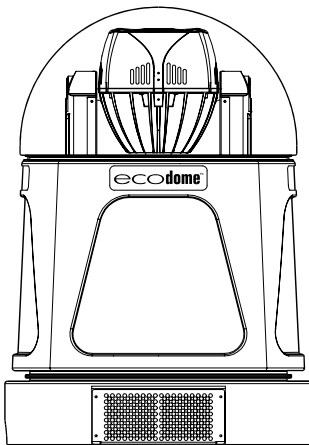
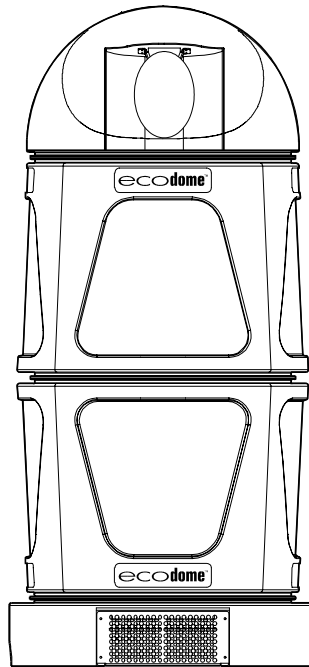


ecodome™



for
STUDIO COLOR® 575-M and 575-S



for
CYBERLIGHT® CL Series
CYBERLIGHT® CX Series

User Manual

High End



SYSTEMS®

High End Systems, Inc.
2217 West Braker Lane
Austin, TX 78758 U.S.A.



LIGHTWAVE
RESEARCH®

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ecodome™

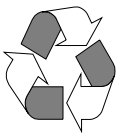
User Manual

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Ecodome User Manual
P/N 60600094 Version 1.1 October 1997

Printed in the U.S.A.



International Sales

U.S. and the Americas

High End Systems, Inc.
2217 West Braker Lane
Austin, TX 78758
USA
voice: (512) 836-2242
FAX: (512) 837-5290

World Wide Web

<http://www.highend.com>

Europe

High End Systems GmbH
Lohstrasse 22
D-85445 Schwaig
Germany
voice: +49 8122 9903-0
FAX: +49 8122 9903-33

Singapore

High End Systems Singapore Pte. Ltd.
1 Tannery Road 06-05
Cencon 1
Singapore 1334
voice: +65 742 8266
FAX: +65 743 9322

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Declaration of Conformity

according to ISO/IEC Guide 22 and EN45104

Manufacturer's name: Lightwave Research
Manufacturer's address: 2217 West Braker Lane
Austin, Texas 78758 U.S.A.
Distributor's name: High End Systems Inc.
Distributor's address: 2217 West Braker Lane
Austin, Texas 78758 U.S.A.

Declares that the product

Product Name: Ecodome
Product Number: Studio Color 115 Studio Color 230
Cyberlight 208—230
Product Options: All

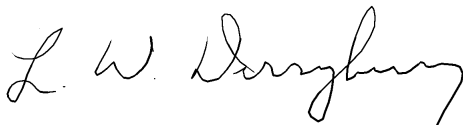
conforms to the following EEC directives:

73/23/EEC, as amended by 93/68/EEC
89/336/EEC, as amended by 92/31/EEC and 93/68/EEC

Equipment referred to in this declaration of conformity first manufactured in 1997 in compliance with the following standards:

Safety: EN 60598-1

EMC: EN 55022, Class A ITE
IEC 801-2, Level 2 (4/8kV)
IEC 801-3, Level 2 (3 V/m)
IEC 801-4, Level 2 (1kV/.5kV)



U.S.A., November 16, 2005
Lanny Derryberry, Compliance Engineer

Patents

Ecodome may use one or more of the following patents: US 4,962,687; US 5,078,039; UK 2,043,769; US 5,331,822; US 5,402,326; US D 372550; UK 2292896; US D365165; US 5,430,629; US D360,404; US 5,455,748; 0475082; US 5,506,762; M9604224.9; US 5,515,254; US D370080; UK 2.291,814; US 5,545.951; UK 2055842; UK 2,292,530; UK 2294909; UK 2292896; MR 8621996; and US 5,580,164.

Additional patents pending.

Important Safety Information

Instructions pertaining to continued protection against fire, electric shock, exposure to excessive ultraviolet (UV) radiation, and injury to persons are found in Appendix A and in the “Studio Color User Manual”, p/n 60600061 and in the “Cyberlight User Manual”, p/n 60600016 v2.0 or later.

Please read all instructions prior to assembly, mounting, and operating this equipment.

IMPORTANT: INFORMATIONS DE SÉCURITÉ

Les instructions se rapportant à la protection permanente contre les incendies, l'électrocution, l'exposition à un rayonnement ultraviolet (UV) excessif et aux blessures corporelles se trouvent dans l'Annexe A de ce manuel, ainsi que dans le “Studio Color User Manual”, numéro de référence 60600061, et dans le “Cyberlight User Manual”, numéro de référence 60600016 v2.0 ou une version ultérieure.

Veillez lire toutes les instructions avant d'assembler, de monter ou d'utiliser cet équipement.

WICHTIGE SICHERHEITSHINWEISE

Sicherheitsanleitungen zum Schutz gegen Feuer, elektrischen Schlag, übermäßige UV-Strahlung und Verletzung von Personen finden Sie in Anhang A in diesem Handbuch, im Benutzerhandbuch zu Studio Color (Teile-Nr.: 60600061) und im Benutzerhandbuch zu Cyberlight (Teile-Nr.: 60600016 Version 2.0 oder später).

Vor der Montage, dem Zusammenbau und der Inbetriebnahme dieses Geräts alle Anleitungen sorgfältig durchlesen.

INFORMAZIONI IMPORTANTI DI SICUREZZA

Le istruzioni sulla protezione da incendi, folgorazione, esposizione eccessiva a raggi ultravioletti (UV) e infortuni sono contenute nell'appendice A del presente manuale, come pure nel "Manuale dell'utente di Studio Color", n. parte 60600061, e nel "Manuale dell'utente di Cyberlight", n. parte 60600016, versione 2.0 o successiva.

Si prega di leggere tutte le istruzioni prima di assemblare, montare e azionare l'apparecchiatura.

INFORMACION IMPORTANTE DE SEGURIDAD

En el Apéndice A de este manual se encuentran instrucciones sobre protección continua contra incendios, descarga eléctrica, exposición excesiva a radiación ultravioleta (UV) y lesiones personales, así como en el "Manual del usuario de Studio Color", p/n 60600061 y en el "Manual del usuario de Cyberlight", p/n 60600016 v2.0 ó posteriores.

Lea, por favor, todas las instrucciones antes del ensamblaje, montaje y operación de este equipo.

Product Modification Warning

High End Systems products are designed and manufactured to meet the requirements of United States and International safety regulations. Modifications to the product could affect safety and render the product non-compliant to relevant safety standards.

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Design und Herstellung von High End Systemen entsprechen den Anforderungen der U.S.A. und den internationalen Sicherheitsvorschriften. Abänderungen dieses Produktes können dessen Sicherheit beeinträchtigen und u. U. gegen die diesbezüglichen Sicherheitsnormen verstoßen.

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I prodotti di High End Systems sono stati progettati e fabbricati per soddisfare i requisiti delle normative di sicurezza statunitensi ed internazionali. Qualsiasi modifica al prodotto potrebbe pregiudicare la sicurezza e rendere il prodotto non conforme agli standard di sicurezza pertinenti.

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Warranty Information

Limited Warranty

Unless otherwise stated, your product is covered by a two year parts and labor limited warranty. Dichroic filters and LithoPatterns[®] high resolution glass gobos are not guaranteed against breakage or scratches to coating. It is the owner's responsibility to furnish receipts or invoices for verification of purchase, date, and dealer or distributor. If purchase date cannot be provided, date of manufacture will be used to determine warranty period.

Returning an Item Under Warranty for Repair

It is necessary to obtain a Return Material Authorization number (RMA#) from your dealer or point of purchase **BEFORE** any units are returned for repair. The manufacturer will make the final determination as to whether or not the unit is covered by warranty. Lamps are covered by the lamp manufacturer's warranty.

Any Product unit or parts returned to High End Systems must be packaged in a suitable manner to ensure the protection of such Product unit or parts, and such package shall be clearly and prominently marked to indicate that the package contains returned Product units or parts and with a Return Material Authorization (RMA#) number. Accompany all returned Product units or parts with a written explanation of the alleged problem or malfunction.

Please Note: Freight Damage Claims are invalid for fixtures shipped in non-factory boxes and packing materials.

Freight

All shipping will be paid by the purchaser. Items under warranty shall have return shipping paid by the manufacturer only in the Continental United States. **Under no circumstances will freight collect shipments be accepted.** Prepaid shipping does not include rush expediting such as air freight. Air freight can be sent customer collect in the Continental United States.

REPAIR OR REPLACEMENT AS PROVIDED FOR UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. HIGH END SYSTEMS, INC. MAKES NO WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO ANY PRODUCT, AND HIGH END SPECIFICALLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. HIGH END SHALL NOT BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGE, INCLUDING LOST PROFITS, SUSTAINED OR INCURRED IN CONNECTION WITH ANY PRODUCT OR CAUSED BY PRODUCT DEFECTS OR THE PARTIAL OR TOTAL FAILURE OF ANY PRODUCT REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY OR OTHERWISE, AND WHETHER OR NOT SUCH DAMAGE WERE FORESEEN OF UNFORESEEN.

Warranty is void if the product is misused, damaged, modified in any way, or for unauthorized repairs or parts. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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Introduction

Congratulations on your purchase of the Ecodome™ architectural housing for the Studio Color® automated wash luminaire or the Cyberlight® automated luminaire. Ecodome is a weather-resistant, modular outdoor housing system that is both attractive and unobtrusive. Ecodome adapts to its environment, giving a clean look to whatever architectural setting it operates in.

Ecodome is formed from a rotationally-molded high-density polymer colored neutral gray. Other colors are available upon request on a custom-order basis; contact High End Systems Inc. International Sales in one of the ways shown on the inside title page of this manual for more information.

Overview

Ecodome is suited for both *projection luminaires* (fixtures that are capable of projecting a focused pattern) and *wash luminaires* (fixtures that do not project a focused pattern). The Cyberlight® automated luminaire is an example of a projection luminaire and the Studio Color® automated wash luminaire is an example of a wash luminaire. (Although Cyberlight can be used as a wash luminaire, it is considered primarily a projection luminaire.)

The Two Domes

The choice of which type of luminaire to use in Ecodome might also determine which dome you should use. Currently, there are two domes:

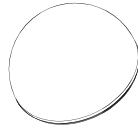
- A “litho” dome that is designed for distortion-free projected patterns. This dome ships standard with Cyberlight Ecodome.
- A round dome that is designed for use with wash luminaires. This dome ships standard with Studio Color Ecodome models and is an option for Cyberlight Ecodome.

You should not use the litho dome with a wash luminaire because at certain pan/tilt values, the litho dome will distort the shape of the beam as well as any effects.

These two domes are shown below:



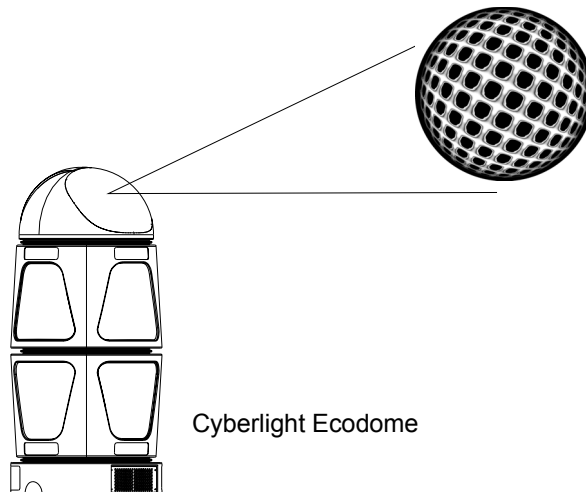
Litho dome (for projection luminaires)



Round dome (best for wash luminaires)

The litho dome has a flat surface for pattern projection. This flat surface is computer-optimized to provide the largest possible surface area (i.e., largest possible pan/tilt angles) and for distortion-free projection. However, the litho dome does limit the mirror's pan motion relative to the round dome.

The round dome allows whatever fixture is installed in Ecodome the greatest possible pan and tilt angles because this dome has a uniform round surface; however, projected patterns may be distorted.



Cyberlight Ecodome

Pan and Tilt Data

Table Intro-1 below shows the pan and tilt data that was available at the time this manual went to print (September 1997).

Table Intro-1. Pan/Tilt Data for Cyberlight and Studio Color Ecodome

Cyberlight			Studio Color		
	Pan	Tilt		Pan	Tilt
Normal (not in Ecodome)	170°	110°	Normal (not in Ecodome)	370°	240°
w/ Litho dome	110° (see Note)	80° total (65° above horizontal)	w/ Litho dome	DNA	DNA
w/ Round dome	170°	82°	w/ Round dome	370°	180°

DNA = Does not apply (you shouldn't use the litho dome with Studio Color)

Note You can always get the full 170° pan with the litho dome if you are projecting solid colors instead of patterns.

Getting Help

**U.S., the Americas
and Europe**

Service address:
2227 West Braker Lane
Austin, TX 78758 U.S.A.

From 8 a.m. to 6 p.m. (U.S. Central time) Monday
through Friday: (800) 890-8989

24-hour FAX: (512) 834-9195

24-hour voice mail: (512) 837-3063 or
(800) 890-8989

Singapore

Voice:+65 742 8266
FAX:+65 743 9322

**24-hour Customer
Service World
Wide Web site**

<http://info.highend.com/service/service.html>

**High End Systems
World Wide Web
site**

<http://www.highend.com>

Chapter 1

Preparing to Install

Ecodome™

Intended Audience

Ecodome must be installed by a qualified electrician *only*. This manual is intended for electricians and/or building contractors already familiar with electrical wiring and construction.

Required Tools and Materials

Before installing Ecodome, you need to obtain the following tools and materials:

- One ratchet and
 - one 1/2" deep socket
 - one 9/16" deep socket
 - one 6" extension
- One flat head screwdriver with 3/16" blade
- One pair of scissors or one safety blade
- One #2 Phillips screwdriver
- Four 1/2" studs for mounting Ecodome
- One tamper-resistant screwdriver tool (supplied with Ecodome). If you wish to obtain a bit for use in a power driver, see the section titled "Tamper-Resistant Screwdriver Tool" on page 1-5.
- If you are using a concrete foundation for Ecodome:
 - one masonry bit
 - one hammer drill
 - one hammer

For Studio Color Ecodome, you will also need the following:

- two additional people to load Studio Color into Ecodome
- the *Studio Color User Manual*, p/n 60600061

For Cyberlight Ecodome, you will also need the following:

- one 9/16” wrench
- one 5/16” allen wrench
- one 1/4” allen wrench
- two additional people to load Cyberlight into Ecodome
- the *Cyberlight User Manual*, p/n 60600016, v2.0 or later

Optional Accessories

Table 1-1 below shows the optional accessories for Ecodome available from your High End Systems® dealer/distributor:

Table 1-1. Ecodome Optional Accessories

Name	Part Number
Optional Ecodome colors	Call*
Replacement air filter	99170003
“Litho” dome (with flat surface for pattern projection)	28010010
Round dome	28010005
Studio Color Ecodome Keal road case	28070001
Studio Color fixture Keal road case (1 fixture)	26070000
Studio Color fixture Keal road case (2 fixtures)	26070001
Studio Color LCD controller	26020001
Cyberlight Ecodome Keal road case	28070002
Cyberlight fixture Keal road case (1 fixture)	19070001
Cyberlight fixture Keal road case (2 fixtures)	19070002

Table 1-1. Ecodome Optional Accessories

Name	Part Number
Cyberlight LCD controller	19020002
Galvanized safety cable	12040001
Status Cue System	Call*

Call* - Contact either your High End Systems dealer/distributor, High End Systems Sales, or the High End Systems World Wide Web site.

High End Systems Sales: See the inside title page of this manual.

High End Systems World Wide Web site:

<http://www.highend.com>

Specifications

This section lists specifications for Ecodome.

Model Numbers

Models: Studio Color 115
Studio Color 230
Cyberlight 208—230

Manufacturer: Lightwave Research®

Distributor: High End Systems, Inc.
2217 W. Braker Lane
Austin, Texas, 78758
USA

Dimensions (fully assembled)

Studio Color Ecodome: in: 45 H x 32 diameter
cm: 115 H x 80 diameter

Cyberlight Ecodome: in: 68 H x 32 diameter
cm: 170 H x 80 diameter

Weight

Table 1-2. Ecodome Weights

	Shipping Weight	Assembled Weight
Cyberlight	Dome: 15.0 lbs (6.8 kg) Housings (2): 41.8 lbs (19 kg) combined Base: 66.0 lbs (29.9 kg)	CL: 193 lbs (88 kg) CX: 178 lbs (81 kg)
Studio Color	Dome: 14.5 lbs (6.6 kg) Housing: 20.9 lbs (9.5 kg) Base: 59.4 lbs (26.9 kg)	575-S: 144 lbs (65 kg) 575-M: 154 lbs (70 kg)

Electrical Specifications

- **Voltages:** Studio Color models:
115 or 230 VAC only
50/60Hz

Cyberlight model:
208-230VAC 50/60Hz
- **Rated power:** Studio Color models: 930 W
Cyberlight model: 1530 W



Class I equipment - For continued protection against electric shock connect this equipment to a ground fault protected power source only.

Important Power Cord Information - U.K. Only

IMPORTANT The cores in the mains lead are colored in accordance with the following code:

- **green and yellow:** earth
- **blue:** neutral
- **brown:** live



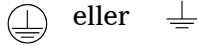
THIS EQUIPMENT MUST BE EARTHED.

Vigtig Sikkerhedsinformation - DANMARK

Advarsel: Beskyttelse mod elektrisk chock.

Vigtigt!

Lederen med gul/groen isolation maa kun tilsluttes en klemme maerket



Tamper-Resistant Screwdriver Tool

(Tournevis inviolable; Gegen Eingriff gesicherter Schraubendreher; Trapano elettrico resistente a manomissioni; Destornillador resistente a las manipulaciones indebidas.)

For obtaining a power driver bit: socket pin head 3/16" bit with 1/4" shank.

DMX Data Cabling

- **DMX data cables:** Belden[®] 9841 or equivalent (meets specifications for EIA RS-485 applications) with characteristics listed below:
 - 2-conductor twisted pair plus a shield
 - maximum capacitance between conductors - 30 pF/ft.
 - maximum capacitance between conductor and shield - 55 pF/ft.
 - maximum resistance of 20 Ω /1000 ft.
 - nominal impedance 100–140 Ω
 - 22–24 AWG with insulation having a dielectric rating of 300 volts or higher
- **DMX data connectors:** 3-pin male and female XLR connectors
- **DMX data terminators:** Male XLR connector with 120 ohm terminator

Controllers

The DMX 512-compliant fixture installed in Ecodome may be controlled with any of the following:

- A Lightwave Research® LCD controller (part number 26020001 for Studio Color or part number 19020002 for Cyberlight).
- The Status Cue® system.
- Another DMX 512-compatible controller. See the fixture's user manual for details of DMX 512 control.

Conditions of Acceptability

Ecodome is an ETL/CETL Recognized Component when the following conditions of acceptability are met:

1. Ecodome must be installed in accordance with local and national building and electrical codes.
2. The foundation on which Ecodome is installed must be at least 6 inches (15 cm) above ground level; in addition, Ecodome must not be operated in low-lying areas subject to flooding or in areas subject to standing water.
3. Ecodome model "Studio Color 115" is to be used *only* with Studio Color fixture model "575-S".
4. Ecodome model "Studio Color 230" is to be used *only* with Studio Color fixture model "575-S" or with Studio Color fixture model "575-M".
5. Ecodome model "Cyberlight 208-230" is to be used *only* with Cyberlight fixture models "CBL-01", "CL-Litho", "CBL-CX" and "CX Litho".

Compliance

Ecodome conforms to the following standards:

- UL 1572
- EN 60598-1
- CSA 22.2 No. 9
- EMC standards:
 - EN 55022, Class A ITE
 - IEC 801-2, Level 2 (4/8kV)
 - IEC 801-3, Level 2 (3 V/m)
 - IEC 801-4, Level 2 (1kV/.5kV)



Safety

The safety specifications listed below are valid *only* if Ecodome meets all of the conditions of acceptability listed in the section titled “Conditions of Acceptability” on page 1-6.



- Maximum ambient temperature (T_a): 40° C (104° F).
- Maximum exterior surface temperature: 62° C (144° F).
- Suitable for mounting on normally flammable surfaces.
- Not for residential use.

Site Preparation

This section explains how to prepare the site where Ecodome is to be installed.

Keep in mind when you are planning your installation that Ecodome will be exposed to a variety of seasonal and weather conditions (hot, cold, wet, dry, etc). Winds can also blow debris near Ecodome's intake and exhaust vents. Keep *all* of those conditions in mind when you are planning how and where to install Ecodome.



Cautions

(1) Ecodome cannot be mounted on a wall or upside-down.

(2) Consult the fixture's user manual for important safety information not contained in this manual.



(3) Risk of fire and shock. This product is to be installed by a qualified electrician *ONLY*.

(4) Allow at least 24 inches (61 cm) clearance around intake and exhaust.

(5) Do not operate in low-lying areas subject to flooding or in areas subject to standing water.

General Recommendations

Make sure all of the following are true of the site where you are going to install Ecodome. Also see Figure 2-3 on page 2-21 and Figure 3-4 on page 3-37.

1. High End Systems, Inc. recommends that Ecodome be installed on a flat surface, not at an angle, because it provides the best protection from moisture. If you wish to install Ecodome at an angle, however, see the section titled “Mounting Ecodome at an Angle” on page 1-11.
2. Power in, power out, DMX (control) In and DMX Out are wired in four separate conduits.



Caution

The main power terminal connection must be installed in accordance with local and national building and electrical codes.

3. High End Systems, Inc. recommends that the mains power supply to Ecodome be ground fault protected for added safety.
4. You must allow at least 24 inches (61 cm) free space around Ecodome’s intake and exhaust.
5. Ecodome should not be installed in a site where soil, water, leaves or other debris is likely to accumulate within 24 inches (61 cm) of Ecodome’s intake or exhaust.

Recommended Foundation Layout

Use Figure 1-1 and the following guidelines to set up the Ecodome site:

1. The foundation can be constructed of any suitable material (concrete, steel, wood, etc.).
2. The foundation can be square, circular or any other shape that allows at least 32” (81 cm) for Ecodome. See Figure 1-1.
3. The top of the foundation should be at least 6” (15 cm) above ground level.

4. Conduit should not be more than 2" (5 cm) above the foundation.

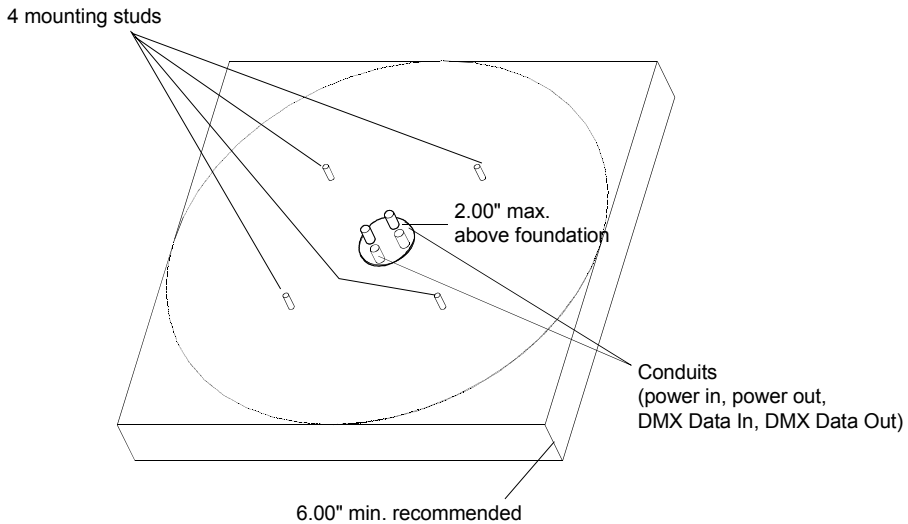
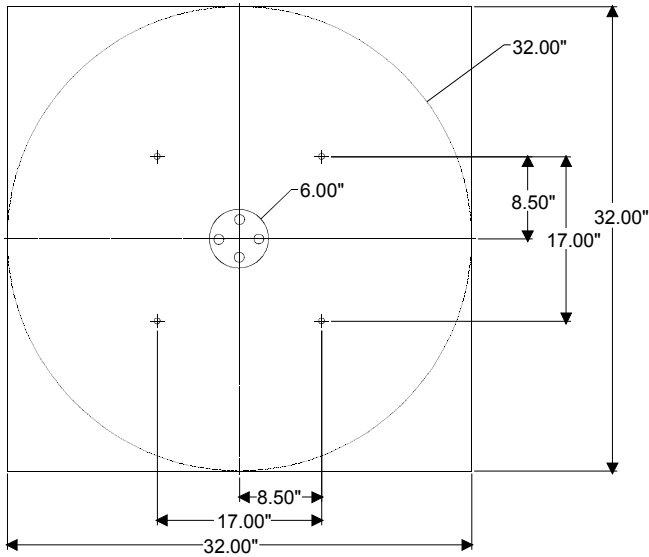


Figure 1-1. Recommended site layout for Ecodome.

For additional information, contact High End Systems Customer Service as shown in the section titled "Getting Help" on page Intro-4.

Mounting Ecodome at an Angle

If you want to mount Ecodome at an angle, you must follow all of the instructions in the sections titled “General Recommendations” on page 1-9 and “Recommended Foundation Layout” on page 1-9 as well as the instructions in this section.

1. *Studio Color Ecodome only:* The foundation must be either flat (recommended) or at most 45° in any direction but not on a wall or upside-down, as shown in Figure 1-2:

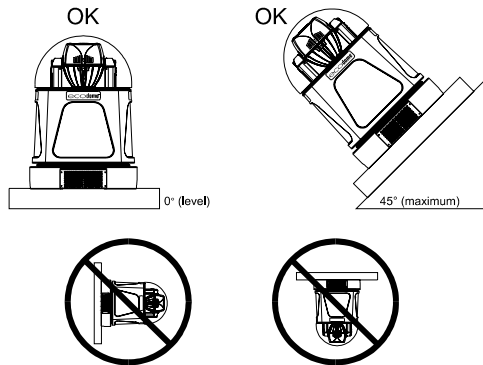


Figure 1-2. Studio Color Ecodome can be mounted at most 45° from horizontal, but not on a wall or upside-down.

2. *Cyberlight Ecodome only:* The foundation must be either flat (recommended) or at most 30° in any direction, as shown in Figure 1-3:

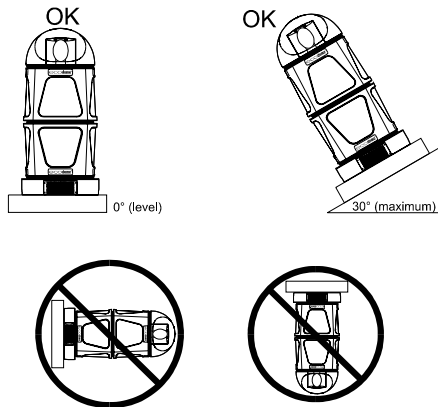
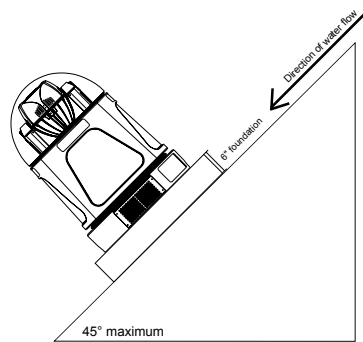
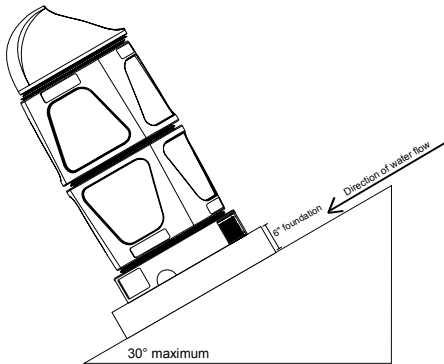
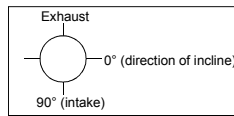
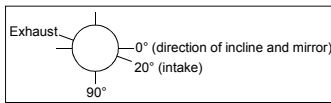


Figure 1-3. Cyberlight Ecodome can be mounted at most 30° from horizontal, but not on a wall or upside-down.

3. You can make it less likely for water to enter through Ecodome's intake or exhaust vents by orienting the vents as shown in Figure 1-4.
 - a. **Studio Color Ecodome:** Orient the vents 90° away from the direction of the incline.
 - b. **Cyberlight Ecodome:** If you want the mirror to be facing either directly up or down the incline, you must orient the base at 20° from the direction of the incline and rotate the Cyberlight fixture mirror head 20°. The procedure for rotating the mirror head is shown in Chapter 3 of the *Cyberlight User Manual*, v2.0 or later (p/n 60600016).



Cyberlight Ecodome

Studio Color Ecodome

Figure 1-4. Orienting Ecodome so the intake and exhaust vents are facing away from the direction of an incline.

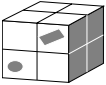
Note

You can install Ecodome on a smaller-sized foundation to make it less likely for debris or water to accumulate around Ecodome; however, the foundation must be at least 32" (81 cm) across or in diameter. The foundation must also be at least 6" (15 cm) above the ground level.

Unpacking Ecodome™

Unpack the Ecodome boxes and verify that all components arrived complete and without any damage.

Save the Shipping Materials



Do not discard the shipping carton and packing materials. The carton and packing materials are specifically designed to protect the product during transport.

High End Systems, Inc. assumes no responsibility for products damaged during transport. Therefore, you should return a product for repair in its original shipping carton and packing materials.

Note Before sending anything to the factory, be sure to call your HES dealer/distributor for a Return Material Authorization (RMA) number. The factory cannot accept any goods shipped without an RMA number.

Shipping Ecodome to Another Location

Ecodome was not designed to be shipped to another location with a fixture installed. If you need to ship Ecodome to another location once you have assembled it, High End Systems, Inc. strongly recommends you do the following:

- Remove the fixture and repack it in its original packaging and container. (You can also pack the fixture in a custom Keal road case; see the sections titled “The Ecodome Road Case” on page 2-22 and “The Ecodome Road Case” on page 3-38 for details.)
- Disassemble Ecodome and repack it in its original containers and packaging. (You can also pack Ecodome in a custom Keal road case.)



Caution

Shipping Ecodome to another location with a fixture installed could result in damage to both the fixture and to Ecodome.

Inspecting the Contents

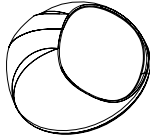
Ecodome currently ships in the following configurations:

- **Studio Color Ecodome:** Ships in three separate boxes—one for the dome, one for the housing and one for the base.
- **Cyberlight Ecodome:** Ships in four separate boxes—one for the dome, one for each of two housings and one for the base.

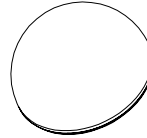
Carefully unpack each carton and inspect the contents for damage. If any of the items listed in this section are missing or damaged you must notify both the shipping agent and your sales agent immediately.

Contents of the Dome Box

The dome box contains the dome and packing material. Carefully remove the dome and inspect it for cracks or scratches. If the dome is damaged in any way, carefully repack it in its original container and contact High End Systems Customer Service for additional information. See the section titled “Getting Help” on page Intro-4.



Litho dome (p/n 28010010)

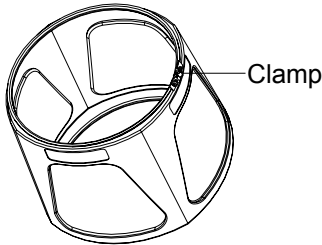


Round dome (p/n 28010005)

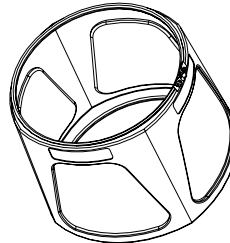
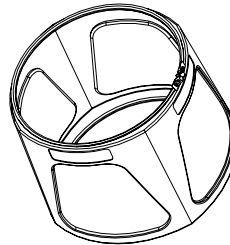
Contents of the Housing Box

- **Studio Color Ecodome:** One housing with an attached clamp and four labels.
- **Cyberlight Ecodome:** Two housings, each with an attached clamp, in separate containers, and eight labels (four labels in each container).

Studio Color Ecodome: one housing



Cyberlight Ecodome: two housings (packaged separately)



Contents of the Studio Color Ecodome Base Box

The base box contains the items shown in Figure 1-5:

Le socle contient les éléments illustrés dans la figure 1-5:

Der Sockelsatz umfaßt die in Abb. 1-5 abgebildeten Teile:

La scatola di base contiene gli elementi illustrati nella Figura 1-5:

La caja base contiene los artículos mostrados en la Figura 1-5:

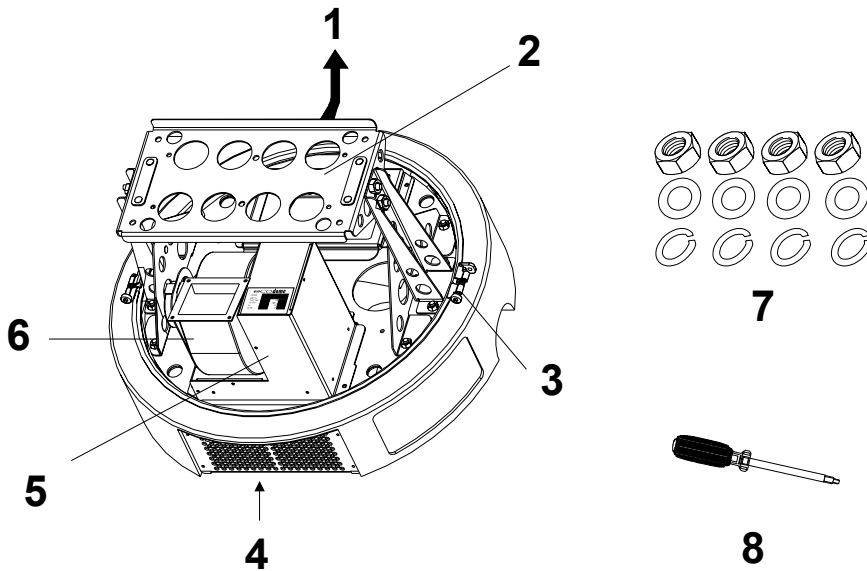


Figure 1-5. Contents of the Studio Color Ecodome base box.

Figure 1-5. Contenu du socle Studio Color Ecodome.

Abbildung 1-5. Lieferumfang des Studio Color Ecodome-Sockelsatzes.

Figura 1-5. Contenuto della scatola di base Studio Color Ecodome.

Figura 1-5. Contenido de la caja base del Studio Color Ecodome.

1	Exhaust Echappement Luftaustritt Scarico Escape	2	Studio Color mounting tray Plateau de montage de Studio Color Montagevorrichtung für Studio Color Vassoio di montaggio Studio Color Soporte de montaje Studio Color
3	Clamp Bride de fixation Klemme Morsetto Abrazadera	4	Air intake Entrée dair Lufteinlaß Ingresso dell'aria Entrada de aire
5	Blower assembly Assemblage du ventilateur Lüfterbaugruppe Gruppo del soffiante Ensamblaje del soplador	6	Blower fan Ventilateur soufflant Ventilator Ventola del soffiante Ventilador del soplador
7	Four 1/2" mounting nuts, four 1/2" regular washers, four 1/2" split washers Quatre écrous de montage d1/2 pouce, quatre rondelles normales d1/2 pouce, quatre rondelles fendues d1/2 pouce	Vier 1,3 cm (1/2-Zoll) Befestigungsmuttern, Vier normale 1,3 cm (1/2-Zoll) Unterlegscheiben, Vier 1,3 cm (1/2-Zoll) Federscheiben 4 dadi di montaggio da 1/2 pollice, 4 rondelle normali da 1/2 pollice, 4 rondelle aperte da 1/2 pollice Cuatro tuercas de montaje de 1/2 pulgada, cuatro arandelas ordinarias (planas) de 1/2 pulgada, cuatro arandelas de presión de 1/2 pulgada	
8	Tamper-resistant screwdriver tool Tournevis protégé contre les manipulations Schraubenzieher (in der erforderlichen Größe für die gegen Eingriffe gesicherten Schrauben)	Cacciavite anti-manomissione Destornillador para tornillos a prueba de alteraciones	

Contents of the Cyberlight Ecodome Base Box

The base box contains the items shown in Figure 1-6:

Le socle contient les éléments illustrés dans la figure 1-6:

Der Sockelsatz umfaßt die in Abb. 1-6 abgebildeten Teile:

La scatola di base contiene gli elementi illustrati nella Figura 1-6:

La caja base contiene los artículos mostrados en la Figura 1-6:

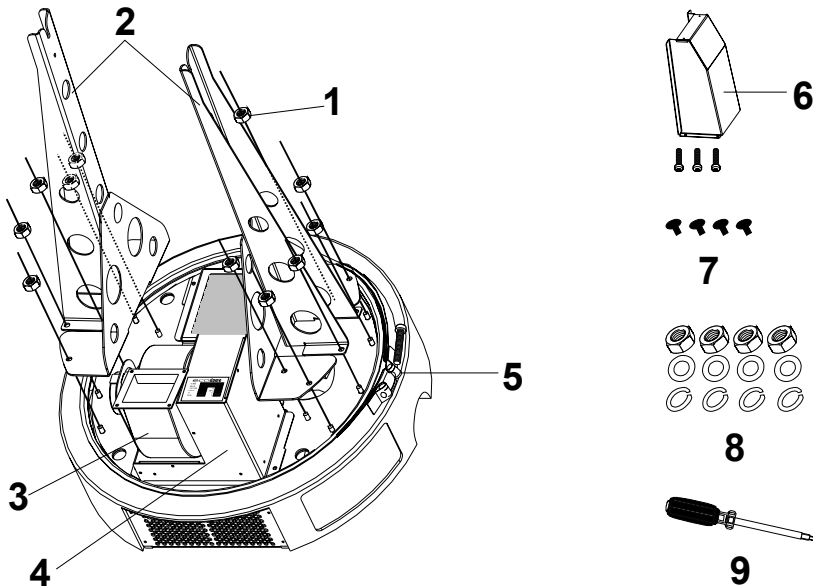


Figure 1-6. Contents of the Cyberlight Ecodome base box.

Figure 1-6. Contenu du socle Cyberlight Ecodome.

Abbildung 1-6. Lieferumfang des Cyberlight Ecodome-Sockelsatzes.

Figura 1-6. Contenuto della scatola di base Cyberlight Ecodome.

Figura 1-6. Contenido de la caja base del Cyberlight Ecodome.

1	3/8 inch nuts (12) Ecrous de 3/8 pouce (12) 3/8-Zoll-Muttern (12) Dadi da 3/8 di pollice (12) Tuercas de 3/8 de pulgada (12)	2	Cyberlight supports (2) Supports du Cyberlight (2) Cyberlight-Stützen (2) Supporti Cyberlight (2) Soportes Cyberlight (2)
---	--	---	---

3	Blower fan Ventilateur soufflant Ventilator Ventola del soffiante Ventilador del soplador	4	Blower assembly Assemblage du ventilateur Lüfterbaugruppe Gruppo del soffiante Ensamblaje del soplador
5	Clamp Bride de fixation Klemme Morsetto Abrazadera	6	Air deflector and 10-32 Phillips screws (3) Déflecteur d'air et vis cruciformes 10-32 (3) Luftdeflektoren und 10-32- Kreuzschlitzschrauben (3) Deflettore dell'aria e viti a croce da 10-32 (3) Deflector de aire y tornillos Phillips 10-32 (3)
7	Cyberlight handle seals (4) Caches d'obturation des poignées du Cyberlight (4)	Cyberlight-Griff (4) Tappi per impugnatura Cyberlight (4) Juntas de manilla Cyberlight (4)	
8	Four 1/2" mounting nuts, four 1/2" regular washers, four 1/2" split washers Quatre écrous de montage d1/2 pouce, quatre rondelles normales d1/2 pouce, quatre rondelles fendues d1/2 pouce Vier 1,3 cm (1/2-Zoll) Befestigungsmuttern, Vier normale 1,3 cm (1/2-Zoll) Unterlegscheiben, Vier 1,3 cm (1/2-Zoll) Federscheiben	4 dadi di montaggio da 1/2 pollice, 4 rondelle normali da 1/2 pollice, 4 rondelle aperte da 1/2 pollice Cuatro tuercas de montaje de 1/2 pulgada, cuatro arandelas ordinarias (planas) de 1/2 pulgada, cuatro arandelas de presión de 1/2 pulgada	
9	Tamper-resistant screwdriver tool Tournevis protégé contre les manipulations Schraubenzieher (in der erforderlichen Größe für die gegen Eingriffe gesicherten Schrauben)	Cacciavite anti-manomissione Destornillador para tornillos a prueba de alteraciones	

Mounting the Base

This section shows how to mount the Ecodome base on the foundation you have already prepared.

Cette section montre comment monter le socle de l'Ecodome sur le support de montage que vous avez préparé à cet effet.

Dieser Abschnitt beschreibt, wie der Ecodome-Sockel auf das bereits vorbereitete Fundament zu montieren ist.

Questa sezione illustra il montaggio della base Ecodome sul basamento preparato in precedenza.

Esta sección muestra cómo montar la base del Ecodome en el cimiento ya preparado.

1

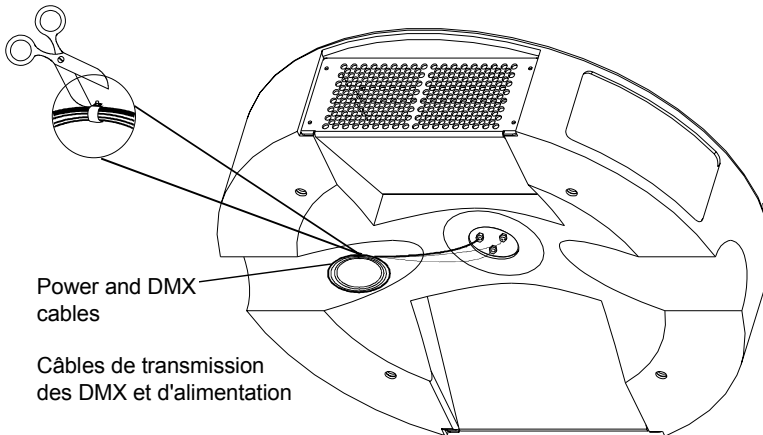
Cut the cable tie wrap.

Coupez le collier d'attache des câbles.

Das um die Kabel befestigte Band mit Hilfe einer Schere entfernen.

Tagliare il filo che avvolge il cavo.

Corte la amarra del cable.



Power and DMX
cables

Câbles de transmission
des DMX et d'alimentation

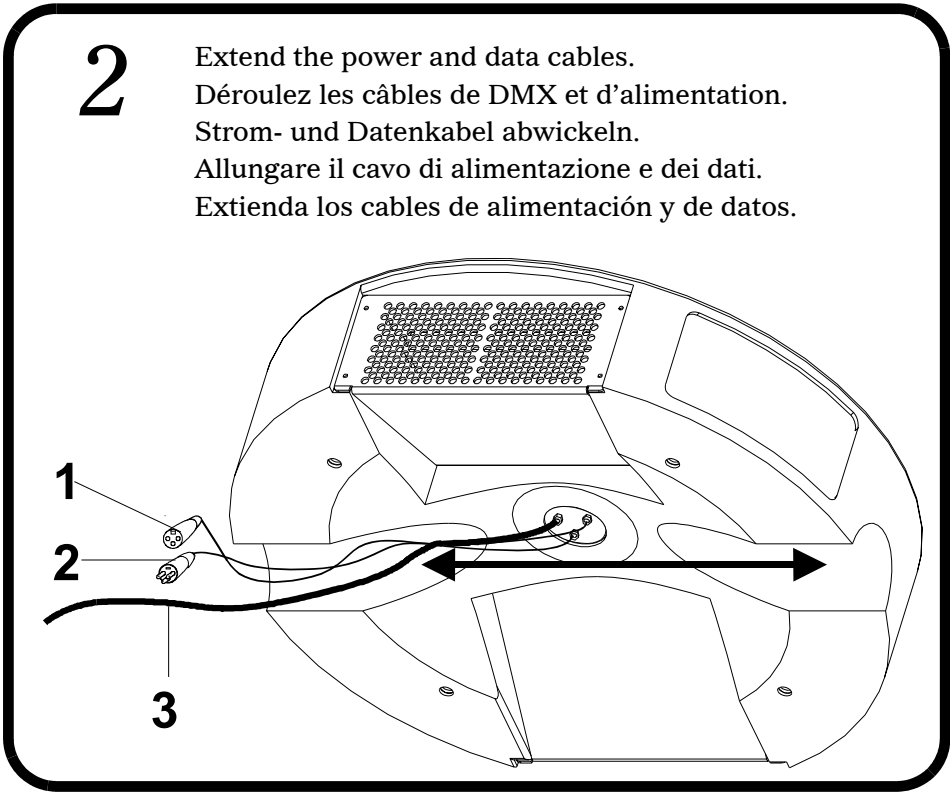
Strom- und DMX-Kabel

Cavi di alimentazione e DMX

Cables de alimentación y DMX

2

Extend the power and data cables.
Déroulez les câbles de DMX et d'alimentation.
Strom- und Datenkabel abwickeln.
Allungare il cavo di alimentazione e dei dati.
Extienda los cables de alimentación y de datos.



1	Data Out Sortie des données Datenausgang Uscita dati Datos de salida	3	Power Alimentation Strom Alimentazione Alimentación
2	Data In Entrée des données Dateneingang Ingresso dati Datos de entrada		

3

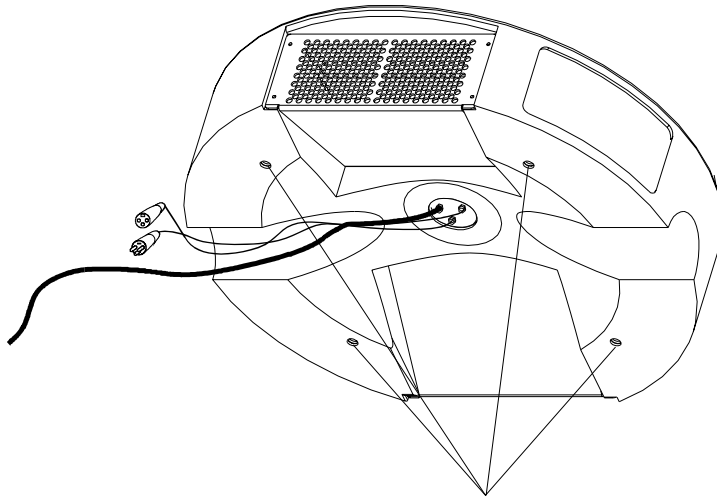
Place the four Ecodome mounting holes over the four studs in your foundation.

Placez les quatre trous de montage de l'Ecodome sur les quatre goujons du support de montage.

Die vier Ecodome-Befestigungslöcher über die vier Stifte des Fundaments plazieren.

Allineare i quattro fori di montaggio di Ecodome ai quattro pilastri del basamento.

Coloque los cuatro orificios de montaje del Ecodome sobre de los cuatro pernos del cimiento.



Mounting holes (4)

Trous de montage (4)

Befestigungslöcher (4)

Fori di montaggio (4)

Orificios de montaje (4)

Note

If you are installing Ecodome at an angle (not flat), you must orient the vents so that it is not possible for water to run down the incline and into the vents. See Figure 1-4 on page 1-12.

4

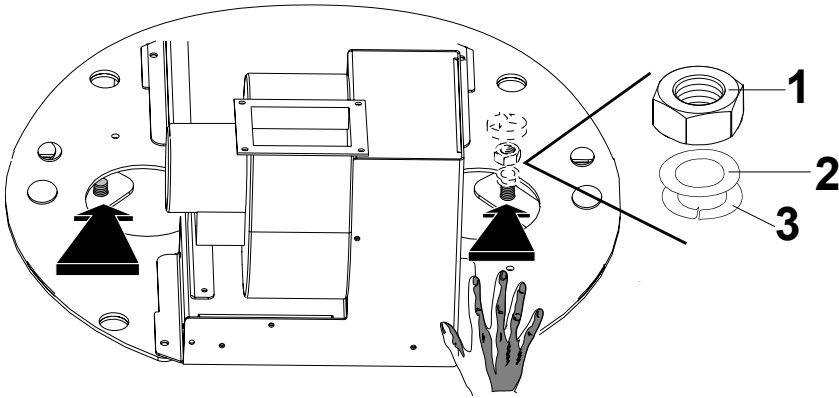
Place the four 1/2" washers and four 1/2" hex nuts over the four studs in the foundation.

Placez les quatre rondelles d'1/2 pouce et les quatre écrous hexagonaux d'1/2 pouce sur les quatre goujons du support de montage.

Die vier 1,3cm (1/2-Zoll) Unterlegscheiben und die vier 1,3cm (1/2-Zoll) Sechskantmuttern über die vier Stifte des Fundaments plazieren.

Stringere saldamente i quattro dadi esagonali da 1/2 di pollice.

Coloque las cuatro arandelas de 1/2 pulgada y cuatro tuercas hexagonales de 1/2 pulgada sobre los cuatro pernos del cemento.



1	Nut Ecrou Mutter Dado Tuerca	3	Split washer Rondelle fendue Federscheibe Rondella aperta Arandela de presión
2	Flat washer Rondelle plate Flache Unterlegscheibe Rondella normale Arandela plana		

5

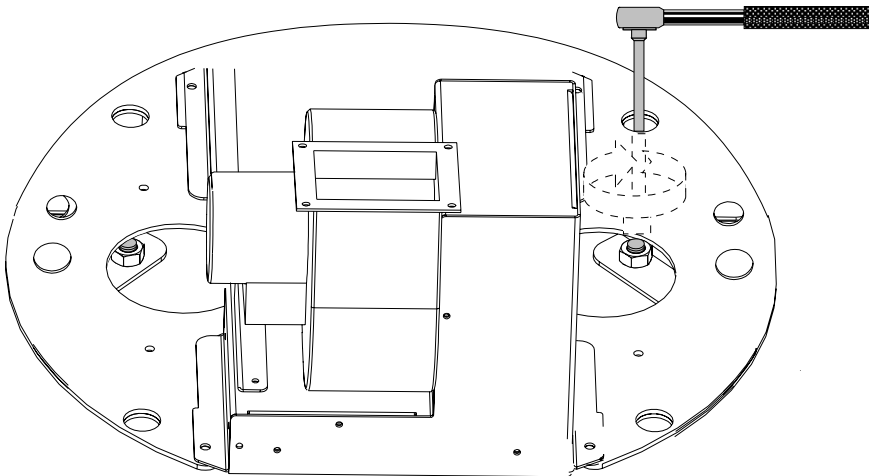
Tighten all four 1/2" hex nuts securely.

Serrez fermement les quatre écrous hexagonaux d'1/2 pouce.

Alle vier 1/2-Zoll Sechskantmuttern festziehen.

Stringere saldamente i quattro dadi esagonali da 1/2 di pollice.

Atornille firmemente las cuatro tuercas hexagonales de 1/2 de pulgada.



Chapter 2

Assembling the Studio Color[®] Ecodome[™]

Before Beginning

You must have already prepared the site (foundation and wiring) for Ecodome as described in Chapter 1 before following the instructions in this chapter.

Also see the section titled “Required Tools and Materials” on page 1-1.

Mounting Studio Color[®]

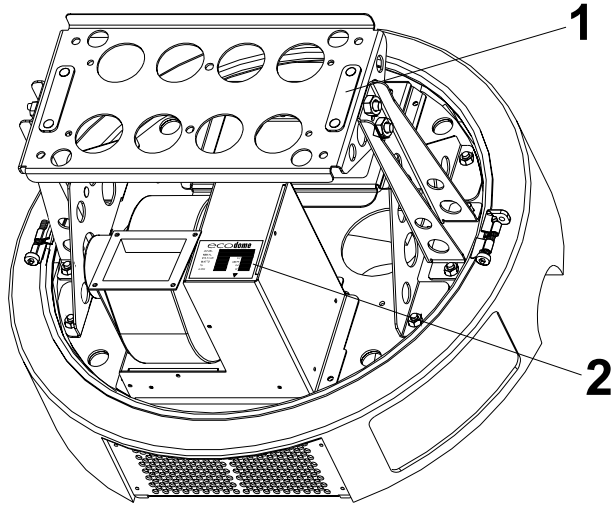
This section explains how to mount your Studio Color fixture onto the base and supports shown below.

Cette section explique comment monter votre projecteur Studio Color sur le socle et les supports illustrés ci-dessous.

Dieser Abschnitt beschreibt den Einbau der Studio Color-Leuchten in die Basiseinheit und Einbauvorrichtung, wie nachfolgend abgebildet.

La presente sezione descrive il montaggio dell'apparecchiatura Studio Color sulla base e i supporti illustrati di seguito.

Esta sección explica cómo montar el accesorio Studio Color en la base y soportes indicados a continuación.



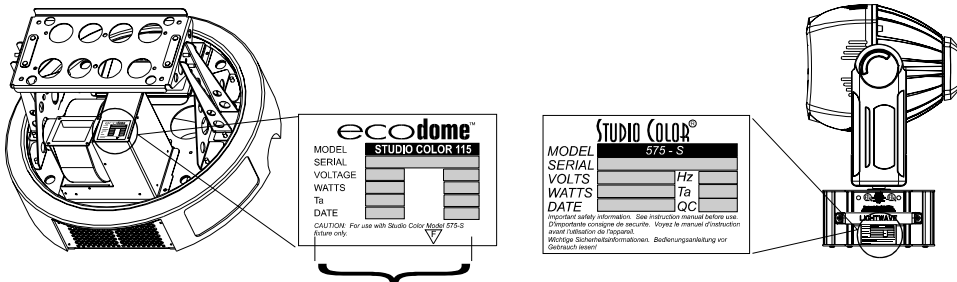
<p>1</p>	<p>Studio Color stud plates (2) Plaque à goujons (2) Studio Color-Stiftplatten (2) Piastra da parete Studio Color (2) Placas de pernos Studio Color (2)</p>	<p>2</p>	<p>Ecodome QC label Etiquette Contrôle Qualité Ecodome Ecodome QC-Etikett Targhetta QC Ecodome Etiqueta de control de calidad del Ecodome</p>
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Ecodome and Studio Color Models

You must correctly match the Studio Color fixture model to the Ecodome model before installation as shown in Table 2-1 and Figure 2-1 below:

Table 2-1. Matching Studio Color Fixture Models to Ecodome Models

Studio Color fixture model Modèle de projecteur Studio Color Studio Color Scheinwerfermodell Modello apparecchiatura Studio Color Modelo del aparato Studio Color	Ecodome model Modèle Ecodome Ecodome Modell Modello Ecodome Modelo Ecodome	Compatible? Kompatibel? Compatibilità ¿Compatible?
575-S	Studio Color 115	yes
575-S	Studio Color 230	yes
575-M	Studio Color 230	yes
575-M	Studio Color 115	NO



CAUTION: For use with Studio Color Model 575-S only.
 PRECAUCION: Uso exclusivo en Studio Color Modelo 575-S.
 ACHTUNG: Nur zum Gebrauch mit Studio Color, Modell 575-S.
 ATTENTION: Seulement pour utilisation avec le Studio Color 575-S.
 ATTENZIONE: Solo per l'uso con Studio Color modello 575-S.

Figure 2-1. Ecodome model "Studio Color 115" can be used with Studio Color fixture model "575-S" only.

Mounting Precautions

You should use three people to mount each Studio Color fixture: two people to hold the fixture while it is being secured in place, and one person to secure the fixture to Ecodome.

Always stand on a firm, stable surface. *Do not try to lift the fixture yourself to secure it to Ecodome*; the ideal method is to use three people to install the fixture.

Procedure

This section explains how to mount the Studio Color fixture in Ecodome.



Caution

Use a 9/16" wrench or deep socket to make sure all the nuts on the Ecodome base are securely tightened before continuing.

1

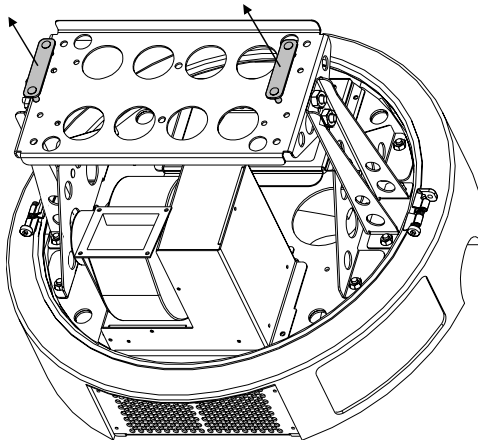
Remove the two stud plates:

Retirez les deux plaques à goujons:

Die zwei Stiftplatten entfernen:

Rimuovere le due piastre da parete:

Retire las dos placas de pernos:



2

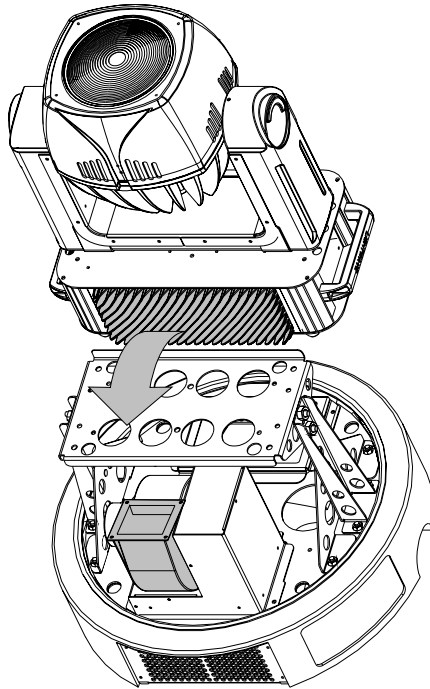
The Studio Color model 575-S fixture must be oriented with the heat sink over the blower, as shown below:

Le modèle de projecteur Studio Color 575-S doit être orienté de façon à ce que le dissipateur de chaleur soit placé au-dessus du ventilateur, comme illustré ci-dessous:

Die Leuchte des Studio Color Modell 575-S so ausrichten, daß sich der Kühlkörper wie in der nachstehenden Abbildung gezeigt über dem Ventilator befindet:

Il modello Studio Color 575-S deve essere orientato in maniera che il dissipatore si trovi sopra il soffiante, come illustrato di seguito:

El accesorio Studio Color modelo 575-S debe orientarse con el disipador de calor sobre el soplador, según se muestra abajo:



WARNING

If you have Studio Color 575-M model (without a heat sink), orient the LED display side away from the blower air flow.

3

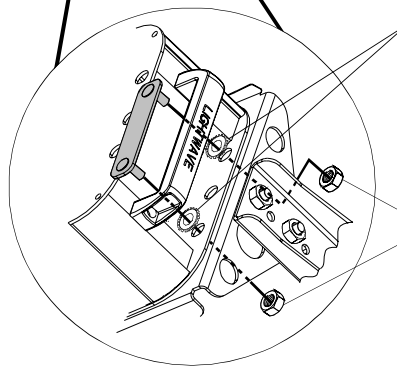
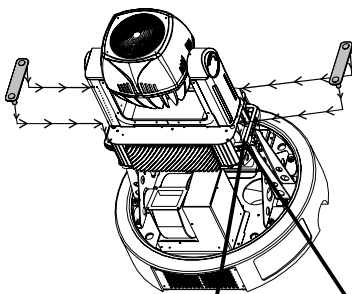
Secure Studio Color on the mounting tray using the two stud plates:

Fixez le projecteur Studio Color sur le plateau de montage à l'aide des deux plaques à goudjons:

Studio Color auf der Einbauvorrichtung mit Hilfe der zwei Stiftplatten befestigen:

Fissare Studio Color sul vassoio di montaggio mediante le due piastre da parete:

Asegure el Studio Color en el soporte de montaje utilizando las dos placas de pernos:



Star washer
Rondelle en étoile
Zahnscheibe
Rondella a stella
Arandela dentada

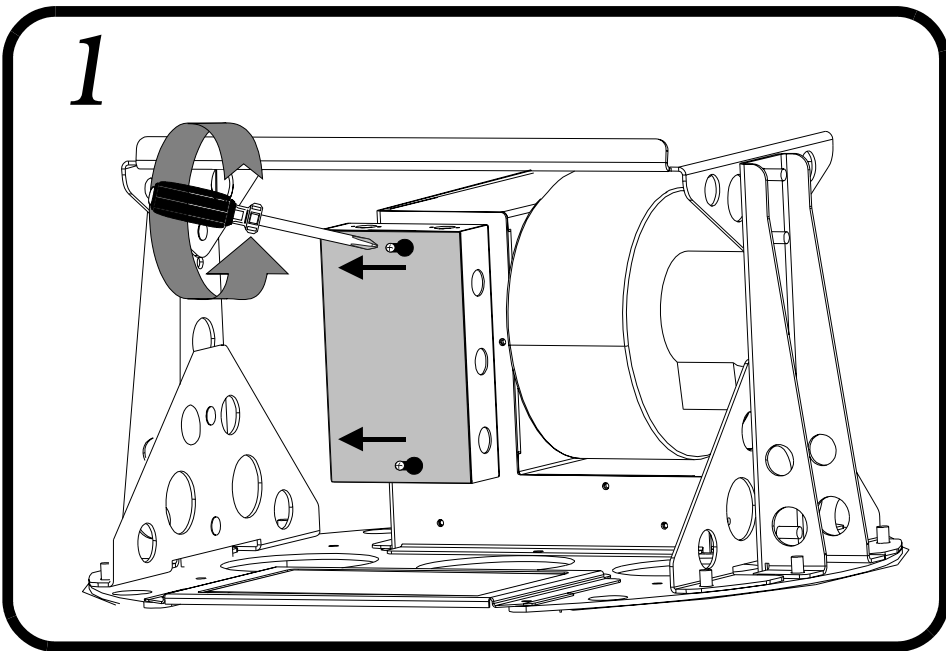
Nylock nut (flat side toward washer)
Ecroû nylstop (côté plat contre la rondelle)
Selbstsichernde Mutter (flache Seite zur Beilagscheibe)
Controdado in nailon (lato piatto verso la rondella)
Tuerca Nylock (el lado plano hacia la arandela)

Connecting the Cabling

This section describes how to connect the power and DMX (data) cabling to the fixture in Ecodome. This procedure is to be followed by a *qualified electrician ONLY!*

IMPORTANT The cores in the Studio Color fixture mains lead are colored in accordance with the following code:

- **green and yellow:** earth
- **blue:** neutral
- **brown:** live



2

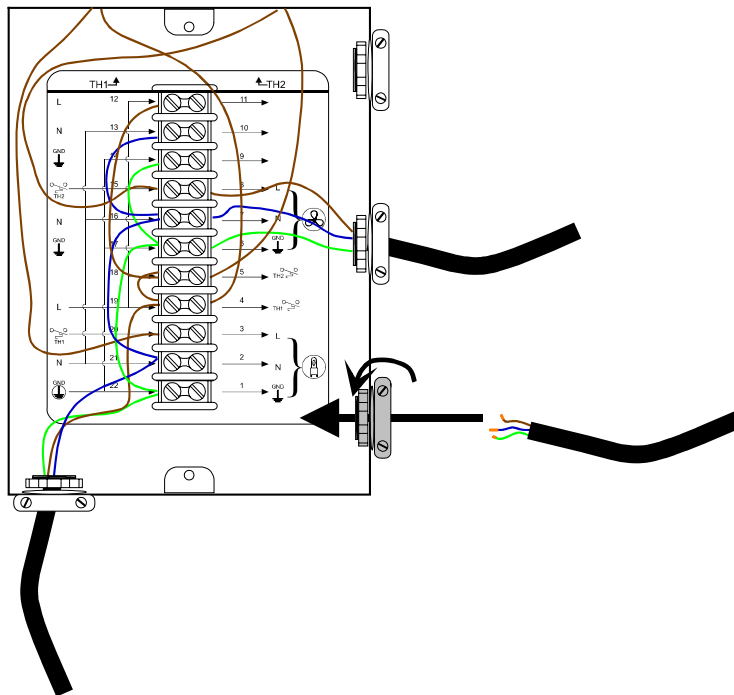
Loosen the two screws on the cable clamp. Insert the Studio Color line cord through the connector:

Desserrez les deux vis sur la bride de fixation du câble. Insérez le cordon du projecteur Studio Color dans le connecteur:

Die zwei an der Kabelklemme befindlichen Schrauben lockern. Das Studio Color-Leitungskabel durch den Anschluß führen:

Allentare le due viti sul morsetto del cavo. Inserire il cavo di linea di Studio Color attraverso il connettore:

Instale el cable eléctrico de línea del Studio Color según se muestra:



3

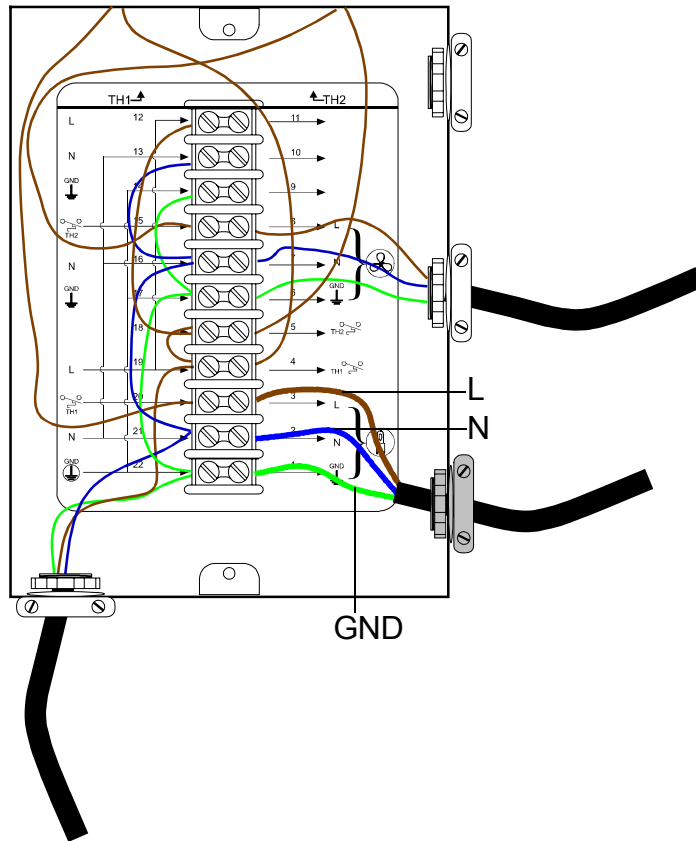
Wire the Studio Color line cord as shown:

Raccordez le cordon du projecteur Studio Color comme suit:

Das Studio Color-Leitungskabel wie nachfolgend abgebildet verdrahten:

Effettuare i collegamenti del cavo di linea di Studio Color come illustrato:

Instale el cable eléctrico de línea del Studio Color según se muestra:



4

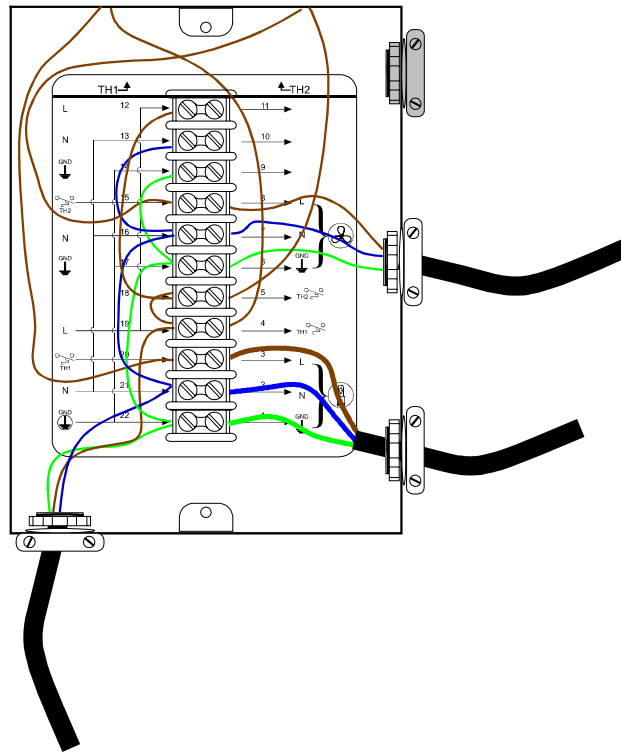
Optional. Wire an optional High End Systems-approved accessory into the “Accessory” position:

Facultatif. Raccordez un accessoire en option agréé High End Systems, à la position "Accessory":

Optional. Ein Optionales von High End System genehmigtes Zubehörgerät kann am Zubehöranschluß (Accessory) verdrahtet werden:

Facoltativo. Collegare un accessorio approvato dalla High End Systems nella posizione recante l'etichetta "Accessory":

Opcional. Conecte un accesorio opcional aprobado por High End Systems en la posición marcada "Accessory" ("Accesorio"):



Caution

Do not install an accessory in Ecodome unless you first contact High End Systems Customer Service. See the section titled “Getting Help” on page Intro-4.

5

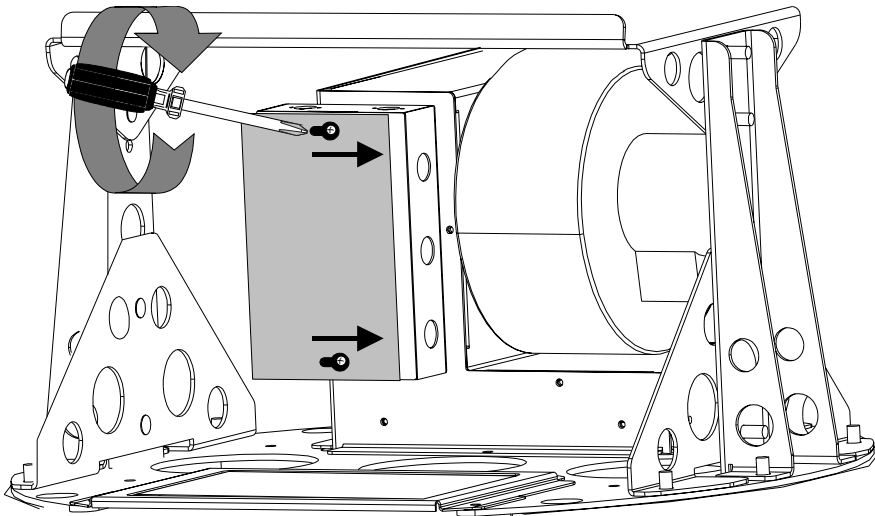
Replace the circuit box door:

Remettez la porte de la boîte de circuit en place:

Die Abdeckplatte des Schalterkastens wieder befestigen:

Richiudere lo sportello dei circuiti elettrici:

Monte la compuerta de la caja de circuitos:



Connecting DMX Cabling

This section describes how to connect DMX (control) cabling to Studio Color.

Cette section décrit comment connecter le câblage de DMX (Contrôle) au projecteur Studio Color.

Dieser Abschnitt beschreibt den Anschluß des Studio Color an die DMX- (Steuer-) Kabel.

La presente sezione descrive il collegamento del cavo di controllo DMX a Studio Color.

Esta sección describe cómo conectar cables DMX (de control) al Studio Color.

1

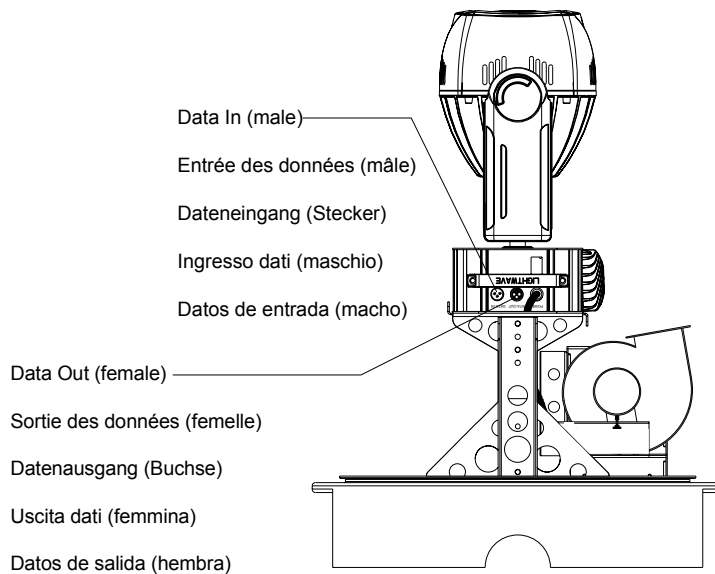
Locate the two DMX (data) ports, next to the Studio Color power cord:

Localisez les deux ports de DMX (données), près du cordon d'alimentation du projecteur Studio Color:

Die beiden DMX- (Daten-) Anschlüsse neben dem Stromkabel des Studio Color ausfindig machen:

Individuare le due porte dei dati DMX accanto al cavo di alimentazione di Studio Color:

Localice los dos puertos DMX (de datos), junto al cable de alimentación del Studio Color:



2

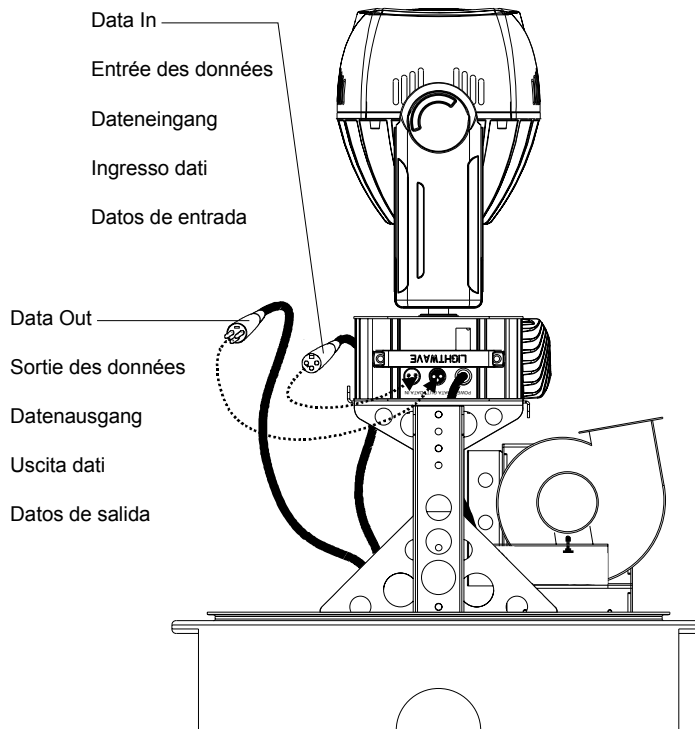
Connect the male DMX cable to the fixture's Data Out port and the female DMX cable to the fixture's Data In port:

Connectez le câble DMX mâle au port Sortie des données du projecteur et le câble DMX femelle au port Entrée des données du projecteur:

Das männliche DMX-Kabelende an die Datenausgangsbuchse und das weibliche DMX-Kabelende an die Dateneingangsbuchse der Leuchte anschließen.

Collegare il cavo DMX maschio alla porta di uscita dati dell'apparecchiatura e il cavo DMX femmina alla porta di ingresso dati dell'apparecchiatura.

Conecte el cable DMX macho al puerto de Datos de salida del accesorio y el cable DMX hembra al puerto de Datos de entrada del accesorio.



Applying Labels to the Housing

Four housing labels, shown below, are included in the Ecodome housing box:

Quatre étiquettes de boîtiers, illustrées ci-dessous, sont incluses dans le carton de boîtiers Ecodome:

Vier Gehäusetiketten, wie nachstehend dargestellt, befinden sich im Ecodome-Gehäusepaket:

Quattro etichette di alloggiamento, mostrate sotto, sono incluse nella scatola di alloggiamento Ecodome:

Se incluyen cuatro etiquetas para la carcasa, que se muestran a continuación, en la caja de la carcasa de Ecodome:



First remove the paper backing from the label as shown below:

Otez d'abord le papier siliconé servant de support à l'étiquette, comme illustré ci-dessous:

Zuerst das Schutzpapier vom Etikett, wie nachfolgend gezeigt, abziehen:

Innanzitutto, rimuovere la protezione di carta dall'etichetta, come indicato sotto:

Retire primero el papel protector que está por detrás de la etiqueta,

según se muestra a continuación:



After removing the paper backing, carefully apply the label from left to right, making sure the label fits completely within the recessed area. Use firm, even pressure when applying the label to prevent bubbles or bumps from forming.

Après avoir ôté le papier de support, collez soigneusement l'étiquette, en l'appliquant de gauche à droite et en vous assurant qu'elle recouvre complètement la partie en retrait. Appliquez une pression ferme et égale sur la surface de l'étiquette pour éviter que des bulles ou des bosses ne se forment.

Nachdem Sie das Schutzpapier abgezogen haben, das Etikett vorsicht von links nach recht ankleben und dabei sicherstellen, daß das Etikett vollständig in die vertiefte Fläche paßt. Das Etikett mit festem, aber gleichmäßigem Druck auftragen, um Luftbläschen oder kleine Beulen zu vermeiden. Dopo aver rimosso la protezione di carta, applicare lentamente l'etichetta da sinistra a destra facendo attenzione che non fuoriesca dall'apposita area incassata. Premere fermamente e in modo uniforme durante l'applicazione dell'etichetta per evitare la formazione di bolle e rilievi.

Tras retirar el papel protector que está por detrás de la etiqueta, coloque la etiqueta cuidadosamente de izquierda a derecha, asegurándose de que la etiqueta quepa completamente en el área designada. Aplique presión firme y uniforme cuando coloque la

etiqueta para evitar la formación de burbujas o bultos.



Finished housing(s):
Boîtier(s) assemblé(s):
Fertige(s) Gehäuse:
Alloggiamento(i) finito(i):
Carcasa(s) terminada(s):



Final Assembly

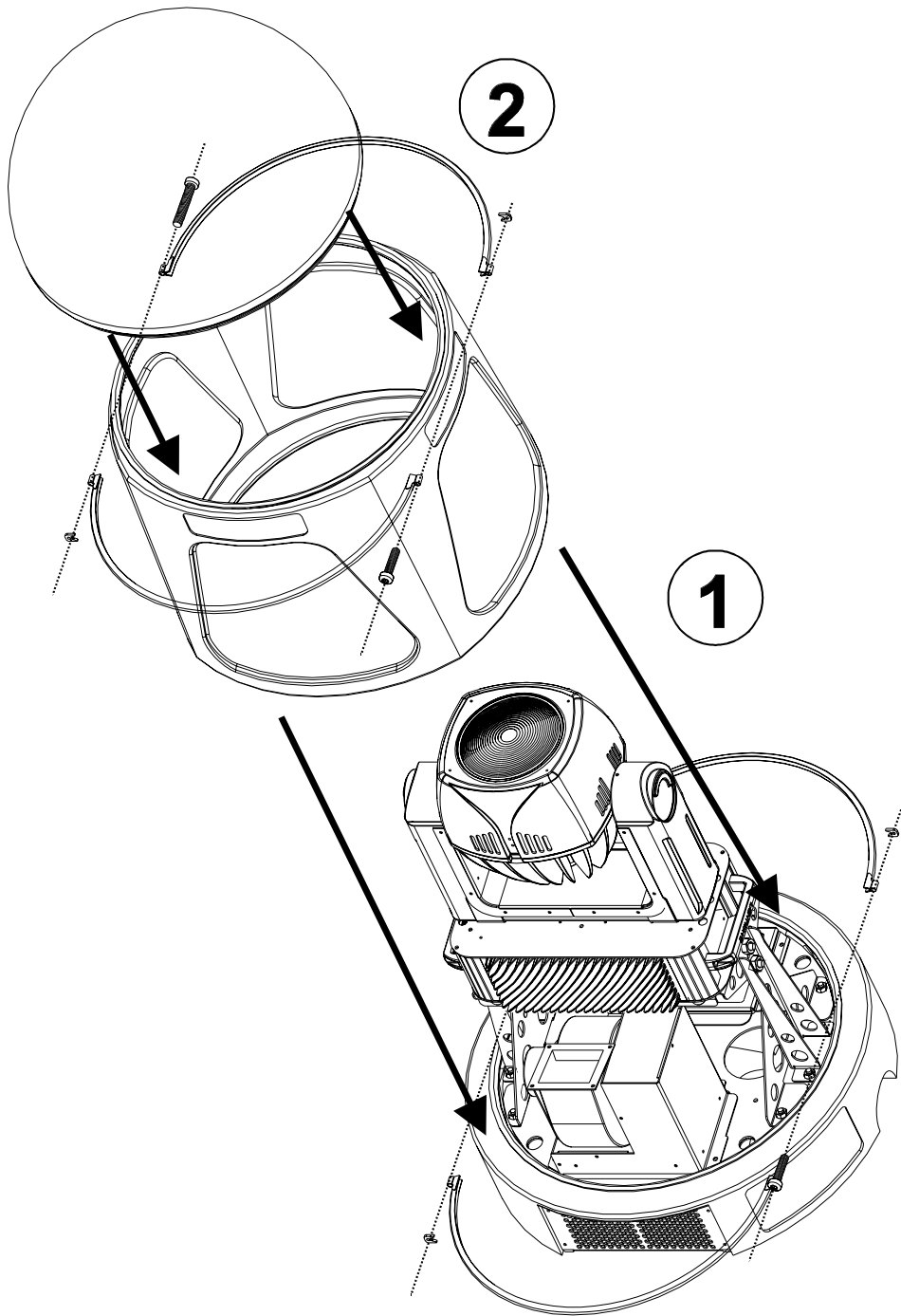
After connecting the power and DMX wiring, assemble the dome, housing and base as shown on the following pages.

Après avoir raccordé le câblage d'alimentation secteur et de transmission des données (DMX), assemblez le dôme, le boîtier et le socle comme indiqué ci-dessous. Des détails supplémentaires sont illustrés à la page suivante.

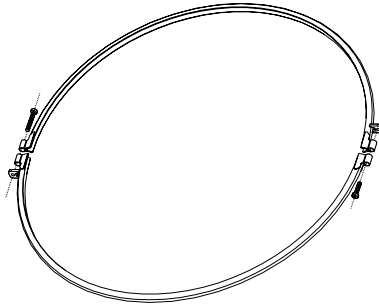
Nach dem Anschluß der Stromversorgung und der DMX-Verkabelung Dom, Gehäuse und Basis wie auf den folgenden Seiten dargestellt zusammenbauen.

Una volta collegati i cavi di alimentazione e DMX, assemblare la cupola, l'alloggiamento e la base come indicato di seguito. La pagina seguente presenta ulteriori dettagli.

Después de conectar los cables DMX, ensamble el domo, el alojamiento y la base según se muestra abajo. Se indican más detalles en la página siguiente.



Assemble the clamps:
Assemblez les brides de fixation:
Zusammenbauen der Klemmen:
Assemblare i morsetti:
Ensamble las abrazaderas:



To provide added protection against moisture accumulating inside Ecodome, you can fasten the clamps as shown in Figure 2-2.

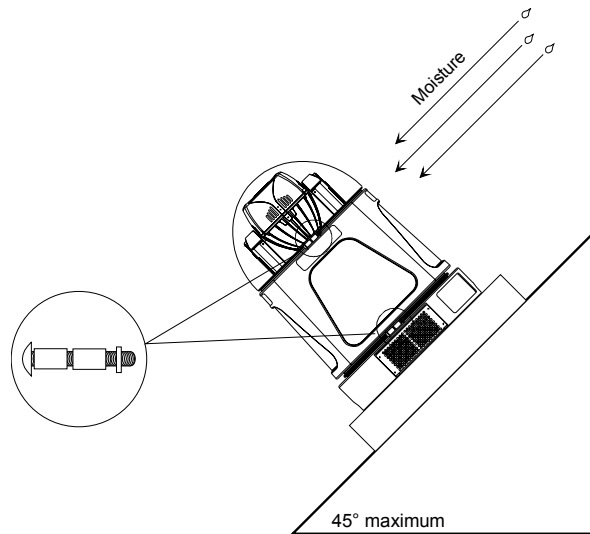


Figure 2-2. Orienting the clamps on Studio Color Ecodome to make it less likely for moisture to strike the clamp clasps directly.

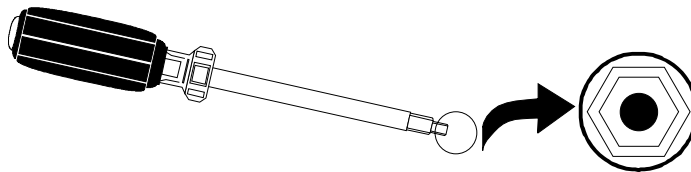
Tighten the clamps using the tamper-resistant screwdriver tool, supplied with Ecodome. Tighten the clamps until you cannot move either the dome or the housing.

Serrez les brides à l'aide du tournevis protégé contre les manipulations qui vous est fourni par Ecodome. Resserez les brides de fixation jusqu'à ce que le dôme ou le boîtier soit complètement bloqué.

Die Klemmen mit Hilfe des im Lieferumfang von Ecodome enthaltenen Schraubenziehers festziehen. Die Klemmen sind so fest zu ziehen, daß weder die Kuppel noch das Gehäuse bewegt werden kann.

Serrare i morsetti servendosi del cacciavite anti-manomissione fornito con Ecodome. Stringere i morsetti finché la cupola e l'alloggiamento risultano essere immobili.

Atornille las abrazaderas utilizando el destornillador para tornillos a prueba de alteraciones proporcionado con el Ecodome. Atornille las abrazaderas hasta que no pueda mover ni el domo ni el alojamiento.



Finished!

You have now finished assembling Studio Color Ecodome. Enable your controller and begin programming Studio Color for dazzling architectural effects.

See Chapter 4 for maintenance suggestions. Also, contact High End Systems Customer service for other questions not covered here. See the section titled “Getting Help” on page Intro-4.

Branch Mains Power Connections

Figure 2-3 illustrates the electrical connections from the branch mains power supply to Ecodome.

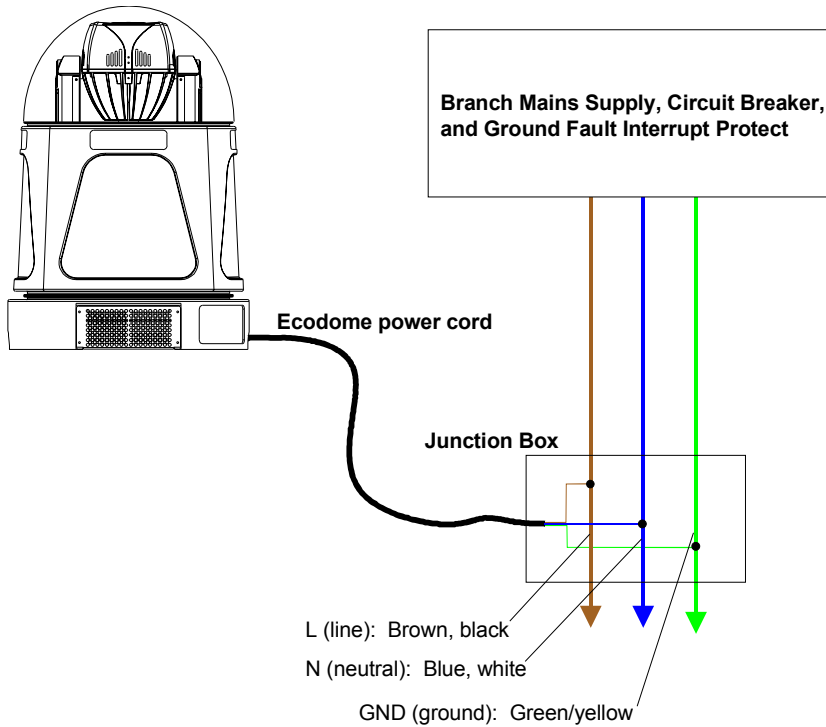


Figure 2-3. The connection between the branch mains power supply to Ecodome.

The Ecodome™ Road Case

The custom-made Keal road case for Ecodome holds a fully-assembled Ecodome and is ideally suited for shipping Ecodome to another location (you must remove the fixture first).

You can ship the fixture either in its original packing material or in its own custom Keal road case (p/n 26070000 for a single Studio Color fixture or p/n 26070001 for two Studio Color fixtures).

Figure 2-4 shows Ecodome installed in the Keal road case (p/n 28070001):



Figure 2-4. Studio Color Ecodome installed in its Keal road case.



Caution

Shipping Ecodome to another location with a fixture installed could result in damage to both the fixture and to Ecodome.

Chapter 3

Assembling the

Cyberlight[®] Ecodome[™]

Before Beginning

You must have already prepared the site (foundation and wiring) for Ecodome as described in Chapter 1 before following the instructions in this chapter. Also see the section titled “Required Tools and Materials” on page 1-1.

Overview of Operation

Cyberlight Ecodome was designed to make it easy for you to perform maintenance on the Cyberlight fixture, as well as to use Cyberlight for architectural effects. Figure 3-1 below shows the two fixture orientations:

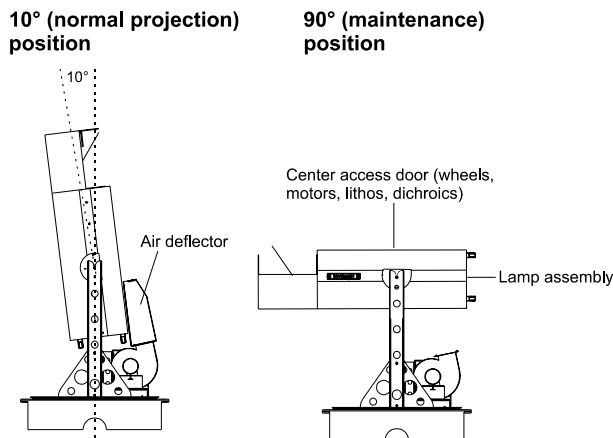


Figure 3-1. Cyberlight can be easily positioned for either projection or maintenance.

Lock Cyberlight into either position using two positioning screws, one mounted on each of the two supports. Two more bolts secure

Cyberlight to the supports, assuring you that Cyberlight will not move provided you tighten all four securely.

To change positions, remove the three Phillips screws securing the air deflector to the blower fan, then loosen the two positioning screws and swivel the fixture to the desired position.

The 90° maintenance position affords easy access to Cyberlight's internal components, as well as to the lamp assembly (for lamp replacement), and to the rear panel connectors and LEDs.

Ecodome™ and Cyberlight® Models

You must correctly match the Cyberlight fixture model to the Ecodome model before installation as shown in Table 3-1 below:

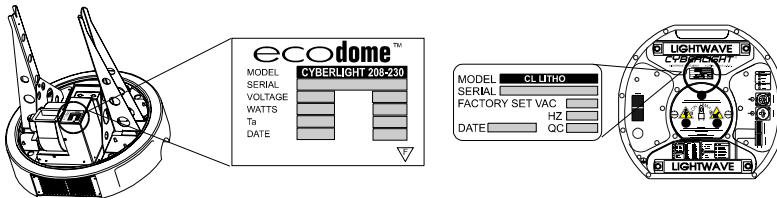
Table 3-1. Matching Cyberlight Fixture Models to Ecodome Models

Cyberlight fixture model Modèle de projecteur Cyberlight Cyberlight Scheinwerfermodell Modello apparecchiatura Cyberlight Modelo del aparato Cyberlight	Ecodome model Modèle Ecodome Ecodome Modell Modello Ecodome Modelo Ecodome	Compatible? Kompatibel? Compatibilità ¿Compatible?
CBL-01 or CL Litho	Cyberlight 208-230	yes
CBL-CX or CX Litho	Cyberlight 208-230	yes
CBL-SV or SV Litho	Cyberlight 208-230	NO



Caution

Cyberlight fixture models CBL-SV or SV Litho cannot be used with any model of Cyberlight Ecodome.



*Figure 3-2. You can use Ecodome model Cyberlight 208-230 with Cyberlight models CBL-01, CL Litho, CBL-CX or CL Litho, but **not** with Cyberlight model CBL-SV or SV Litho.*

Mounting Precautions

You should use three people to mount each Cyberlight fixture: two people to hold the fixture while it is being secured in place, and one person to secure the fixture to Ecodome.

Always stand on a firm, stable surface and *do not try to lift the fixture yourself to secure it to Ecodome.*

Overview of Procedures

Installing Cyberlight in Ecodome consists of five basic steps:

- **“Preparing the Cyberlight Fixture” on page 3-4:** Before installing the Cyberlight fixture in Ecodome, you need to remove the fixture’s yoke and two handles.
- **“Installing Cyberlight” on page 3-11:** Installing the metalwork in Ecodome and mounting Cyberlight on the metalwork.
- **“Connecting the Cabling” on page 3-17:** Connecting DMX and power cabling.
- **“Final Component Assembly” on page 3-24:** Installing the air deflector on the blower fan, placing labels on the housings and positioning Cyberlight for use in Ecodome.
- **“Final Assembly” on page 3-33:** Assembling the base, housings, and dome.

Preparing the Cyberlight® Fixture

This section explains how to prepare the Cyberlight fixture before installing it in Ecodome by performing the following actions:

- Removing the Rear Handles
- Removing the Cyberlight Fixture Yoke

Cette section explique comment effectuer les tâches suivantes avant d'installer l'appareil d'éclairage Cyberlight dans l'Ecodome:

- Retirer les poignées arrière
- Retirer la culasse de l'appareil d'éclairage Cyberlight

Dieser Abschnitt enthält Anleitungen für die folgenden Verfahren, die vor der Installation von Cyberlight in den Ecodome durchzuführen sind:

- Entfernen der hinteren Griffe
- Entfernen des Cyberlight-Leuchtenjochs

Questo capitolo spiega come effettuare le operazioni elencate qui sotto prima dell'installazione di Cyberlight nell'Ecodome:

- Rimozione delle impugnature posteriori
- Rimozione della staffa a U dell'apparecchiatura Cyberlight

Esta sección explica cómo realizar las siguientes acciones, antes de proceder a la instalación del Cyberlight en el Ecodome:

- Retire las manillas traseras
- Retire el soporte de sujeción del Cyberlight

Removing the Rear Handles

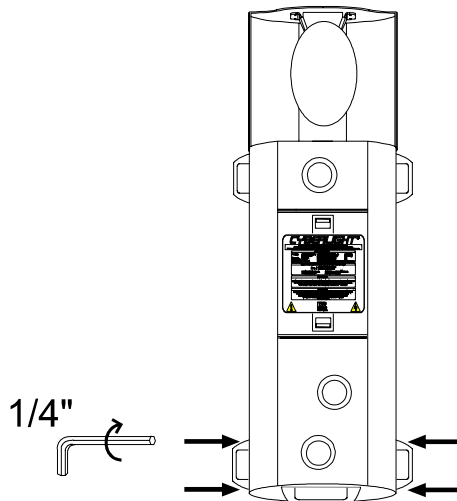
Use a 1/4" allen wrench to remove the four screws that secure the rear handles to Cyberlight:

Utilisez une clé hexagonale coudée de 1/4 pouce pour retirer les quatre vis fixant les poignées arrière au Cyberlight:

Mit einem 1/4-Zoll-Inbusschlüssel die vier Schrauben entfernen, mit denen die hinteren Griffe am Cyberlight befestigt sind:

Con una chiave per brugole da 1/4 di pollice, rimuovere le quattro viti che fissano le impugnature posteriori all'apparecchiatura Cyberlight:

Utilice una llave de barra hexagonal (llave Allen) de 1/4 de pulgada para sacar los cuatro tornillos que sujetan las manillas traseras del Cyberlight:



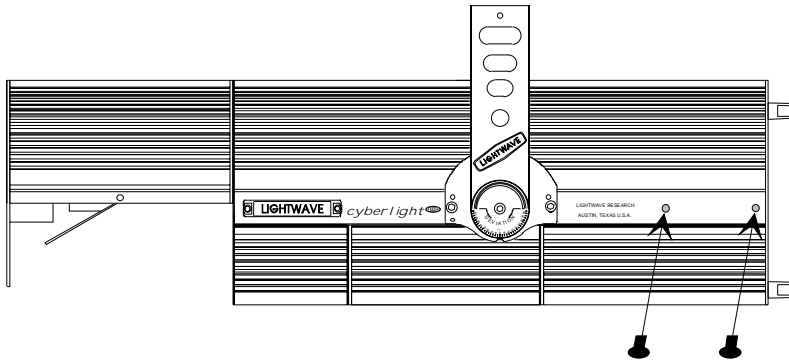
Place the four handle seals shipped with Ecodome over the four handle holes:

Placez les quatre caches d'obturation livrés avec l'Ecodome sur les quatre trous prévus pour les poignées:

Die Griffdichtungen, die im Lieferumfang von Ecodome enthalten sind, in die vier Grifföffnungen einsetzen:

Inserire i quattro tappi spediti con l'Ecodome nei quattro fori delle impugnature:

Coloque las cuatro juntas de manilla que han sido embaladas con el Ecodome, sobre los orificios de las cuatro manillas:



Removing the Cyberlight® Fixture Yoke

This section explains how to remove the Cyberlight fixture yoke and yoke plates.

Cette section explique comment retirer la culasse et les chaperons de culasse de l'appareil d'éclairage Cyberlight.

Dieser Abschnitt beschreibt das Verfahren zum Entfernen des Cyberlight-Leuchtenjochs und der Jochplatten.

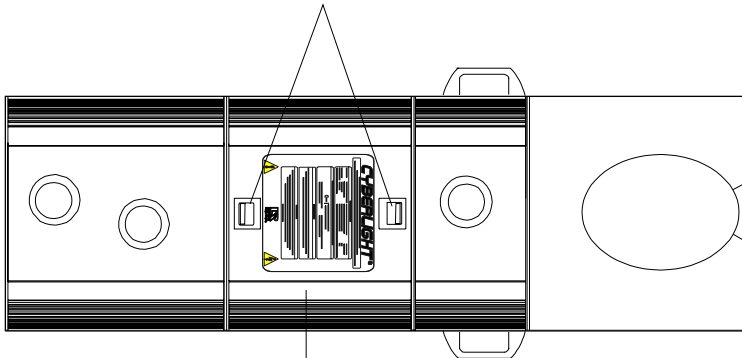
La presente sezione spiega come rimuovere la staffa a U dell'apparecchiatura Cyberlight e le rispettive piastre.

Esta sección explica cómo retirar el soporte de sujeción del Cyberlight y las placas de soporte.

1

Remove the center access door:
Retirez la porte d'accès centrale:
Die mittlere Zugriffstür entfernen:
Rimuovere lo sportello di accesso centrale.
Retire la compuerta de acceso central:

Slide these two latches inward
Faites coulisser ces deux mentonnets vers l'intérieur
Die zwei Riegel nach innen schieben
Fare scorrere verso l'interno questi due ganci
Deslice estos dos pestillos hacia adentro



Center access door
Porte d'accès centrale
Mittlere Zugriffstür
Sportello di accesso centrale
Compuerta de acceso central

2

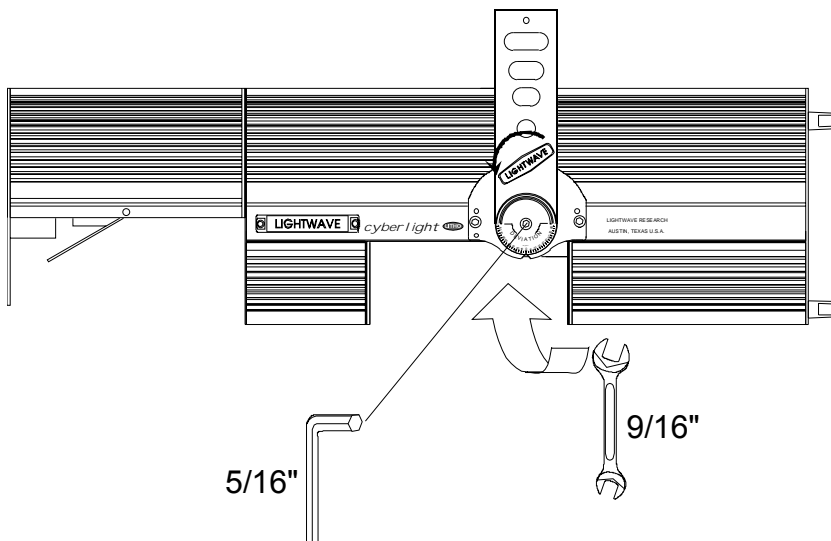
Use a 5/16" allen wrench to remove the center allen screw and use a 9/16" wrench to remove the locknuts inside the fixture. Loosen the T-handle on each side of the fixture.

Utilisez une clé hexagonale coudée de 5/16 pouce pour retirer la vis Allen à tête hexagonale du centre et une clé de 9/16 pouce pour retirer les contre-écrous à l'intérieur de l'appareil d'éclairage. Desserrez la poignée en forme de T de chaque côté de l'appareil.

Mit einem 5/16-Zoll-Inbusschlüssel die mittige Hohlkopfschraube entfernen und mit einem 9/16-Zoll-Schraubenschlüssel die in der Leuchte befindliche Gegenmutter entfernen. Die T-Griffe auf beiden Seiten der Leuchte lösen.

Con una chiave per brugole da 5/16 di pollice, rimuovere la brugola centrale e quindi togliere i controdadi all'interno dell'apparecchiatura con una chiave da 9/16 di pollice. Allentare le impugnature a T ai lati dell'apparecchiatura.

Utilice una llave de barra hexagonal de 5/16 de pulgada para retirar el tornillo Allen central y utilice una llave de 9/16 de pulgada para sacar las contratuercas que están dentro del aparato. Afloje las empuñaduras en



3

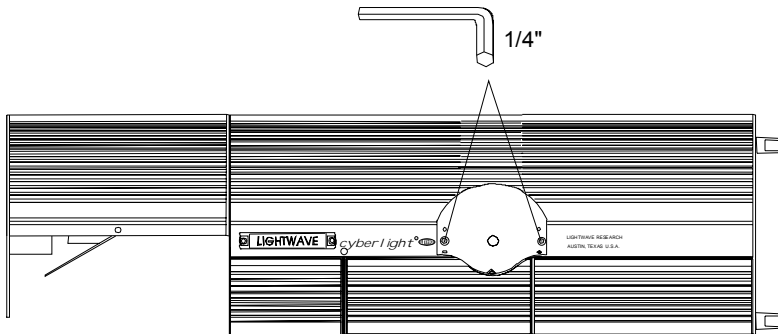
Remove the yoke from the fixture and replace the center access door. Remove the two remaining allen screws securing the yoke plate to each side of the fixture:

Retirez la culasse de l'appareil d'éclairage et remettez la porte d'accès centrale en place. Retirez les deux vis Allen à tête hexagonale restantes qui retiennent le chaperon de culasse à l'appareil:

Das Joch von der Leuchte entfernen und die mittlere Zugriffstür wieder einsetzen. Die restlichen zwei Hohlkopfschrauben entfernen, mit denen die Jochplatte an der Leuchte befestigt ist:

Rimuovere la staffa a U dall'apparecchiatura e reinstallare lo sportello di accesso centrale. Rimuovere le due brugole rimanenti, che fissano la piastra della staffa all'apparecchiatura:

Separar el soporte del aparato y vuelva a colocar la compuerta de acceso central. Retire los dos tornillos Allen que aun mantienen conectada la placa de soporte al aparato.



Note Do not replace the two locknuts inside the fixture.

4

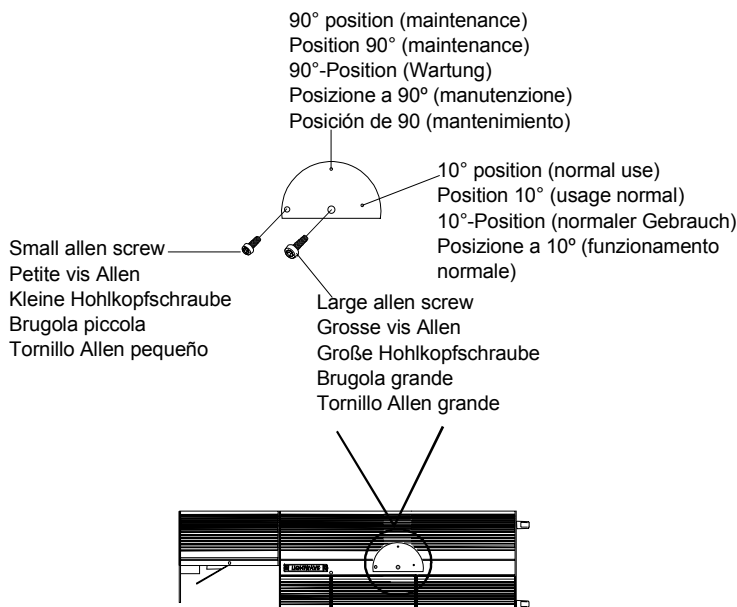
Replace the two Cyberlight yoke plates with the two adapter plates shipped with Ecodome. Fully tighten the small allen screw, but *do not fully tighten the large allen screw.*

Remplacez les deux chaperons de culasse de l'appareil d'éclairage Cyberlight par les deux chaperons adaptateurs livrés avec l'Ecodome. Serrez à fond la petite vis Allen à tête hexagonale, mais *ne serrez pas complètement la grosse vis Allen.*

Die zwei Cyberlight-Jochplatten durch die zwei Adapterplatten ersetzen, die im Lieferumfang von Ecodome enthalten sind. Die kleine Hohlkopfschraube anziehen, aber *nicht die große Hohlkopfschraube.*

Sostituire la due piastre della staffa a U di Cyberlight con le due piastre di adattamento spedite con l'Ecodome. Serrare bene la brugola piccola ma *non serrare completamente quella grande.*

Reemplace las dos placas de soporte del Cyberlight con las dos placas adaptadoras embaladas con el Ecodome. Apriete al máximo el tornillo Allen pequeño, pero *apriete sólo suavemente los tornillos Allen grandes.*



Note You will have two 1/4" allen screws left over.

Installing Cyberlight®

This section explains how to install the metal supports for the Cyberlight fixture and how to install Cyberlight onto the supports.

Cette section explique comment installer les supports métalliques pour l'appareil d'éclairage Cyberlight et comment installer celui-ci dans les supports.

Dieser Abschnitt beschreibt das Verfahren zur Installation der Metallstützen für die Cyberlight-Leuchte sowie das Verfahren zur Installation von Cyberlight auf den Stützen.

La presente sezione spiega come installare i supporti di metallo per l'apparecchiatura Cyberlight e come montare Cyberlight su tali supporti.

Esta sección explica cómo instalar los soportes metálicos para el aparato Cyberlight y cómo instalar el Cyberlight en los soportes.

1

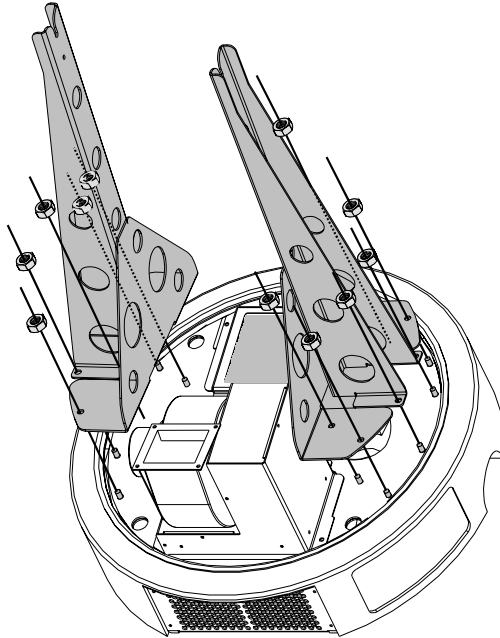
Secure the supports to the Ecodome base with twelve 3/8" hex nuts (six on each side), using your 9/16" ratchet and deep socket. *Make sure all nuts are fully tightened before proceeding.*

Fixez les supports du socle Ecodome avec les douze écrous hexagonaux de 3/8 pouce (six de chaque côté), à l'aide de votre clé à cliquet et de votre clé à douille. *Assurez-vous que tous les écrous sont complètement serrés avant de continuer.*

Die Stützen mit zwölf 3/8-Zoll-Sechskantmutter (jeweils sechs pro Seite) am Ecodome befestigen. Hierzu Ihre Sperrklinke und die tiefe Fassung verwenden. *Bevor das Verfahren fortgesetzt wird, ist sicherzustellen, daß alle Muttern ganz angezogen sind.*

Con un cricchetto e una chiave a tubo profonda, fissare i supporti alla base dell'Ecodome con dodici dadi esagonali da 3/8 di pollice (sei per lato). *Accertarsi che tutti i dadi siano ben serrati prima di proseguire.*

Fije los soportes a la base del Ecodome con doce tuercas hexagonales de 3/8 de pulgada (seis en cada lado) usando su llave de trinquete con cubo profundo. *Asegúrese de que todas las tuercas estén apretadas al máximo antes de continuar.*



2

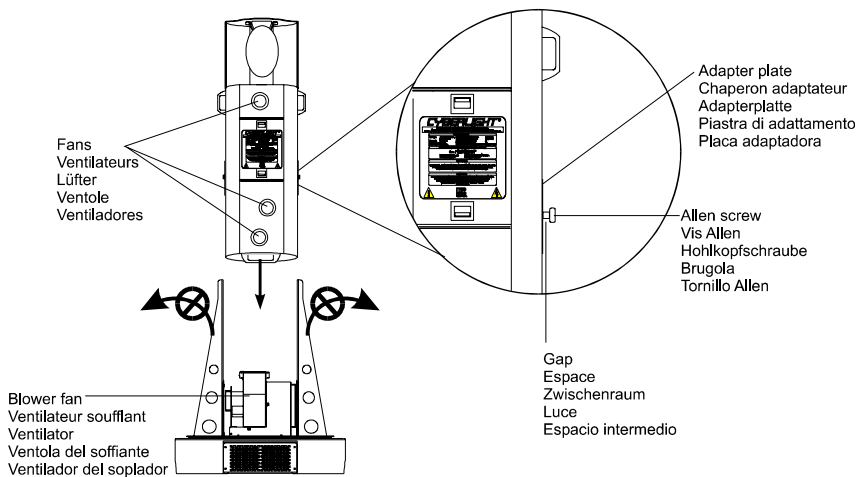
Use at least two other people to help lift Cyberlight onto the supports. Orient the fixture with the fans over the blower fan, as shown. Slide the 5/16" allen screws over the support brackets.

Faites-vous aider d'au moins deux autres personnes pour soulever l'appareil d'éclairage Cyberlight et le placer sur les supports. Orientez l'appareil de manière à ce que les ouvertures des ventilateurs soient alignées avec le corps du ventilateur, comme illustré. Faites glisser les vis Allen de 5/16 pouce sur les supports.

Die Cyberlight-Leuchte mit Hilfe von mindestens zwei anderen Personen auf die Stützen setzen. Die Lüfter der Leuchte wie abgebildet mit dem Ventilator ausrichten. Die 5/16-Zoll-Hohlkopfschrauben über die Stützhalterungen schieben.

Facendosi aiutare da almeno due persone, sollevare l'apparecchiatura Cyberlight e adagiarla sui supporti. Orientare l'apparecchiatura in modo che le ventole si trovino sul soffiante, come mostrato. Fare scorrere le brugole da 5/16 di pollice sulle staffe di supporto.

Serán necesarias al menos dos personas más para levantar el Cyberlight y colocarlo en los soportes. Coloque el aparato de manera que los ventiladores queden sobre el soplador, según se indica. Deslice los tornillos Allen de 5/16 de pulgada sobre las abrazaderas de soporte.



3

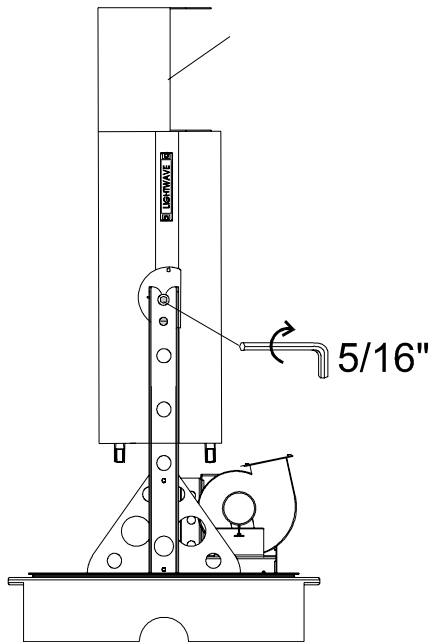
Use a 5/16" allen wrench to fully tighten the allen screws on both sides of the fixture.

Utilisez une clé hexagonale coudée de 5/16 pouce pour serrer complètement les vis Allen de chaque côté de l'appareil.

Die Hohlkopfschrauben auf beiden Seiten der Leuchte mit einem 5/16-Zoll-Inbusschlüssel fest anziehen.

Con una chiave per brugole da 5/16 di pollice, serrare bene le brugole su entrambi i lati dell'apparecchiatura.

Utilice una llave de barra hexagonal (llave Allen) de 5/16 de pulgada para apretar al máximo los tornillos Allen en ambos lados del aparato.



4

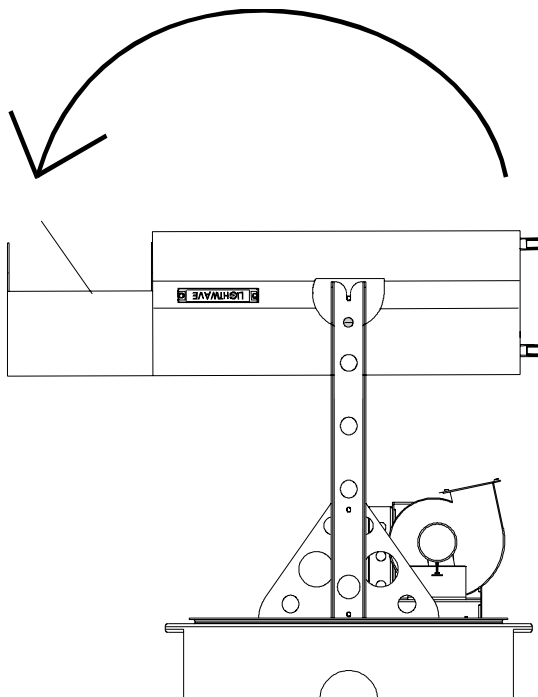
Rotate the fixture to the 90° (maintenance) position, as shown below.

Faites pivoter le projecteur en position de 90° (maintenance), comme illustré ci-dessous.

Die Leuchte in die 90°- (Wartungs-) Position drehen (wie nachstehend abgebildet).

Ruotare l'apparecchiatura a 90° (in posizione di manutenzione), come mostrato sotto.

Gire el aparato hasta la posición de 90° (posición de mantenimiento), según se muestra a continuación.



5

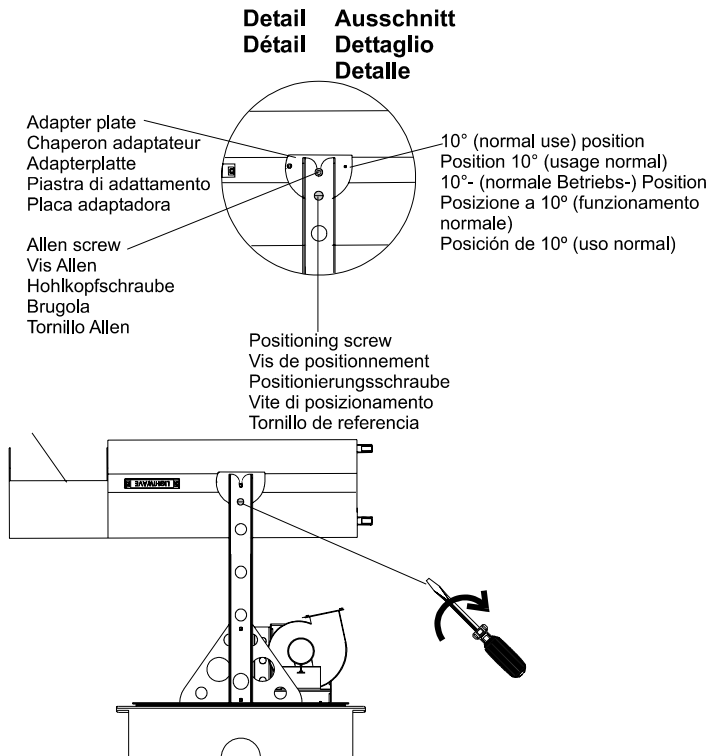
Finger-tighten the positioning screws into the holes on each side of the adapter plate, then fully tighten both screws using a flat head screwdriver.

Desserrez la vis de positionnement de chaque côté de l'Ecodome.

Die Positionierungsschrauben fingerfest in den Gewinden zu beiden Seiten der Adapterplatte andrehen, dann beide Schrauben mit einem normalen Flachschaubenzieher anziehen.

Serrare con le dita le viti di posizionamento nei fori su ciascun lato della piastra di adattamento, quindi serrare completamente entrambe le viti utilizzando un cacciavite a testa piatta.

Apriete con los dedos los tornillos de referencia en los agujeros a cada lado de la placa del adaptador, luego apriete totalmente ambos tornillos utilizando un destornillador de cabeza plana.

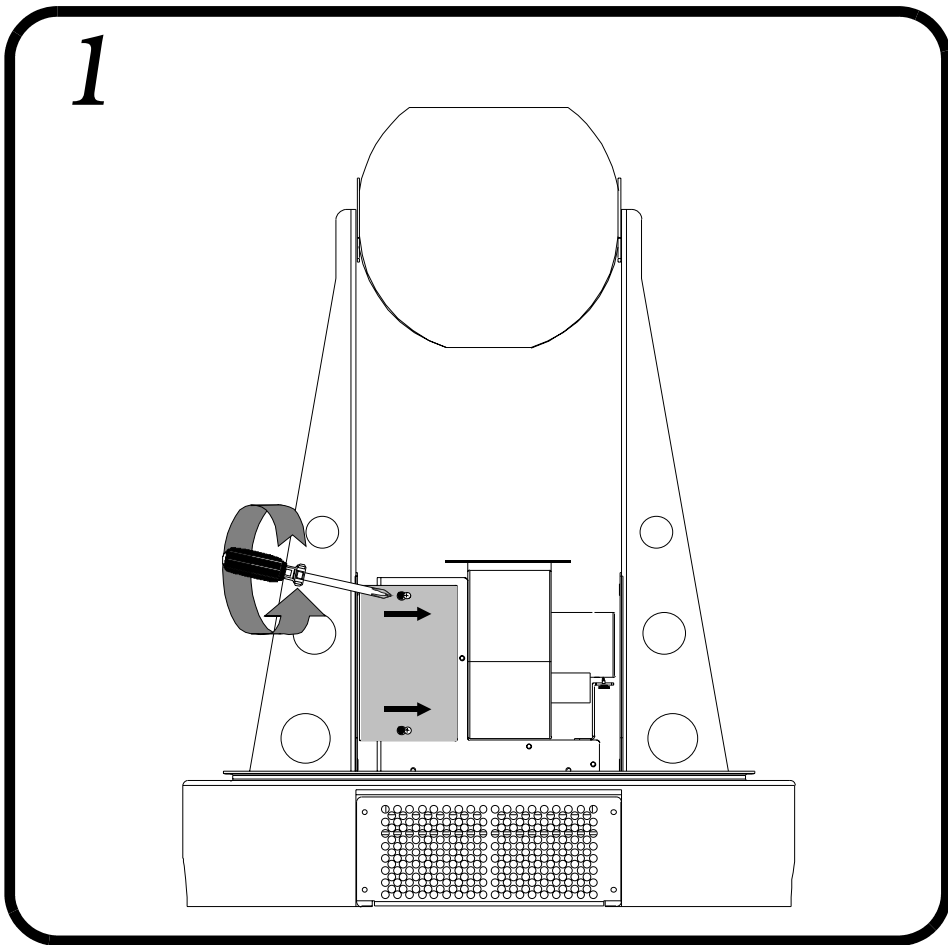


Connecting the Cabling

This section describes how to connect the power and DMX (data) cabling to the fixture in Ecodome. This procedure is to be followed by a *qualified electrician ONLY!*

IMPORTANT The cores in the Cyberlight fixture mains lead are colored in accordance with the following code:

- **green and yellow:** earth
- **blue:** neutral
- **brown:** live



2

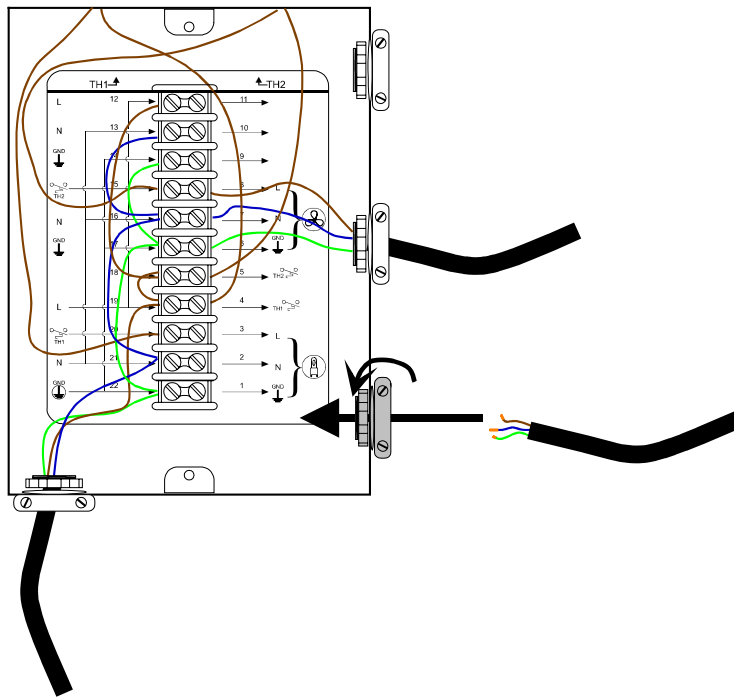
Loosen the two screws on the cable clamp. Insert the Cyberlight line cord through the connector:

Desserrez les deux vis sur la bride de fixation du câble. Insérez le cordon du projecteur Cyberlight dans le connecteur:

Die zwei an der Kabelklemme befindlichen Schrauben lockern. Das Cyberlight-Leitungskabel durch den Anschluß führen:

Allentare le due viti sul morsetto del cavo. Inserire il cavo di linea di Cyberlight attraverso il connettore:

Instale el cable eléctrico de línea del Cyberlight según se muestra:



3

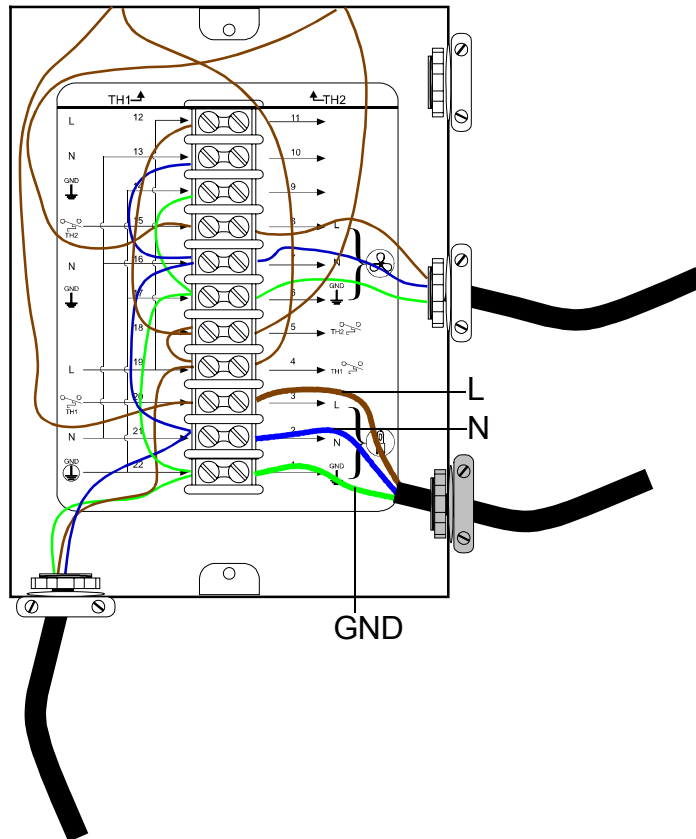
Wire the Cyberlight line cord as shown:

Raccordez le cordon du projecteur Cyberlight comme suit:

Das Cyberlight-Leitungskabel wie nachfolgend abgebildet verdrahten:

Effettuare i collegamenti del cavo di linea di Cyberlight come illustrato:

Instale el cable eléctrico de línea del Cyberlight según se muestra:



4

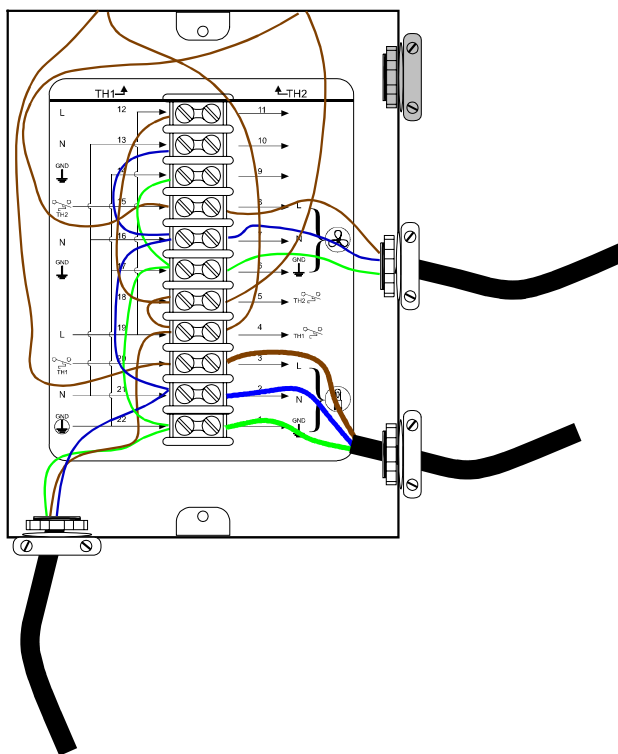
Optional. Wire an optional High End Systems-approved accessory into the “Accessory” position:

Facultatif. Raccordez un accessoire en option agréé High End Systems, à la position "Accessory":

Optional. Ein Optionales von High End System genehmigtes Zubehörgerät kann am Zubehöranschluß (Accessory) verdrahtet werden:

Facoltativo. Collegare un accessorio approvato dalla High End Systems nella posizione recante l'etichetta "Accessory":

Opcional. Conecte un accesorio opcional aprobado por High End Systems en la posición marcada "Accessory" ("Accesorio"):



Caution

Do not install an accessory in Ecodome unless you first contact High End Systems Customer Service. See the section titled “Getting Help” on page Intro-4.

5

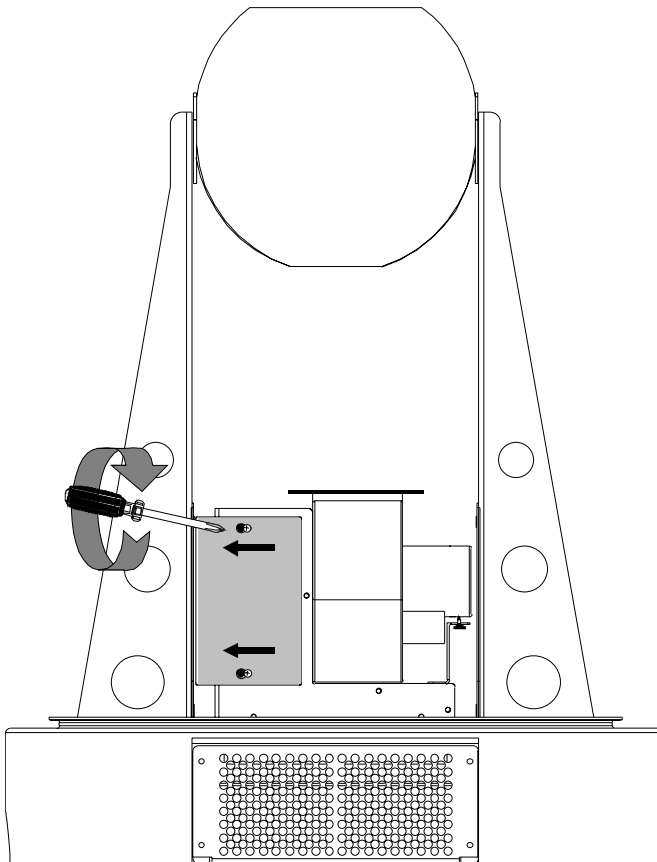
Replace the circuit box door:

Remettez la porte de la boîte de circuit en place:

Die Abdeckplatte des Schalterkastens wieder befestigen:

Richiudere lo sportello dei circuiti elettrici:

Monte la compuerta de la caja de circuitos:



Connecting DMX Cabling

This section describes how to connect DMX (control) cabling to Cyberlight.

Cette section décrit comment connecter le câblage de DMX (Contrôle) au projecteur Cyberlight.

Dieser Abschnitt beschreibt den Anschluß des Cyberlight an die DMX- (Steuer-) Kabel.

La presente sezione descrive il collegamento del cavo di controllo DMX a Cyberlight.

Esta sección describe cómo conectar cables DMX (de control) al Cyberlight.

1

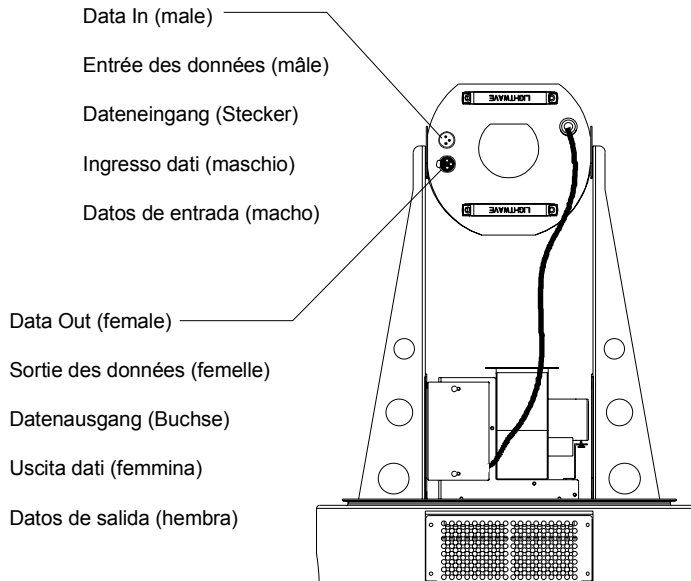
Locate the two DMX (data) ports:

Localisez les deux ports de DMX (données):

Die beiden DMX- (Daten-) Anschlüsse ausfindig machen:

Individuare le due porte dei dati DMX:

Localice los dos puertos DMX (de datos):



2

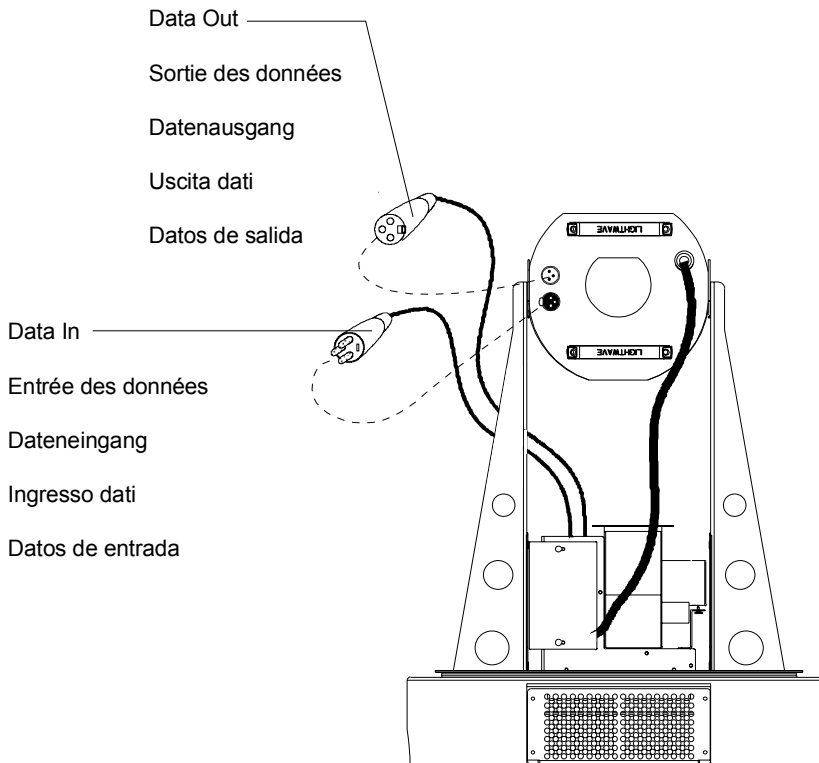
Connect the male DMX cable to the fixture's Data Out port and the female DMX cable to the fixture's Data In port:

Connectez le câble DMX mâle au port Sortie des données du projecteur et le câble DMX femelle au port Entrée des données du projecteur:

Das männliche DMX-Kabelende an die Datenausgangsbuchse und das weibliche DMX-Kabelende an die Dateneingangsbuchse der Leuchte anschließen.

Collegare il cavo DMX maschio alla porta di uscita dati dell'apparecchiatura e il cavo DMX femmina alla porta di ingresso dati dell'apparecchiatura.

Conecte el cable DMX macho al puerto de Datos de salida del accesorio y el cable DMX hembra al puerto de Datos de entrada del accesorio.



Final Component Assembly

This section explains how to assemble the final components before putting Ecodome into use.

Cette section explique comment assembler les composants finaux avant d'utiliser l'Ecodome.

Dieser Abschnitt erläutert, wie die Endkomponenten vor dem Einsatz von Ecodome zusammengesetzt sind.

La presente sezione spiega come assemblare i componenti finali prima dell'azionamento dell'Ecodome.

Esta sección explica cómo realizar el montaje de los componentes finales antes de comenzar a utilizar el Ecodome.

Positioning Cyberlight

This section shows how to move Cyberlight to the 10° (normal use) position.

Cette section explique comment orienter l'appareil d'éclairage Cyberlight sur la position 10° (usage normal).

Dieser Abschnitt zeigt, wie Cyberlight in die 10°- (normale Betriebs) Position zu drehen ist.

La presente sezione descrive come portare l'apparecchiatura Cyberlight alla posizione a 10° (funzionamento normale).

Esta sección muestra cómo mover el Cyberlight a la posición de 10° (uso normal).

1

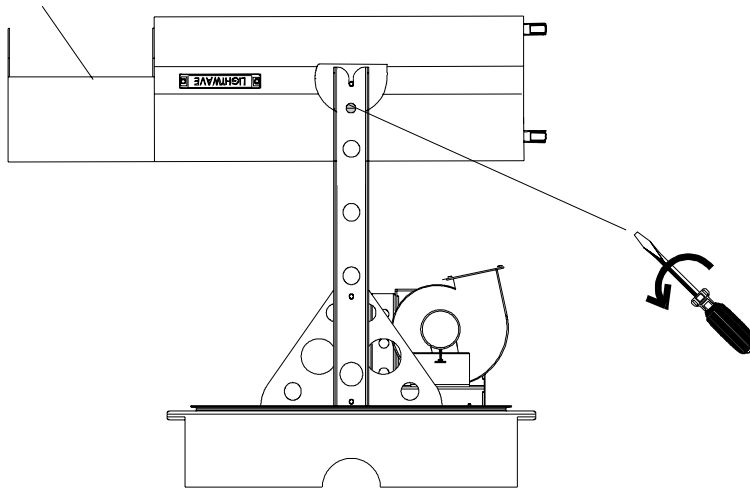
Loosen the positioning screw on each side of Ecodome.

Desserrez la vis de positionnement de chaque côté de l'Ecodome.

Die Positionierungsschraube zu beiden Seiten des Ecodomes lösen.

Allentare la vite di posizionamento su ciascun lato di Ecodome.

Suelte el tornillo de referencia a cada lado del Ecodome.



2

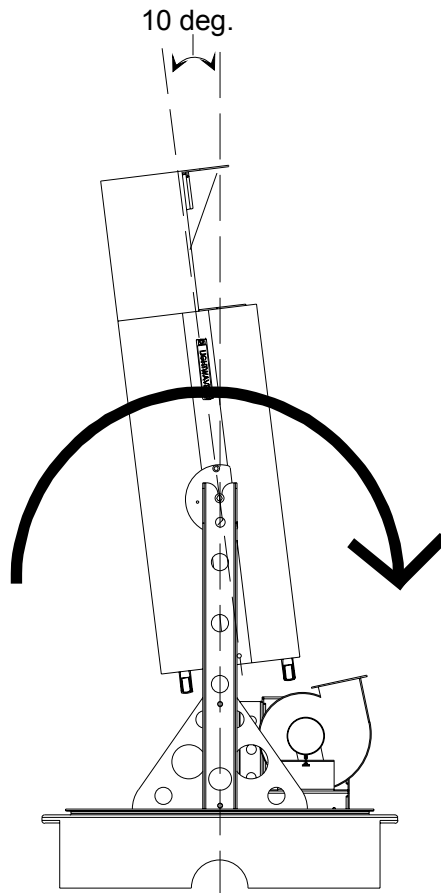
Rotate the fixture to the 10° (normal use) position, as shown below:

Faites pivoter le projecteur en position de 10° (usage normal), comme illustré ci-dessous:

Die Leuchte in die 10°- (normale Betriebs) Position drehen (wie nachstehend abgebildet):

Ruotare l'apparecchiatura a 10° (funzionamento normale), come mostrato sotto:

Gire el aparato hasta la posición de 10° (uso normal), según se muestra a continuación:



3

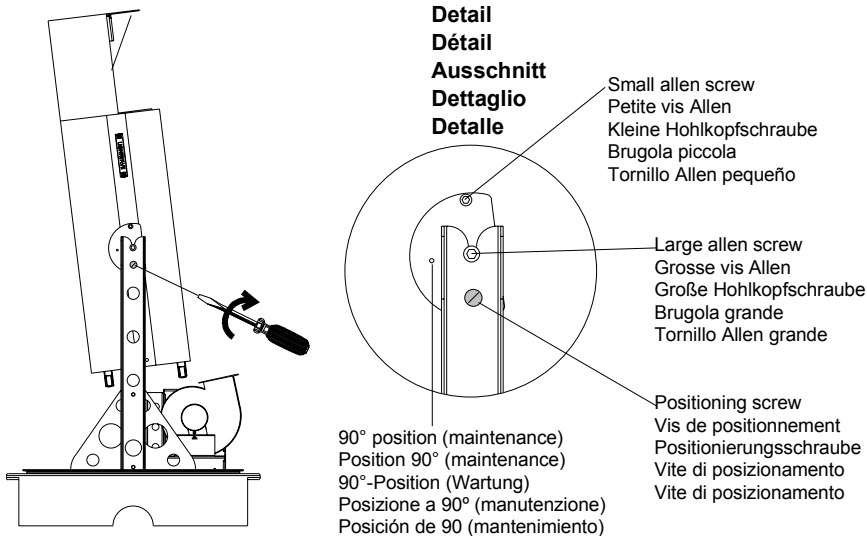
When you feel the positioning screw enter the hole on the adapter plate, finger-tighten the positioning screws on both sides of the fixture. Then fully tighten both positioning screws using a flat head screwdriver.

Lorsque vous sentez que la vis de positionnement est entrée dans le trou du chaperon adaptateur, serrez avec les doigts les vis se trouvant de chaque côté de l'appareil d'éclairage. Puis serrez complètement les deux vis de positionnement à l'aide d'un tournevis à tête plate.

Wenn Sie merken, daß sich die Positionierungsschraube in der Öffnung der Adapterplatte befindet, diese auf beiden Seiten der Leuchte zuerst von Hand anziehen. Die Positionierungsschrauben anschließend mit Hilfe eines Flachkopfschraubenziehers fest anziehen.

Quando si avverte che le viti di posizionamento ai lati dell'apparecchiatura si inseriscono nei fori delle piastre di adattamento, avvitarle a mano e quindi serrarle bene con un cacciavite a lama.

Cuando perciba la entrada del tornillo de referencia en la placa adaptadora, apriete los tornillos de referencia manualmente en ambos lados del aparato. Después apriete al máximo ambos tornillos de referencia utilizando un destornillador plano.



Installing the Air Deflector

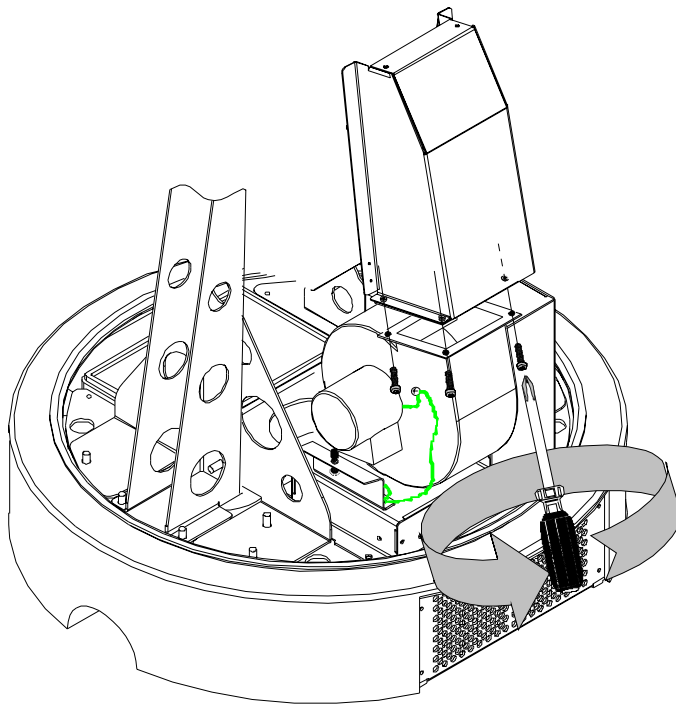
Use three 10-32 Phillips screws to secure the air deflector to the blower fan, as shown below:

Utilisez trois vis cruciformes 10-32 pour fixer le déflecteur d'air au ventilateur, comme illustré ci-dessous:

Verwenden Sie drei 10-32-Kreuzschlitzschrauben, um den Luftdeflektor am Gebläseventilator, wie nachfolgend abgebildet, zu befestigen:

Fissare il deflettore dell'aria alla ventola del soffiante con tre viti a croce da 10-32, come indicato sotto:

Utilice tres tornillos Phillips 10-32 para fijar el deflector de aire al ventilador del soplador, según se muestra a continuación:



Adjusting the Anti-Vibration Thumbscrew

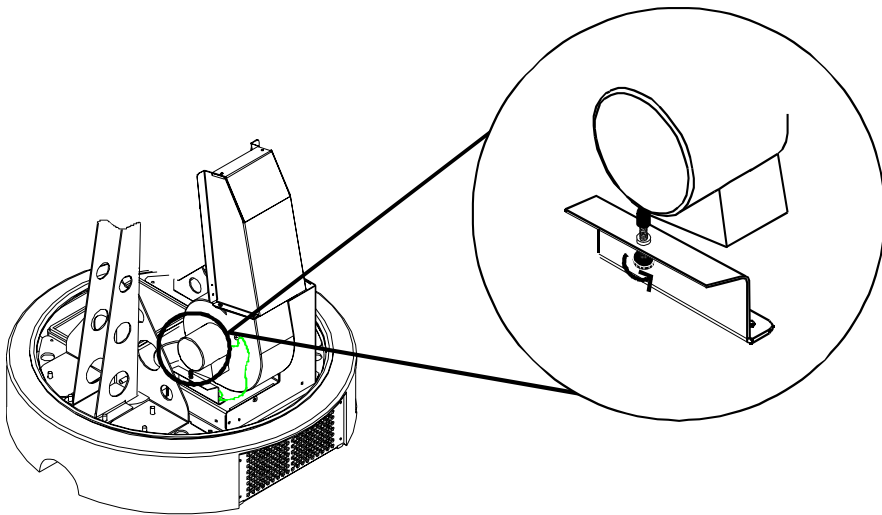
Tighten the anti-vibration thumbscrew as shown below:

Serrez la vis à oreilles anti-vibration comme illustré ci-dessous:

Ziehen Sie die erschütterungsfreie Flügelschraube wie nachfolgend gezeigt fest:

Serrare la vite antivibrazione a testa zigrinata come indicato sotto:

Apriete el tornillo mariposa antivibratorio, como se muestra a continuación:



Applying Labels to the Housing

Four housing labels, shown below, are included in the Ecodome housing box:

Quatre étiquettes de boîtiers, illustrées ci-dessous, sont incluses dans le carton de boîtiers Ecodome:

Vier Gehäusetiketten, wie nachstehend dargestellt, befinden sich im Ecodome-Gehäusepaket:

Quattro etichette di alloggiamento, mostrate sotto, sono incluse nella scatola di alloggiamento Ecodome:

Se incluyen cuatro etiquetas para la carcasa, que se muestran a continuación, en la caja de la carcasa de Ecodome:



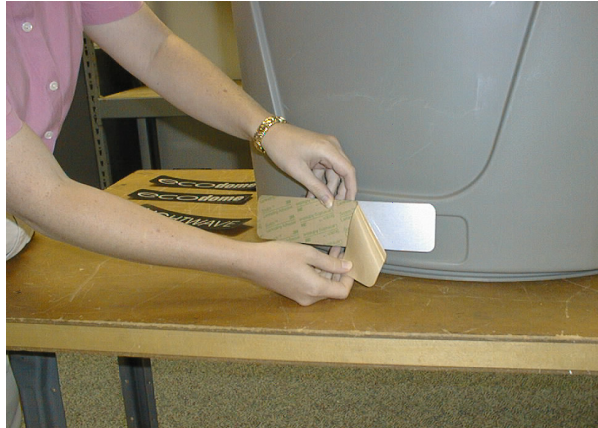
First remove the paper backing from the label as shown below:

Otez d'abord le papier siliconé servant de support à l'étiquette, comme illustré ci-dessous:

Zuerst das Schutzpapier vom Etikett, wie nachfolgend gezeigt, abziehen:

Innanzitutto, rimuovere la protezione di carta dall'etichetta, come indicato sotto:

Retire primero el papel protector que está por detrás de la etiqueta, según se muestra a continuación:



After removing the paper backing, carefully apply the label from left to right, making sure the label fits completely within the recessed area. Use firm, even pressure when applying the label to prevent bubbles or bumps from forming.

Après avoir ôté le papier de support, collez soigneusement l'étiquette, en l'appliquant de gauche à droite et en vous assurant qu'elle recouvre complètement la partie en retrait. Appliquez une pression ferme et égale sur la surface de l'étiquette pour éviter que des bulles ou des bosses ne se forment.

Nachdem Sie das Schutzpapier abgezogen haben, das Etikett vorsicht von links nach recht ankleben und dabei sicherstellen, daß das Etikett vollständig in die vertiefte Fläche paßt. Das Etikett mit festem, aber gleichmäßigem Druck auftragen, um Luftbläschen oder kleine Beulen zu vermeiden.

Dopo aver rimosso la protezione di carta, applicare lentamente l'etichetta da sinistra a destra facendo attenzione che non fuoriesca dall'apposita area incassata. Premere fermamente e in modo uniforme durante l'applicazione dell'etichetta per evitare la formazione di bolle e rilievi.

Tras retirar el papel protector que está por detrás de la etiqueta, coloque la etiqueta cuidadosamente de izquierda a derecha, asegurándose de que la etiqueta quepa completamente en el área designada. Aplique presión firme y uniforme cuando coloque la etiqueta para evitar la formación de burbujas o bultos.



Finished housing(s):

Boîtier(s) assemblé(s):

Fertige(s) Gehäuse:

Alloggiamento(i) finito(i):

Carcasa(s) terminada(s):



Final Assembly

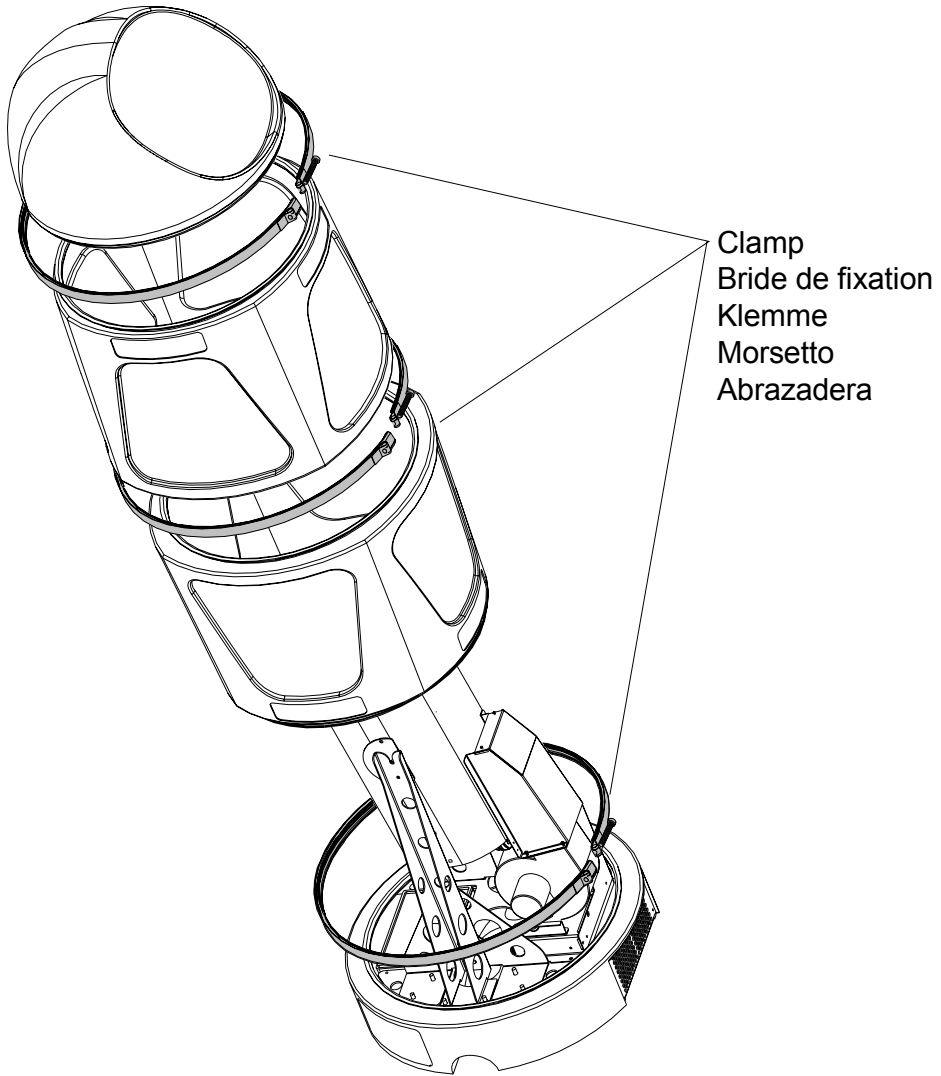
After connecting the power and DMX wiring, assemble the dome, housings and base as shown on the following pages.

Après avoir raccordé le câblage d'alimentation secteur et de transmission des données (DMX), assemblez le dôme, le boîtier et le socle comme indiqué ci-dessous. Des détails supplémentaires sont illustrés à la page suivante.

Nach dem Anschluß der Stromversorgung und der DMX-Verkabelung Dom, Gehäuse und Basis wie auf den folgenden Seiten dargestellt zusammenbauen.

Una volta collegati i cavi di alimentazione e DMX, assemblare la cupolas, l'alloggiamento e la base come indicato di seguito. La pagina seguente presenta ulteriori dettagli.

Después de conectar los cables DMX, ensamble el domo, el alojamiento y la base según se muestra abajo. Se indican más detalles en la página siguiente.



Clamping Housings Together

If you wish to obtain a bit for use with a power driver, see the section titled “Tamper-Resistant Screwdriver Tool” on page 1-5.

Si vous avez besoin d'une mèche pour votre tournevis mécanique, référez-vous à la section “Tournevis inviolable” en page 1-5.

Wenn Sie eine Spitze für einen Elektrobohrer brauchen, bitte auf Seite 1-5 im Abschnitt “Gegen Eingriff gesicherter Schraubendreher” nachschlagen.

Se si desidera ottenere una punta da usare con un trapano elettrico, fare riferimento alla sezione intitolata “Trapano elettrico resistente a manomissioni” a pagina 1-5.

Si desea obtener una broca para usar con un instalador automático, consulte la sección titulada “Destornillador resistente a las manipulaciones indebidas” en la página 1-5.

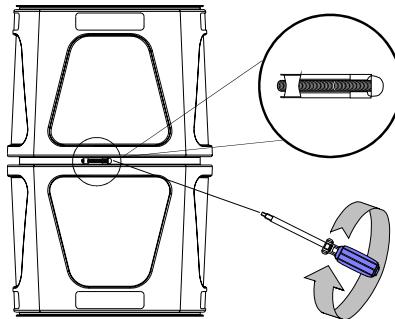
Use the tamper-resistant screwdriver tool to turn the bolt a few turns.

Utilisez le tournevis inviolable pour visser le boulon de quelques tours.

Die Schraube mit dem Gegen Eingriff gesicherter Schraubendreher ein paar Umdrehungen drehen.

Usando un trapano elettrico resistente a manomissioni, avvitare il bullone di alcuni giri.

Utilice el destornillador resistente a las manipulaciones indebidas, para dar unas vueltas al perno.



Rotate the clamps to the position shown below and fully tighten them.

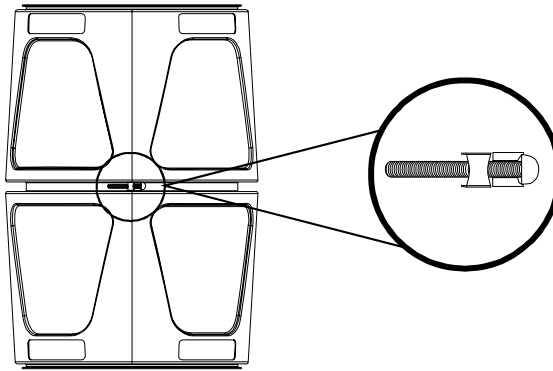
Faites pivoter les brides de fixation dans la position indiquée ci-dessous et serrez-les complètement.

Die Klemme in die nachfolgend abgebildete Position drehen und

anschließend fest anziehen.

Ruotare i morsetti come indicato sotto e serrarli completamente.

Gire las grapas hasta la posición que se muestra a continuación y apriételas al máximo.



To provide added protection against moisture accumulating inside Ecodome, you can fasten the clamps as shown in Figure 3-3:

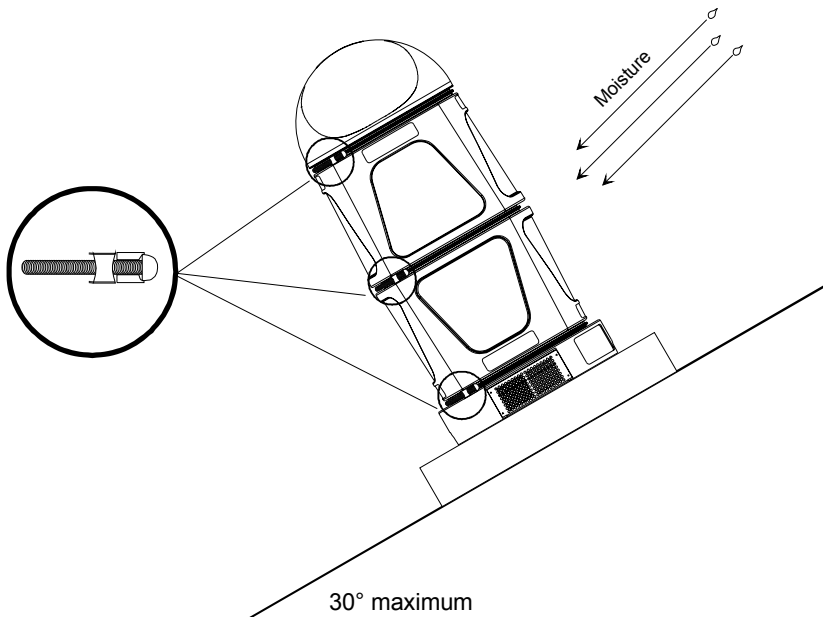


Figure 3-3. Orienting the clamps on Cyberlight Ecodome to make it less likely for moisture to strike the clamp clasps directly.

Finished!

You have now finished assembling Ecodome for Cyberlight. Enable your controller and begin programming Cyberlight for dazzling architectural effects.

See Chapter 4 for maintenance suggestions. Also, contact High End Systems Customer service for other questions not covered here. See the section titled “Getting Help” on page Intro-4.

Branch Mains Power Connections

Figure 3-4 illustrates the electrical connections from the branch mains power supply to Ecodome.

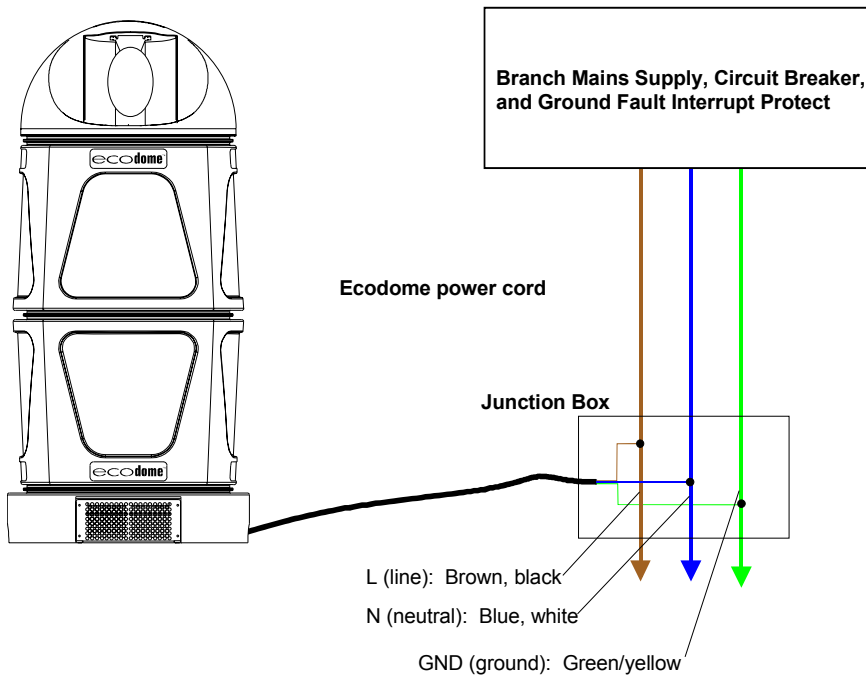


Figure 3-4. The connection between the branch mains power supply to Ecodome.

The Ecodome™ Road Case

The custom-made Keal road case for Ecodome holds a fully-assembled Ecodome and is ideally suited for shipping Ecodome to another location (you must remove the fixture first).

You can ship the fixture either in its original packing material or in its own custom Keal road case (part numbers 19070001 for a single Cyberlight fixture or 19070002 for two Cyberlight fixtures).

Figure 3-5 shows Ecodome installed in the Keal road case (p/n 28070002):



Figure 3-5. Ecodome installed in its Keal road case.



Caution

Shipping Ecodome to another location with a fixture installed could result in damage to both the fixture and to Ecodome.

Chapter 4

Maintenance

Before Performing Maintenance

You must observe the following cautions and warnings when performing any type of service on either Ecodome or the fixture installed in Ecodome:



WARNINGS

- (1) Disconnect power before servicing.**
- (2) Consult the documentation provided with the luminaire you are using for installation instructions and important safety information.**
- (3) Do not operate this equipment without complete lamp enclosure in place or if shields, lenses, or ultraviolet screens are damaged.**
- (4) Change shields, lenses, or ultraviolet screens if they have become visibly damaged to such an extent that their effectiveness is impaired, for example by cracks or deep scratches.**
- (5) Never look directly at the lamp while lamp is on.**

Servicing the Fixture

Consult the documentation provided with the fixture you are using for recommended maintenance procedures (for example, changing a lamp).

Recommended Service Procedures

Some basic recommended service procedures for Studio Color and Cyberlight Ecodome are listed below.

WARNINGS

(1) Ecodome must be installed in accordance with local and national building and electrical codes.



(2) Risk of fire and electric shock. This product is to be installed by a qualified electrician *only*.

Cyberlight Ecodome

- **Lamp replacement:** Remove both housings and the dome together if possible by removing the clamp around the base and lifting both housings and the dome off as one piece. If it is windy, or if you are working above ground level, secure the housings and dome before servicing the fixture. Then place the fixture in the 90° (maintenance) position as described in the section titled “Overview of Operation” on page 3-1. More details can be found in the section titled “Installing Cyberlight” on page 3-11. Lamp replacement procedures can be found in the *Cyberlight User Manual*, p/n 60600016, v2.0 or later.
- **Cleaning or maintaining internal components (mirrors, motors, lithos, dichroics):** Same as “Lamp Replacement” above.
- **Replacing air filters:** Same as “Lamp Replacement” above, except you will need to remove the screws securing the air filter covers. See the section titled “Replacing Air Filters” on page 4-4 for more information.

Studio Color Ecodome

- **Replacing air filters:** Remove the clamp securing the dome to the housing. Remove the screws securing the air filter covers; see the section titled “Replacing Air Filters” on page 4-4 for more information.
- **All other fixture maintenance (replacing lamps, servicing fixture):** Remove the clamp securing the dome to the housing. Then follow the instructions in the *Studio Color User Manual*, p/n 60600061.

Cleaning the Housings

You can use a cloth and non-abrasive household soaps and cleaners to remove built-up dirt from the housings.

Cleaning the Outside of the Dome

You must perform this procedure with the dome *on* the Ecodome unit.

1. If mud or other debris has accumulated on the dome, first spray the dome off with water.
2. After cleaning away built-up debris, use a soft cloth (a wet cotton rag, chamois or cheese cloth are recommended) and water or mild glass cleaner to wipe away dirt and debris from the outer dome surface.



Caution

Do not use paper towels or other abrasive materials to clean the dome; doing so can leave scratches which may impair image quality.

3. *Optional.* As a final cleaning, dampen a soft cloth with denatured rubbing alcohol to thoroughly clean the dome’s surface.

Checking Intake/Exhaust

You must leave at least 24 inches (61 cm) clearance around both the intake and exhaust, located on opposite sides of Ecodome. See Figure 1-5 on page 1-16 for the locations.

Inspect the intake and exhaust for any of the following:

- **Grass clippings or leaves:** Use your hands or a vacuum to clear away leaves and clippings.
- **Water, or soil:** Accumulations of water or soil within 24 inches (61 cm) of Ecodome's intake or exhaust could prevent the fixture from operating properly, or pose a major hazard to the fixture.

If any of the above regularly accumulate around Ecodome, contact High End Systems Customer Service as shown in the section titled "Getting Help" on page Intro-4.

Replacing Air Filters

Check both intake and exhaust air filters whenever you service the fixture (for example, when you change lamps). Air filters must be replaced when they are visibly clogged with dirt.

You must use a Fram[®] CA 5056 air filter. You can purchase CA 5056 air filters from your High End Systems, Inc. dealer distributor (part number 99170003).

Oiling the Blower Motor

The blower motor should be oiled every six months with 10 to 20 drops of SAE 10W or 20W nondetergent oil (ML-type) or with electric motor oil.



Caution

Remove power to Ecodome before following these instructions.

First, use the tamper-resistant screwdriver tool (shipped with Ecodome) to remove the base clamp. (It is not necessary to remove the dome clamp). Carefully lift the housing and dome from the base.

Oil the blower motor as shown in Figure 4-1:

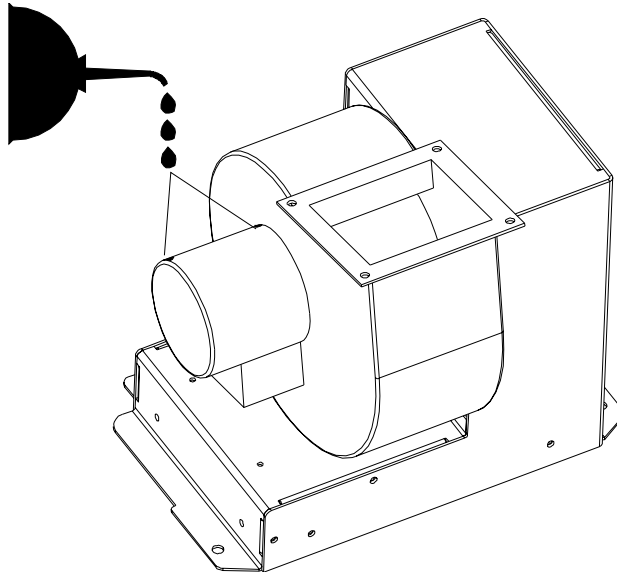


Figure 4-1. Put 10 to 20 drops of the recommended-type oil into each of two holes located on the side of the blower.

Appendix A

Important Safety

Information

English Version

Conditions of Acceptability for ETL/CETL Recognition of Ecodome

Ecodome is an ETL/CETL Recognized Component when the following conditions of acceptability are met:

1. Ecodome must be installed in accordance with local and national building and electrical codes.
2. The foundation on which Ecodome is installed must be at least 6 inches (15 cm) above ground level; in addition, Ecodome must not be operated in low-lying areas subject to flooding or in areas subject to standing water.
3. Ecodome model “Ecodome Studio Color 115” is to be used *only* with Studio Color fixture model “Studio Color 575-S”.
4. Ecodome model “Ecodome Studio Color 230” is to be used *only* with Studio Color fixture model “Studio Color 575-S” or with Studio Color fixture model “Studio Color 575-M”.
5. Ecodome model “Cyberlight 208-230” is to be used *only* with Cyberlight fixture models “CBL-01”, “CL-Litho”, “CBL-CX” and “CX Litho”.

WARNING - For Continued Protection Against Electric Shock

1. Risk of fire and electric shock. This product is to be installed by a qualified electrician *only*.
2. Class I equipment - For continued protection against electric shock connect this equipment to a ground fault protected power source only.
3. Disconnect power before servicing.
4. Do not install an accessory in Ecodome unless you first contact High End Systems Customer Service.
5. **IMPORTANT** The cores in the mains lead are colored in accordance with the following code:
 - **green and yellow:** earth
 - **blue:** neutral
 - **brown:** live
6. THIS EQUIPMENT MUST BE EARTHED.

WARNING - For Continued Safe Operation

1. Consult the documentation provided with the luminaire you are using for installation instructions and important safety information.
2. Ecodome is a recognized component system *only* when used with the fixtures listed in this manual.
3. Shipping Ecodome to another location with a fixture installed could result in damage to both the fixture and to Ecodome.
4. Not for residential use.
5. Change the lamp if it becomes damaged or thermally deformed.

Warning: For Continued Protection Against Exposure To Excessive Ultraviolet (UV) Radiation

1. Do not operate this equipment without complete lamp enclosure in place or if shields, lenses, or ultraviolet screens are damaged.
2. Change shields, lenses, or ultraviolet screens if they have become visibly damaged to such an extent that their effectiveness is impaired, for example by cracks or deep scratches.
3. Never look directly at the lamp while lamp is on.

Installation Instructions

1. Allow at least 24 inches (61 cm) clearance around intake and exhaust. Do not operate in low-lying areas subject to flooding or in areas subject to standing water.
2. If you have Studio Color model 575-M (without a heat sink), orient the LED display side away from the blower air flow.
3. Ecodome cannot be mounted on a wall or upside-down.

Maintenance Instructions

1. Disconnect power before servicing.
2. Check both intake and exhaust air filters whenever you service the fixture (for example, when you change lamps). Air filters must be replaced when they are visibly clogged with dirt.
3. You must use a Fram[®] CA 5056 air filter or the equivalent. You can purchase CA 5056 air filters from your High End Systems, Inc. dealer distributor (part number 99170003).
4. The blower motor should be oiled every six months with 10 to 20 drops of SAE 10W or 20W nondetergent oil (ML-type) or with electric motor oil.

Appendice A IMPORTANT: INFORMATIONS DE SÉCURITÉ

Conditions d'acceptation pour la reconnaissance d'Ecodome par l'ETL/ CETL

Ecodome est un composant reconnu par l'ETL/CETL lorsque les conditions suivantes sont satisfaites :

1. Ecodome doit être installé conformément aux codes de réglementation locaux et nationaux concernant le bâtiment et les installations électriques.
2. Le support de base sur lequel est installé Ecodome doit être à une distance minimum de 15 cm (6 pouces) au-dessus du niveau du sol ; de plus, Ecodome ne doit pas être utilisé dans des zones basses susceptibles d'être inondées ou dans des zones pouvant être submergées sous des eaux stagnantes.
3. Le modèle Ecodome "Studio Color 115" doit être utilisé uniquement avec le modèle de projecteur "575-S".
4. Le modèle "Studio Color 230" doit être utilisé uniquement avec le modèle de projecteur "575-S" ou avec le modèle de projecteur Studio Color "575-M".
5. Le modèle d'Ecodome "Ecodome-Cyberlight 208-230" doit être utilisé *uniquement* avec les modèles de systèmes d'éclairage Cyberlight suivants: "CBL-01", "CL-Litho", "CBL-CX" et "CX Litho".

AVERTISSEMENT – Pour une protection continue contre l'électrocution

1. Risque d'incendie et d'électrocution. Ce produit doit être installé uniquement par un électricien qualifié.
2. Equipement de Classe I – pour une protection continue contre l'électrocution, branchez cet équipement à une source d'alimentation protégée par un interrupteur de mise à la terre.
3. Débranchez l'appareil avant toute intervention de maintenance.
4. N'installez pas d'accessoire dans Ecodome sans contacter d'abord le Service consommateurs de High End Systems.

AVERTISSEMENT – Pour une sécurité d'opération continue

1. Pour lire les instructions d'installation et d'importantes informations de sécurité, consultez la documentation livrée avec l'appareil d'éclairage que vous utilisez.
2. Ecodome est un système modulable qui n'est reconnu que lorsqu'il est utilisé en conjonction avec les projecteurs listés dans ce manuel.
3. Le transport d'Ecodome alors qu'un projecteur est monté sur celui-ci risque d'endommager à la fois le projecteur et le composant Ecodome.
4. Cet appareil n'est pas destiné à un usage domestique.
5. Changer la lampe si elle est endommagée ou thermiquement déformée.

Mise en garde: pour une protection permanente contre des expositions excessives aux rayons ultra violets (UV)

1. Ne pas utiliser cet appareil si le boîtier de la lampe n'est pas complètement fixé ou si les blindages, lentilles, ou écrans ultraviolets sont endommagés.
2. Changer les blindages ou les écrans ultraviolets s'ils sont visiblement endommagés au point que leur efficacité aient été altérée, par exemple par des fissures ou de profondes égratignures.
3. Ne jamais regarder directement la lampe quand celle ci est allumée.

Instructions pour l'installation

1. Laissez un dégagement minimum de 61 cm (24 pouces) autour de l'entrée d'air et de l'échappement. N'utilisez pas l'appareil dans des zones basses susceptibles d'être inondées, ou dans des zones pouvant être submergées sous des eaux profondes et stagnantes.
2. Si vous avez le modèle de projecteur Studio Color 575-M (sans dissipateur de chaleur), orientez le côté affichant la diode électroluminescente de façon à l'éloigner du débit d'air provenant du ventilateur.
3. L'Ecodome ne peut pas être monté sur un mur ou en tête-à-queue.

Instructions pour la maintenance

1. Débranchez l'appareil avant toute intervention de maintenance.
2. Vérifiez le filtre de l'entrée d'air et celui de l'échappement chaque fois que vous effectuez une opération de maintenance sur l'appareil (par exemple, lorsque vous changez une lampe). Les filtres à air doivent être remplacés lorsqu'ils sont visiblement encrassés.
3. Vous devez utiliser un filtre à air FRAMâ CA 5056 ou équivalent. Les filtres à air FRAMâ CA 5056 sont en vente chez les distributeurs agréés High End Systems, Inc. (numéro de pièce 99170003).
4. Le moteur du ventilateur doit être lubrifié tous les six mois avec 10 à 20 gouttes d'huile non détergente (de type ML) SAE 10W ou 20W, ou avec de l'huile pour moteurs électriques.

Anhang A WICHTIGE SICHERHEITSHINWEISE

Anforderung der ETL/CETL-Norm für Ecodome

Ecodome entspricht der Norm einer von ETL/CETL akzeptierten Komponente, wenn die folgenden Anforderungen erfüllt sind:

1. Ecodome muß gemäß der örtlichen und nationalen elektrischen Richtlinien und Bauvorschriften installiert werden.
2. Das Fundament auf welches Ecodome installiert wird, muß sich mindestens 15 cm (6 Zoll) über der Grundgleiche befinden. Außerdem ist Ecodome nicht in tiefgelegenen Gebieten, die Überschwemmungen ausgesetzt sind oder in Gebieten mit stehendem Wasser zu betreiben.
3. Das Ecodome Modell "Studio Color 115" ist nur mit dem Leuchtenmodell "575-S" von Studio Color zu verwenden.
4. Das Ecodome Modell "Studio Color 230" ist nur mit dem Studio Color-Leuchtenmodell "575-S" oder dem Studio Color-Leuchtenmodell "575-M" zu verwenden.
5. Das Ecodome Modell "Ecodome-Cyberlight 208-230" kann nur mit dem Cyberlight-Scheinwerfermodellen "CBL-01", "CL-Litho", "CBL-CX" und "CX Litho" verwendet werden.

WARNUNG – Zum Schutz vor elektrischen Schlägen

1. Feuergefahr und Gefahr eines elektrischen Schlages. Dieses Produkt sollte nur von einem qualifizierten Elektriker installiert werden.
2. Gerät der Klasse I – Zum Schutz vor elektrischen Schlägen ist dieses Gerät an eine mit Erdschluß geerdete Stromversorgung anzuschließen.
3. Vor dem Ausführen von Servicearbeiten ist das Gerät von der Stromversorgung zu trennen.
4. Bevor Zubehörgeräte in Ecodome installiert werden, müssen Sie sich mit der Kundendienstabteilung von High End Systems in Verbindung setzen.

WARNUNG – Zur sicheren Betriebsweise

1. Lesen Sie die Installationsanleitungen und wichtigen Sicherheitshinweise in der Dokumentation zur Leuchte.
2. Ecodome ist nur dann ein der Norm entsprechendes Komponentensystem, wenn es mit den in dieser Dokumentation aufgeführten Leuchten verwendet wird.
3. Der Versand von Ecodome mit einer installierten Leuchte könnte sowohl die Leuchte als auch Ecodome beschädigen.
4. Nicht für den Hausgebrauch bestimmt.
5. Falls die Lampe beschädigt oder durch Wärmeeinwirkung verformt ist, muß sie ausgewechselt werden.

WARNUNG: ZUM SCHUTZ GEGEN ÜBERMÄSSIGE ULTRAVIOLETT (UV)-BESTRAHLUNG

1. Benutzen Sie dieses Gerät nur, wenn das komplette Lampengehäuse fest eingebaut ist; ebenfalls dürfen keine der Schutzabdeckungen, Linsen oder der UV-Schutz Beschädigungen aufweisen.
2. Die Schutzabdeckungen, Linsen und der UV-Schutz müssen ausgewechselt werden, wenn sie sichtlich dermaßen beschädigt sind, daß sie ihre Wirksamkeit einbüßen, z.B. infolge von Rissen oder tiefen Kratzern.
3. Nie direkt in die eingeschaltete Lampe schauen.

Installationsanleitungen

1. Um die Lufteinlaß- sowie um die Luftaustrittsöffnung ist ein Sicherheitsabstand von 61 cm (24 Zoll) erforderlich. Das Gerät nicht in tiefegelegenen Gebieten, die häufig Überschwemmungen ausgesetzt sind oder in Gebieten mit tief stehendem Wasser betreiben.
2. Beim Studio Color-Modell 575-M (ohne Kühlkörper), ist die LED-Anzeige nicht in Richtung der Luftzirkulation des Ventilators auszurichten.
3. Der Ecodome darf nicht an der Wand oder kopfstehend befestigt werden.

Wartungsanleitungen

1. Vor dem Ausführen von Servicearbeiten ist das Gerät von der Stromversorgung zu trennen.
2. Bei der Wartung der Leuchten ist sowohl der Lufteinlaß- als auch der Luftaustrittsfilter zu prüfen (z.B. beim Wechseln der Lampen). Die Luftfilter sind zu ersetzen, wenn sie sichtbar verschmutzt sind.
3. Als Filter ist ein Framâ CA5056 oder ein entsprechender Luftfilter zu verwenden. CA 5056 Luftfilter können bei Ihrem Vertragshändler von High End Systems, Inc. erworben werden (Teile-Nr.: 99170003).
4. Der Lüftermotor ist alle 6 Monate zu ölen. Hierzu 10 bis 20 Tropfen von SAE 10 W, 20 W- Nicht-HD-Öl (Typ ML) oder Elektromotorenöl verwenden.

Appendice A INFORMAZIONI IMPORTANTI DI SICUREZZA

Condizioni per l'omologazione ETL/CETL di Ecodome

Ecodome è un componente omologato ETL/CETL qualora siano rispettate le seguenti condizioni:

1. Ecodome deve essere installato conformemente alle normative edili ed elettriche locali e nazionali.
2. Il luogo di installazione di Ecodome deve essere rialzato dal suolo di almeno 15 cm. Ecodome non deve inoltre essere messo in funzione in aree ribassate dove sussiste il pericolo di inondazione o in zone con presenza di acque morte profonde.
3. Il modello "Studio Color 115" deve essere usato *unicamente* con apparecchiature "575-S".
4. Il modello "Studio Color 230" deve essere usato *unicamente* con apparecchiature "575-S" o "575-M".
5. Il modello Ecodome "Ecodome-Cyberlight 208-230" va usato *unicamente* con le apparecchiature Cyberlight modello "CBL-01", "CL-Litho", "CBL-CX" e "CX-Litho".

AVVERTENZA - Per una protezione continua contro il rischio di scosse elettriche

1. Pericolo di incendio e scosse elettriche. Questo prodotto deve essere installato *solamente* da un elettricista qualificato.
2. Apparecchiatura di classe I - per garantire una continua protezione contro le scosse elettriche, collegare questo dispositivo a una fonte di alimentazione elettrica con messa a terra adeguata.
3. Scollegare dalla corrente prima di effettuare la manutenzione.

AVVERTENZA - Per garantire un funzionamento sicuro e duraturo

1. Fare riferimento alla documentazione acclusa al dispositivo in dotazione per le istruzioni di installazione e le informazioni sulla sicurezza.
2. Ecodome è un sistema di componenti omologato *solamente* quando viene usato con le apparecchiature elencate nel presente manuale.
3. La spedizione di Ecodome con un'apparecchiatura installata potrebbe provocare danni sia all'apparecchiatura sia a Ecodome.
4. Questa apparecchiatura non è per uso domestico.
5. Cambiare la lampada in caso si danneggi o deformi per le alte temperature.

AVVERTENZA: PER PROTEGGERSI CONTRO LE RADIAZIONI DEI RAGGI ULTRAVIOLETTI:

Non usare questa apparecchiatura se il dispositivo di chiusura della lampada non é completamente fissato o se gli schermi protettivi, le lenti, o gli schermi ultravioletti si sono visibilmente danneggiati di maniera tale che la loro efficacia sia stata ridotta --- ad esempio, se vi sono visibili spaccature o graffi profondi. Mai guardare direttamente verso la lampadina quando sia accesa.

Istruzioni per l'installazione

1. Lasciare uno spazio libero di almeno 61 cm attorno ai condotti di ingresso e di scarico. Non operare l'unit  in aree ribassate dove sussiste il pericolo di inondazione o in zone con presenza di acque morte profonde.
2. Se si dispone di Studio Color 575-M (senza dissipatore), orientare il visore a LED dalla parte opposta al flusso d'aria del soffiante.
3. Ecodome non pu  essere montato su una parete o sottosopra.

Istruzioni per la manutenzione

1. Scollegare dalla corrente prima di effettuare la manutenzione.
2. Controllare i filtri dell'aria dei condotti di ingresso e di scarico a ogni intervento di manutenzione (ad esempio, quando si cambiano le lampadine). Questi filtri devono essere cambiati quando appaiono otturati da depositi e sporco.
3. Utilizzare un filtro dell'aria Fram® CA 5056 o equivalente. I filtri CA 5056 sono disponibili presso distributori e rivenditori High End Systems, Inc. (numero di ordinazione 99170003).
4. Il motore del soffiante deve essere oliato ogni sei mesi con 10-20 gocce di olio non detergente SAE 10W o 20W (tipo ML) o con olio per motori elettrici.

APENDICE A INFORMACION IMPORTANTE DE SEGURIDAD

Condiciones de aceptabilidad para el reconocimiento ETL/CETL de Ecodome

Ecodome es un componente reconocido por ETL/CETL cuando se cumplen las condiciones de aceptabilidad siguientes:

1. Ecodome debe instalarse de acuerdo con los códigos locales y nacionales de construcción y electricidad.
2. El cimiento sobre el cual se instale Ecodome debe estar por lo menos a 15 cm (6 pulgadas) sobre el nivel del suelo; además, no debe operarse el Ecodome en áreas bajas susceptibles de ser inundadas o en áreas que puedan sufrir aguas estancadas.
3. El modelo Ecodome llamado "Studio Color 115" debe utilizarse únicamente con el accesorio Studio Color modelo "575-S".
4. El modelo Ecodome llamado "Studio Color 230" debe utilizarse únicamente con el accesorio Studio Color modelo "575-S" o con el accesorio Studio Color modelo "575-M".
5. El modelo de Ecodome "Ecodome-Cyberlight 208-230" debe ser usado únicamente con los modelos de aparato Cyberlight "CBL-01", "CL-Litho", "CBL-CX" y "CX Litho".

ADVERTENCIA: Para una protección constante contra las descargas eléctricas

1. Peligro de incendio y descarga eléctrica. Únicamente un electricista calificado debe instalar este producto.
2. Equipo Clase I. Para una protección constante contra las descargas eléctricas, conecte este equipo únicamente a una fuente de alimentación protegida contra fallas de tierra.
3. Desconecte la alimentación antes de dar servicio.
4. No instale un accesorio en el Ecodome sin antes ponerse en contacto con Servicio a clientes de High End Systems.

ADVERTENCIA: Para una operación segura

1. Consulte la documentación proporcionada con la luminaria que utiliza para obtener las instrucciones de instalación e información importante de seguridad.
2. Ecodome es un sistema de componentes reconocido únicamente cuando se utiliza con los accesorios indicados en este manual.
3. El envío de Ecodome con un accesorio instalado puede dañar tanto al accesorio como al Ecodome.
4. Prohibido su uso en ambientes residenciales.
5. Cambie la lámpara si ésta se avería o deforma por acción térmica.

ADVERTENCIA: PARA PROTECCIÓN CONTINUA CONTRA LA EXPOSICIÓN A RADIACIÓN ULTRAVIOLETA (UV) EXCESIVA

1. No opere este equipo sin tener colocada en su lugar la caja protectora completa de la lámpara o bien, si el blindaje, los lentes o las pantallas ultravioletas están dañadas.
2. Cambie el blindaje, los lentes o las pantallas ultravioleta si nota una avería visible, a tal grado que su eficacia se vea comprometida. Por ejemplo, en el caso de grietas o rayaduras profundas.
3. Jamás mire directamente a la lámpara en tanto ésta esté encendida.

Instrucciones de instalación

1. Deje por lo menos 61 cm (24 pulgadas) de espacio alrededor de la entrada y el escape. No opere en áreas bajas susceptibles a inundaciones o en áreas donde pueda sufrir aguas profundas y estancadas.
2. Si tiene un modelo Studio Color 575-M (sin un disipador de calor), oriente el lado de la pantalla LED (diodo emisor de luz) opuesto al flujo de aire del soplador.
3. El Ecodome no puede montarse en una pared ni boca abajo.

Instrucciones de mantenimiento

1. Desconecte la alimentación eléctrica antes de dar servicio.
2. Revise los filtros de aire de entrada y de escape siempre que dé servicio al accesorio (por ejemplo, cuando cambie lámparas). Los filtros de aire deben reemplazarse cuando presenten obstrucciones de suciedad.
3. Debe utilizar un filtro de aire Fram® CA 5056 o equivalente. Puede adquirir filtros de aire CA 5056 mediante su distribuidor de High End Systems, Inc. (número de pieza 99170003).
4. El motor del soplador debe aceitarse cada seis meses con 10 a 20 gotas de aceite no detergente SAE 10W o 20W (tipo ML) o con aceite de motor eléctrico.

Vigtig Sikkerhedsinformation - DANMARK

Advarsel: Beskyttelse mod elektrisk chock.

Vigtigt!

Lederen med gul/groen isolation maa kun tilsluttes en klemme maerket.



eller

