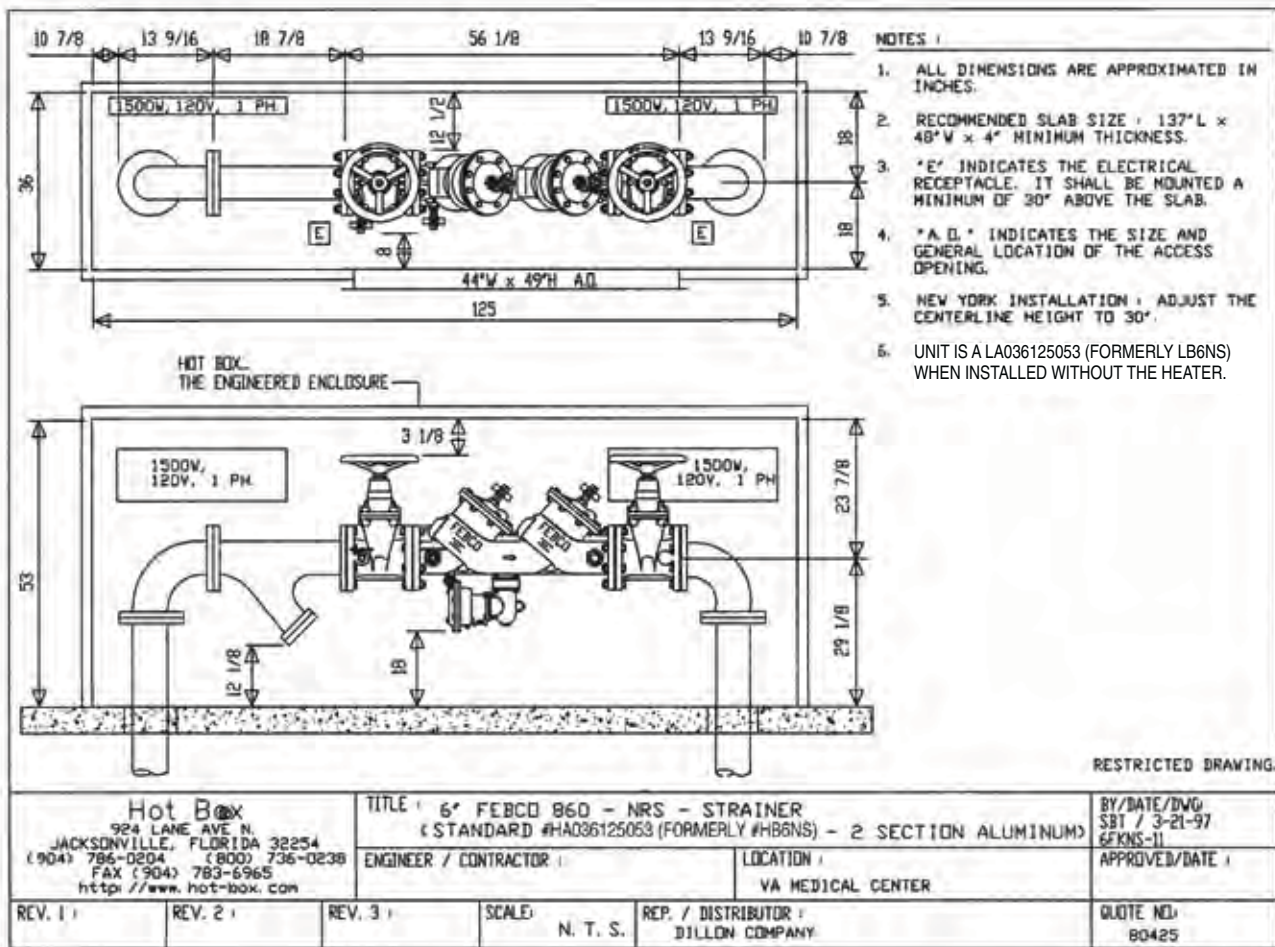


- RECOMMENDED SLAB SIZE IS 5" LARGER ALL THE WAY AROUND THAN THE SPECIFIED ENCLOSURE AND 4" THICK.
- INSULATED ENCLOSURES ARE INTERNALLY LINED WITH POLYISO FOAM FOR A MINIMUM R FACTOR OF 8.
- MANUFACTURER RECOMMENDS ENCLOSURES HAVE A UL LISTED HEAT SOURCE WHEN IT IS DETERMINED THAT FREEZE PROTECTION IS NEEDED. IF HEAT IS NEEDED AN "H" WILL REPLACE THE FIRST LETTER IN THE PART NUMBER.
- IF A STRAINER IS REQUIRED IT IS LOCATED BEFORE THE BFP.

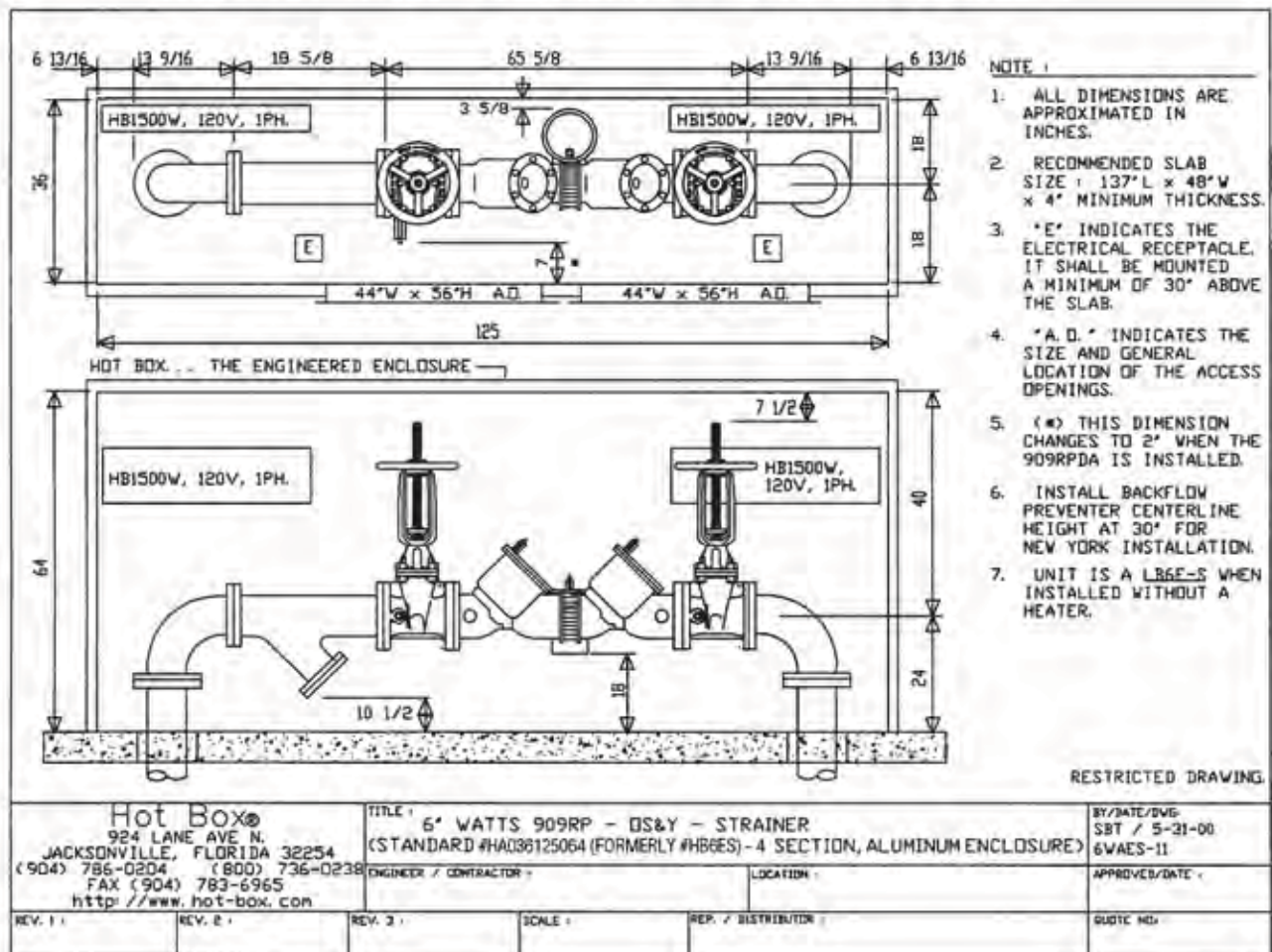
TYPICAL WINTERIZATION FOR 3"-10" BFP RISERS
 (RECOMMENDED COLD WEATHER INSTALLATION)

NOTE: UTILIZATION OF THIS RECOMMENDATION LIES WITH THE PROJECT ENGINEER AND/OR UTILITY.
 HOW IT IS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH THE ENGINEERING AND/OR UTILITY SPECIFICATION.

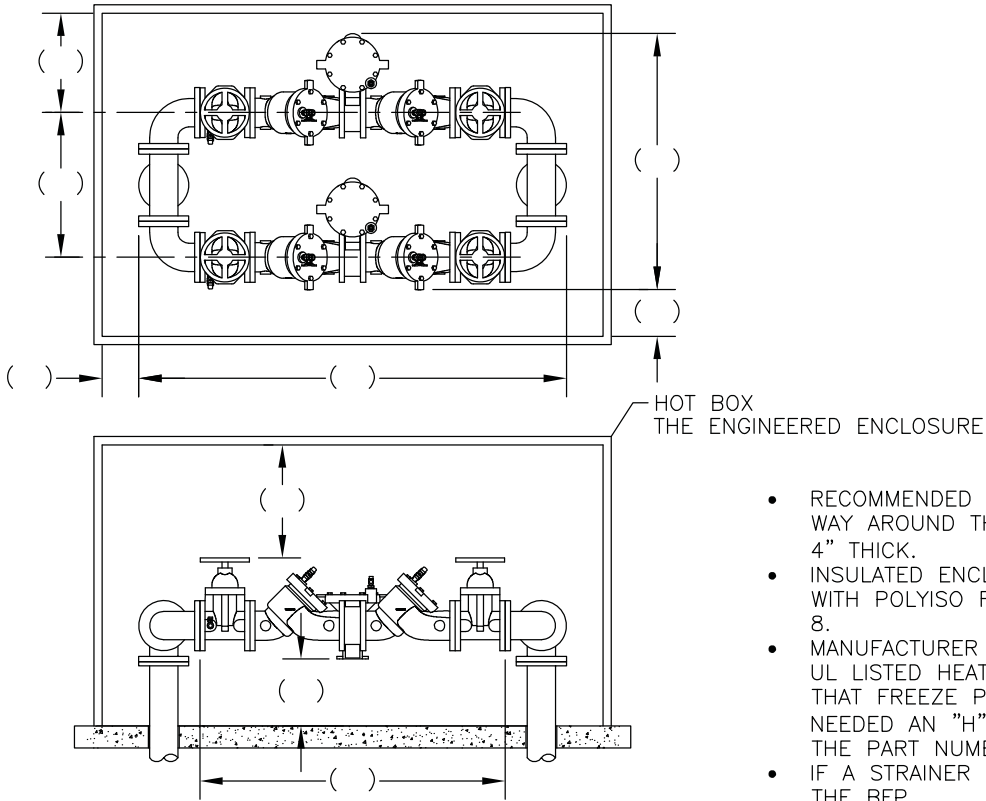




STANDARD STRAINER ENCLOSURES

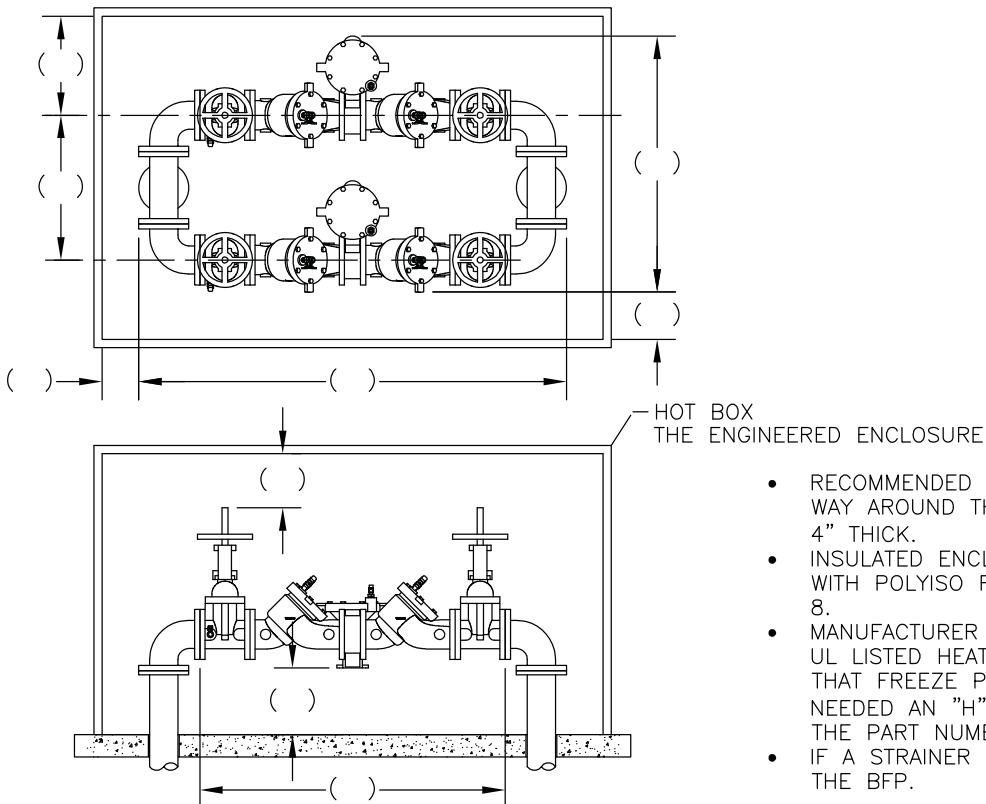


TYPICAL NRS DUAL HOT BOX INSTALLATION

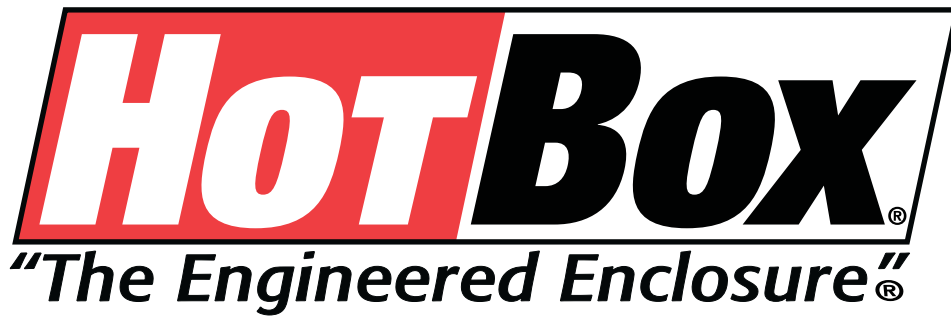


- RECOMMENDED SLAB SIZE IS 5" LARGER ALL THE WAY AROUND THAN THE SPECIFIED ENCLOSURE AND 4" THICK.
- INSULATED ENCLOSURES ARE INTERNALLY LINED WITH POLYISO FOAM FOR A MINIMUM R FACTOR OF 8.
- MANUFACTURER RECOMMENDS ENCLOSURES HAVE A UL LISTED HEAT SOURCE WHEN IT IS DETERMINED THAT FREEZE PROTECTION IS NEEDED. IF HEAT IS NEEDED AN "H" WILL REPLACE THE FIRST LETTER IN THE PART NUMBER.
- IF A STRAINER IS REQUIRED IT IS LOCATED BEFORE THE BFP.

TYPICAL OS&Y DUAL HOT BOX INSTALLATION



- RECOMMENDED SLAB SIZE IS 5" LARGER ALL THE WAY AROUND THAN THE SPECIFIED ENCLOSURE AND 4" THICK.
- INSULATED ENCLOSURES ARE INTERNALLY LINED WITH POLYISO FOAM FOR A MINIMUM R FACTOR OF 8.
- MANUFACTURER RECOMMENDS ENCLOSURES HAVE A UL LISTED HEAT SOURCE WHEN IT IS DETERMINED THAT FREEZE PROTECTION IS NEEDED. IF HEAT IS NEEDED AN "H" WILL REPLACE THE FIRST LETTER IN THE PART NUMBER.
- IF A STRAINER IS REQUIRED IT IS LOCATED BEFORE THE BFP.

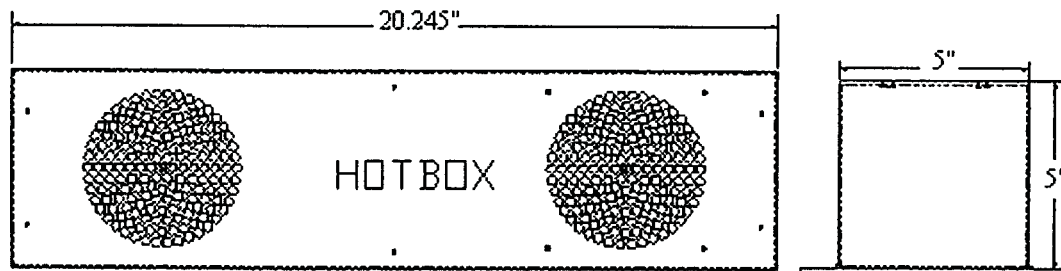


**HB Series
Convection Heater
Operation & Maintenance
Manual**

HB Series Convection Heater

- 1000w, 1500w,1900w
- 120v, 208v, 240v
- 100 cfm
- ETL Listed

Dimensions



Features:

- Strip Heater for Durability & Long Life
- Automatic ON/OFF Thermal Output
- Motor Factory Lubricated
- Durable 16GA Mounting Brackets
- Factory Coated Stone Gray Finish
- Multi Vented for Dual Flow

Benefits:

- Minimum Maintenance
- Simple Installation
- Preset Thermostat
- Quiet Operation
- Dual Flow for Maximum Convection Heat

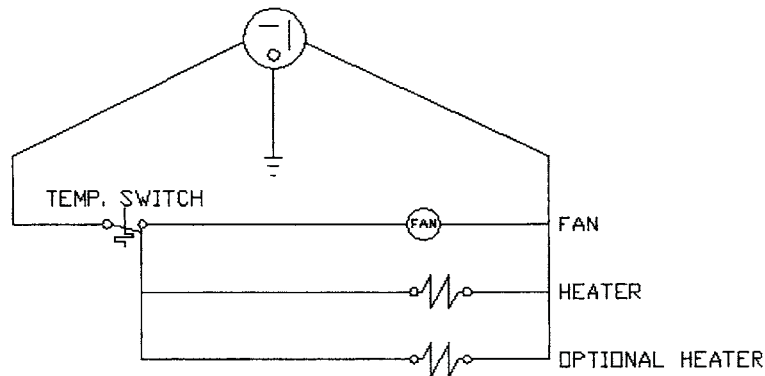
Specifications

<u>Model #</u>	<u>Volts</u>	<u>Phase</u>	<u>Watts</u>	<u>BTU/HR</u>	<u>Weight</u>
HB2002-1K	120	1	1000	3412	9.25 lbs
HB2002-15K	120	1	1500	5118	10.0 lbs
HB2002-2K	120	1	1900	6824	10.0 lbs
HB2002-1K2	208/240	1	750/1000	2559/3412	9.25 lbs
HB2002-15K2	208/240	1	1250/1500	3838/5118	10.0 lbs
HB2002-2K2	208/240	1	1500/2000	5118/6824	10.0 lbs

Wall Mounting

1. The Heater Assembly may be installed in any vertical position.
2. Mount the Heater Assembly securely to the wall, using four #8 screws (not provided) using holes in back flanges as a template.
3. Energize Heater Assembly.

Wiring Diagram



Maintenance

WARNING: HAZARD OF SEVERE SHOCK, DISCONNECT ALL POWER BEFORE SERVICING.

WARNING: DO NOT BLOCK AIR FLOW IN ANY WAY.

Normal maintenance requires only an occasional vacuuming using standard vacuum attachments.

For ***Replacement Heaters***, please contact **Hot Box®**.

Warranty and Limitation of Remedy and Liability

American Controls & Instruments (ACI) warrants only that the products and parts manufactured by ACI, when shipped, and the work performed by ACI when performed will meet all applicable specification and other specific product and work requirements (including these of performance), if any, and will be free from defects in material and workmanship under normal conditions of use. All claims for defective or non-conforming (both hereinafter called defective) products, parts or work under this warranty must be made in writing immediately upon discovery, and in any event within one (1) year from delivery, provided, however all claims for defective products and parts must be made in writing no later than eighteen (18) months after shipment by ACI. Defective and non-conforming items must be held for ACI inspections and returned to the original f. o. b. point upon request. THE FOREGOING IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES WHATSOEVER, EXPRESS, IMPLIED AND STATUTORY, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Notwithstanding the provisions of this WARRANTY AND LIMITATION Clause, it is specifically understood that Products and parts not manufactured and work not performed by ACI are warranted only to the extent and in the manner that the same are warranted to ACI by ACI's vendors, and then only to the extent that ACI is reasonably able to enforce such warranty, it being understood ACI shall have no obligation to initiate litigation unless Buyer undertakes to pay all cost and expenses therefore, including but not limited to attorney's fees, and indemnifies ACI against any liability to ACI's vendors arising out of such litigation.

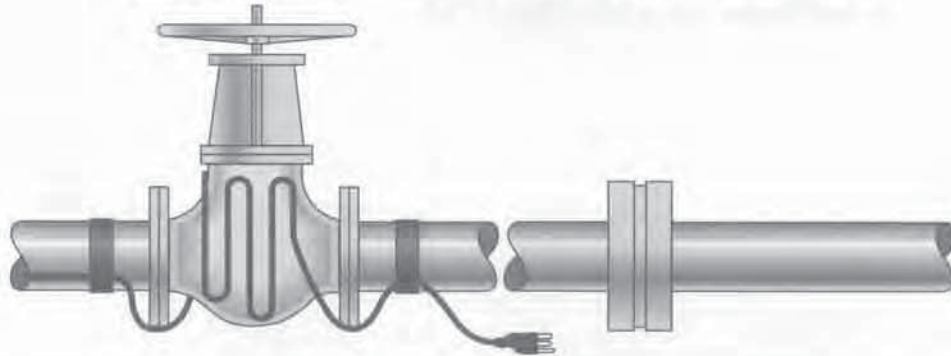
Upon Buyer's submission of a claim as provided above and its substantiation, ACI shall at its option either (1) repair or replace its products, parts or work at the original f. o. b. point of delivery, or (2) refund an equitable portion of the purchase price.

THE FOREGOING IS ACI'S ONLY OBLIGATION AND BUYER'S EXCLUSIVE REMEDY FOR BREACH OF WARRANTY, AND IS BUYER'S EXCLUSIVE REMEDY AGAINST ACI FOR ALL CLAIMS ARISING HEREUNDER OR RELATING HERETO WHETHER SUCH CLAIMS ARE BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES. BUYER'S FAILURE TO SUBMIT A CLAIM AS PROVIDED ABOVE SHALL SPECIFICALLY WAIVE ALL CLAIMS FOR DAMAGES OR OTHER RELIEF, INCLUDING BUT NOT LIMITED TO CLAIMS BASED ON LATENT DEFECTS. IN NO EVENT SHALL BUYER BE ENTITLED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES AND BUYER SHALL HOLD ACI ACI HARMLESS THEREFROM. ANY ACTION BY BUYER ARISING HEREUNDER OR RELATING HERETO, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES, MUST BE COMMENCED WITHIN ONE (1) YEAR AFTER THE DATE OF SHIPMENT OR IT SHALL BE BARRED.

Installation Instructions and RENEWAL PARTS IDENTIFICATION

SERVICE REFERENCE	
DIVISION 4	SECTION STW
SALES REFERENCE	PJ489-2
	161-562402-002
DATE	SEPTEMBER, 2005

STW Pre-Terminated Cable



GENERAL

Safe-T-Wrap preassembled and pre-terminated cables are intended for use on metal or plastic water pipes for freeze protection of these pipes in residential, mobile home or other ordinary area installation applications. The cables are provided in 6, 12, 18, 24, and 50 foot lengths which include a factory sealed power connection with 30 inch power cord and plug, and a factory sealed end termination.

Package Contents -

1 Safe-T-Wrap preassembled electric heating cable

Other Items Required for Proper Installation -

- Thermal Insulation - fi" Fiberglas® or equivalent
- Weatherproof covering for the insulation
- Glass cloth tape to fasten cable to piping
- Cable tie for power cord strain relief
- GFI protected power receptacle

Tools Required -

- Utility Knife - used to cut insulation, weather barrier and glass cloth tape
- 2500 VDC meggar - used to test electric heating cable insulation resistance

Approvals -

- Safe-T-Wrap preassembled heating cables are UL Listed for use in residential and mobile home pipe freeze protection applications. UL files - E68611 and E174357.

Conditions of Use -

Safe-T-Wrap cables are designed for use in residential, mobile home or other ordinary area installation applications on the outside of metal or plastic piping only. This electric heating cable is designed to be used in conjunction with suitable thermal insulation and protective weather barrier - the cable will not provide sufficient heat on its own to prevent pipe freeze-up. Clean, dry, fire-proof thermal insulation is necessary to provide a complete and functional installation. Please review the following cautions related to the use of the STW preassembled cable.

⚠ CAUTION

ELECTRIC SHOCK AND/OR FIRE HAZARD.

1. **Do NOT use STW cable in classified hazardous areas. This product is approved for ordinary area use only.**
2. **Do NOT use STW cable for underground or buried pipe applications.**
3. **Do NOT use STW cable for vinyl garden hose applications. This product is approved for use on fixed metal and plastic piping only.**
4. **Do NOT use STW cable for flexible hose or flexible piping applications. This product is approved for use on fixed metal and plastic piping only.**
5. **Do NOT use STW cable for piping installations - behind walls, in ceilings, through flooring or any other inaccessible locations.**
6. **Do NOT use STW cable directly INSIDE pipes - This product is approved for use installed on the OUTSIDE of metal and plastic pipes only.**
7. **Do NOT install STW cable without use of proper thermal insulation and protective weather barrier.**
8. **Do NOT use STW cables on piping that may exceed 90 deg F.**
9. **Do NOT use STW cables on piping that contains fluids other than water - This product is approved for use on pipes containing water only.**
10. **Do NOT use an extension cord with STW cables.**

GENERAL

⚠ WARNING

ELECTRIC SHOCK HAZARD. This product is an electrical device that must be properly installed to prevent electric shock and/or fire. Read and understand these important safety warnings and follow all installation instructions.

GFI Circuit Protection - To minimize danger from possible sustained electrical arcing due to damaged or improperly installed heating cable, and to comply with agency certifications and the National Electric Code (Article 427) - Ground Fault Equipment Protection must be used on each heating cable branch circuit. Arcing may not be stopped by conventional circuit protection. Contact a qualified electrician for installation if GFI is not available.

Fire Resistant Thermal Insulation -

Use only fire resistant thermal insulation such as Fiberglas® wrap with STW heating cables.

Fastening Cable to Pipe -

Use only glass cloth tape or plastic cable ties to fasten STW heating cable to the pipe. Use of metal tie wire or pipe clamps could damage STW heating cable electrical insulation and lead to an electric shock or fire hazard.

⚠ WARNING

ELECTRIC SHOCK AND/OR FIRE HAZARD. If cable is damaged, remove from service. Do not attempt to repair. There are no user serviceable parts. Replace damaged cable with new assembly.

KEEP INSTRUCTIONS FOR FUTURE REFERENCE.

CABLE SELECTION

Use the tables below to select the proper STW preassembled heating cable for your application. Use the metal pipe table for metal pipes and the plastic pipe table for plastic pipes only.

IMPORTANT NOTES ON CABLE SELECTION -

1. All cable selection tables are based on standard installation - cable fastened to pipe and covered with thermal insulation and weather barrier. For any "non-Standard" installations please contact Chromalox at 1-800-443-2640.
2. The tables assume a minimum ambient temperature of 0 deg F and a thermal insulation of 1/2" thick Fiberglas® wrap or equivalent.

For protection to -20 deg F minimum ambient use 1" thick Fiberglas® wrap or equivalent.

3. Add 1 foot of heating cable for every valve or spigot in the pipeline - make sure to apply this extra cable at each valve / spigot when installing.
4. If your pipe diameter does not appear in the table, round up to the next pipe size.
5. If your selected cable length is longer than your pipe length, spiral the cable evenly along the length of pipe.

STW Pre-terminated Cable Selection Charts

A = STW51-6P B = STW51-12P C = STW51-18P D = STW51-24P E = STW51-50P

METAL PIPES (for freeze protection to 0 deg F minimum ambient with 0.5" insulation or -20 deg F with 1" insulation)

Pipe Diameter	Pipe Length											
	3'	6'	9'	12'	15'	18'	21'	24'	27'	30'	40'	50'
.5"	A	A	B	B	C	C	D	D	E	E	E	E
1"	A	A	B	B	C	C	D	D	E	E	E	E
1.5"	A	A	B	B	C	C	D	D	E	E	E	E
2"	A	A	B	B	C	C	D	E	E	E	E	NR
2.5"	A	B	B	C	C	D	E	E	E	E	E	NR

Note - NR = not recommended - consult factory for further design information

PLASTIC PIPES (for freeze protection to 0 deg F minimum ambient with 0.5" insulation or -20 deg F with 1" insulation)

Pipe Diameter	Pipe Length											
	3'	6'	9'	12'	15'	18'	21'	24'	27'	30'	40'	50'
.5"	A	A	B	B	C	C	D	D	E	E	E	E
1"	A	B	B	C	C	D	D	E	E	E	E	NR
1.5"	A	B	C	C	D	D	E	E	E	E	NR	NR
2"	A	B	C	D	E	E	E	E	E	NR	NR	NR
2.5"	A	C	D	D	E	E	E	NR	NR	NR	NR	NR

Note - NR = not recommended - consult factory for further design information

INSTALLATION

⚠ CAUTION

ELECTRIC SHOCK AND/OR FIRE HAZARD.

1. **Do NOT use STW cable in classified hazardous areas. This product is approved for ordinary area use only.**
2. **Do NOT use STW cable for underground or buried pipe applications.**
3. **Do NOT use STW cable for vinyl garden hose applications. This product is approved for use on fixed metal and plastic piping only.**
4. **Do NOT use STW cable for flexible hose or flexible piping applications. This product is approved for use on fixed metal and plastic piping only.**
5. **Do NOT use STW cable for piping installations - behind walls, in ceilings, through flooring or any other inaccessible locations.**
6. **Do NOT use STW cable directly INSIDE pipes - This product is approved for use installed on the OUTSIDE of metal and plastic pipes only.**
7. **Do NOT install STW cable without use of proper thermal insulation and protective weather barrier.**
8. **Do NOT use STW cables on piping that may exceed 90 deg F.**
9. **Do NOT use STW cables on piping that contain fluids other than water - This product is approved for use on pipes containing water only.**
10. **Do NOT use an extension cord with STW cables.**
11. **Prior to installing cable, remove any sharp surfaces from the pipe that may damage heating cable jacket.**
12. **Connect to outlets that have been installed in accordance with all local and national codes and that have been protected from rain or other sources of water/moisture.**
13. **Connect to outlets that are ground fault equipment protected outlets.**

INSTALL IN ACCORDANCE WITH ALL CAUTIONS AND WARNINGS PER THE ILLUSTRATIONS BELOW -

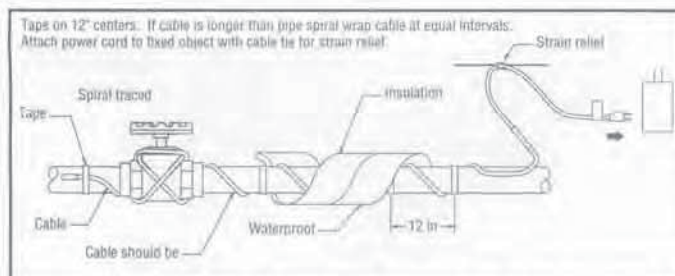


Figure 1: Thermal Insulation - wrap, weather barrier and cord strain relief.

Note:

1. Before insulating check to be sure heating cable is free from mechanical or thermal damage (cuts or nicks in cable insulation from utility knife, use of metal clamps, solder or over-heating).
2. Use Megohmmeter to test each circuit prior to and after installing thermal insulation. See Megohmmeter test procedure below.
3. Ensure use of proper insulation thickness and type - fi" fire resistant Fiberglas® or equivalent for protection to 0 deg F, 1" fire resistant Fiberglas® or equivalent for protection to -20 deg F.
4. Ensure insulation is dry. Wet insulation will not protect pipe from freeze-up.
5. Ensure all valves, spigots and piping are fully insulated up to and including joints and wall penetrations.
6. Secure heating cable cord as shown above to provide proper strain relief.
7. Plug cable into 120 Vac ground fault circuit protected outlet.
8. Check circuit breaker to verify power to the cable.
9. Proper heat output of cable may be verified by observing warm standing water in pipe within one hour of energizing the cable.

MEGOHMMETER TESTING PROCEDURE -

Use only 2500VDC megohmmeter for this test.

Check insulation resistance between each lead of the heating cable and the round ground lug on the power cord plug. Perform the test by placing one lead of the megohmmeter on the round ground lug and the other on one of the rectangular power lugs. You should read 1000 megohms minimum. Perform the test again by checking the opposite rectangular power lug. Again the reading should be 1000 megohms minimum. If you read less than 1000 megohms on either lead the cable needs to be replaced. Do not attempt to repair the unit. Replace with new product.

The installer should record these megohm readings on these installation instructions and record the date of the test. End user of the system must keep instructions.

This Megohm test should be performed at least once per season, preferably before energizing the system each fall or winter, or immediately after any work has taken place on the piping system.

⚠ WARNING

ELECTRIC SHOCK AND/OR FIRE HAZARD. Damaged heating cable can cause electrical shock and/or fire. Do not attempt to repair or energize damaged heating cable. Remove damaged cable immediately and replace with new product.

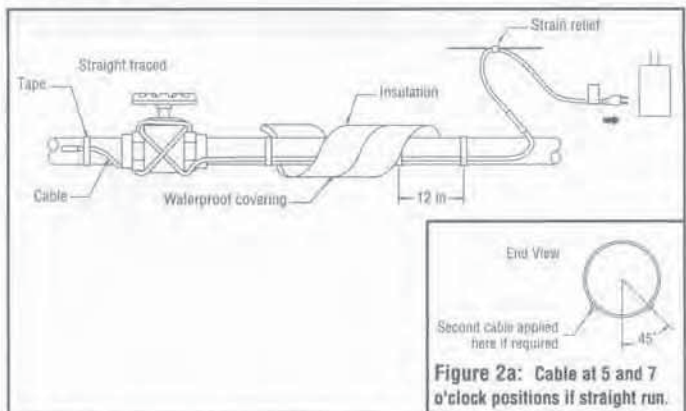


Figure 2: Tape every 12 inches. Straight run cable if cable length is the same as pipe length.

WARRANTY AND LIMITATION OF REMEDY AND LIABILITY

Chromalox warrants only that the Products and parts manufactured by Chromalox, when shipped, and the work performed by Chromalox when performed, will meet all applicable specification and other specific product and work requirements (including those of performance), if any, and will be free from defects in material and workmanship under normal conditions of use. All claims for defective or nonconforming (both hereinafter called defective) Products, parts or work under this warranty must be made in writing immediately upon discovery, and in any event, within one (1) year from delivery, provided, however all claims for defective Products and parts must be made in writing no later than eighteen (18) months after shipment by Chromalox. Defective and nonconforming items must be held for Chromalox's inspections and returned to the original t.o.b. point upon request. THE FOREGOING IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES WHATSOEVER, EXPRESS, IMPLIED AND STATUTORY, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

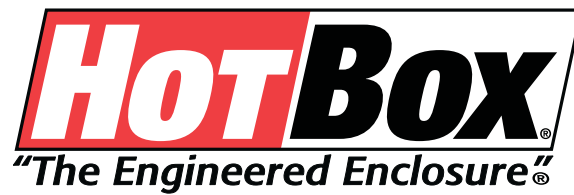
Notwithstanding the provisions of this WARRANTY AND LIMITATION Clause, it is specifically understood that Products and parts not manufactured and work not performed by Chromalox are warranted only to the extent and in the manner that the same are warranted to Chromalox by Chromalox's vendors, and then only to the extent that Chromalox is reasonably able to enforce such warranty, it being understood Chromalox shall have no obligation to initiate litigation unless Buyer undertakes to pay all cost and expenses therefore, including but not limited to

attorney's fees, and indemnifies Chromalox against any liability to Chromalox's vendors arising out of such litigation.

Upon Buyer's submission of a claim as provided above and its substantiation, Chromalox shall at its option either (i) repair or replace its Products, parts or work at the original t.o.b. point of delivery or (ii) refund an equitable portion of the purchase price.

THE FOREGOING IS CHROMALOX'S ONLY OBLIGATION AND BUYER'S EXCLUSIVE REMEDY FOR BREACH OF WARRANTY, AND IS BUYER'S EXCLUSIVE REMEDY AGAINST CHROMALOX FOR ALL CLAIMS ARISING HEREUNDER OR RELATING HERETO WHETHER SUCH CLAIMS ARE BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES, BUYER'S FAILURE TO SUBMIT A CLAIM AS PROVIDED ABOVE SHALL SPECIFICALLY WAIVE ALL CLAIMS FOR DAMAGES OR OTHER RELIEF, INCLUDING BUT NOT LIMITED TO CLAIMS BASED ON LATENT DEFECTS. IN NO EVENT SHALL BUYER BE ENTITLED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES AND BUYER SHALL HOLD CHROMALOX HARMLESS THEREFROM. ANY ACTION BY BUYER ARISING HEREUNDER OR RELATING HERETO, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORIES, MUST BE COMMENCED WITHIN ONE (1) YEAR AFTER THE DATE OF SHIPMENT OR IT SHALL BE BARRED.

W2008M



Heater / Electrical Information

Here is the standard information for the electrical requirements of our enclosures.

The heat trace tape and 1000W heaters use the same standard 15 Amp plugs.

The 1500W and 1900W (nominal 2000W) heaters use a standard 20Amp plug.

All electrical circuits, services and receptacles are provided by contractors in the field. **Hot Box®** takes no responsibility for their installation and recommends that they be installed in compliance with local and national codes.

We realize that we recommend higher amperage than the equipment may actually need. We feel it is better to insure a stronger circuit, in case someone plugs in extra tools for maintenance or other activities.

- One 30W, 60W or 90W, 120V, single-phase heat trace tape shall be included with the smaller fiberglass enclosures. Each heat trace tape is self-regulating. Wrap the tape about the risers and backflow assemblies and secure with pipe ties. The enclosure is the insulation. This is guaranteed to protect the assemblies within to external temperatures of -30°F. Each heat trace tape comes with a plug for easy receptacle connection. General location of the receptacle is indicated as an "E" within a box on the plan view. **Contractors other than Hot Box® are responsible for the installation of the electrical services and G.F.I. protected receptacles.**

We recommend that all circuits servicing the enclosure be 15 Amp to properly accommodate any heater or equipment that may be used within the enclosure.

- One 1000W, 120V, single-phase heater shall be mounted to the interior, rear wall. The heater shall be thermostatically controlled to maintain 45°F within the enclosure while the external temperatures may fall as low as -30°F. Each heater has a six-foot cord and plug for easy receptacle connection and fan forced air for circulation. **Contractors other than Hot Box® are responsible for the installation of the G.F.I. protected services and receptacles. We recommend that all installations be in accordance with local and national codes.**

We recommend that all circuits servicing the enclosure be 15 Amp (minimum) to properly accommodate any heater or equipment that may be used within the enclosure.

- One 1500W, 120V, single-phase heater shall be mounted to the interior, rear wall. The heater shall be thermostatically controlled to maintain 45°F within the enclosure while the external temperatures may fall as low as -30°F. Each heater has a six-foot cord and plug for easy receptacle connection and fan forced air for circulation. **Contractors other than Hot Box® are responsible for the installation of the G.F.I. protected services and receptacles. We recommend that all installations be in accordance with local and national codes.**

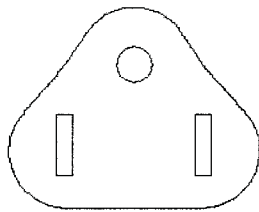
We recommend that all circuits servicing the enclosure be 20 Amp (minimum) to properly accommodate any heater or equipment that may be used within the enclosure.

HotBox[®]

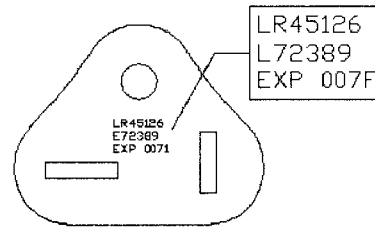
"The Engineered Enclosure"

- One 1900W (nominal 2000W), 120V, single-phase heater shall be mounted to the interior, rear wall. The heater shall be thermostatically controlled to maintain 45°F within the enclosure while the external temperatures may fall as low as -30°F. Each heater has a six-foot cord and plug for easy receptacle connection and fan forced air for circulation. **Contractors other than Hot Box[®] are responsible for the installation of the services and receptacles. We recommend that all installations be in accordance with local and national codes.**

We recommend that all circuits servicing the enclosure be 20 Amp to properly accommodate any heater or equipment that may be used within the enclosure. A G.F.I. protected receptacle cannot be found for a 20 Amp service.



1000W, 120V, 1 PHASE HEATER
15 AMP PLUG CONFIGURATION

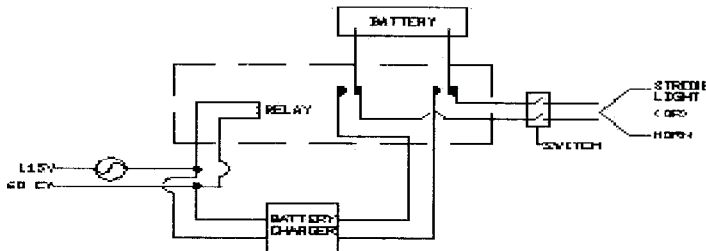


1500W, 120V, 1 PHASE HEATER
1900W (NOMINAL 2000W), 120V, 1 PHASE HEATER
20 AMP PLUG CONFIGURATION

Power Loss Alarm Systems offered by Hot Box[®]

- PLAHBO** (Audible Power Loss) Alarm: The alarm consists of the cabinet, battery, battery charger, relays, 90-decible horn, six-foot power cord and plug. It is designed to activate the horn if the enclosure loses electrical power. It operates on 120V, single-phase service and plugs into a G.F.I. receptacle. It must be supplied by the same electrical service that feeds the heaters. With a fully charged battery, it should sound for a minimum of eight hours or until deactivated. **Contractors other than Hot Box[®] are responsible for the installation of the G.F.I. protected services and receptacles. We recommend that all installations be in accordance with local and national codes.**
- PLAHBOS** (Visual Power Loss) Alarm: The alarm consists of the cabinet, battery, battery charger, relays, amber strobe light with cage, six-foot power cord and plug. It is designed to activate the strobe light if the enclosure loses electrical power. It operates on 120V, single-phase service and plugs into a G.F.I. receptacle. It must be supplied by the same electrical service that feeds the heaters. With a fully charged battery, it should display for a minimum of eight hours or until deactivated. **Contractors other than Hot Box[®] are responsible for the installation of the G.F.I. protected services and receptacles. We recommend that all installations be in accordance with local and national codes.**

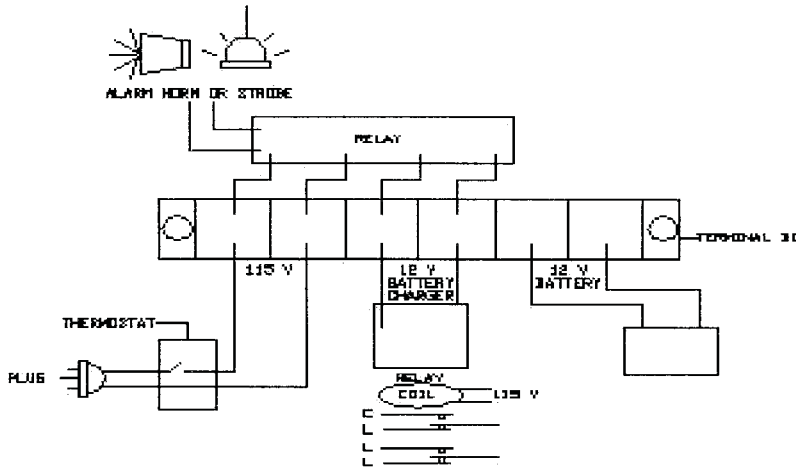
The Power Out Alarm is an audible horn (97 db at 10 feet) or an amber strobe light that indicates when power is lost to the HOT BOX[®] heaters. The unit operates on 120 volts and has a rechargeable battery that is kept fully charged and will last up to eight hours after power is lost.



POWER OUT ALARM (PLAHBO) DIAGRAM

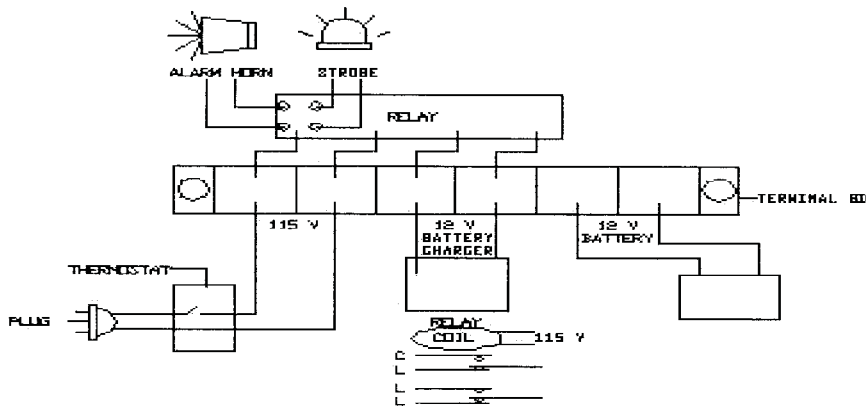
- PLAHBO-T** (Audible Power Loss and Temperature) Alarm: The alarm consists of the cabinet, battery, battery charger, relays, 90-decible horn, temperature sensor, six-foot power cord and plug. It is designed to activate the horn if the enclosure loses electrical power or if the temperature falls below 38°F. It operates on 120V, single-phase service and plugs into a G.F.I. receptacle. It must be supplied by the same electrical service that feeds the heaters. With a fully charged battery, it should display for a minimum of six hours or until deactivated. **Contractors other than Hot Box[®] are responsible for the installation of the G.F.I. protected services and receptacles. We recommend that all installations be in accordance with local and national codes.**
- PLAHBOS-T** (Visual Power Loss and Temperature) Alarm: The alarm consists of the cabinet, battery, battery charger, relays, amber strobe with cage, temperature sensor, six-foot power cord and plug. It is designed to activate the strobe light if the enclosure loses electrical power or if the temperature falls below 38°F. It operates on 120V, single-phase service and plugs into a G.F.I. receptacle. It must be supplied by the same electrical service that feeds the heaters. With a fully charged battery, it should display for a minimum of six hours or until deactivated. **Contractors other than Hot Box[®] are**

responsible for the installation of the G.F.I. protected services and receptacles. We recommend that all installations be in accordance with local and national codes.



PLAHBO – POWER LOSS AND LOW TEMPERATURE COMBINATION ALARM (NON-REMOTE)

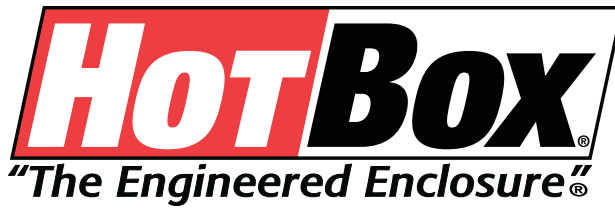
- PLAHBOT-S (Audible and Visual Power Loss and Temperature) Alarm:** The alarm consists of the cabinet, battery, battery charger, relays, 90-decibel horn, amber strobe with cage, temperature sensor, six-foot power cord and plug. It is designed to activate both audible and visual notifications if the enclosure loses electrical power or if the temperature falls below 38°F. It operates on 120V, single-phase service and plugs into a G.F.I. receptacle. It must be supplied by the same electrical service that feeds the heaters. With a fully charged battery, it should display for a minimum of six hours or until deactivated. **Contractors other than Hot Box® are responsible for the installation of the G.F.I. protected services and receptacles. We recommend that all installations be in accordance with local and national codes.**



PLAHBO – T+S – POWER LOSS AND LOW TEMPERATURE COMBINATION ALARM WITH HORN AND STROBE (NON-REMOTE)



Product Installation



HOT BO DRAWING MATRI						
Ames						
SS/	Min. Clearance		Clearance		3 Centerline	
3 SS	N mbers	Old N mbers	N mbers	Old N mbers	N mbers	Old N mbers
	NRS ... OS&Y	NRS ... OS&Y	NRS ... OS&Y	NRS ... OS&Y	NRS ... OS&Y	NRS ... OS&Y
2.5	HF026070045 ... HF026070045	HB3N ... HB3N	HF026070045 ... HF026070045	HB3N ... HB3N	HF026070045 ... HF026070055	HB3N ... HB3E
3.0	HF026070045 ... HF026070045	HB3N ... HB3N	HF026070045 ... HF026070045	HB3N ... HB3N	HF026070045 ... HF026070055	HB3N ... HB3E
4.0	HF026070045 ... HF026070045	HB3N ... HB3N	HF026070045 ... HF026070055	HB3N ... HB3E	HF026070045 ... HF026070055	HB3N ... HB3E
6.0	HA032090050 ... HA032090050	HB4N ... HB4N	HA032090050 ... HA036105064	HB4N ... HB6E	HA032090050 ... HA032090057	HB4N ... HB4E
8.0	HA036105053 ... HA036105064	HB6N ... HB6E	HA036105053 ... HA036105064	HB6N ... HB6E	HA036105053 ... HA040118074	HB6N ... HB8E
10.0	HA036105053 ... HA040118074	HB6N ... HB8E	HA036105053 ... HA042142085	HB6N ... HB10E	HA036105064 ... HA042142085	HB6E ... HB10E

HOT BO DRAWING MATRI						
Ames						
4 SS/	Min. Clearance		Clearance		3 Centerline	
5 SS	N mbers	Old N mbers	N mbers	Old N mbers	N mbers	Old N mbers
	NRS ... OS&Y	NRS ... OS&Y	NRS ... OS&Y	NRS ... OS&Y	NRS ... OS&Y	NRS ... OS&Y
2.5	HF026070045 ... HF026070045	HB3N ... HB3N	HF026070045 ... HF026070055	HB3N ... HB3E	HF026070045 ... HF026070055	HB3N ... HB3E
3.0	HF026070045 ... HF026070045	HB3N ... HB3N	HF026070045 ... HF026070055	HB3N ... HB3E	HF026070045 ... HF026070055	HB3N ... HB3E
4.0	HF026070045 ... HF026070055	HB3N ... HB3E	HF026070045 ... HF026070055	HB3N ... HB3E	HF026070045 ... HF026070055	HB3N ... HB3E
6.0	HA032090050 ... HA036105064	HB4N ... HB6E	HA032090050 ... HA036105064	HB4N ... HB6E	HA032090050 ... HA032090064	HB4N ... HB6E
8.0	HA036105053 ... HA040118074	HB6N ... HB8E	HA036105064 ... HA040118074	HB6E ... HB8E	HA036105053 ... HA040118074	HB6N ... HB8E
10.0	HA036105064 ... HA042142085	HB6E ... HB10E	HA036105064 ... HA042142085	HB6E ... HB10E	HA036105064 ... HA042142085	HB6E ... HB10E

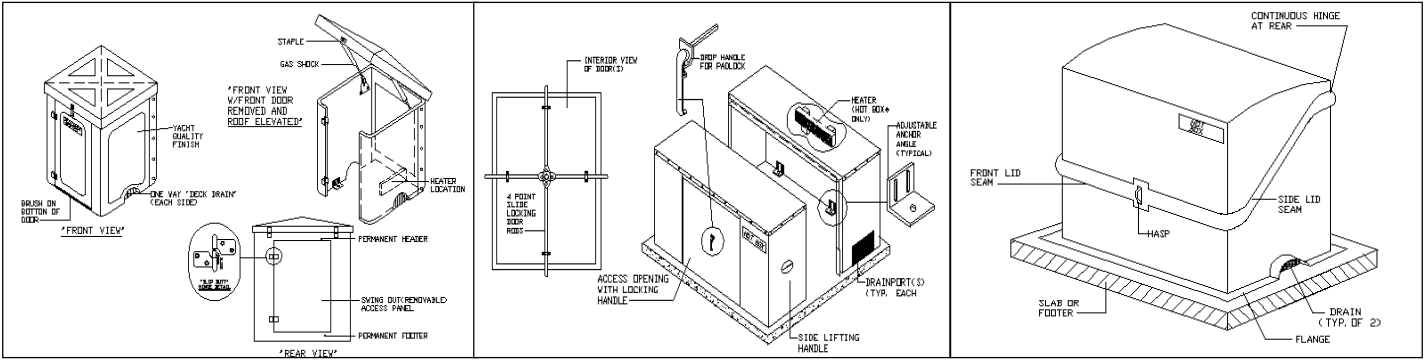
HOT BO DRAWING MATRI						
Conbraco						
4 - /	Min. Clearance		Clearance		3 Centerline	
4 -	N mbers	Old N mbers	N mbers	Old N mbers	N mbers	Old N mbers
	NRS ... OS&Y	NRS ... OS&Y	NRS ... OS&Y	NRS ... OS&Y	NRS ... OS&Y	NRS ... OS&Y
2.5	HF026070045 ... HF026070045	HB3N ... HB3N	HF026070045 ... HF026070045	HB3N ... HB3N	HF026070045 ... HF026070055	HB3N ... HB3E
3.0	HF026070045 ... HF026070045	HB3N ... HB3N	HF026070045 ... HF026070045	HB3N ... HB3N	HF026070045 ... HF026070055	HB3N ... HB3E
4.0	HA032090050 ... HA032090050	HB4N ... HB4N	HA032090050 ... HA032090050	HB4N ... HB4N	HA032090050 ... HA032090057	HB4N ... HB4E
6.0	HA036105053 ... HA036105053	HB6N ... HB6N	HA036105053 ... HA036105064	HB6N ... HB6E	HA036105053 ... HA036105064	HB6N ... HB6E
8.0	HA040118058 ... HA040118074	HB8N ... HB8E	HA040118058 ... HA040118074	HB8N ... HB8E	HA040118058 ... HA040118074	HB8N ... HB8E
10.0	HA042142065 ... HA042142085	HB10N ... HB10E	HA042142065 ... HA042142085	HB10N ... HB10E	HA042142065 ... HA042142085	HB10N ... HB10E



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ALL ENCLOSURES ARE ANCHORABLE AND REQUIRE EITHER AN OUTER SLAB OR A GLASS PAD OR PROPER INSTALLATION.

ASSUMPTIONS ARE MADE IN THIS MATRIX DESIGN. PLEASE REVIEW AVAILABLE DRAWINGS OR FIELD CONDITIONS.

CORRECT SIZING IS ULTIMATELY YOUR RESPONSIBILITY.

ENCLOSURE MODEL NUMBERS SHOW (H) HEATED ENCLOSURES. SUBSTITUTE (L) OR (H)

IF HEAT IS NOT REQUIRED CONTACT AREA DISTRIBUTOR OR REPRESENTATIVE FOR AVAILABILITY

OR (V) WHICH IS NON-HEATED AND NON-INSULATED.

STANDARD ENCLOSURE SIZING MATRIX

MANUFACTURER & MODEL OR PIPE			STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)		
Ames	Pipe Size		T	TS	T	TS	T	TS	
2000B	3/4"	Part No.	HF013027023	HF021033025	HF013027023	HF021033025	HF013027035	HF013039036	
		Old No.	HB1	HB1.5	HB1	HB1.5	HB1T	HB2T	
	1"	Part No.	HF013027023	HF013039028	HF013027023	HF013039028	HF013027035	HF013039036	
		Old No.	HB1	HB2	HB1	HB2	HB1T	HB2T	
	1-1/4"	Part No.	HF021033025	HF013047028	HF021033025	HF013047028	HF013039036	HF013047036	
		Old No.	HB1.5	HB2S	HB1.5	HB2S	HB2T	HB2ST	
	1-1/2"	Part No.	HF013039028	HF013047028	HF013039028	HF013047028	HF013039036	HF013047036	
		Old No.	HB2	HB2S	HB2	HB2S	HB2T	HB2ST	
	2"	Part No.	HF013039028	HF013047028	HF013039028	HF013047028	HF013039036	HF013047036	
		Old No.	HB2	HB2S	HB2	HB2S	HB2T	HB2ST	
	4000B	3/4"	Part No.	HF013027023	HF021033025	HF013027023	HF021033025	HF013027035	HF013039036
			Old No.	HB1	HB1.5	HB1	HB1.5	HB1T	HB2T
1"		Part No.	HF021033025	HF013039028	HF021033025	HF013039028	HF013039036	HF013039036	
		Old No.	HB1.5	HB2	HB1.5	HB2	HB2T	HB2T	
1-1/4"		Part No.	HF021033025	HF013039028	HF021033025	HF013039028	HF013039036	HF013039036	
		Old No.	HB1.5	HB2S	HB1.5	HB2	HB2T	HB2T	
1-1/2"		Part No.	HF013039028	HF013047028	HF013039028	HF013047028	HF013039036	HF013047036	
		Old No.	HB2	HB2S	HB2	HB2S	HB2T	HB2ST	
2"		Part No.	HF013039028	HF013047028	HF013039028	HF013047028	HF013039036	HF013047036	
		Old No.	HB2	HB2S	HB2	HB2S	HB2T	HB2ST	
MANUFACTURER & MODEL OR PIPE			STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)		
Ames		Pipe Size		NRS	OS&Y	NRS	OS&Y	NRS	OS&Y
2000SS/3000SS	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055	
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E	
(SAME AS WATTS 774/774 DCDA)	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055	
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E	
	4"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055	
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E	
	6"	Part No.	HA032090050	HA032090050	HA032090050	HA032090057	HA032090050	HA036105064	
		Old No.	HB4N	HB4N	HB4N	HB4E	HB4N	HB6E	
	8"	Part No.	HA036105053	HA036105064	HA036105053	HA036105064	HA036105064	HA040118074	
		Old No.	HB6N	HB6E	HB6N	HB6E	HB6E	HB8E	
	10"	Part No.	HA036105053	HA040118074	HA036105053	HA042142085	HA036105064	HA042142085	
		Old No.	HB6N	HB8E	HB6N	HB10E	HB6E	HB10E	
	12"	Part No.	HA036105053	HA042142085	HA036105064	HA042142085	HA036105064	HA042142085	
		Old No.	HB6N	HB10E	HB6E	HB10E	HB6E	HB10E	



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STANDARD ENCLOSURE SIZING MATRI (SEE NOTES ON PAGE)

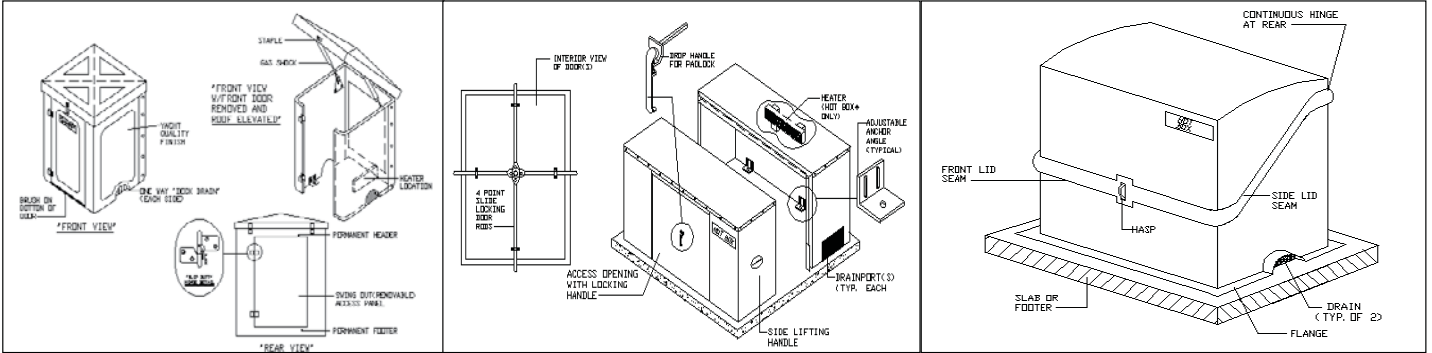
MANU ACTURER & MODEL O B P			STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)	
Ames	Pipe Size		NRS	OS&Y	NRS	OS&Y	NRS	OS&Y
4000SS/5000SS	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HF026070055	HF026070045	HF026070055
(SAME AS		Old No.	HB3N	HB3N	HB3N	HB3E	HB3N	HB3E
WATTS 994/994 RPDA)	3"	Part No.	HF026070045	HF026070055	HF026070045	HF026070055	HF026070045	HF026070055
		Old No.	HB3N	HB3E	HB3N	HB3E	HB3N	HB3E
	4"	Part No.	HF026070045	HF026070055	HF026070045	HF026070055	HF026070045	HF026070055
		Old No.	HB3N	HB3E	HB3N	HB3E	HB3N	HB3E
	6"	Part No.	HA032090050	HA036105064	HA032090050	HA036105064	HA032090050	HA036105064
		Old No.	HB4N	HB6E	HB4N	HB6E	HB4N	HB6E
	8"	Part No.	HA036105053	HA040118074	HA036105064	HA040118074	HA036105064	HA040118074
		Old No.	HB6N	HB8E	HB6E	HB8E	HB6E	HB8E
	10"	Part No.	HA036105053	HA040118074	HA036105064	HA042142085	HA036105064	HA042142085
		Old No.	HB6N	HB8E	HB6E	HB10E	HB6E	HB10E
	12"	Part No.	HA036105053	HA042142085	HA036105064	HA042142085	HA036105064	HA042142085
		Old No.	HB6N	HB10E	HB6E	HB10E	HB6E	HB103
MANU ACTURER & MODEL O B P			STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)	
Ames	Pipe Size		NRS	OS&Y	NRS	OS&Y	NRS	OS&Y
2001SS/4001SS	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055
(SAME AS		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E
WATTS 775/995)	4"	Part No.	HF026070045	HF026070045	HF026070045	HF026070055	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3N	HB3E
	6"	Part No.	HA032090050	HA032090050	HA032090050	HA032090057	HA032090050	HA036105064
		Old No.	HB4N	HB4N	HB4N	HB4E	HB4N	HB6E
	8"	Part No.	HA032090050	HA032090057	HA032090057	HA036105064	HA036105053	HA040118074
		Old No.	HB4N	HB4E	HB4E	HB6E	HB6N	HB8E
Ames	Pipe Size		NRS	OS&Y	NRS	OS&Y	NRS	OS&Y
2001SSN/4001SSN	3"	Part No.	HL035045035	HL035045035	HL035045035	HL035045035	HL044053044	HL044053044
(SAME AS		Old No.	HB3000	HB3000	HB3000	HB3000	HB4000	HB4000
WATTS N775/N995)	4"	Part No.	HL035045035	HL035045035	HL035045035	HL035045035	HL044053044	HL044053044
		Old No.	HB3000	HB3000	HB3000	HB3000	HB4000	HB4000
	6"	Part No.	HL044053044	HL044053044	HL044053044	HL044053044	HL044053044	HL044053044
		Old No.	HB4000	HB4000	HB4000	HB4000	HB4000	HB4000
	8"	Part No.	HL052061052	HL052061052	HL052061052	HL052061052	HL052061052	HL052061052
		Old No.	HB5000	HB5000	HB5000	HB5000	HB5000	HB5000
Ames	Pipe Size		NRS	OS&Y	NRS	OS&Y	NRS	OS&Y
3001SS/5001SS	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055
(SAME AS		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E
WATTS 775/ DCDA)	4"	Part No.	HF026070045	HF026070045	HF026070045	HF026070055	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3N	HB3E
	6"	Part No.	HA032090050	HA032090050	HA032090050	HA032090057	HA032090050	HA036105064
		Old No.	HB4N	HB4N	HB4N	HB4E	HB4N	HB6E
	8"	Part No.	HA032090050	HA032090050	HA036105064	HA036105064	HA036105053	HA040118074
		Old No.	HB4N	HB4N	HB6E	HB6E	HB6N	HB8E
Ames	Pipe Size		NRS	OS&Y	NRS	OS&Y	NRS	OS&Y
3001SSN/5001SSN	3"	Part No.	HL035045035	HL035045035	HL044053044	HL044053044	HL044053044	HL044053044
(SAME AS		Old No.	HB3000	HB3000	HB4000	HB4000	HB4000	HB4000
WATTS N775 DCDA/ N995 RPDA)	4"	Part No.	HL044053044	HL044053044	HL044053044	HL044053044	HL044053044	HL044053044
		Old No.	HB4000	HB4000	HB4000	HB4000	HB4000	HB4000
	6"	Part No.	HL044053044	HL044053044	HL052061052	HL052061052	HL052061052	HL052061052
		Old No.	HB4000	HB4000	HB5000	HB5000	HB5000	HB5000
	8"	Part No.	HL052061052	HL052061052	HL052061052	HL052061052	HL052061052	HL052061052
		Old No.	HB5000	HB5000	HB5000	HB5000	HB5000	HB5000



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ENCLOSURES MODEL NUMBERS SHOW (H) HEATED ENCLOSURES. SUBSTITUTE (L) OR (H)

I HEAT IS NOT REQUIRED CONTACT AREA DISTRIBUTOR OR REPRESENTATIVE FOR AVAILABILITY

O (V) WHICH IS NON-HEATED AND NON-INSULATED.

STANDARD ENCLOSURE SIZING MATRIX

MANUFACTURER & MODEL OR PIPE		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)			
Part No.	Old No.	T	TS	T	TS	T	TS		
40-100 QT	3/4"	Part No.	HF013027023	HF013039028	HF013027023	HF013039028	HF013027035	HF013039036	
		Old No.	HB1	HB2	HB1	HB2	HB1T	HB2T	
	1"	Part No.	HF013027023	HF013039028	HF013027023	HF013039028	HF013027035	HF013039036	
		Old No.	HB1	HB2	HB1	HB2	HB1T	HB2T	
	1-1/4"	Part No.	HF013039028	HF013047028	HF013039028	HF013047036	HF013039036	HF013047036	
		Old No.	HB2	HB2S	HB2	HB2ST	HB2T	HB2ST	
	1-1/2"	Part No.	HF013039028	HF013047028	HF013039028	HF013047036	HF013039036	HF013047036	
		Old No.	HB2	HB2S	HB2	HB2ST	HB2T	HB2ST	
	2"	Part No.	HF013039028	HF013047028	HF013039028	HF013047036	HF013039036	HF013047036	
		Old No.	HB2	HB2S	HB2	HB2ST	HB2T	HB2ST	
	40-100 TOP QT	3/4"	Part No.	HF013027023	HF013039028	HF013027023	HF013039028	HF013027035	HF013039036
			Old No.	HB1	HB2	HB1	HB2	HB1T	HB2T
1"		Part No.	HF013027023	HF013039028	HF013027023	HF013039028	HF013027035	HF013039036	
		Old No.	HB1	HB2	HB1	HB2	HB1T	HB2T	
1-1/4"		Part No.	HF013039028	HF013047028	HF013039028	HF013047036	HF013039036	HF013047036	
		Old No.	HB2	HB2S	HB2	HB2ST	HB2T	HB2ST	
1-1/2"		Part No.	HF013039028	HF013047028	HF013039028	HF013047036	HF013039036	HF013047036	
		Old No.	HB2	HB2S	HB2	HB2ST	HB2T	HB2ST	
2"		Part No.	HF013039028	HF013047028	HF013039028	HF013047036	HF013039036	HF013047036	
		Old No.	HB2	HB2S	HB2	HB2ST	HB2T	HB2ST	
40-200 QT		3/4"	Part No.	HF013027023	HF013039028	HF013027035	HF013039028	HF013027035	HF013039036
			Old No.	HB1	HB2	HB1T	HB2	HB1T	HB2T
	1"	Part No.	HF013027023	HF013039028	HF013027035	HF013039028	HF013027035	HF013039036	
		Old No.	HB1	HB2	HB1T	HB2	HB1T	HB2T	
	1-1/4"	Part No.	HF013039028	HF013047028	HF013039028	HF013047036	HF013039036	HF013047036	
		Old No.	HB2	HB2S	HB2	HB2ST	HB2T	HB2ST	
	1-1/2"	Part No.	HF013039028	HF013047028	HF013039028	HF013047036	HF013039036	HF013047036	
		Old No.	HB2	HB2S	HB2	HB2ST	HB2T	HB2ST	
	2"	Part No.	HF013039028	HF013047028	HF013039028	HF013047036	HF013039036	HF013047036	
		Old No.	HB2	HB2S	HB2	HB2ST	HB2T	HB2ST	



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STANDARD ENCLOSURE SIZING MATRI (SEE NOTES ON PAGE)

MANU ACTURER & MODEL O B P		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)	
Conbraco / Apollo	Pipe Size	T	TS	T	TS	T	TS
40-200 U QT	3/4"	Part No. HF013027023	HF013039028	HF013027035	HF013039028	HF013027035	HF013039036
		Old No. HB1	HB2	HB1T	HB2	HB1T	HB2T
	1"	Part No. HF013027023	HF013039028	HF013027035	HF013039028	HF013027035	HF013039036
		Old No. HB1	HB2	HB1T	HB2	HB1T	HB2T
	1-1/4"	Part No. HF013039028	HF013047028	HF013039028	HF013047036	HF013039036	HF013047036
		Old No. HB2	HB2S	HB2	HB2ST	HB2T	HB2ST
	1-1/2"	Part No. HF013039028	HF013047028	HF013039028	HF013047036	HF013039036	HF013047036
		Old No. HB2	HB2S	HB2	HB2ST	HB2T	HB2ST
	2"	Part No. HF013039028	HF013047028	HF013039028	HF013047036	HF013039036	HF013047036
		Old No. HB2	HB2S	HB2	HB2ST	HB2T	HB2ST
MANU ACTURER & MODEL O B P		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)	
Conbraco / Apollo	Pipe Size	NRS	OS&Y	NRS	OS&Y	NRS	OS&Y
Model RP	2-1/2"	Part No. HF026070045	HF026070045	HF026070045	HF026070055	HF026070045	HF026070055
4S-200		Old No. HB3N	HB3N	HB3N	HB3E	HB3N	HB3E
	3"	Part No. HF026070045	HF026070045	HF026070045	HF026070055	HF026070045	HF026070055
		Old No. HB3N	HB3N	HB3N	HB3E	HB3N	HB3E
	4"	Part No. HF026070045	HF026070055	HF026070045	HF026070055	HF026070055	HF026070055
		Old No. HB3N	HB3E	HB3N	HB3E	HB3E	HB3E
	6"	Part No. HA032090050	HA032090050	HA032090050	HA036105064	HA032090050	HA036105064
		Old No. HB4N	HB4N	HB4N	HB6E	HB4N	HB6E
	8"	Part No. HA036105053	HA040118074	HA036105064	HA040118074	HA036105064	HA040118074
		Old No. HB6N	HB8E	HB6E	HB8E	HB6E	HB8E
	10"	Part No. HA036105064	HA042142085	HA036105064	HA042142085	HA036105064	HA042142085
		Old No. HB6E	HB10E	HB6E	HB10E	HB6E	HB10E
4 - / 4 -	2-1/2"	Part No. HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055
		Old No. HB3N	HB3N	HB3N	HB3N	HB3N	HB3E
	3"	Part No. HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055
		Old No. HB3N	HB3N	HB3N	HB3N	HB3N	HB3E
	4"	Part No. HA032090050	HA032090050	HA032090050	HA032090050	HA032090050	HA032090057
		Old No. HB4N	HB4N	HB4N	HB4N	HB4N	HB4E
	6"	Part No. HA036105053	HA036105053	HA036105053	HA036105064	HA036105053	HA036105064
		Old No. HB6N	HB6N	HB6N	HB6E	HB6N	HB6E
	8"	Part No. HA040118058	HA040118058	HA040118058	HA040118074	HA040118058	HA040118074
		Old No. HB8N	HB8N	HB8N	HB8E	HB8N	HB8E
	10"	Part No. HA042142065	HA042142085	HA042142085	HA042142085	HA042142065	HA042142085
		Old No. HB10N	HB10E	HB10E	HB10E	HB10N	HB10E
4S- / 4S-	2-1/2"	Part No. HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055
		Old No. HB3N	HB3N	HB3N	HB3N	HB3N	HB3E
	3"	Part No. HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055
		Old No. HB3N	HB3N	HB3N	HB3N	HB3N	HB3E
	4"	Part No. HF026070045	HF026070045	HF026070045	HF026070055	HF026070045	HF026070055
		Old No. HB3N	HB3N	HB3N	HB3E	HB3N	HB3E
	6"	Part No. HF026083045	HF026083055	HF026083045	HF026083055	HF026083055	HA036105064
		Old No. HB3NS	HB3ES	HB3NS	HB3ES	HB3ES	HB6E
	8"	Part No. HA032090050	HA036105064	HA036105053	HA036105064	HA036105064	HA040118074
		Old No. HB4N	HB6E	HB6N	HB6E	HB6E	HB8E
	10"	Part No. HA036105053	HA040118074	HA036105064	HA040118074	HA036105064	HA042142085
		Old No. HB6N	HB8E	HB6E	HB8E	HB6E	HB10E



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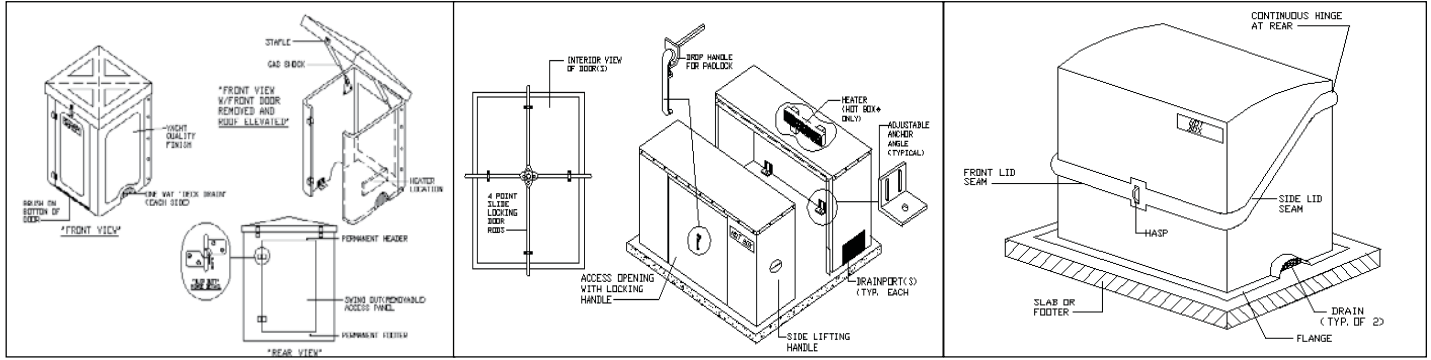
STANDARD ENCLOSURE SIZING MATRI				(SEE NOTES ON PAGE)				
MANU ACTURER & MODEL O B P		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)		
Conbraco / Apollo	Pipe Size		NRS	OS&Y	NRS	OS&Y	NRS	OS&Y
40-200 / 40-700	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E
	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070055	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3N	HB3E
	4"	Part No.	HA032090050	HA032090050	HA032090050	HA032090057	HA032090050	HA032090057
		Old No.	HB4N	HB4N	HB4N	HB4E	HB4N	HB4E
	6"	Part No.	HA036105053	HA036105064	HA036105053	HA036105064	HA036105053	HA036105064
		Old No.	HB6N	HB6E	HB6N	HB6E	HB6N	HB6E
	8"	Part No.	HA040118058	HA040118074	HA040118058	HA040118074	HA040118058	HA040118074
		Old No.	HB8N	HB8E	HB8N	HB8E	HB8N	HB8E
	10"	Part No.	HA042142065	HA042142085	HA042142065	HA042142085	HA036105064	HA042142085
		Old No.	HB10N	HB10E	HB10N	HB10E	HB10N	HB10E



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STANDARD ENCLOSURE SIZING MATRIX

MANUFACTURER & MODEL O B P		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)		
EBCO	Pipe Size	Part No.	T	TS	T	TS	T	TS
805Y	3/4"	Part No.	HF013027023	HF013039028	HF013027023	HF013039028	HF013027035	HF013039036
		Old No.	HB1	HB2	HB1	HB2	HB1T	HB2T
	1"	Part No.	HF013027023	HF013039028	HF013027023	HF013039028	HF013027035	HF013039036
		Old No.	HB1	HB2	HB1	HB2	HB1T	HB2T
	1-1/2"	Part No.	HF021033025	HF013047028	HF013039028	HF013039036	HF013039036	HF013039036
		Old No.	HB1.5	HB2S	HB2	HB2T	HB2T	HB2T
825Y	3/4"	Part No.	HF013027023	HF013039028	HF013027023	HF013039028	HF013027035	HF013039036
		Old No.	HB1	HB2	HB1	HB2	HB1T	HB2T
	1"	Part No.	HF013027023	HF013039028	HF013027023	HF013039028	HF013027035	HF013039036
		Old No.	HB1	HB2	HB1	HB2	HB1T	HB2T
	1-1/4"	Part No.	HF013039028	HF013039028	HF013039028	HF013039036	HF013039036	HF013039036
		Old No.	HB2	HB2	HB2	HB2T	HB2T	HB2T
825YA	3/4"	Part No.	HF011019022	HF013027035	HF011019022	HF013027035	HF013027035	HF013027035
		Old No.	HB.75	HB1T	HB.75	HB1T	HB1T	HB1T
	1"	Part No.	HF011019022	HF013027035	HF011019022	HF013027035	HF013027035	HF013027035
		Old No.	HB.75	HB1T	HB.75	HB1T	HB1T	HB1T
	1-1/2"	Part No.	HF013027023	HF013027035	HF013027023	HF013027035	HF013027035	HF013039036
		Old No.	HB1	HB1T	HB1	HB1T	HB1T	HB2T
850QT	3/4"	Part No.	HF013027023	HF021033025	HF013027023	HF021033025	HF013027035	HF013039036
		Old No.	HB1	HB1.5	HB1	HB1.5	HB1T	HB2T
	1"	Part No.	HF013027023	HF021033025	HF013027023	HF021033025	HF013027035	HF013039036
		Old No.	HB1	HB1.5	HB1	HB1.5	HB1T	HB2T
	1-1/4"	Part No.	HF021033025	HF013039028	HF021033025	HF013039028	HF013039036	HF013039036
		Old No.	HB1.5	HB2	HB1.5	HB2	HB2T	HB2T
1-1/2"	Part No.	HF021033025	HF013039028	HF021033025	HF013039028	HF013039036	HF013039036	
	Old No.	HB1.5	HB2	HB1.5	HB2	HB2T	HB2T	
2"	Part No.	HF021033025	HF013047028	HF021033025	HF013047028	HF013039036	HF013047036	
	Old No.	HB1.5	HB2S	HB1.5	HB2S	HB2T	HB2ST	



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STANDARD ENCLOSURE SIZING MATRI (SEE NOTES ON PAGE)

MANU ACTURER & MODEL O B P			STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)		
EBCO	Pipe Size		T	TS	T	TS	T	TS	
850 U QT	3/4"	Part No.	HF013027023	HF021033025	HF013027023	HF021033025	HF013027035	HF013039036	
		Old No.	HB1	HB1.5	HB1	HB1.5	HB1T	HB2T	
	1"	Part No.	HF021033025	HF021033025	HF021033025	HF021033025	HF013039036	HF013039036	
		Old No.	HB1.5	HB1.5	HB1.5	HB1.5	HB2T	HB2T	
	1-1/4"	Part No.	HF021033025	HF013039028	HF021033025	HF013039028	HF013039036	HF013039036	
		Old No.	HB1.5	HB2	HB1.5	HB2	HB2T	HB2T	
	1-1/2"	Part No.	HF013039028	HF013047028	HF013039028	HF013047028	HF013039036	HF013047036	
		Old No.	HB2	HB2S	HB2	HB2S	HB2T	HB2ST	
	2"	Part No.	HF013039028	HF013047028	HF013039028	HF013047028	HF013039036	HF013047036	
		Old No.	HB2	HB2S	HB2	HB2S	HB2T	HB2ST	
	860 QT	3/4"	Part No.	HF013027023	HF021033025	HF013027023	HF013039028	HF013027035	HF013039036
			Old No.	HB1	HB1.5	HB1	HB2	HB1T	HB2T
1"		Part No.	HF013027023	HF021033025	HF013027023	HF013039028	HF013027035	HF013039036	
		Old No.	HB1	HB1.5	HB1	HB2	HB1T	HB2T	
1-1/4"		Part No.	HF021033025	HF013039028	HF021033025	HF013039028	HF013039036	HF013039036	
		Old No.	HB1.5	HB2	HB1.5	HB2	HB2T	HB2T	
1-1/2"		Part No.	HF021033025	HF013039028	HF021033025	HF013039028	HF013039036	HF013047036	
		Old No.	HB1.5	HB2	HB1.5	HB2	HB2T	HB2ST	
2"		Part No.	HF021033025	HF013047028	HF021033025	HF013047028	HF013039036	HF013047036	
		Old No.	HB1.5	HB2S	HB1.5	HB2S	HB2T	HB2ST	
860 U QT		3/4"	Part No.	HF013027023	HF021033025	HF013027035	HF013039028	HF013027035	HF013039036
			Old No.	HB1	HB1.5	HB1T	HB2	HB1T	HB2T
	1"	Part No.	HF021033025	HF021033025	HF013039028	HF013039028	HF013039036	HF013039036	
		Old No.	HB1.5	HB1.5	HB2	HB2	HB2T	HB2T	
	1-1/4"	Part No.	HF021033025	HF013039028	HF013039028	HF013039028	HF013039036	HF013039036	
		Old No.	HB1.5	HB2	HB2	HB2	HB2T	HB2T	
	1-1/2"	Part No.	HF013039028	HF013047028	HF013039028	HF013047028	HF013039036	HF013047036	
		Old No.	HB2	HB2S	HB2	HB2S	HB2T	HB2ST	
	2"	Part No.	HF013039028	HF013047028	HF013039028	HF013047028	HF013039036	HF013047036	
		Old No.	HB2	HB2S	HB2	HB2S	HB2T	HB2ST	
	MANU ACTURER & MODEL O B P			STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)	
	EBCO	Pipe Size		T	TS	T	TS	T	TS
805YD / 806YD	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055	
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E	
	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055	
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E	
	4"	Part No.	HA032090050	HA032090050	HA032090050	HA032090050	HA032090050	HA032090957	
		Old No.	HB4N	HB4N	HB4N	HB4N	HB4N	HB4E	
	6"	Part No.	HA036105053	HA036105053	HA036105053	HA036105064	HA036105053	HA036105064	
		Old No.	HB6N	HB6N	HB6N	HB6E	HB6N	HB6E	
	8"	Part No.	HA040118058	HA040118074	HA040118058	HA040118074	HA040118058	HA040118074	
		Old No.	HB8N	HB8E	HB8N	HB8E	HB8N	HB8E	
	10"	Part No.	HA042142065	HA042142085	HA042142065	HA042142085	HA042142065	HA042142085	
		Old No.	HB10N	HB10E	HB10N	HB10E	HB10N	HB10E	
825YD / 826YD	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055	
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E	
	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055	
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E	
	4"	Part No.	HA032090050	HA032090050	HA032090050	HA032090050	HA032090050	HA032090957	
		Old No.	HB4N	HB4N	HB4N	HB4N	HB4N	HB4E	
	6"	Part No.	HA036105053	HA036105053	HA036105053	HA036105064	HA036105053	HA036105064	
		Old No.	HB6N	HB6N	HB6N	HB6E	HB6N	HB6E	
	8"	Part No.	HA040118058	HA040118074	HA040118058	HA040118074	HA040118058	HA040118074	
		Old No.	HB8N	HB8E	HB8N	HB8E	HB8N	HB8E	
	10"	Part No.	HA042142065	HA042142085	HA042142065	HA042142085	HA042142065	HA042142085	
		Old No.	HB10N	HB10E	HB10N	HB10E	HB10N	HB10E	



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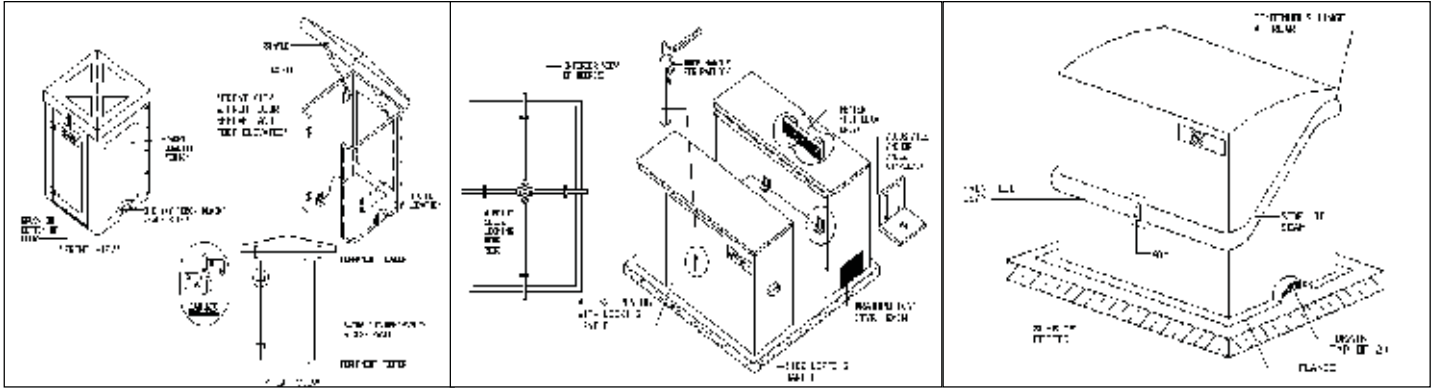
STANDARD ENCLOSURE SIZING MATRI				(SEE NOTES ON PAGE)				
MANU ACTURER & MODEL O B P		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)		
EBCO	Pipe Size		T	TS	T	TS	T	TS
850 / 856	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E
	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070055	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3N	HB3E
	4"	Part No.	HA032090050	HA032090050	HA032090050	HA032090050	HA032090050	HA032090057
		Old No.	HB4N	HB4N	HB4N	HB4N	HB4N	HB4E
	6"	Part No.	HA036105053	HA036105053	HA036105053	HA036105064	HA036105053	HA036105064
		Old No.	HB6N	HB6N	HB6N	HB6E	HB6N	HB6E
	8"	Part No.	HA040118058	HA040118074	HA040118058	HA040118074	HA040118074	HA040118074
		Old No.	HB8N	HB8E	HB8N	HB8E	HB8E	HB8E
860	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HF026070055	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3N	HB3E
	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070055	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3N	HB3E
	4"	Part No.	HA032090050	HA032090050	HA032090050	HA032090057	HA032090050	HA032090057
		Old No.	HB4N	HB4N	HB4N	HB4E	HB4N	HB4E
	6"	Part No.	HA036105053	HA036105064	HA036105053	HA036105064	HA036105053	HA036105064
		Old No.	HB6N	HB6E	HB6N	HB6E	HB6N	HB6E
	8"	Part No.	HA040118058	HA040118074	HA040118074	HA040118074	HA040118074	HA040118074
		Old No.	HB8N	HB8E	HB8E	HB8E	HB8E	HB8E
10"	Part No.	HA042142065	HA042142085	HA042142065	HA042142085	HA042142065	HA042142085	
	Old No.	HB10N	HB10E	HB10N	HB10E	HB10N	HB10E	
870 / 876 / 880 / 886	2-1/2"	Part No.	HL035045035	HL035045035	HM041041045	HM041041045	HM041041045	HM041041045
		Old No.	HB3000	HB3000	HB4FEM	HB4FEM	HB4FEM	HB4FEM
	3"	Part No.	HL035045035	HL035045035	HM041041045	HM041041045	HM041041045	HM041041045
		Old No.	HB3000	HB3000	HB4FEM	HB4FEM	HB4FEM	HB4FEM
	4"	Part No.	HL035045035	HL035045035	HM041041045	HM041041045	HM041041045	HM041041045
		Old No.	HB3000	HB3000	HB4FEM	HB4FEM	HB4FEM	HB4FEM
	6"	Part No.	HL044053044	HL044053044	HL044053044	HL044053044	HM047047049	HM047047049
		Old No.	HB4000	HB4000	HB4000	HB4000	HB6FEM	HB6FEM
	OR	Part No.	HM047047049	HM047047049	HM047047049	HM047047049	HM047047049	HM047047049
		Old No.	HB6FEM	HB6FEM	HB6FEM	HB6FEM	HB6FEM	HB6FEM
8"	Part No.	HL052061052	HL052061052	HM047047049	HM053053056	HM047047049	HM053053056	
	Old No.	HB5000	HB5000	HB6FEM	HB8FEM	HB6FEM	HB8FEM	
OR"	Part No.	HM053053056	HM053053056	HM053053056	HM053053056	HM053053056	HM053053056	
	Old No.	HB8FEM	HB8FEM	HB8FEM	HB8FEM	HB8FEM	HB8FEM	
10"	Part No.	HL052061052	HL052061052	HL052061052	HL052061052	HL052061052	HL052061052	
	Old No.	HB5000	HB5000	HB5000	HB5000	HB5000	HB5000	
OR"	Part No.	HM054062056	HM054062056	HM054062056	HM054062056	HM054062056	HM054062056	
	Old No.	HB10FEM	HB10FEM	HB10FEM	HB10FEM	HB10FEM	HB10FEM	



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STANDARD ENCLOSURE SIZING MATRIX

MANUFACTURER & MODEL OR PIPE			STANDARD ENCLOSURE (1 MIN. CLEARANCE)	STANDARD ENCLOSURE (4 MIN. CLEARANCE)	STANDARD ENCLOSURE (3 MIN. CENTERLINE)	
MANUFACTURER	PIPE SIZE		T	T	T	
LOMATIC	3/4"	Part No.	HF013027023	HF013027023	HF013027035	
		Old No.	HB1	HB1	HB1T	
	1-1/2"	Part No.	HF013039028	HF013039028	HF013039036	
		Old No.	HB2	HB2	HB2T	
RPZE	3/4"	Part No.	HF013027023	HF013027023	HF013027035	
		Old No.	HB1	HB1	HB1T	
	1"	Part No.	HF013027023	HF013027023	HF013027035	
		Old No.	HB1	HB1	HB1T	
	1-1/4"	Part No.	HF021033025	HF021033025	HF013039036	
		Old No.	HB1.5	HB1.5	HB2T	
	2"	1-1/2"	Part No.	HF013039028	HF013039028	HF013039036
			Old No.	HB2	HB2	HB2T
		2"	Part No.	HF013039028	HF013039028	HF013039036
			Old No.	HB2	HB2	HB2T
DCVE	3/4"	Part No.	HF013027023	HF013027023	HF013027035	
		Old No.	HB1	HB1	HB1T	
	1"	Part No.	HF013027023	HF013027023	HF013027035	
		Old No.	HB1	HB1	HB1T	
	2"	1-1/2"	Part No.	HF013039028	HF013039028	HF013039036
			Old No.	HB2	HB2	HB2T
		2"	Part No.	HF013039028	HF013039028	HF013039036
			Old No.	HB2	HB2	HB2T



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STANDARD ENCLOSURE SIZING MATRIX

MANUFACTURER & MODEL OR PIPE			STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)	
LOMATIC	Pipe Size		NRS	OS&Y	NRS	OS&Y	NRS	OS&Y
RPZ	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E
	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E
	4"	Part No.	HF026070045	HF026070045	HF026070045	HF026070055	HF026070055	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3E	HB3E
	6"	Part No.	HA032090050	HA032090057	HA032090050	HA032090057	HA032090050	HA036105064
		Old No.	HB4N	HB4E	HB4N	HB4E	HB4N	HB6E
	8"	Part No.	HA032090050	HA036105064	HA032090057	HA040118074	HA032090057	HA040118074
		Old No.	HB4N	HB6E	HB4E	HB8E	HB4E	HB8E
	10"	Part No.	HA036105053	HA040118074	HA036105064	HA042142085	HA036105064	HA042142085
		Old No.	HB6N	HB8E	HB6E	HB10E	HB6E	HB10E
DCV	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E
	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E
	4"	Part No.	HF026070045	HF026070045	HF026070045	HF026070055	HF026070055	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3E	HB3E
	6"	Part No.	HA032090050	HA032090050	HA032090050	HA032090057	HA032090057	HA036105064
		Old No.	HB4N	HB4N	HB4N	HB4E	HB4E	HB6E
	8"	Part No.	HA032090050	HA032090057	HA032090050	HA036105064	HA032090057	HA040118074
		Old No.	HB4N	HB4E	HB4N	HB6E	HB4E	HB8E
	10"	Part No.	HA036105053	HA040118074	HA036105064	HA040118074	HA036105064	HA042142085
		Old No.	HB6N	HB8E	HB6E	HB8E	HB6E	HB10E



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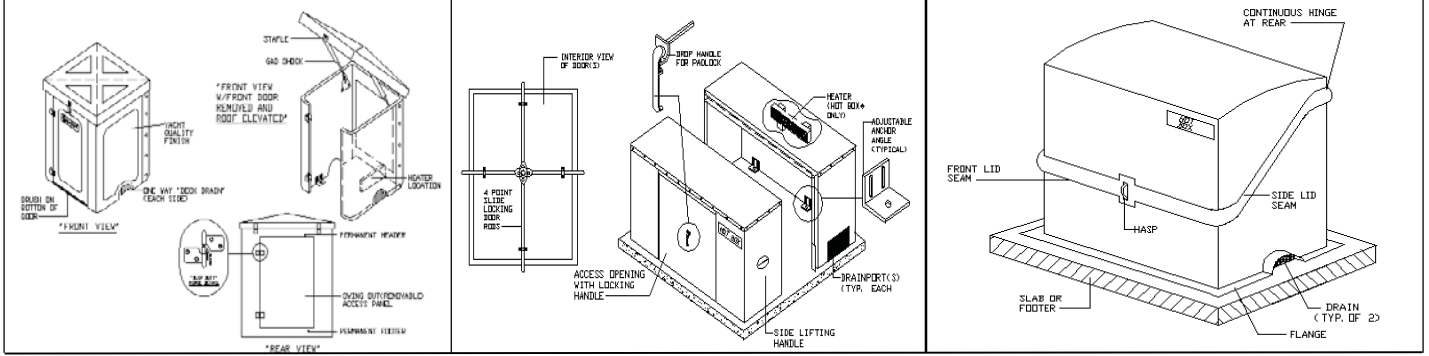
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STANDARD ENCLOSURE SIZING MATRIX

MANUFACTURER & MODEL O B P			STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)	
WATTS	Pipe Size		T	TS	T	TS	T	TS
007 DCDA	3/4"	Part No.	HF013027023	HF013027023	HF013027023	HF013027023	HF013027035	HF013027035
		Old No.	HB1	HB1	HB1	HB1	HB1T	HB1T
	1"	Part No.	HF013027023	HF013039028	HF013027023	HF013039028	HF013027035	HF013039036
		Old No.	HB1	HB2	HB1	HB2	HB1T	HB2T
	1-1/2"	Part No.	HF021033025	HF013039028	HF021033025	HF013039028	HF013039036	HF013039036
		Old No.	HB1.5	HB2	HB1.5	HB2	HB2T	HB2T
2"	Part No.	HF013039028	HF013047028	HF013039028	HF013047028	HF013039036	HF013047036	
	Old No.	HB2	HB2S	HB2	HB2S	HB2T	HB2ST	
009 RPZ	3/4"	Part No.	HF013027023	HF013039028	HF013027023	HF013039028	HF013027035	HF013039036
		Old No.	HB1	HB2	HB1	HB2	HB1T	HB2T
	1"	Part No.	HF021033025	HF013039028	HF021033025	HF013039028	HF013039036	HF013039036
		Old No.	HB1.5	HB2	HB1.5	HB2	HB2T	HB2T
	1-1/2"	Part No.	HF021033025	HF013039028	HF021033025	HF013039028	HF013039036	HF013039036
		Old No.	HB1.5	HB2	HB1.5	HB2	HB2T	HB2T
2"	Part No.	HF013039028	HF013047028	HF013039028	HF013047028	HF013039036	HF013047036	
	Old No.	HB2	HB2S	HB2	HB2S	HB2T	HB2ST	
909 RPZ	3/4"	Part No.	HF013027023	HF013039028	HF013027023	HF013039028	HF013027035	HF013039036
		Old No.	HB1	HB2	HB1	HB2	HB1T	HB2T
	1"	Part No.	HF021033025	HF013039028	HF013039028	HF013039036	HF013039036	HF013039036
		Old No.	HB1.5	HB2	HB2	HB2T	HB2T	HB2T
	1-1/4"	Part No.	HF013039028	HF013047028	HF013039028	HF013047036	HF013039036	HF013047036
		Old No.	HB2	HB2S	HB2	HB2ST	HB2T	HB2ST
1-1/2"	Part No.	HF013039028	HF013047028	HF013039028	HF013047036	HF013039036	HF013047036	
	Old No.	HB2	HB2S	HB2	HB2ST	HB2T	HB2ST	
2"	Part No.	HF013039028	HF013047028	HF013039028	HF013047036	HF013039036	HF013047036	
	Old No.	HB2	HB2S	HB2	HB2ST	HB2T	HB2ST	
U 009 AQT	3/4"	Part No.	HF011019022		HF011019022		HF013027035	
		Old No.	HB.75		HB.75		HB1T	
	1"	Part No.	HF011019022		HF011019022		HF013027035	
		Old No.	HB.75		HB.75		HB1T	
	1-1/2"	Part No.	HF013027023		HF013027023		HF013027035	
		Old No.	HB1		HB1		HB1T	
2"	Part No.	HF013027023		HF013027023		HF013027035		
	Old No.	HB1		HB1		HB1T		



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STANDARD ENCLOSURE SIZING MATRI				(SEE NOTES ON PAGE)			
MANU ACTURER & MODEL O B P		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)	
WATTS	Pipe Size		NRS	OS&Y	NRS	OS&Y	NRS OS&Y
007 DCA / DCDA	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045 HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N HB3E
	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045 HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N HB3E
009 RP	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045 HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N HB3E
	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045 HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N HB3E
709DCA / DCDA	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045 HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N HB3E
	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045 HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N HB3E
	4"	Part No.	HA032090050	HA032090050	HA032090050	HA032090050	HA032090050 HA032090057
		Old No.	HB4N	HB4N	HB4N	HB4N	HB4N HB4E
	6"	Part No.	HA036105053	HA036105053	HA036105053	HA036105064	HA036105053 HA036105064
		Old No.	HB6N	HB6N	HB6N	HB6E	HB6N HB6E
	8"	Part No.	HA040118058	HA040118074	HA040118058	HA040118074	HA040118058 HA040118074
		Old No.	HB8N	HB8E	HB8N	HB8E	HB8N HB8E
	10"	Part No.	HA042142065	HA042142085	HA042142065	HA042142085	HA042142065 HA042142085
		Old No.	HB10N	HB10E	HB10N	HB10E	HB10N HB10E
909 RP / RPDA	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045 HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N HB3E
	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045 HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N HB3E
	4"	Part No.	HA032090050	HA032090050	HA032090050	HA032090057	HA032090050 HA032089957
		Old No.	HB4N	HB4N	HB4N	HB4E	HB4N HB4E
	6"	Part No.	HA036105053	HA036105053	HA036105053	HA036105064	HA036105053 HA036105064
		Old No.	HB6N	HB6N	HB6N	HB6E	HB6N HB6E
	8"	Part No.	HA040118058	HA040118074	HA040118058	HA040118074	HA040118058 HA040118074
		Old No.	HB8N	HB8E	HB8N	HB8E	HB8N HB8E
	10"	Part No.	HA042142065	HA042142085	HA042142065	HA042142085	HA042142065 HA042142085
		Old No.	HB10N	HB10E	HB10N	HB10E	HB10N HB10E
774 / 774 DCDA	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045 HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N HB3E
	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045 HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N HB3E
	4"	Part No.	HF026070045	HF026070045	HF026070045	HA026070055	HF026070045 HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3N HB3E
	6"	Part No.	HA032090050	HA032090050	HA032090050	HA032090057	HA032090050 HA036105064
		Old No.	HB4N	HB4N	HB4N	HB4E	HB4N HB6E
	8"	Part No.	HA036105053	HA036105064	HA036105053	HA036105064	HA036105064 HA040118074
		Old No.	HB6N	HB6E	HB6N	HB6E	HB6E HB8E
	10"	Part No.	HA036105053	HA040118074	HA036105053	HA042142085	HA036105064 HA042142085
		Old No.	HB6N	HB8E	HB6N	HB10E	HB6E HB10E
994 / 994 RPDA	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HA026070055	HF026070045 HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3N HB3E
	3"	Part No.	HF026070045	HA026070055	HF026070045	HA026070055	HF026070045 HF026070055
		Old No.	HB3N	HB3E	HB3N	HB3E	HB3N HB3E
	4"	Part No.	HF026070045	HA026070055	HF026070045	HA026070055	HF026070045 HF026070055
		Old No.	HB3N	HB3E	HB3N	HB3E	HB3N HB3E
	6"	Part No.	HA032090050	HA036105064	HA032090050	HA036105064	HA032090050 HA036105064
		Old No.	HB4N	HB6E	HB4N	HB6E	HB4N HB6E
	8"	Part No.	HA036105053	HA040118074	HA036105064	HA040118074	HA036105064 HA040118074
		Old No.	HB6N	HB8E	HB6E	HB8E	HB6E HB8E
	10"	Part No.	HA036105053	HA040118074	HA036105064	HA042142085	HA036105064 HA042142085
		Old No.	HB6N	HB8E	HB6E	HB10E	HB6E HB10E



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STANDARD ENCLOSURE SIZING MATRI				(SEE NOTES ON PAGE)				
MANU ACTURER & MODEL O B P		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)		
WATTS	Pipe Size		NRS	OS&Y	NRS	OS&Y	NRS	OS&Y
775 / 995	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E
	4"	Part No.	HF026070045	HF026070045	HF026070045	HF026070055	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3N	HB3E
	6"	Part No.	HA032090050	HA032090050	HA032090050	HA032090057	HA032090050	HA036105064
		Old No.	HB4N	HB4N	HB4N	HB4E	HB4N	HB6E
	8"	Part No.	HA032090050	HA032090057	HA032090057	HA036105064	HA036105053	HA040118074
		Old No.	HB4N	HB4E	HB4E	HB6E	HB6N	HB8E
N775 / N995	3"	Part No.	HL035045035	HL035045035	HL035045035	HL035045035	HL044053044	HL044053044
		Old No.	HB3000	HB3000	HB3000	HB3000	HB4000	HB4000
	4"	Part No.	HL035045035	HL035045035	HL035045035	HL035045035	HL044053044	HL044053044
		Old No.	HB3000	HB3000	HB3000	HB3000	HB4000	HB4000
	6"	Part No.	HL044053044	HL044053044	HL044053044	HL044053044	HL044053044	HL044053044
		Old No.	HB4000	HB4000	HB4000	HB4000	HB4000	HB4000
	8"	Part No.	HL052061052	HL052061052	HL052061052	HL052061052	HL052061052	HL052061052
		Old No.	HB5000	HB5000	HB5000	HB5000	HB5000	HB5000
775 DCDA / 995 RPDA	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E
	4"	Part No.	HF026070045	HF026070045	HF026070045	HF026070055	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3N	HB3E
	6"	Part No.	HA032090050	HA032090050	HA032090050	HA032090057	HA032090050	HA036105064
		Old No.	HB4N	HB4N	HB4N	HB4E	HB4N	HB6E
	8"	Part No.	HA032090050	HA032090057	HA032090057	HA036105064	HA036105053	HA040118074
		Old No.	HB4N	HB4E	HB4E	HB6E	HB6N	HB8E
N775 DCDA / N995 RPDA	3"	Part No.	HL035045035	HL044053044	HL044053044	HL044053044	HL044053044	HL044053044
		Old No.	HB3000	HB4000	HB4000	HB4000	HB4000	HB4000
	4"	Part No.	HL044053044	HL044053044	HL044053044	HL044053044	HL044053044	HL044053044
		Old No.	HB4000	HB4000	HB4000	HB4000	HB4000	HB4000
	6"	Part No.	HL044053044	HL044053044	HL044053044	HL044053044	HL044053044	HL052061052
		Old No.	HB4000	HB4000	HB4000	HB4000	HB4000	HB5000
	8"	Part No.	HL052061052	HL052061052	HL052061052	HL052061052	HL052061052	HL052061052
		Old No.	HB5000	HB5000	HB5000	HB5000	HB5000	HB5000
757 / 757 DCDA	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E
	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3N	HB3E
	4"	Part No.	HF026070045	HF026070045	HF026070045	HF026070045	HF026070055	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3N	HB3E	HB3E
	6"	Part No.	HA032090050	HA032090057	HA032090050	HA032090057	HA032090057	*SEE NOTE
		Old No.	HB4N	HB4E	HB4N	HB4E	HB4E	MHB6E
	8"	Part No.	HA032102050	HA036105064	HA032102050	HA036105064	HA032102050	*SEE NOTE
		Old No.	HB4NS	HB6E	HB4NS	HB6E	HB4ES	MHB8E
	10"	Part No.	HA036105053	HA040118074	HA036105064	HA040118074	HA036105064	*SEE NOTE
		Old No.	HB6N	HB8E	HB6E	HB8E	HB6E	MHB10E

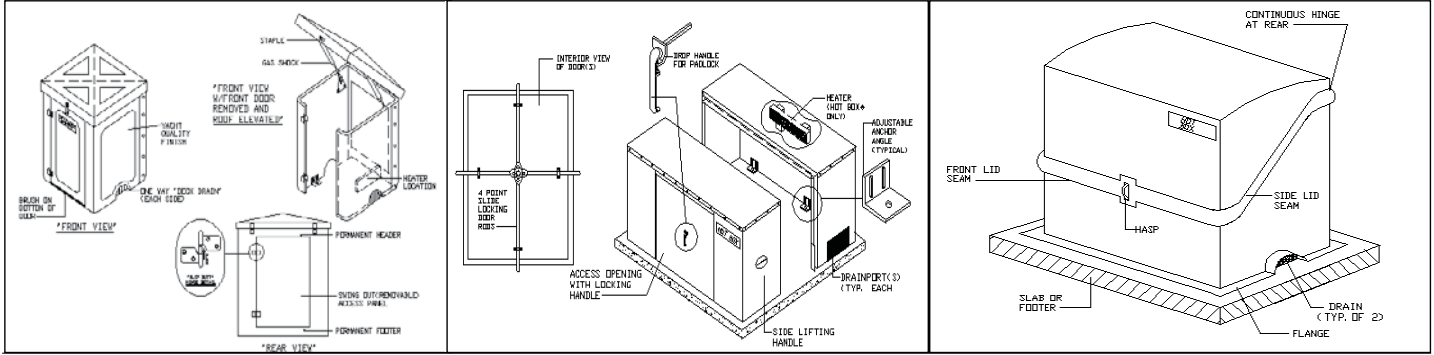
*CONTACT CUSTOMER SERVICE FOR DETAILS.



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STANDARD ENCLOSURE SIZING MATRIX

MANUFACTURER & MODEL OR PIPE		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)		
WILKINS	Pipe Size	Part No.	T	TS	T	TS	T	TS
950 XL	3/4"	Part No.	HF013027023	HF013039028	HF013027035	HF013039028	HF013027035	HF013039036
		Old No.	HB1	HB2	HB1T	HB2	HB1T	HB2T
	1"	Part No.	HF013027023	HF013039028	HF013027035	HF013039028	HF013027035	HF013039036
		Old No.	HB1	HB2	HB1T	HB2	HB1T	HB2T
	1-1/4"	Part No.	HF021033025	HF013047028	HF013039028	HF013047028	HF013039036	HF013047036
		Old No.	HB1.5	HB2S	HB2	HB2S	HB2T	HB2ST
1-1/2"	Part No.	HF021033025	HF013047028	HF013039028	HF013047028	HF013039036	HF013047036	
	Old No.	HB1.5	HB2S	HB2	HB2S	HB2T	HB2ST	
975 XL	3/4"	Part No.	HF013039028	HF013047028	HF013039028	HF013047028	HF013039036	HF013047036
		Old No.	HB2	HB2S	HB2	HB2S	HB2T	HB2ST
	1"	Part No.	HF013027023	HF013039028	HF013027035	HF013039028	HF013027035	HF013039036
		Old No.	HB1	HB2	HB1T	HB2	HB1T	HB2T
	1-1/4"	Part No.	HF013039028	HF013047028	HF013039036	HF013047036	HF013039036	HF013047036
		Old No.	HB2	HB2S	HB2T	HB2ST	HB2T	HB2ST
1-1/2"	Part No.	HF013039028	HF013047028	HF013039036	HF013047036	HF013039036	HF013047036	
	Old No.	HB2	HB2S	HB2T	HB2ST	HB2T	HB2ST	
2"	Part No.	HF013039028	HF013047028	HF013039036	HF013047036	HF013039036	HF013047036	
	Old No.	HB2	HB2S	HB2T	HB2ST	HB2T	HB2ST	



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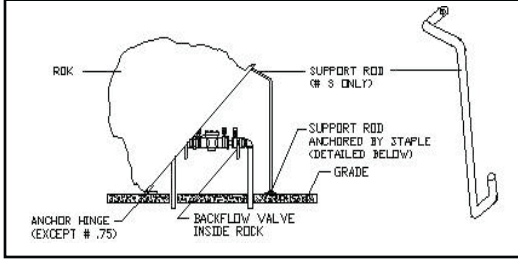
MANUFACTURER & MODEL O B P		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)		
WILKINS	Pipe Size		NRS	OS&Y	NRS	OS&Y	NRS	OS&Y
950 / 950 DA	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HF026070055	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3N	HB3E
	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070055	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3N	HB3E
	4"	Part No.	HA032090050	HA032090050	HA032090050	HA032090050	HA032090050	HA032090057
		Old No.	HB4N	HB4N	HB4N	HB4N	HB4N	HB4E
	6"	Part No.	HA036105053	HA036105053	HA036105053	HA036105064	HA036105053	HA036105064
		Old No.	HB6N	HB6N	HB6N	HB6E	HB6N	HB6E
	8"	Part No.	HA040118058	HA040118074	HA040118058	HA040118074	HA040118058	HA040118074
		Old No.	HB8N	HB8E	HB8N	HB8E	HB8N	HB8E
	10"	Part No.	HA042142065	HA042142085	HA042142065	HA042142085	HA042142065	HA042142085
		Old No.	HB10N	HB10E	HB10N	HB10E	HB10N	HB10E
975 / 975 DA	2-1/2"	Part No.	HF026070045	HF026070045	HF026070045	HF026070055	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3N	HB3E
	3"	Part No.	HF026070045	HF026070045	HF026070045	HF026070055	HF026070045	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3N	HB3E
	4"	Part No.	HA032090050	HA032090050	HA032090050	HA032090050	HA032090050	HA032090057
		Old No.	HB4N	HB4N	HB4N	HB4N	HB4N	HB4E
	6"	Part No.	HA036105053	HA036105053	HA036105053	HA036105064	HA036105053	HA036105064
		Old No.	HB6N	HB6N	HB6N	HB6E	HB6N	HB6E
	8"	Part No.	HA040118058	HA040118074	HA040118058	HA040118074	HA040118058	HA040118074
		Old No.	HB8N	HB8E	HB8N	HB8E	HB8N	HB8E
	10"	Part No.	HA042142065	HA042142085	HA042142065	HA042142085	HA042142065	HA042142085
		Old No.	HB10N	HB10E	HB10N	HB10E	HB10N	HB10E
350	4"	Part No.	HF026070045	HF026070045	HF026070045	HF026070055	HF026070055	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3E	HB3E
	6"	Part No.	HF026083045	HA032090057	HF026083045	HA032090057	HF026083055	HA036105064
		Old No.	HB3NS	HB4E	HB3NS	HB4E	HB3ES	HB6E
375	4"	Part No.	HF026070045	HF026070045	HF026070045	HF026070055	HF026070055	HF026070055
		Old No.	HB3N	HB3N	HB3N	HB3E	HB3E	HB3E
	6"	Part No.	HF026083045	HA032090057	HF026083055	HA036105064	HF026083055	HA036105064
		Old No.	HB3NS	HB4E	HB3NS	HB6E	HB3ES	HB6E
450 / 450 DA	4"	Part No.	HL035045035	HL035045035	HL044053044	HL044053044	HM047047049	HM047047049
		Old No.	HB3000	HB3000	HB4000	HB4000	HB6FEM	HB6FEM
		Part No.	HM041041045	HM041041045	HM041041045	HM041041045		
		Old No.	HB4FEM	HB4FEM	HB4FEM	HB4FEM		
	6"	Part No.	HL044053044	HL044053044	HM041041045	HM041041045	HM047047049	HM047047049
		Old No.	HB4000	HB4000	HB4FEM	HB4FEM	HB6FEM	HB6FEM
		Part No.	HM041041045	HM041041045				
		Old No.	HB4FEM	HB4FEM				
	8"	Part No.	HM053053056	HM053053056	HM053053056	HM053053056		
		Old No.	HB8FEM	HB8FEM	HB8FEM	HB8FEM		
		Part No.	HL044053044	HL044053044	HL044053044	HL044053044	HM047047049	HM047047049
		Old No.	HB4000	HB4000	HB4000	HB4000	HB6FEM	HB6FEM
475 / 475 DA	4"	Part No.	HL044053044	HL044053044	HL044053044	HL044053044	HM047047049	HM047047049
		Old No.	HB4000	HB4000	HB4000	HB4000	HB6FEM	HB6FEM
		Part No.	HM041041045	HM041041045	HM041041045	HM041041045		
		Old No.	HB4FEM	HB4FEM	HB4FEM	HB4FEM		
	6"	Part No.	HL044053044	HL044053044	HM041041045	HM041041045	HM047047049	HM047047049
		Old No.	HB4000	HB4000	HB4FEM	HB4FEM	HB6FEM	HB6FEM
		Part No.	HM041041045	HM041041045				
		Old No.	HB4FEM	HB4FEM				
	8"	Part No.	HM053053056	HM053053056	HM053053056	HM053053056		
		Old No.	HB8FEM	HB8FEM	HB8FEM	HB8FEM		



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STANDARD ENCLOSURE SIZING MATRIX

MANUFACTURER & MODEL OR PIPE		STANDARD ENCLOSURE (3 MIN. CLEARANCE)		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)		
AMES	Pipe Size	Part No.	T	TS	T	TS	T	TS
2000B	3/4"	Part No.	HR010026022	HR015040030	HR010026022	HR015040030		
		Old No.	GHR1	GHR2	GHR1	GHR2		
	1"	Part No.	HR010026022	HR015040030	HR010026022	HR015040030		
		Old No.	GHR1	GHR2	GHR1	GHR2		
	1-1/4"	Part No.	HR015040030	HR015040030	HR015040030	HR015040030		
		Old No.	GHR2	GHR2	GHR2	GHR2		
4000B	3/4"	Part No.	HR010026022	HR015040030	HR010026022	HR015040030		
		Old No.	GHR1	GHR2	GHR1	GHR2		
	1"	Part No.	HR010026022	HR015040030	HR010026022	HR015040030		
		Old No.	GHR1	GHR2	GHR1	GHR2		
	1-1/4"	Part No.	HR015040030	HR015040030	HR015040030	HR015040030		
		Old No.	GHR2	GHR2	GHR2	GHR2		
1-1/2"	Part No.	HR015040030	HR015040030	HR015040030	HR015040030			
	Old No.	GHR2	GHR2	GHR2	GHR2			
2"	Part No.	HR015040030		HR015040030				
		Old No.	GHR2		GHR2			



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STANDARD ENCLOSURE OVERGLASS HOT ROK- SIZING MATRIX

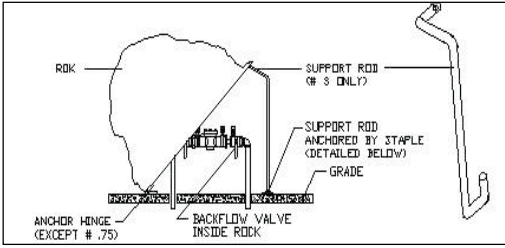
MANUFACTURER & MODEL OR B P		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)		
AMES	Pipe Size		NRS	OS&Y	NRS	OS&Y	NRS	OS&Y
2000SS	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043	HR021067043	HR021067043	
(SAME AS WATTS 774)		Old No.	GHR3	GHR3	GHR3	GHR3	GHR3	
	3"	Part No.	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3			
	4"	Part No.	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3			
3000SS	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043	HR021067043	HR021067043	
(SAME AS WATTS 774 DCDA)		Old No.	GHR3	GHR3	GHR3	GHR3	GHR3	
	3"	Part No.	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3			
4000SS	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043		HR021067043	
(SAME AS WATTS 994)		Old No.	GHR3	GHR3	GHR3		GHR3	
	3"	Part No.	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3			
5000SS	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043		HR021067043	
(SAME AS WATTS 994RPDA)		Old No.	GHR3	GHR3	GHR3		GHR3	
	3"	Part No.	HR021067043		HR021067043			
		Old No.	GHR3		GHR3			
2001SS	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043			
(SAME AS WATTS 775)		Old No.	GHR3	GHR3	GHR3			
	3"	Part No.	HR021067043		HR021067043			
		Old No.	GHR3		GHR3			
3001SS	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043			
(SAME AS WATTS 775RPDA)		Old No.	GHR3	GHR3	GHR3			
	3"	Part No.	HR021067043		HR021067043			
		Old No.	GHR3		GHR3			
4001SS	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043			
(SAME AS WATTS 995)		Old No.	GHR3	GHR3	GHR3			
	3"	Part No.	HR021067043		HR021067043			
		Old No.	GHR3		GHR3			
5001SS	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043			
(SAME AS WATTS 775RPDA)		Old No.	GHR3	GHR3	GHR3			
	3"	Part No.	HR021067043		HR021067043			
		Old No.	GHR3		GHR3			



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STANDARD ENCLOSURE FIBERGLASS HOT ROK- SIZING MATRIX

MANUFACTURER & MODEL OR BRAND			STANDARD ENCLOSURE (3 MIN. CLEARANCE)		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)	
CONBRACO / APOLLO	Pipe Size		T	TS	T	TS	T	TS
40-100 QT	3/4"	Part No.	HR010026022	HR015040030	HR010026022	HR015040030		
		Old No.	GHR1	GHR2	GHR1	GHR2		
	1"	Part No.	HR010026022	HR015040030	HR010026022	HR015040030		
		Old No.	GHR1	GHR2	GHR1	GHR2		
	1-1/4"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
40-100 TOP QT	3/4"	Part No.	HR010026022	HR015040030	HR010026022	HR015040030		
		Old No.	GHR1	GHR2	GHR1	GHR2		
	1"	Part No.	HR010026022	HR015040030	HR010026022	HR015040030		
		Old No.	GHR1	GHR2	GHR1	GHR2		
	1-1/4"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
1-1/2"	Part No.	HR015040030		HR015040030				
	Old No.	GHR2		GHR2				
2"	Part No.	HR015040030		HR015040030				
	Old No.	GHR2		GHR2				



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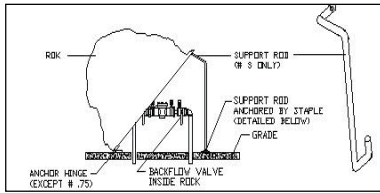
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STANDARD ENCLOSURE FIBERGLASS HOT ROK- SIZING MATRIX

MANUFACTURER & MODEL OR PIPE			STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)		
CONBRACO / APOLLO	Pipe Size		T	TS	T	TS	T	TS	
40-200 QT	3/4"	Part No.	HR010026022	HR015040030	HR015040030	HR015040030			
		Old No.	GHR1	GHR2	GHR2	GHR2			
	1"	Part No.	HR015040030	HR015040030	HR015040030	HR015040030			
		Old No.	GHR2	GHR2	GHR2	GHR2			
	1-1/4"	Part No.	HR015040030	HR015040030	HR015040030	HR015040030			
		Old No.	GHR2	GHR2	GHR2	GHR2			
	1-1/2"	Part No.	HR015040030		HR015040030				
		Old No.	GHR2		GHR2				
	2"	Part No.	HR015040030		HR015040030				
		Old No.	GHR2		GHR2				
	40-200 U QT	3/4"	Part No.	HR010026022	HR015040030	HR015040030	HR015040030		
			Old No.	GHR1	GHR2	GHR2	GHR2		
1"		Part No.	HR010026022	HR015040030	HR015040030	HR015040030			
		Old No.	GHR1	GHR2	GHR2	GHR2			
1-1/4"		Part No.	HR015040030		HR015040030	HR015040030			
		Old No.	GHR2		GHR2	GHR2			
1-1/2"		Part No.	HR015040030		HR015040030				
		Old No.	GHR2		GHR2				
2"		Part No.	HR015040030		HR015040030				
		Old No.	GHR2		GHR2				
MANUFACTURER & MODEL OR PIPE			STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)		
CONBRACO / APOLLO		Pipe Size		NRS	OS&Y	NRS	OS&Y	NRS	OS&Y
40-100 / 40-600	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3	GHR3			
	3"	Part No.	HR021067043	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3	GHR3			
	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3	GHR3			
3"	Part No.	HR021067043	HR021067043	HR021067043	HR021067043				
	Old No.	GHR3	GHR3	GHR3	GHR3				
40-200 / 40-700	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043				
		Old No.	GHR3	GHR3	GHR3				
	3"	Part No.	HR021067043		HR021067043				
		Old No.	GHR3		GHR3				



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STANDARD ENCLOSURE BERGLASS HOT ROK – SIZING MATRIX

MANUFACTURER & MODEL OR PIPE		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)		
EBCO	Pipe Size	Part No.	T	TS	T	TS	T	TS
805Y	3/4"	Part No.	HR010026022	HR015040030	HR010026022	HR015040030		
		Old No.	GHR1	GHR2	GHR1	GHR2		
	1"	Part No.	HR010026022	HR015040030	HR010026022	HR015040030		
		Old No.	GHR1	GHR2	GHR1	GHR2		
	1-1/2"	Part No.	HR015040030	HR015040030				
		Old No.	GHR2	GHR2				
825Y	3/4"	Part No.	HR010026022	HR015040030	HR010026022	HR015040030		
		Old No.	GHR1	GHR2	GHR1	GHR2		
	1"	Part No.	HR010026022	HR015040030	HR010026022	HR015040030		
		Old No.	GHR1	GHR2	GHR1	GHR2		
	1-1/4"	Part No.	HR015040030	HR015040030	HR015040030	HR015040030		
		Old No.	GHR2	GHR2	GHR2	GHR2		
825YA	3/4"	Part No.	HR010026022	HR010026022	HR010026022	HR010026022		
		Old No.	GHR1	GHR1	GHR1	GHR1		
	1"	Part No.	HR010026022	HR010026022	HR010026022	HR010026022		
		Old No.	GHR1	GHR1	GHR1	GHR1		
	1-1/2"	Part No.	HR015040030	HR015040030	HR015040030	HR015040030		
		Old No.	GHR2	GHR2	GHR2	GHR2		
850	1/2"	Part No.	HR010026022	HR010026022	HR010026022	HR010026022		
		Old No.	GHR1	GHR1	GHR1	GHR1		
	3/4"	Part No.	HR010026022	HR015040030	HR010026022	HR015040030		
		Old No.	GHR1	GHR2	GHR1	GHR2		
	1"	Part No.	HR010026022	HR015040030	HR010026022	HR015040030		
		Old No.	GHR1	GHR2	GHR1	GHR2		
850	1-1/4"	Part No.	HR015040030	HR015040030	HR015040030	HR015040030		
		Old No.	GHR2	GHR2	GHR2	GHR2		
	1-1/2"	Part No.	HR015040030	HR015040030	HR015040030	HR015040030		
		Old No.	GHR2	GHR2	GHR2	GHR2		
	2"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			



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STANDARD ENCLOSURE FIBERGLASS HOT ROK- SIZING MATRIX

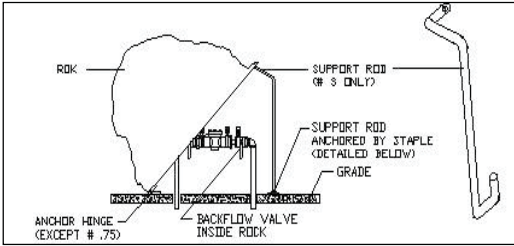
MANUFACTURER & MODEL OR BRAND			STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)	
EBCO	Pipe Size		T	TS	T	TS	T	TS
850 U	1/2"	Part No.	HR010026022	HR010026022	HR010026022	HR010026022		
		Old No.	GHR1	GHR1	GHR1	GHR1		
	3/4"	Part No.	HR010026022	HR010026022	HR010026022	HR010026022		
		Old No.	GHR1	GHR1	GHR1	GHR1		
	1"	Part No.	HR015040030	HR015040030	HR015040030	HR015040030		
		Old No.	GHR2	GHR2	GHR2	GHR2		
	1-1/4"	Part No.	HR015040030	HR015040030	HR015040030	HR015040030		
		Old No.	GHR2	GHR2	GHR2	GHR2		
	1-1/2"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
	2"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
860	1/2"	Part No.	HR010026022	HR010026022	HR010026022	HR015040030		
		Old No.	GHR1	GHR1	GHR1	GHR2		
	3/4"	Part No.	HR010026022	HR010026022	HR015040030	HR015040030		
		Old No.	GHR1	GHR1	GHR2	GHR2		
	1"	Part No.	HR010026022	HR015040030	HR015040030	HR015040030		
		Old No.	GHR1	GHR2	GHR2	GHR2		
	1-1/4"	Part No.	HR015040030	HR015040030	HR015040030	HR015040030		
		Old No.	GHR2	GHR2	GHR2	GHR2		
	1-1/2"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
	2"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
860	1/2"	Part No.	HR010026022	HR010026022	HR015040030	HR015040030		
		Old No.	GHR1	GHR1	GHR2	GHR2		
	3/4"	Part No.	HR010026022	HR015040030	HR015040030	HR015040030		
		Old No.	GHR1	GHR2	GHR2	GHR2		
	1"	Part No.	HR015040030	HR015040030	HR015040030	HR015040030		
		Old No.	GHR2	GHR2	GHR2	GHR2		
	1-1/4"	Part No.	HR015040030	HR015040030	HR015040030	HR015040030		
		Old No.	GHR2	GHR2	GHR2	GHR2		
	1-1/2"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
	2"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
MANUFACTURER & MODEL OR BRAND			STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)	
CONBRACO / APOLLO	Pipe Size		NRS	OS&Y	NRS	OS&Y	NRS	OS&Y
805YD / 806YD	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043	HR021067043		
		Old No.	GHR3	GHR3	GHR3	GHR3		
	3"	Part No.	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3			
825YD / 826YD	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043	HR021067043		
		Old No.	GHR3	GHR3	GHR3	GHR3		
	3"	Part No.	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3			
850 / 856	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043	HR021067043		
		Old No.	GHR3	GHR3	GHR3	GHR3		
	3"	Part No.	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3			
860	2-1/2"	Part No.	HR021067043	HR021067043				
		Old No.	GHR3	GHR3				
	3"	Part No.	HR021067043					
		Old No.	GHR3					



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STANDARD ENCLOSURE FIBERGLASS HOT ROK - SIZING MATRIX

MANUFACTURER & MODEL OR BRAND		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)		
WATTS	Pipe Size	Part No.	T	TS	Part No.	T	TS	
007 DCDA	3/4"	Part No.	HR010026022	HR010026022	HR010026022	HR015040030		
		Old No.	GHR1	GHR1	GHR1	GHR2		
	1"	Part No.	HR010026022	HR015040030	HR010026022	HR015040030		
		Old No.	GHR1	GHR2	GHR1	GHR2		
	1-1/2"	Part No.	HR015040030	HR015040030	HR015040030	HR015040030		
		Old No.	GHR2	GHR2	GHR2	GHR2		
	2"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
	009 RPZ	3/4"	Part No.	HR010026022	HR015040030	HR015040030	HR015040030	
			Old No.	GHR1	GHR2	GHR2	GHR2	
		1"	Part No.	HR015040030	HR015040030	HR015040030	HR015040030	
			Old No.	GHR2	GHR2	GHR2	GHR2	
1-1/4"		Part No.	HR015040030	HR015040030	HR015040030	HR015040030		
		Old No.	GHR2	GHR2	GHR2	GHR2		
1-1/2"		Part No.	HR015040030	HR015040030	HR015040030	HR015040030		
		Old No.	GHR2	GHR2	GHR2	GHR2		
2"		Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
909 RPZ		3/4"	Part No.	HR015040030	HR015040030	HR015040030	HR015040030	
			Old No.	GHR2	GHR2	GHR2	GHR2	
	1"	Part No.	HR015040030	HR015040030	HR015040030			
		Old No.	GHR2	GHR2	GHR2			
	1-1/4"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
	1-1/2"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
	2"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			



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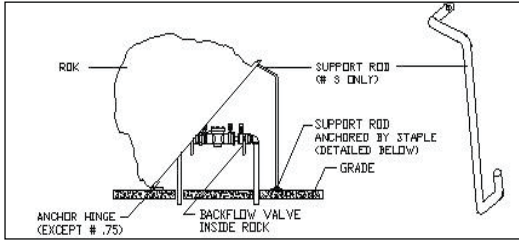
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STANDARD ENCLOSURE FIBERGLASS HOT ROK- SIZING MATRIX

MANUFACTURER & MODEL OR B P		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)		
WATTS	Pipe Size	Part No.	NRS	OS&Y	NRS	OS&Y	NRS	OS&Y
007 DCA / DCDA	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043	HR021067043		
		Old No.	GHR3	GHR3	GHR3	GHR3		
	3"	Part No.	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3			
009 RP	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043	HR021067043		
		Old No.	GHR3	GHR3	GHR3	GHR3		
	3"	Part No.	HR021067043	HR021067043	HR021067043	HR021067043		
		Old No.	GHR3	GHR3	GHR3	GHR3		
709DCA / DCDA	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043	HR021067043		
		Old No.	GHR3	GHR3	GHR3	GHR3		
	3"	Part No.	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3			
909 RP (RPDA DOES NOT FIT)	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3			
	3"	Part No.	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3			
774 / 774 DCDA (SAME AS AMES 2000SS & 3000SS)	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043	HR021067043	HR021067043	
		Old No.	GHR3	GHR3	GHR3	GHR3	GHR3	
	3"	Part No.	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3			
	4"	Part No.	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3			



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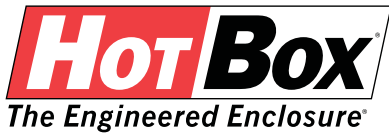
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STANDARD ENCLOSURE BERGLASS HOT ROK- SIZING MATRIX

MANUFACTURER & MODEL			STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (4 MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)	
WILKINS	Pipe Size		T	TS	T	TS	T	TS
950 XL	3/4"	Part No.	HR010026022	HR015040030	HR015040030	HR015040030		
		Old No.	GHR1	GHR2	GHR2	GHR2		
	1"	Part No.	HR010026022	HR015040030	HR015040030	HR015040030		
		Old No.	GHR1	GHR2	GHR2	GHR2		
	1-1/4"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
	1-1/2"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
	2"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
975 XL	3/4"	Part No.	HR010026022	HR015040030	HR015040030	HR015040030		
		Old No.	GHR1	GHR2	GHR2	GHR2		
	1"	Part No.	HR010026022	HR015040030	HR015040030	HR015040030		
		Old No.	GHR1	GHR2	GHR2	GHR2		
	1-1/4"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
	1-1/2"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
	2"	Part No.	HR015040030		HR015040030			
		Old No.	GHR2		GHR2			
MANUFACTURER & MODEL			STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (MIN. CLEARANCE)		STANDARD ENCLOSURE (3 MIN. CENTERLINE)	
WILKINS	Pipe Size		NRS	OS&Y	NRS	OS&Y	NRS	OS&Y
950 / 950 DA	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043	HR021067043		
		Old No.	GHR3	GHR3	GHR3	GHR3		
	3"	Part No.	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3			
975 / 975 DA	2-1/2"	Part No.	HR021067043	HR021067043	HR021067043	HR021067043		
		Old No.	GHR3	GHR3	GHR3	GHR3		
	3"	Part No.	HR021067043	HR021067043	HR021067043			
		Old No.	GHR3	GHR3	GHR3			
350	4"	Part No.	HR021067043					
		Old No.	GHR3					
375	4"	Part No.	HR021067043					
		Old No.	GHR3					



Product Installation



FIBERGLASS HOT BOX®

ALUMINUM HOT BOX®

March 9, 2005

DESIGNER SERIES™

Custom enclosure quote requests should be sent to any of the area representatives listed on our web page.

VALVE GUARD®

VALVE COVER™

Enclosures are quoted and sized according to either engineer's specifications or equipment going inside.

LOW PROFILE™

If quote based on equipment going inside enclosure is needed, please supply a complete list with manufacturer, model number and size of equipment, as well as a rough schematic if available.

PUMP GUARD®

The minimum amount of information needed to quote a modified enclosure is:

VENT GUARD®

1. Size of the enclosure
2. Heat required
3. Ventilation required

DURA FOLD™

Please feel free to fill out the equipment checklist on the reverse side and fax to the attention of your area sales rep for a modified enclosure quote.

GLASS PAD®

POLY ROK®

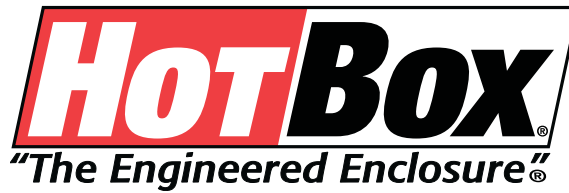
PLEASE NOTE:

HOT ROK®

Orders for non-standard and custom enclosures cannot be cancelled once production has begun, nor product returned once it has been built and shipped.

LOK BOX®

EZ BOX®



BACKFLOW PREVENTION EQUIPMENT CHECKLIST:

Size (please circle) 3/4" 1" 1 1/4" 2" 2 1/2" 3" 4" 6" 8" 10" 12"

Type of Installation (please circle) Single line Dual (Manifold) Tandem (Two separate)

BFP (please circle)

Ames: 2000B 4000B 2000SE 2000SS 2000DCA 2001SS 2001SSN 3000SE 3000SS 3001SS 3001SSN 3000DCDA 4000SS 4000RP 4001SS 4001SSN 5000SS 5000RPDA 5001SS 5001SSN OTHER _____

Cla-Val: DC6L DC7L DD7L DC8L DD8L DC8N DC8V DD8N DD8V D-2 D-4 RP-2 RP-4 RP6L RP7L RP8L RP8N RP8V 16-4 18-4 OTHER _____

Conbraco: 40-100QT 40-100 40-200QT 40-200U 40-200Z 40-200 40-300 40-600 40-700 4S-100 4S100U OTHER _____

Febco: 805Y 806YD 825Y 825YA 825YD 826YD 830 830H 831 850QT 850DC 850DCDA 850U 856DCDA 860QT 860RP 860U 870 876 880 OTHER _____

Flomatic: _DCV DCVE RPZIIIE RPZE RPZ OTHER _____

Hunter: Colt 200 Colt 200A Colt 200N Colt 200Na Colt 300 Colt 300A Colt 300N Colt 300Na Colt 400 Colt 400N Colt 400Z Colt 500 Colt 500N Colt 500Z Maxim 200 Maxim 200A Maxim 200N Maxim 200Na Maxim 300 Maxim 300A Maxim 300N Maxim 300Na Maxim 400A Maxim 400N Maxim 400Z Maxim 500A Maxim 500N Maxim 500Z OTHER _____

Watts: 007QT 007DC 007DCDA 709DC 709DCDA 774 774X 774X-DCDA 775 N775 N775DCDA 0009QT 009RP 909QT 909RP 909RPDA 994 994RPDA 995QT 995 995RPDA N995 OTHER _____

Wilkins: 350 350DA 375 375DA 450 450DA 475 475DA 950XL 950XLT 950XLV 950 950DA 910L 975XL 975XLV 975XLSE 975 975DA OTHER _____

Other: MANUFACTURER _____ MODEL _____

VALVES (please circle) NRS OS&Y Enclosed OS&Y Exposed Ball Valve Quarter Turn Actuator Operated None OTHER _____

ADDITIONAL EQUIPMENT (please circle)

Meter Manufacturer: ABB/Kent Badger Hersey Invensys/Sensus Master MetroFarrier Neptune/Schlumberger Precision Water Specialties Other _____

Meter Type: Compound Fire Line Turbine

Strainer: Basket Plate Wye Other _____

Other: Altitude Valve Meter Bypass Check Valve Fire Department Connection (Siamese) Pressure Reducing Valve Test Tee Wafer Check Valve / Altitude Valve / PRV / Solenoid / Etc.: MANUFACTURER _____ MODEL _____

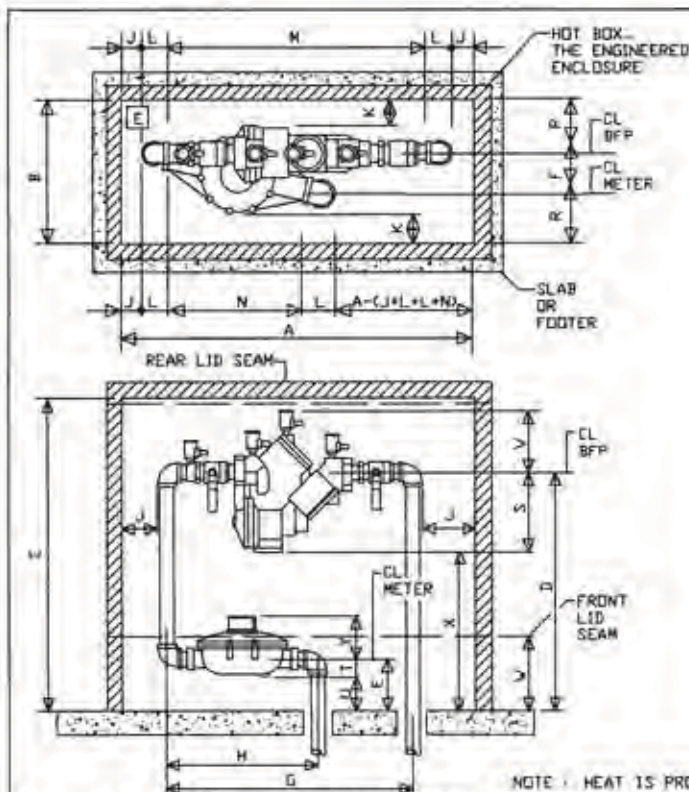
SPECIAL INSTRUCTIONS OR QUESTIONS:

Job Name _____ Job Location _____

Engineer/Contractor _____ Phone _____ Fax _____ E-mail _____

Distributor _____ Phone _____ Fax _____ E-mail _____

Representative _____ Phone _____ Fax _____ E-mail _____



- NOTES:
1. WALL AND INSULATION THICKNESS IS 1".
 2. ALL CHART DIMENSIONS ARE IN INCHES.
 3. SLAB SIZE IS 50" x 24" x 4" THICK (MIN.).
 4. CONTRACTOR TO DECIDE FINAL ASSEMBLY PLACEMENT.

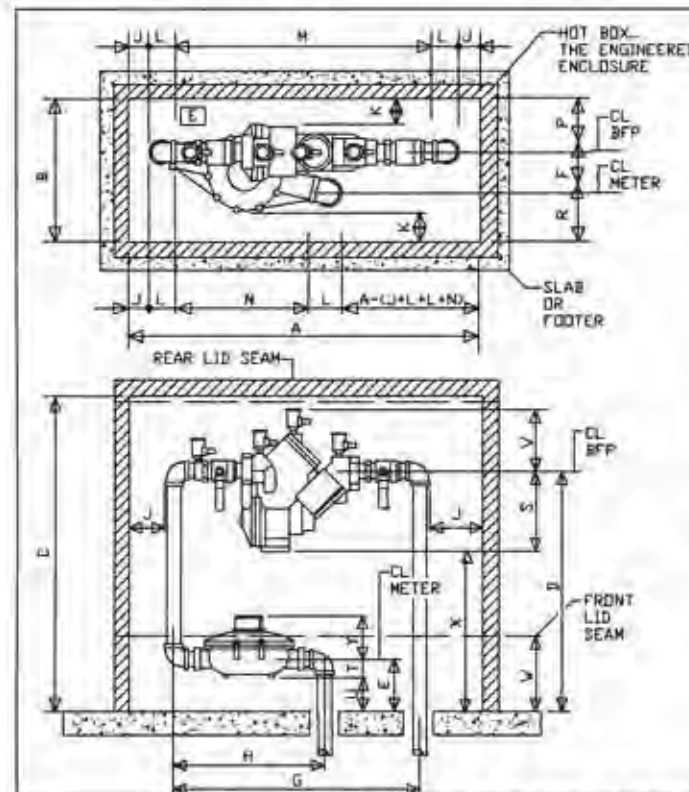
3/4" STACKED INSTALLATION						
A	B	C	D	E	F	
27	13	35	30	9 1/2	4	
G	H	J	K	L	M	
20 7/8	11 5/8 +/-	2 7/16	2 1/2 +/-	2 7/16	17 1/4	
N	P	R	S	T	U	
9 +/-	4 1/4 +/-	4 3/4 +/-	4 3/4	2 1/2	6	
V	W	X	Y	Z		
4	12	25 1/4	3 15/16			

1" STACKED INSTALLATION						
A	B	C	D	E	F	
27	13	35	30	8 3/16	4	
G	H	J	K	L	M	
21 3/16	13 3/4 +/-	2 1/32	2 1/2 +/-	2 7/8	17 3/16	
N	P	R	S	T	U	
10 3/4 +/-	4 1/4 +/-	4 3/4 +/-	4 3/4	2 3/16	6	
V	W	X	Y	Z		
4	12	25 1/4	5 1/4			

NOTE: HEAT IS PROVIDED BY HEAT TRACE CABLE.

Hot Box 924 LANE AVE N. JACKSONVILLE, FLORIDA 32254 (904) 786-0204 (800) 736-0238 FAX (904) 783-6965 http://www.hot-box.com		TITLE: 3/4" AND 1" WATTS 909-QT W/ METER MOUNTED IN STACKED POSITION (STANDARD # HF013027035 ENCLOSURE) ENGINEER / CONTRACTOR: _____ LOCATION: _____			BY/DATE/DWG: SBT / 8-29-96 STACK-1A APPROVED/DATE: _____	
REV. 1:	REV. 2:	REV. 3:	SCALE: NTS	REP. / DISTRIBUTOR:	QUOTE NO.:	

STANDARD STACKED BFP / METER ENCLOSURES



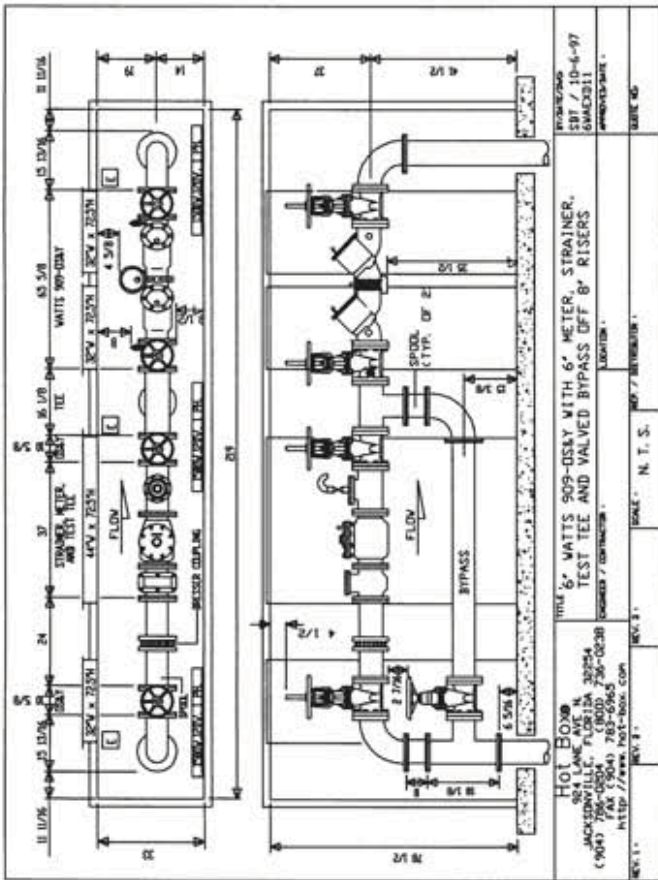
- NOTES:
1. WALL AND INSULATION THICKNESS IS 1 1/2".
 2. ALL CHART DIMENSIONS ARE IN INCHES.
 3. SLAB SIZE IS 50" x 24" x 4" THICK (MIN.).
 4. CONTRACTOR TO DECIDE FINAL ASSEMBLY PLACEMENT.
 5. 90V, 120V, 1 PHASE HEAT TRACE CABLE SUPPLIED.
 6. METER LENGTHS MAY VARY WITH MANUFACTURERS.

1 1/2" STACKED INSTALLATION						
A	B	C	D	E	F	
39	13	36	30	7 3/4	3 7/8	
G	H	J	K	L	M	
26 3/4	17 5/8 +/-	4 11/16	2 +/-	3 15/16	21 3/4	
N	P	R	S	T	U	
12 5/8 +/-	4 5/8 +/-	4 1/2 +/-	6 5/8	1 3/4	6	
V	W	X	Y	Z		
5	12	23 3/8	6 3/8			

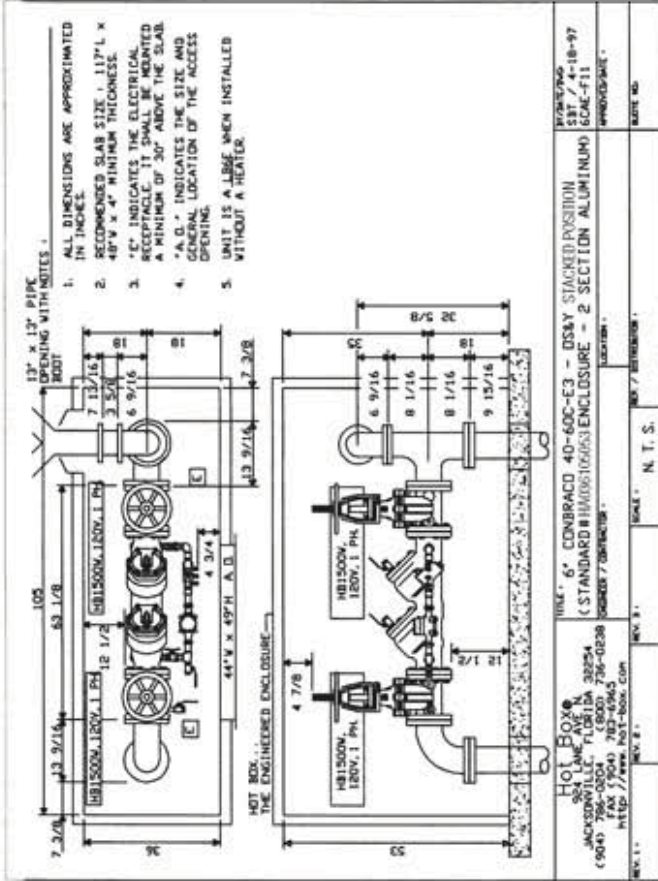
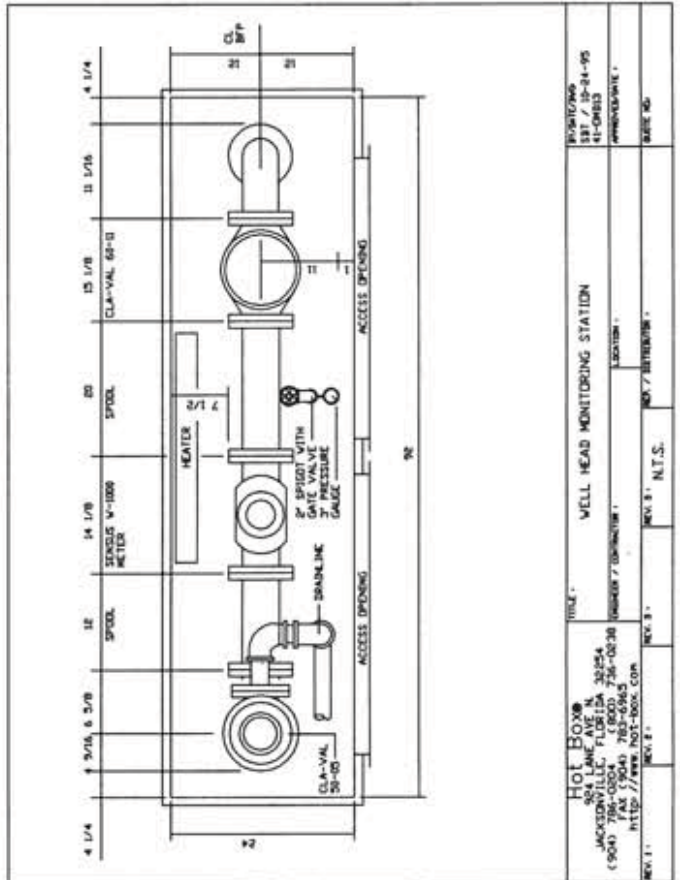
2" STACKED INSTALLATION						
A	B	C	D	E	F	
39	13	36	30	8 1/8	3 3/8	
G	H	J	K	L	M	
29 1/8	20 3/4 +/-	3 3/16	2 +/-	4 1/8	23 5/8	
N	P	R	S	T	U	
15 1/4 +/-	4 5/8 +/-	5 +/-	6 5/8	2 1/8	6	
V	W	X	Y	Z		
5	12	23 3/8	8 1/2			

Hot Box 924 LANE AVE N. JACKSONVILLE, FLORIDA 32254 (904) 786-0204 (800) 736-0238 FAX (904) 783-6965 http://www.hot-box.com		TITLE: 1 1/2" AND 2" WATTS 909-QT W/ METER MOUNTED IN STACKED POSITION (STANDARD # HF013039036 ENCLOSURE) ENGINEER / CONTRACTOR: _____ LOCATION: _____			BY/DATE/DWG: SBT / 8-29-96 STACK-2A APPROVED/DATE: _____	
REV. 1:	4-1-98	REV. 2:	REV. 3:	SCALE: N.T.S.	REP. / DISTRIBUTOR:	QUOTE NO.:

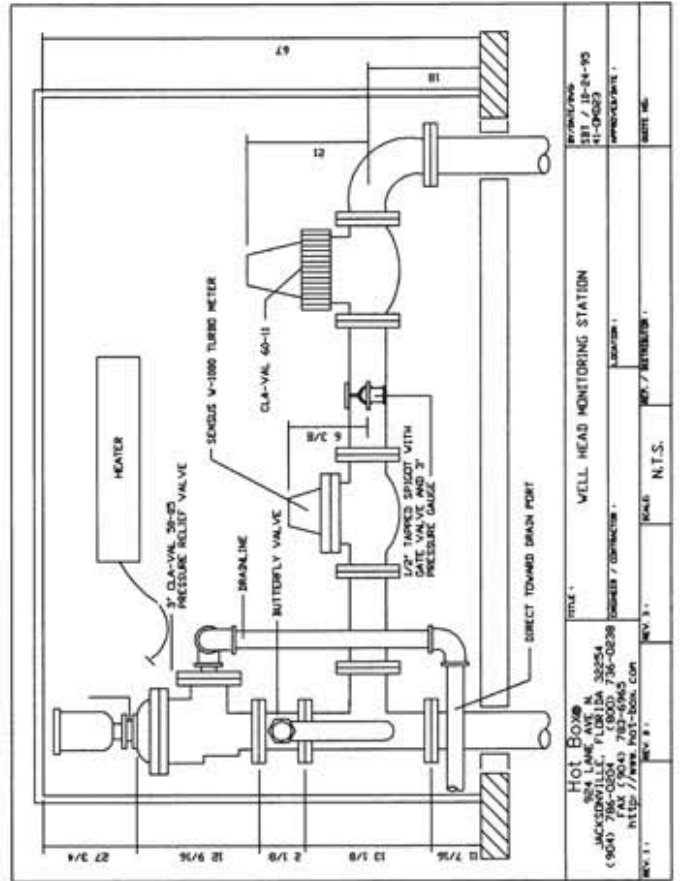
DWG. LOC.: D:\CARD\MTR-GEN\VA TT'S\STACKED\STACK-2A



CUSTOM



ENCLOSURES





HUBBELL LENOIR CITY, INC. COMPLETE TERMS & CONDITIONS OF SALES

Hubbell Lenoir City, Inc. (hereinafter called HLC) hereby gives notice of its exception to any different or additional terms and conditions other than as stated herein. All sales are expressly made conditional on Buyer's assent to the following terms and conditions. Buyer's acceptance of the provisions of HLC's terms and conditions as recited herein shall be conclusively presumed upon Buyer's receipt of the goods, or if no written objection is received by HLC within fifteen (15) days from the date on HLC's order acknowledgment, whichever event shall first occur. These terms and conditions constitute the entire agreement between HLC and Buyer, and supersede other communications between the two parties, whether written or oral.

PRICING

Refer to appropriate Price Schedule, unless otherwise quoted.

TERMS

HLC's payment terms are net 30 days. Invoices will be dated the day of shipment. A service charge of 1-1/2% per month or, if such rate exceeds the maximum lawful rate, the maximum lawful rate shall be assessed on all past due accounts and shall be payable on demand.

QUOTATIONS

Unless otherwise stated in writing, HLC's quotations are subject to acceptance by the Buyer within thirty (30) days from the date of issue.

SALES AND SIMILAR TAXES

HLC's prices do not include any sales, use, excise or similar taxes. Consequently, in addition to the price specified herein, the amount of any present or future sales, use, excise or other similar tax applicable to the sale or use of the equipment hereunder, shall be paid by the Buyer, or in lieu thereof the Buyer shall provide HLC with a tax exemption certificate acceptable to the taxing authorities.

ACCEPTANCE OF ORDERS

All orders are subject to acceptance by HLC at its main office at 3621 Industrial Park Drive, Lenoir City, TN, USA, and to "HLC Complete Terms and Conditions of Sales". Any other terms proposed by Buyer are rejected unless expressly accepted in writing. Orders shall be deemed to be executed in the State of Virginia and shall be construed and performed in accordance with the Laws of that State. Acceptance of any order is subject to availability of product and the ability of HLC to deliver. Orders will be billed at prices in effect at time of shipment unless otherwise agreed.

SALES BY AGENTS

Sales by agents or through overseas representatives shall be at prices, terms and conditions of sale specified by HLC. All invoices will be issued by and payment remitted to HLC.

DELAY

HLC will use reasonable efforts to meet shipment or delivery dates specified by HLC, but such dates are estimates only. HLC shall in no event be liable for any delay or nondelivery if such delay or nondelivery is caused directly or indirectly by Acts of God, fire, flood, strike or lockout or other labor dispute, accident, civil commotion, riot, war, governmental regulation or order, whether or not it later proves to be invalid, or from any other cause or causes (whether or not similar to any of the foregoing) beyond HLC's control. In no case will HLC be liable for loss of profits or any special or consequential damages on account of any delay in delivery or nondelivery whether or not excused hereunder.

SHIPPING DEFERMENT

Buyer requests for shipping deferment must be approved by HLC and are subject to price negotiation.

LIMITED WARRANTY AND LIMITATION OF LIABILITY

MATERIAL: HLC warrants all products sold by it to be merchantable (as such term is defined in the Uniform Commercial Code) and to be free from defects in material and workmanship. Buyer must notify HLC promptly of any claim under this warranty. The Buyer's exclusive remedy for breach of this warranty shall be the repair or replacement, F.O.B. factory, at HLC's option, of any product defective under the warranty, which is returned to HLC within one year from the date of shipment. NO OTHER WARRANTY, WHETHER EXPRESS OR ARISING BY OPERATION OF THE LAW, COURSE OF DEALING, USAGE OF TRADE OR OTHERWISE IMPLIED, SHALL EXIST IN CONNECTION WITH HLC'S PRODUCTS OR ANY SALE OR USE THEREOF. HLC SHALL IN NO EVENT BE LIABLE FOR ANY LOSS OF PROFITS OR CONSEQUENTIAL OR SPECIAL DAMAGES INCURRED BY BUYER. HLC's warranty shall run only to the first Buyer of a product from HLC, from HLC's Buyer, or from an original equipment manufacturer reselling HLC's product, and is non-assignable and non-transferable and shall be of no force and effect if asserted by any person other than such first Buyer. This warranty applies only to the use of the product as intended by HLC and does not cover any modification, misapplication, or misuse of said product.

LIMITED WARRANTY AND LIMITATION OF LIABILITY (continued)

APPLICATION: HLC does not warrant the accuracy of and results from product or system performance recommendations resulting from any engineering analysis or study. This applies regardless of whether a charge is made for the recommendation, or if it is provided free of charge. Responsibility for selection of the proper product of application rests solely with the purchaser. In the event of errors or inaccuracies determined to be caused by HLC, its liability will be limited to the reperformance of any such analysis or study.

PURCHASER INSPECTIONS: Tests, inspections and acceptance of all material must be made at the factory. Purchasers' inspectors are welcome at the factories and are provided with the necessary facilities for carrying out their work. Name and phone number of who should be contacted for inspection should be given to HLC no later than two weeks prior to scheduled shipment date.

LIMITATION OF LIABILITY: IN NO EVENT, WHETHER AS A RESULT OF BREACH OF CONTRACT OR WARRANTY OR ALLEGED NEGLIGENCE, SHALL HLC BE LIABLE FOR SPECIAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS OR REVENUE, LOSS OF USE OF THE EQUIPMENT OR ANY ASSOCIATED EQUIPMENT, LOSS OF CAPITAL, COST OF SUBSTITUTE EQUIPMENT, FACILITIES OR SERVICES, DOWNTIME COSTS, OR CLAIMS OF THIRD PARTIES OF THE BUYER FOR SUCH DAMAGES. Any claim by Buyer for breach of the foregoing warranty shall be deemed waived by Buyer unless submitted to HLC in writing within thirty (30) days from the date Buyer discovered, or by reasonable inspection should have discovered the alleged breach. Any cause of action for breach of the foregoing warranty shall be brought within one year after the cause of action has accrued.

FREIGHT ALLOWANCE and F.O.B. POINT

All shipments are F.O.B. origin. Risk of loss and title of goods shall pass to Buyer upon delivery to the designated carrier. Freight is prepaid and allowed on all shipments of products with a net order value of \$5,000 and above to destinations within the Continental U.S.A and Canada. Shipments to Alaska and Hawaii are F.O.B. Pacific Coast docks, collect beyond. Tool trailers will be F.O.B. HLC's dock – no freight allowed.

HLC reserves the right to route all qualified freight allowed shipments via least expensive surface route within the Continental United States and Canada. Buyer will assume all charges for transportation specified via more expensive means. Acceptance of a specified routing does not constitute a guarantee of ship date, transit time or arrival date. HLC will not be responsible for any cartage or storage charges at destination.

HLC's responsibility for exception-free delivery ceases when the transportation company receives shipment in good condition. Claims for loss or damage must be reported directly to the carrier. HLC's willingness to assist does not indicate liability for claim or replacement.

PARTIAL RELEASE

If an order has multiple releases specified by the Buyer, each release will be treated as individual orders, relative to freight allowance and minimum billing.

BACK ORDERS

Back orders that are the responsibility of HLC will be shipped F.O.B. factory or point of shipment with freight prepaid and allowed via the most cost effective method, providing the original order qualified for freight allowance.

MINIMUM BILLING

Standard Orders -- \$400 net per order. Minimum waived on hardware only orders. \$40 surcharge for below minimum orders.

ORDER ADD-ON POLICY

HLC's "Add-On" policy allows you to add items to an existing unshipped order for up to fifteen (15) days from the entry date of the original order.

DELIVERY SCHEDULE

Based on estimated shipping dates, HLC makes every effort to meet Buyer's shipping requirements. HLC will not assume liability because of delayed shipment for any reason. HLC's responsibility ceases upon acceptance of shipment by carrier.

CANCELLATIONS

Cancellation of an order for current stock product requires a minimum of five (5) days' notice prior to actual ship date. Stock item orders shipped after cancellation notice is received, but before expiration of the five-day requirement, will be subject to all standard Returned Goods conditions.

Cancellation on non-stock items may be made only if no work has been performed or material purchased. If cancellation is requested after work is in progress, there will be a cancellation charge as established by HLC.

Orders may not be cancelled unless HLC gives its written consent, and then only upon agreement as to applicable cancellation charges.

RETURNED GOODS

GENERAL CONDITIONS applying to all transactions:

1. *Merchandise is not returnable without the written consent of HLC.*
2. *Request for permission to return merchandise must be made in writing within one year from date of shipment, and Buyer must provide original HLC invoice number.*
3. *Material to be returned must be considered standard material by HLC.*
4. *HLC reserves the right to refuse returns of any special or made-to-order material, regardless of condition.*
5. *All returned goods must be in excellent, resaleable condition and packaged in the original carton. Products will be inspected upon return; and any service or repair needed to place them in first class, saleable condition will be charged and added to the restocking charge.*
6. *A 25% restocking charge will be deducted from all credits issued on authorized returns.*
7. *Return Goods Authorization (RGA) Packing List, supplied by the factory, must accompany the return shipment.*
8. *Return freight must be prepaid. Material must be received by HLC within sixty (60) days of issuance of RGA.*
9. *Net value of the return must not be less than \$250.*
10. *HLC reserves the right to deduct for any damage sustained in transit.*
11. *Unauthorized returns will be refused. Equipment returned without proper authorization from HLC will, at the sole option of HLC, be returned to the Buyer freight collect, or scrapped immediately with no issuance of credit. Unauthorized material included in a return will not be credited.*

BROKEN PACKAGE POLICY

Shipments will be made in standard package quantities or multiples thereof. HLC Customer Service will notify the Buyer of any orders that do not comply. The Buyer must authorize an adjustment to comply with standard package quantities before the order will be entered.

QUOTATION PRICE PROTECTION

All prices shown in the price lists are subject to change without notice.

All quotations on special products or modifications to catalog items are binding only if confirmed in writing by the factory for the period shown on the quotation.

Price protection will be provided for a period of thirty (30) days from date of quotation from HLC.

ORDERS

All orders are taken and prices quoted only with the understanding that each order shall be subject to the acceptance of HLC at its principal office upon such terms as we may specify when order is received.

Prices to cover amount of any sales or excise tax which now or hereinafter may be imposed by any taxing authority upon this merchandise or the sale or manufacture thereof.

PRODUCT SPECIFICATION

HLC reserves the right to discontinue items, modify designs, and change specifications or prices without incurring obligation.

INVOICING

All invoices are due and payable per the standard terms stated herein. In the case of an apparent discrepancy in a line item charge, Buyer is obligated to advise HLC Customer Service in writing of the nature of the claimed discrepancy within five (5) days of receipt of the invoice. This includes all requests for proof of delivery. A claim of discrepancy does not relieve Buyer of the absolute obligation to pay the remaining balance of the invoice in accordance with the standard terms of payment. HLC, after review, will have sole discretion to resolve the discrepancy; and the Buyer expressly agrees to abide by HLC's decision. HLC will promptly advise Buyer of its decision regarding any disputed items or charges.

OSHA

HLC warrants that at time of shipment, the equipment will conform to the applicable occupational safety and health standards promulgated pursuant to the Federal Occupational Safety and Health Act of 1970, which are in effect on the date that HLC enters its acknowledgment of Buyer's order. The Buyer's exclusive remedy and HLC's liability for breach of this warranty is limited to replacement of the nonconforming equipment.

FAIR LABOR STANDARDS ACT AS AMENDED

HLC represents that any goods to be delivered hereunder will be produced in compliance with the requirements of the Fair Labor Standards Act of 1938, as amended.

NOTE

These Terms and Conditions supersede all those published and issued previously by Hubbell Lenoir City, Inc., Quazite, CDR Systems, CDR, Polycast, Electrimold, Custom Composites, Western Power Products, Comcore, Hotbox, Windbreaker and Jandec.

