

Q-VAULT-5

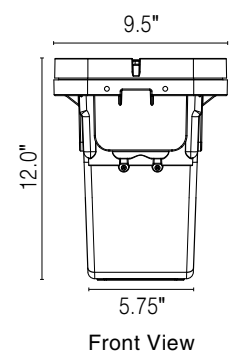
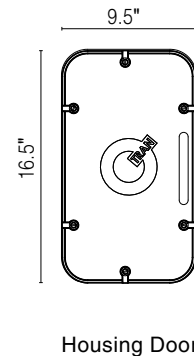
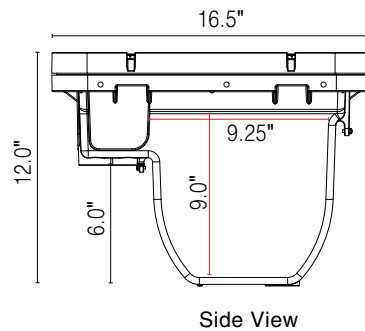
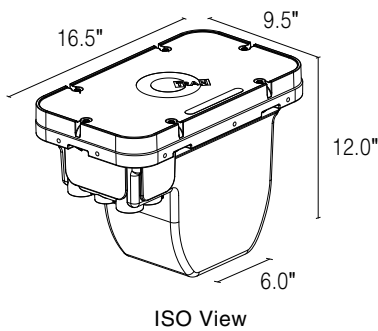
Accessories - Power Supplies



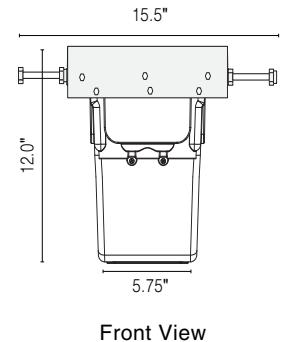
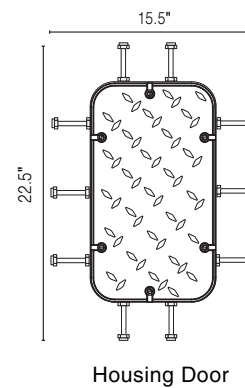
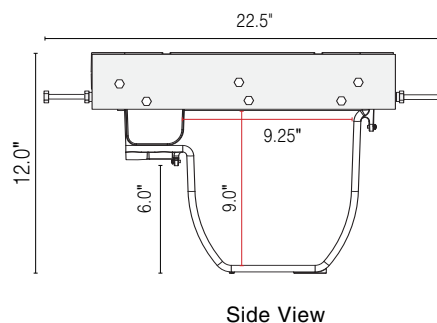
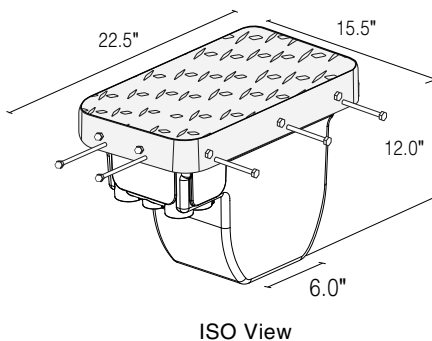
The industry's only IP68 wet-listed direct burial transformer/power supply center and winner of the 2008 Lightfair Innovation Award for excellence in product design. Having the opportunity to directly bury your low-voltage transformer/power supply center and hide it in the dirt or even concrete, the designer has the liberty to design a landscape without constraint. The Q-VAULT-5 is made to house up to two 12V/24V Q-SET magnetic or electronic power supplies with up to 900W AC or 600W DC, or the Q-MOD 300W LV Splice Kit. The Q-VAULT-5 is completely watertight and comes with complete installation instructions and an easy-to-use sealing kit to ensure a proper installation. The Q-VAULT-5 is the most reliable direct burial power supply enclosure on the market and is pool & spa rated with the Q-SET 1, 2, and 3.

Dimensions

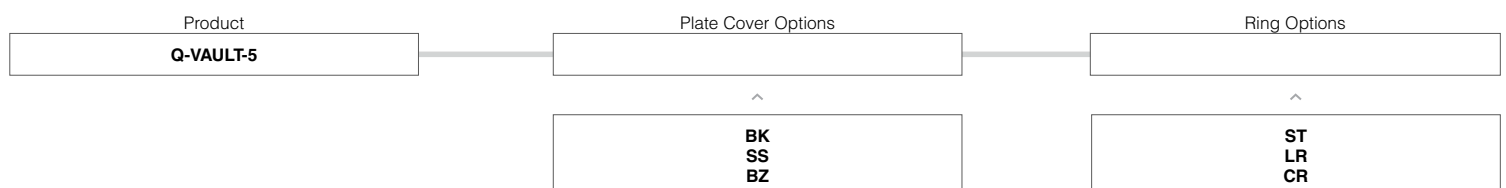
STANDARD



LAWN GUARD RING / CONCRETE POUR RING



Part Number Builder



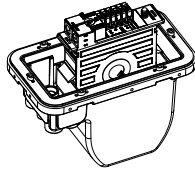
Q-VAULT-5

Accessories - Power Supplies

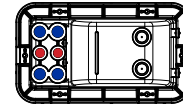


Features

Fits	1	Up to 2
Q-SET-1		•
Q-SET-2	•	
Q-SET-3	•	
Q-SET-eLED		•
Q-SET-mLED		•



Knock Outs (in)	NPT KO's
1/2"	2
3/4"	4



Bottom View

Plate Cover Options

BK	SS	BZ	ST	LR	CR
					
Black (Standard)	Stainless Steel	Bronze	Standard	Lawn Guard Ring	Concrete Pour Ring

Accessories

Mounting

Product	Sold In	Qty.
Perforated Drain Pipe	1	
Stabilizing Bars	2	



Perforated Drain Pipe

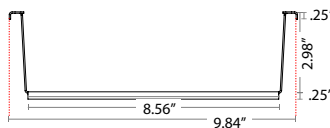


Stabilizing Bars

Tray Options

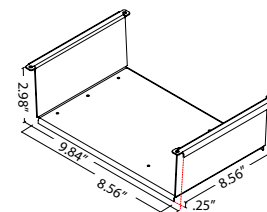
Product	Sold In	Qty.
Black (Standard)	1	

NOTE: Not UL Listed



Black (Standard)

Front View



Black (Standard)

ISO View

Kits

Product	Qty.
Q-VAULT installation Kit	

Q-VAULT installation kit



- 1x Epoxy pack
- 1x Epoxy application syringe
- 1x Wad of watertight putty
- 1x Desiccant pouch
- 1x Silver marker
- 1x Installation instructions
- 1x Drilling guide label
- 1x Hex tool
- 4x Wire ties

INSTALLATION

Accessories - Q-VAULT-5



- 3426-94** Luminaires - Landscape Lighting Systems - Certified to UL - 1838 Standard.
3425-95 Luminaires - Low Voltage Lighting Systems - Certified to UL - 2108 Standard.
3425-96 Luminaires - Component Hydromassage - Certified to UL - Pool & Spa Standard.



- 3426-04** Luminaires - Landscape Lighting Systems - Component (including Hydromassage).
3425-15 Luminaires - Low Voltage Lighting Systems.



FOR SUPPLY CONNECTIONS USE WIRE RATED FOR AT LEAST 90 C

SUITABLE FOR INGROUND INSTALLATION

USE DIMMERS RATED FOR MAGNETIC LOW VOLTAGE LOAD

NOT FOR INSTALLATION TO CONDUIT EXTENDING DIRECTLY TO AN UNDERWATER POOL LIGHT FORMING SHELL.

SUITABLE FOR USE WITH SUBMERSIBLE LUMINARIES

SUITABLE FOR INDOOR & OUTDOOR USE

WARNING: RISK OF FIRE - IF INSTALLATION INVOLVES RUNNING WIRING THROUGH A BUILDING STRUCTURE, SPECIAL WIRING METHODS ARE NEEDED.

CONSULT A QUALIFIED ELECTRICIAN.

FOR MORE LISTING INFORMATION & INSTALLATION INSTRUCTIONS

Q-SET™ LOW VOLTAGE LUMINAIRE POWER SUPPLY

MODEL NUMBER	OUTPUT CLASS	MAX LAMP LOAD	PRIMARY VOLTS	LAMP VOLTS	DIMMER RATING	SEC. BREAKERS	
						12V	24V
QSET-180	CLASS 1	180W	120V/277 (60Hz)	12V/24V	MLV	1X15	1X7.5
QSET-240	CLASS 1	240W	120V/277 (60Hz)	12V/24V	MLV	1X20	1X10
QSET-300	CLASS 1	300W	120V/277 (60Hz)	12V/24V	MLV	1X25	1X12.5
QSET-360	CLASS 1	360W	120V/277 (60Hz)	12V/24V	MLV	2X15	2X7.5
QSET-480	CLASS 1	480W	120V/277 (60Hz)	12V/24V	MLV	2X20	2X10
QSET-600	CLASS 1	600W	120V/277 (60Hz)	12V/24V	MLV	2X25	2X12.5
QSET-540	CLASS 1	540W	120V/277 (60Hz)	12V/24V	MLV	3X15	3X7.5
QSET-720	CLASS 1	720W	120V/277 (60Hz)	12V/24V	MLV	3X20	3X10
QSET-900	CLASS 1	900W	120V/277 (60Hz)	12V/24V	MLV	3X25	3X12.5
QSET-ELED-60	CLASS 2	1X60=60W	120-277 (50/60Hz)	12V	NO	12V	-
QSET-ELED-120	CLASS 2	2X60=120W	120-277 (50/60Hz)	12V	NO	12V	-
QSET-ELED-60/0-10	CLASS 2	1X60=60W	120-277 (50/60Hz)	12V	0-10	12V	-
QSET-ELED-120/0-10	CLASS 2	2X60=120W	120-277 (50/60Hz)	12V	0-10	12V	-
QSET-ELED-100	CLASS 2	1X100=100W	120-277 (50/60Hz)	24V	NO	-	24V
QSET-ELED-200	CLASS 2	2X100=200W	120-277 (50/60Hz)	24V	NO	-	24V
QSET-ELED-100/0-10	CLASS 2	1X100=100W	120-277 (50/60Hz)	24V	0-10	-	24V
QSET-ELED-200/0-10	CLASS 2	2X100=200W	120-277 (50/60Hz)	24V	0-10	-	24V
QSET-MLED-60	CLASS 1	60W	120 (60Hz)	12V	MLV	12V	-
QSET-MLED-120	CLASS 1	120W	120 (60Hz)	12V	MLV	12V	-
QSET-MLED-180	CLASS 1	180W	120 (60Hz)	12V	MLV	12V	-
QSET-MLED-100	CLASS 1	100W	120 (60Hz)	24V	MLV	-	24V
QSET-MLED-200	CLASS 1	200W	120 (60Hz)	24V	MLV	-	24V
QSET-MLED-300	CLASS 1	300W	120 (60Hz)	24V	MLV	-	24V















































INSTALLATION





Accessories - Q-VAULT-5



CSA LISTINGS



		QSET-180
		QSET-240
		QSET-300
		QSET-360
		QSET-480
		QSET-600
		QSET-540
		QSET-720
		QSET-900
		QSET-ELED-60
		QSET-ELED-120
		QSET-ELED-60/0-10
		QSET-ELED-120/0-10
		QSET-ELED-100
		QSET-ELED-200
		QSET-ELED-100/0-10
		QSET-ELED-200/0-10
		QSET-MLED-60
		QSET-MLED-120
		QSET-MLED-180
		QSET-MLED-100
		QSET-MLED-200
		QSET-MLED-300

OUTDOOR Under 15 Volts = LV Wire Buried 0" to 6"	
 LANDSCAPE	Outdoor Landscape Lighting - Under 15 Volts CSA Certified for both the U.S. and Canada to the UL-1838 Standard for Landscape Lighting with in-ground enclosure and component power supply operating at less than 15V. This listing allows for the LV Q-WIRE to be installed 0" to 6" underground.
 POOL & SPA	Pool & Spa - Under 15 Volts CSA Certified for the U.S. to the UL-Pool & Spa Power Supply Standard. This listing is intended for power supplies used to power fountain, swimming pool and spa luminaires operating at less than 15V.
OUTDOOR 15 to 30 Volts = LV Wire buried 18"	
 LANDSCAPE	Outdoor Landscape Lighting - 15 to 30 Volts CSA Certified for both the U.S. and Canada to UL-2108 Standard with a listing of "Low Voltage Luminaire Power Supply" for lamps operating at 12 or 24 volts where the secondary voltage is between 15 to 30 volts. Please note that the secondary wiring must be installed 18" below grade per the N.E.C.
INDOOR LV Lighting under 30 Volts	
 INDOOR	Indoor Open Conductor Systems - Under 30V CSA Certified for both the U.S. and Canada to UL-2108 Standard as a "Low Voltage Luminaire Power Supply" for lamps operating at 12V or 24V allows for live conductor lighting equipment mounted above 7 feet and other types of LV Lighting equipment, per N.E.C. Article 411.

Q-VAULT 120V (60Hz) - 12V

FOR CONDUIT CONNECTION

"WARNING - RISK OF SHOCK. Install power unit 5 feet (1.5 m) or more from the pool or spa and 10 feet (3.05 m) or more from a fountain. Where the power unit is installed within 10 feet (3.05 m) of a pool or spa, connect unit to GFCI protected branch circuit."

FOR POWER SUPPLY CORD CONNECTION

"WARNING - RISK OF SHOCK. Installed power unit 5 feet (1.5M) or more from the pool, spa, or fountain. Where the power unit is installed (a) indoors within 10 feet (3.05) of a pool, spa, or fountain or (B) outdoors, connect power unit to a receptacle protected by a GFCI".

"WARNING - RISK OF FIRE. If installation requires running wire through a building structure, special wiring methods are needed. Contact a qualified electrician.

"WARNING - Outdoor Cord-connected unit shall be connected to a GFCI protected hooded flush type cover plate receptacle marked "Wet Location".

"WARNING - Do not use extension cords

The main Secondary Wiring is intended for shallow burial - less than 6 inches (152 mm)

For Supply connections use wire rated for at least 60C.

SUITABLE FOR INDOOR / OUTDOOR USE

SUITABLE FOR USE WITH SUBMERSIBLE LUMINAIRES OR SUBMERSIBLE PUMPS

SUITABLE FOR USE WITH LOW VOLTAGE LANDSCAPE LUMINAIRES / FITTINGS

Q-VAULT 277V (60Hz) - 12V

"WARNING - RISK OF SHOCK. Install power unit 5 feet (1.5 m) or more from the pool or spa and 10 feet (3.05 m) or more from a fountain. Where the power unit is installed within 10 feet (3.05 m) of a pool or spa, connect unit to GFCI protected branch circuit."

"WARNING - RISK OF FIRE. If installation requires running wire through a building structure, special wiring methods are needed. Contact a qualified electrician.

The main Secondary Wiring is intended for shallow burial - less than 6 inches (152 mm)

For Supply connections use wire rated for at least 60C.

SUITABLE FOR INDOOR / OUTDOOR USE

SUITABLE FOR USE WITH SUBMERSIBLE LUMINAIRES OR SUBMERSIBLE PUMPS

SUITABLE FOR USE WITH LOW VOLTAGE LANDSCAPE LUMINAIRES / FITTINGS

Contact your local Distributor or Q-Tran for Q-Wire, Q-Click or proper Accessory Kit

INSTALLATION

Accessories - Q-VAULT-5



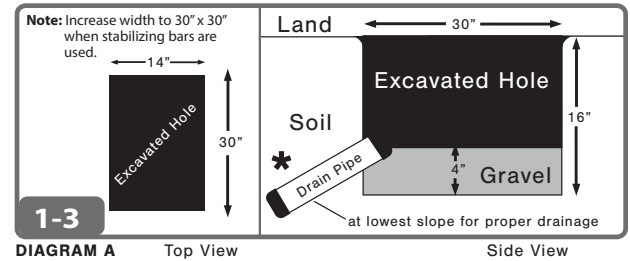
Rough In Wiring

STEP 1:
Excavate a 14" x 30" x 16" Deep hole for the Q-VAULT direct burial housing.

STEP 2:
Dig trenches for primary & secondary wiring to Q-VAULT housing location.

STEP 3:
Place drain pipe at a 30 degree angle at the lowest slope of land for proper drainage. Fill bottom of pit with 4" of gravel.

SEE DIAGRAM A
Drain pipe is additional. Call factory for pricing.



STEP 4:
Bring all primary and secondary wiring into housing.

A: Entry location is provided at both the bottom and side of the Junction Box located on the Q-VAULT housing.

B: On the bottom of Junction Box there are: (4) 3/4" NPT and (2) 1/2" NPT KO's. SEE DIAGRAM B

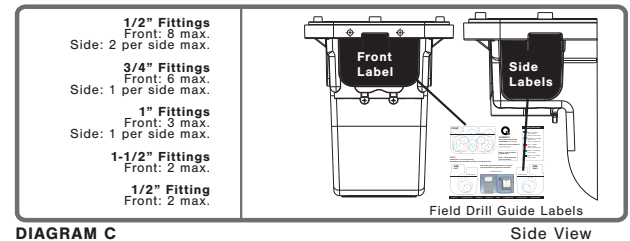
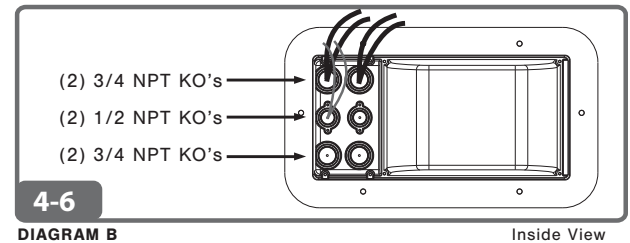
C: Using the Field Drill Guide Labels provided in the installation kit you are able to drill for various fitting sizes. SEE DIAGRAM C

Note: For complete water tight guarantee, use Q-Tran's Q-Click fittings and Q-Wire stranded wire. Warranty is void if these components are not used. Primary leads should be 12" min. Secondary leads should be 24" min.

STEP 5:
After all field wiring has been installed with proper lead lengths, tighten all fittings properly to assure they are water proof.

Note: Label all wiring for future reference.

STEP 6:
Coil and store field wiring in Junction Box area.

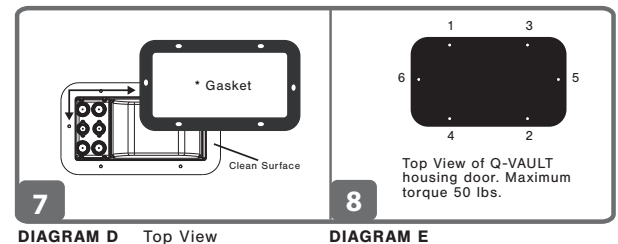


STEP 7:
Clean top perimeter of housing prior to installing gasket. SEE DIAGRAM D

Note Step 7: *Gasket only fits one way. Gasket easily slides over vault posts. If you are having to force the gasket, it is backwards. (Gasket must sit on top of vault. No portion should be overhanging.)

STEP 8:
Install door and tighten the 6 door bolts in the number sequence shown. SEE DIAGRAM E

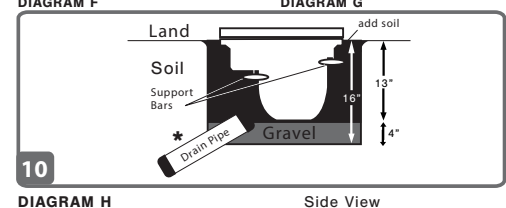
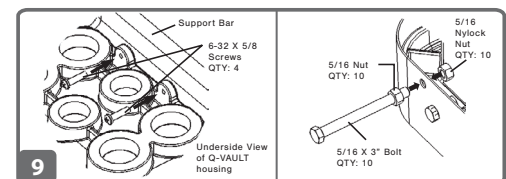
Note: A screw driver or nut driver can be used to get bolts seated before final tightening. Proper door bolt tightening must be done with a ratchet wrench using a 3/8 inch socket at a maximum torque of 50 lbs.



STEP 9:
Attach the provided Support Bars to the Q-VAULT housing using the 6-32 X 5/8 screws. SEE DIAGRAM F

*OPTIONAL: Concrete Pour Ring Nut & Bolt Installation. SEE DIAGRAM G

STEP 10:
Level housing and fill hole with gravel to 4" of below grade. Add soil to surface. Drain pipe is additional. Call factory for pricing.



INSTALLATION

Accessories - Q-VAULT-5



Installing Q-SET

Step 11:
Remove cover if installed, be sure to store cover and cover gasket in a clean and dry location.

Step 12:
Move field wiring out of the way.

Step 13:
Place Q-SET low voltage luminaire power supply cassette into the Q-VAULT housing using the support flaps. The cassette's primary junction box should be placed next to field wiring junction box located on the housing. SEE DIAGRAM I

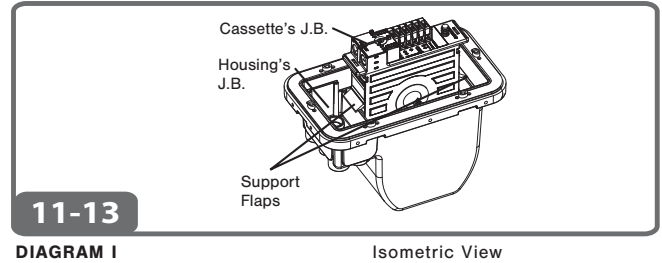


DIAGRAM I

Isometric View

Primary Connections

Step 14:
Landscape Lighting: Bring primary field wiring directly into the Cassette's primary junction box through open hole.

Pool & Spa: Bring primary field wiring through the P&S sleeving. Do not screw base fitting to field junction box until re-enterable potting is complete. SEE DIAGRAM J. - Call Q-Tran (203-367-8777) if P&S sleeving is needed.

Primary Connections:

- Ground to Green terminal
- Neutral to White terminal
- Hot to either: Tap1 - No Dimmer / Tap2 - With Dimmer

A: For proper connection to terminal block, use the Strip Length Guide on the primary junction box cover of the Cassette. Determine the strip length approximately 1".

B: Using supplied hex key unscrew wire(s) and hand tighten the (2) 1/4-28 316ss set screws.

C: Fully insert the properly stripped wire(s) and hand tighten both set screws with provided hex key. Do Not use a ratchet wrench. Maximum torque = 30"lbs. SEE DIAGRAM K

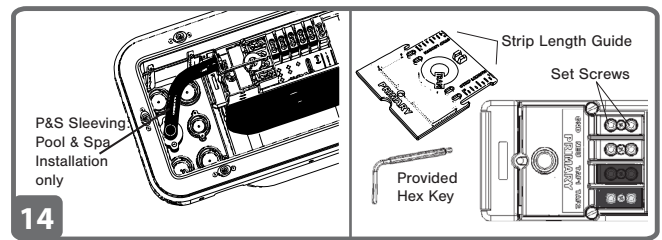


DIAGRAM J

Top View

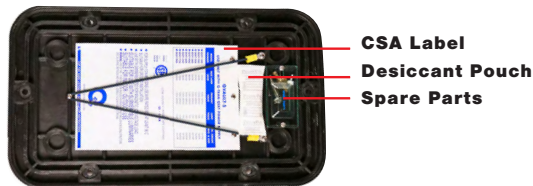
DIAGRAM K

Top View

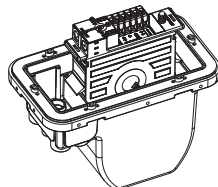
Terminal Capacity
Solid or Stranded
7 - #14 AWG Wires
5 - #12 AWG Wires
4 - #10 AWG Wires
2 - #8 AWG Wires

Note: See page 8 for re-enterable potting steps.

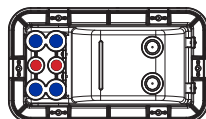
HOUSING DOOR: Underside View



Fits	1	Up to 2
Q-SET-1		•
Q-SET-2	•	
Q-SET-3	•	
Q-SET-eLED		•
Q-SET-mLED		•



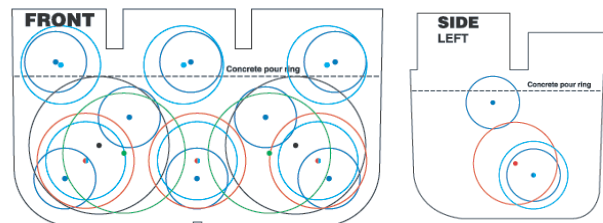
Knock Outs (in)	NPT KO's
1/2"	2
3/4"	4



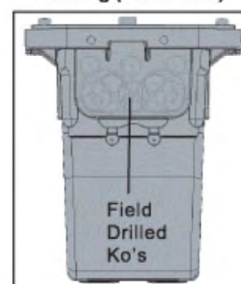
Bottom View

HOUSING: Outside View

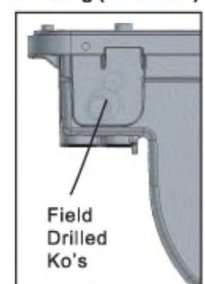
Hole Drill Guide Label: Refer to sticker instructions



Housing (Front View)



Housing (Side View)



INSTALLATION

Accessories - Q-VAULT-5



Installing Q-SET 1, 2, 3

STEP 15:

Determine proper lengths and trim to correct length.

STEP 16:

L.V. Common: Is connected to a yellow terminal block which is internally wired to a secondary breaker.

Step 17:

L.V. Line: Is connected to 1 of the 5 taps.

Note: Unless the proper tap is known, always connect to the terminal marked START. For multiple secondary runs repeat steps.

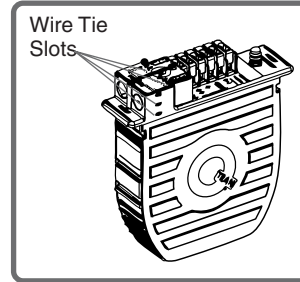


DIAGRAM L

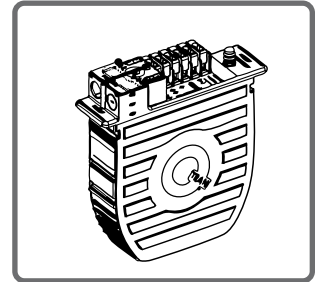
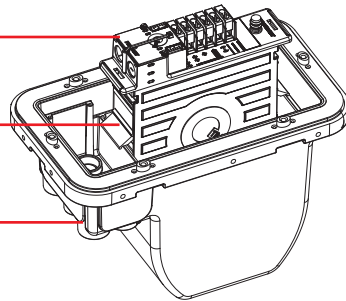


DIAGRAM M

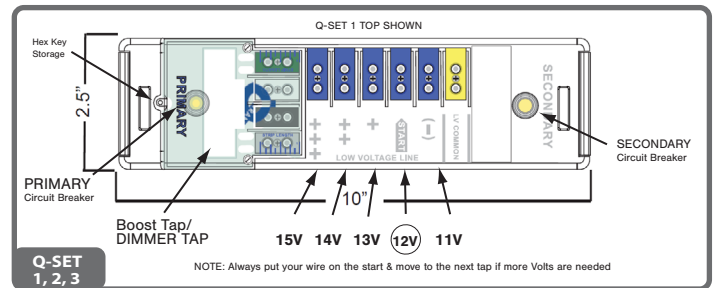
Q-SET 1 (2.5" Cassette)

Support flaps for easy access while wiring.

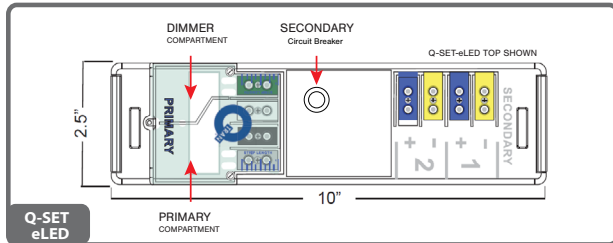
QVAULT-5(5.0" Housing)



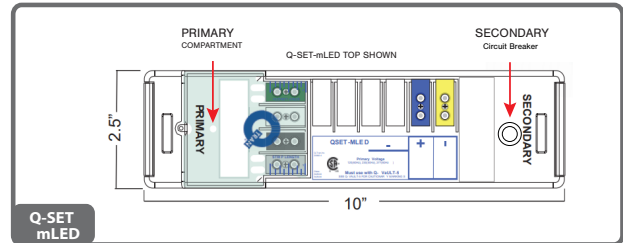
Q-SET Sold separately



Installing Q-SET-eLED



Installing Q-SET-mLED



Step 18:

Upon completion of all field wiring lift cassette up slightly to allow support flaps to drop and lower cassette into the housing.

Step 19:

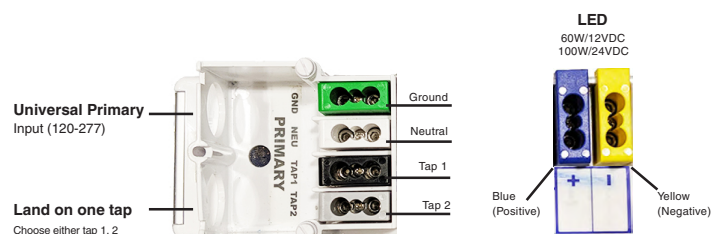
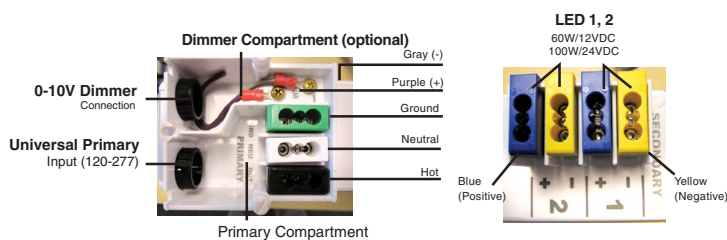
Using wire ties provided secure field wiring to cassette using the slots provided on the primary junction box cover and junction box sides. SEE DIAGRAM L

Step 20:

Secure primary junction box cover and store hex key. SEE DIAGRAM M

Step 21: (Potting Field Connections)

First properly locate all field wiring inside the junction box where it will be permanently positioned.



INSTALLATION

Accessories - Q-VAULT-5



Q-VAULT & Q-SET INSTALLATION

1. Use putty provided to seal wires in potting well. It is important that the well is liquid tight so that when the re-enterable epoxy is poured, it does not escape out the bottom. Be sure the putty is put into the very bottom of the well to allow ample room for the epoxy.
SEE DIAGRAM O
2. A: The 3M-8882 re-enterable epoxy takes several hours to set. When set it will form a into a water tight "jello" consistency.
B: Mix the two part epoxy together per 3M instructions located on the epoxy packaging.
C: Push all the mixed epoxy together to one end of the bag. Cut the bag in half.
A: Using the syringe pull the mixed epoxy into the syringe by pulling the plunger out slowly.
B: Slowly dispense the mixed epoxy from the syringe into the utilized potting wells. SEE DIAGRAM P

Note: Potting is now complete

Step 26: (Final Door Installation)

- Clean housing area where door gasket will rest
- Install a clean door gasket.

Step 27: Just before door is installed put velcro desiccant bag in place. Attach the two velcro loop coins on the desiccant bag to the two velcro hook coins on the underside of the housing door. SEE DIAGRAM Q

Note: Install door and tighten the 6 door bolts at a maximum torque of 50"lbs. Door bolt tightening must be done with a ratchet wrench using a 3/8" socket.

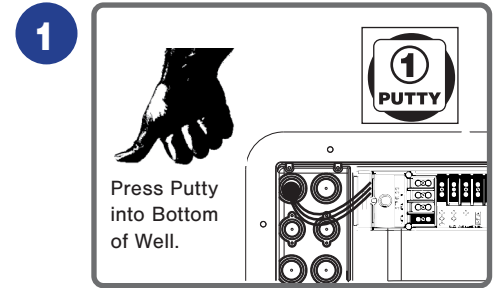


DIAGRAM O

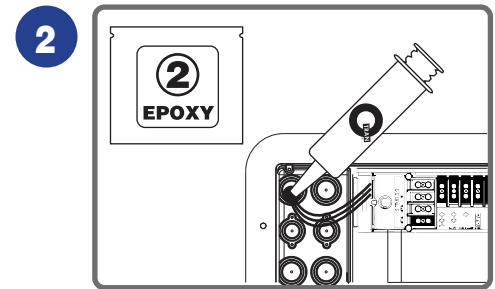


DIAGRAM P

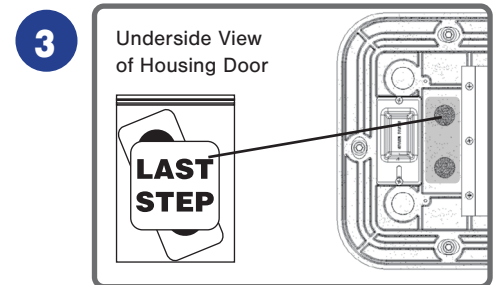


DIAGRAM Q

INSTALLATION

Accessories - Q-VAULT-5



NEC Code & UL Standards for Lighting Systems Operating at 30 Volts or Less



Read Across & Down										
SECONDARY WIRE & BURIAL DEPTH				MAX VOLTS	UL NEC	LUMINAIRE LISTING	POWER SUPPLY TRANSFORMER			
Wet	Grade	Wire Type & Burial Depth	6 inches +	15V AC	UL 1838	Low Voltage Landscape Lighting Luminaires	UL 1838	UL 1838	UL 1838	
				30V DC	NEC Annex A					
				15V AC ONLY	UL Pool & Spa NEC 680	Low Voltage Pool & Spa Luminaires				
				30V AC	UL 2108	Low Voltage Lighting Luminaires				
Submersed	6"	Conduit	6 inches +	30V DC	NEC Annex A		UL 1598	UL 1598	UL 1598	
				30V AC	UL 2108	Low Voltage Lighting Luminaires				
				30V DC	NEC Annex A					
				30V AC	UL 1598	Luminaires				
Dry or Damp	Below Grade	Conduit	6 inches +	Max Secondary Volts at Power Supply with no load (Open Circuit)		Article 411.3 (B-2) Listed NEC - 2008	UL 506	UL 506	UL 506	
				Grounded Isolation for LV Wet Location						
				Secondary Circuit Protector 25A Max						
				Open / Bare Conductor (When Tested)						
Obsolete for LV Remote - Dry, Damp & Wet		Conduit	6 inches +	NEC = NATIONAL ELECTRIC CODE NFPA-70			UL 506	UL 506	UL 506	
				UL = UNDERWRITERS LABORATORIES INC.						
				NEC = NATIONAL ELECTRIC CODE NFPA-70						
				UL = UNDERWRITERS LABORATORIES INC.						
UL 1838 - LV Landscape Lighting System: 15V AC / 30V DC Max Output at Power Supply - No Load				UL 1838 - LV Landscape Lighting System: 15V AC / 30V DC Max Output at Power Supply - No Load						
Luminaires + Power Supplies must be UL 1838 Listed as complimentary components for lighting garden, walkway, patio areas, trees and similar outdoor locations with in ground and above ground fixtures; and for certain indoor locations such as atriums and shopping malls. This listing also covers luminaires submersed in or floating on ponds, rivers, water features and lakes or a portable self contained fountains per NEC Article 682 where immersed persons would not be present as defined by luminaire installation instructions.				Luminaires + Power Supplies must be UL 1838 Listed as complimentary components for lighting garden, walkway, patio areas, trees and similar outdoor locations with in ground and above ground fixtures; and for certain indoor locations such as atriums and shopping malls. This listing also covers luminaires submersed in or floating on ponds, rivers, water features and lakes or a portable self contained fountains per NEC Article 682 where immersed persons would not be present as defined by luminaire installation instructions.						
UL 1838 allows LV Underground Lighting Cable - no other listing permits this wire type. 120V Primary only. Not for indoor use.				UL 1838 allows LV Underground Lighting Cable - no other listing permits this wire type. 120V Primary only. Not for indoor use.						
Note: NEC Annex A = UL 1838 120V Only Low Voltage Luminaire Primarily for Wet Locations				Note: NEC Annex A = UL 1838 120V Only Low Voltage Luminaire Primarily for Wet Locations						
UL Pool & Spa Listing: 15V AC only Max Output at Power Supply - No Load				UL Pool & Spa Listing: 15V AC only Max Output at Power Supply - No Load						
Luminaires + Power Supplies must be UL Pool & Spa Listed as complimentary components for lighting a Pool, Spa, permanent fountain or other bodies of water intended to contain immersed persons. All wiring must be Class 1 per NEC Chapter 3. 120V Primary only.				Luminaires + Power Supplies must be UL Pool & Spa Listed as complimentary components for lighting a Pool, Spa, permanent fountain or other bodies of water intended to contain immersed persons. All wiring must be Class 1 per NEC Chapter 3. 120V Primary only.						
Install per NEC Article 680 120V Only Low Voltage Luminaire for Submersed Locations with immersed persons				Install per NEC Article 680 120V Only Low Voltage Luminaire for Submersed Locations with immersed persons						
UL 2108 - LV Lighting System: 30V AC / 30V DC Max Output at Power Supply - No load				UL 2108 - LV Lighting System: 30V AC / 30V DC Max Output at Power Supply - No load						
Luminaires + Power Supplies must be UL 2108 Listed as complimentary components. This Standard covers:				Luminaires + Power Supplies must be UL 2108 Listed as complimentary components. This Standard covers:						
411.3 (A) Listed Systems for exposed bare conductor systems comprised of cable, linear track or the like where the support structure is exposed and current carrying; here the Power Supply must be listed as part of the same identified lighting systems.				411.3 (A) Listed Systems for exposed bare conductor systems comprised of cable, linear track or the like where the support structure is exposed and current carrying; here the Power Supply must be listed as part of the same identified lighting systems.						
Note: Use Power Supply as defined in Luminaire installation instructions.				Note: Use Power Supply as defined in Luminaire installation instructions.						
411.3 (B) Assembly of Listed Parts covers mono, dual or multi point LV Luminaires which are an assembly of listed parts if a UL 2108 Low Voltage Luminaire Power Supply is utilized. For wet Location luminaires UL 2108 covers luminaires with up to 30 volt input provided they are Class 1 wired per NEC Chapter 3. For wet Location luminaires with inputs not exceeding 15 volts, UL 1838 applies.				411.3 (B) Assembly of Listed Parts covers mono, dual or multi point LV Luminaires which are an assembly of listed parts if a UL 2108 Low Voltage Luminaire Power Supply is utilized. For wet Location luminaires UL 2108 covers luminaires with up to 30 volt input provided they are Class 1 wired per NEC Chapter 3. For wet Location luminaires with inputs not exceeding 15 volts, UL 1838 applies.						
Note: NEC Article 411 + Annex A = UL 2108. Low Voltage Luminaire Primarily for Dry and Damp Locations				Note: NEC Article 411 + Annex A = UL 2108. Low Voltage Luminaire Primarily for Dry and Damp Locations						
UL 1598 - Luminaires: 30V AC / 30V DC Max Output at Power Supply - No load				UL 1598 - Luminaires: 30V AC / 30V DC Max Output at Power Supply - No load						
This UL Standard applies to line voltage luminaires for use in non-hazardous locations and allows up to 600 volts input and all wiring must be Class 1 per NEC Chapter 3. Low Voltage luminaires powered by remote transformer are NOT covered by this standard.				This UL Standard applies to line voltage luminaires for use in non-hazardous locations and allows up to 600 volts input and all wiring must be Class 1 per NEC Chapter 3. Low Voltage luminaires powered by remote transformer are NOT covered by this standard.						
This Listing does not cover:				This Listing does not cover:						
• LV Landscape Lighting products and Submersible Luminaires installed in the United States at 15V or less.				• LV Landscape Lighting products and Submersible Luminaires installed in the United States at 15V or less.						
(UL 1838 is the Standard per NEC-Annex A)				(UL 1838 is the Standard per NEC-Annex A)						
• Swimming Pool & Spa Luminaires (UL Pool & Spa is the Standard per NEC Article 680)				• Swimming Pool & Spa Luminaires (UL Pool & Spa is the Standard per NEC Article 680)						
• Low Voltage Lighting Systems powered by remote transformers (UL 2108 is the Standard per NEC 411 + Annex A)				• Low Voltage Lighting Systems powered by remote transformers (UL 2108 is the Standard per NEC 411 + Annex A)						
Note: NEC Article 410 Intended for Line Voltage Luminaires for Dry, Damp and Wet Locations				Note: NEC Article 410 Intended for Line Voltage Luminaires for Dry, Damp and Wet Locations						
UL 506-General Purpose or Specialty Transformers: 600V Max				UL 506-General Purpose or Specialty Transformers: 600V Max						
This UL Standard is a transformer standard only and is not a complimentary component to any luminaire standard. UL 1838, Pool & Spa and 2108 does not permit the use of UL 506 transformers unless the transformer is additionally tested and subsequently listed to UL 1838, Pool & Spa or 2108. A UL-506 transformer may be tested as an internal components to a UL-1598 luminaire, to be an integral transformer.				This UL Standard is a transformer standard only and is not a complimentary component to any luminaire standard. UL 1838, Pool & Spa and 2108 does not permit the use of UL 506 transformers unless the transformer is additionally tested and subsequently listed to UL 1838, Pool & Spa or 2108. A UL-506 transformer may be tested as an internal components to a UL-1598 luminaire, to be an integral transformer.						
The Scope of UL-506 (Section 1.2) specifically excludes use in Landscape Lighting Systems and for use in Pool & Spa Lighting Systems. Additionally, a Cord and Plug connection is not permitted. In no instance can a UL-506 transformer be used in Landscape or Pool & Spa Lighting. A UL 1838, UL Pool Spa and UL 2108 Power Supply may power a UL-1598 luminaire that was listed prior to the UL-2108 effective date since these Luminaires are required to be Class 1 wired per NEC Chapter 3.				The Scope of UL-506 (Section 1.2) specifically excludes use in Landscape Lighting Systems and for use in Pool & Spa Lighting Systems. Additionally, a Cord and Plug connection is not permitted. In no instance can a UL-506 transformer be used in Landscape or Pool & Spa Lighting. A UL 1838, UL Pool Spa and UL 2108 Power Supply may power a UL-1598 luminaire that was listed prior to the UL-2108 effective date since these Luminaires are required to be Class 1 wired per NEC Chapter 3.						
General Purpose Transformer				General Purpose Transformer						
Key				Key						
Complimentary Component				Complimentary Component						
Power Supply				Power Supply						
Transformer				Transformer						
Yes				Yes						
Optional				Optional						
No				No						
Exceeds Standard				Exceeds Standard						
Q-SET = 3 UL Listings				Q-SET = 3 UL Listings						
UL 1838				UL 1838						
UL Pool & Spa				UL Pool & Spa						
UL 2108				UL 2108						
Q-HEX = 2 UL Listings				Q-HEX = 2 UL Listings						
UL 1838				UL 1838						
UL 2108				UL 2108						
QOM = 1 UL Listing				QOM = 1 UL Listing						
UL 1838				UL 1838						
Date: 4-16-09-F				Date: 4-16-09-F						
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