

PSF16 Channel Power Supply and Filter Pack 0-10V Dimming

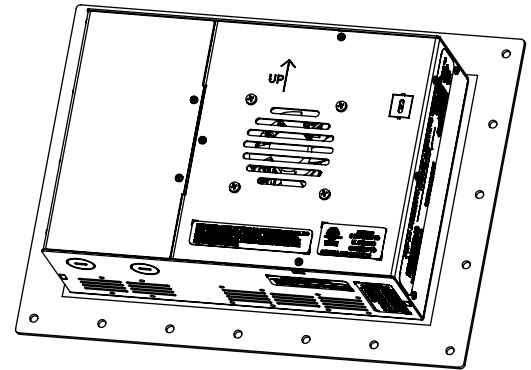
1-05-000184

Important Safety Instructions

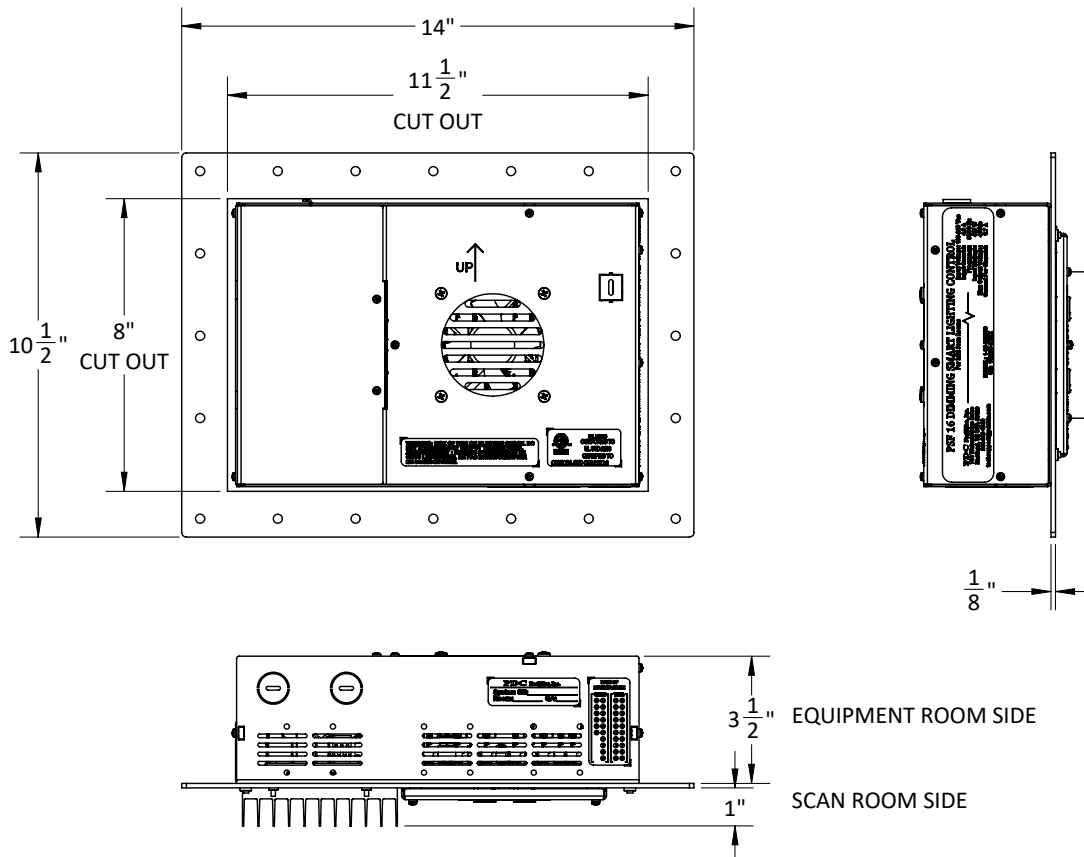
When using electrical equipment, basic safety precautions should always be followed including the following:

Read And Follow All Safety Instructions

- Warning:** This product must be installed in accordance with the NEC or your local electrical code. If you are not familiar with these codes and requirements, consult a qualified electrician. *Avertissement: Ce produit doit être installé conformément au NEC ou à votre code électrique local. Si vous n'êtes pas familier avec ces codes et exigences, consultez un électricien qualifié.*
- Warning:** This equipment is not for use in hazardous combustible atmospheres as defined by the National Electrical Code. *Avertissement: Cet équipement ne doit pas être utilisé dans des atmosphères combustibles dangereuses telles que définies par le Code national de l'électricité.*
- Warning:** This equipment must be installed, operated and serviced only by trained, qualified individuals. *Avertissement: Cet équipement doit être installé, utilisé et réparé uniquement par des personnes formées et qualifiées.*
- These products are recommended for installation in MRI rooms with access from both sides of the wall with a minimum distance of twelve inches around the power unit for any building surface. *Ces produits sont recommandés pour l'installation dans des salles d'IRM avec accès des deux côtés du mur avec une distance minimale de douze pouces autour de l'unité d'alimentation pour toute surface de bâtiment*
- Caution - Risk of shock.** Disconnect all power sources. *Attention - Risque de choc. Déconnecter toutes les sources d'alimentation.*
- This equipment is not suitable for use in locations where children are likely to be present. *Cet équipement ne convient pas pour une utilisation dans des endroits où des enfants sont susceptibles d'être présents.*



Save These Instructions For Future Reference



Installation:

NOTE: The PSF 16 Channel Power Supply and Filter Pack must be orientated so the **AC power Connections are in the equipment room.** The product will be labeled SCAN ROOM SIDE.

Step 1:

Cut a rough opening in the intended mounting surface measuring 11.25" x 8". This Step should be performed by a trained RF Vendor/ Installer.

Step 2:

Note whether the Shielding Material of the wall is facing the Equipment Room or the MRI Room. This will determine how to secure the PSF 16 Channel Power Supply and Filter Pack in place. The flange must be mounted against the shielding material with the supplied gasket in between. Reference **Diagram 1.**

Step 3:

Place the provided gasket along the inner edge of the flange so it is held in place between the flange and the shielding surface. See **Diagram 2.** Be sure the shielding and power supply plate are clean before applying the RF Gasket.

Step 4:

Secure the PSF 16 Channel Power Supply and Filter Pack and gasket in place with the supplied screws using the 20 screw holes located around the perimeter of the flange.

Step 5:

Reference the project specific plans for complete wiring instruction to make the appropriate **Electrical Connections.** Reference **Diagram 4** for instruction on how to open the AC wiring compartment.

Note: Knockouts are provided. Use an appropriately sized connector clamp to secure the wiring entering and leaving the Filter Pack. Additional knockouts may be added if necessary.

Note: A divider will be provided from the factory to separate Class 1 and Class 2 wiring. If using Class 1 wiring, the divider can be removed as shown in **Diagram 3.**

Diagram 1 - Mounting

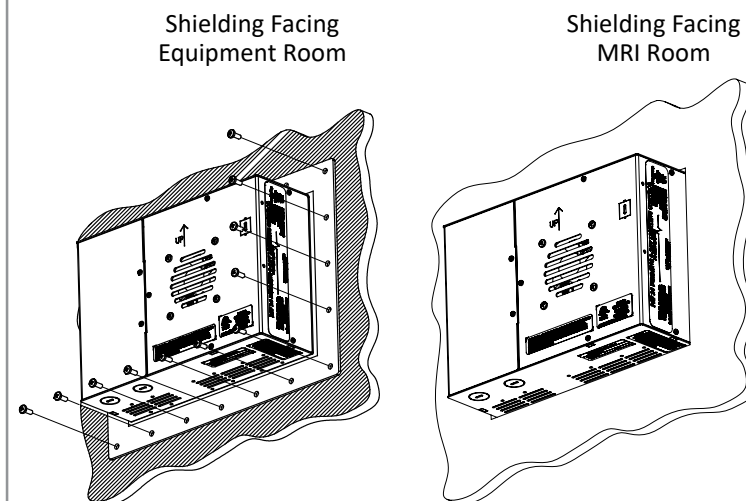


Diagram 2

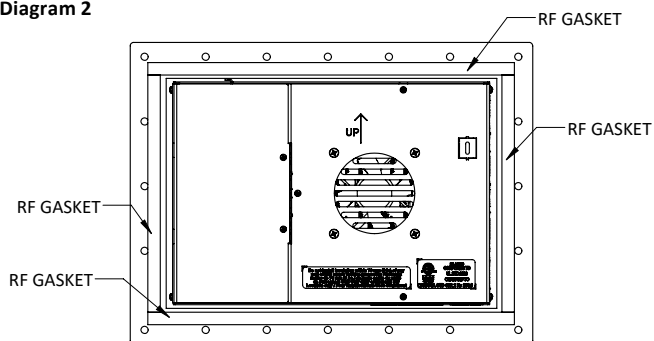


Diagram 3

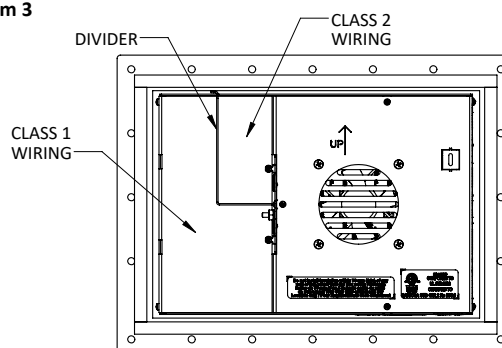
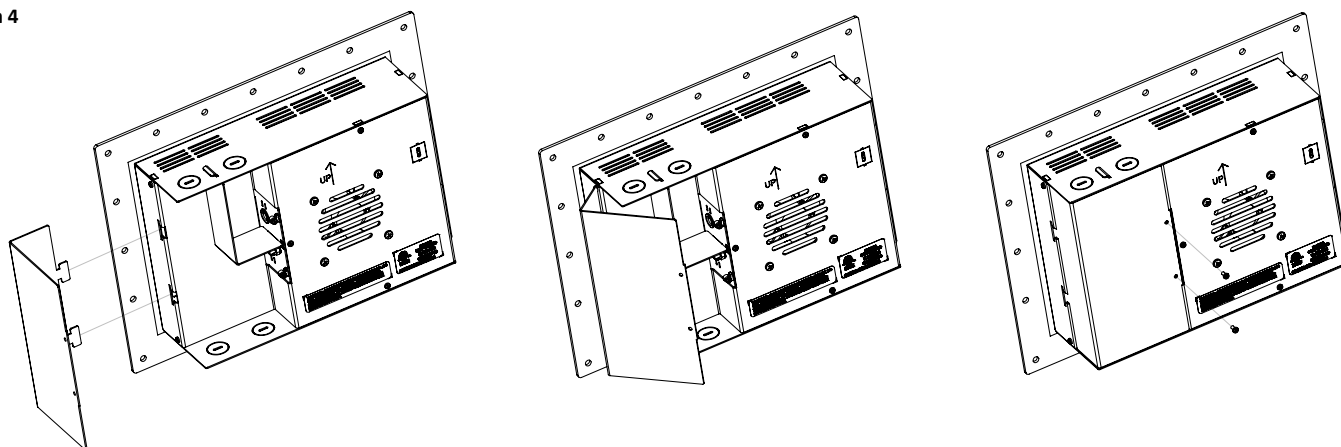


Diagram 4



Electrical Connections:

This supply can be used to remotely power any of PDC “ethernet wiring” fixtures. The power supply can be wired to control up to 4 independent controlled light zones. Use the table below to determine the correct wire diagram (wire diagram 1-5) for the number of zones and types of luminaires on each zone

Any standard 3-way 0-10V dimmer can be used. PDC recommends using Lutron Diva (DVSTV) or Leviton IllumaTech (IPX12) . When the 0-10V wires are shorted together that zone will shut off. If another 0-10V dimmer is used it must be wired so the common of the switch is connected to the gray dimming wire and the normally open wire is connected to the violet wire of the switch.

Wiring For 1 Light Control Zones (Maximum Fixtures Per Zone)	
Control Zone #1	Wiring
(16) - Down Lights [LP6]	Diagram #1

Wiring For 2 Independent Light Control Zones (Maximum Fixtures Per Zone)		
Control Zone #1	Control Zone #2	Wiring
(4) - LP6	(9) - 2'x2' Ceiling Image [IDP]	Diagram #3
(2) - Directionals [LPD]	(9) - 2'x2' Ceiling Image [IDP]	Diagram #3
(8) - Directionals [LPD]	(12) - Down Lights [LP6]	Diagram #3
(4) - Down Lights [LP6]	(12) - Down Lights [LP6]	Diagram #3
(4) - 2'x2' Ceiling Image [IDP]	(12) - Down Lights [LP6]	Diagram #3
(8) - 2'x2' Ceiling Image [IDP]	(8) - Down Lights [LP6]	Diagram #2
(8) - Down Lights [LP6]	(8) - Down Lights [LP6]	Diagram #2

Wiring For 3 Independent Light Control Zones (Maximum Fixtures Per Zone)			
Control Zone #1	Control Zone #2	Control Zone #3	Wiring
(4) - 2'x2' Ceiling Image (IDP)	(4) - Down Lights [LP6]	(8) - Down Lights [LP6]	Diagram #4
(4) - 2'x2' Ceiling Image (IDP)	(2) - Directionals [LPD]	(8) - Down Lights [LP6]	Diagram #4
(4) - Down Lights [LP6]	(4) - Down Lights [LP6]	(6) - 2'x2' Ceiling Image [IDP]	Diagram #4
(2) - Directionals [LPD]	(4) - Down Lights [LP6]	(8) - 2'x2' Ceiling Image [IDP]	Diagram #4
(8) - Directionals [LPD]	(4) - Down Lights [LP6]	(8) - Down Lights [LP6]	Diagram #4
(4) - Down Lights [LP6]	(4) - Down Lights [LP6]	(8) - Down Lights [LP6]	Diagram #4

Wiring For 4 Independent Light Control Zones (Maximum Fixtures Per Zone)				
Control Zone #1	Control Zone #2	Control Zone #3	Control Zone #4	Wiring
(4) - 2'x2' Ceiling Image [IDP]	(2) - Directionals [LPD]	(4) - Down Lights [LP6]	(4) - Down Lights [LP6]	Diagram #5
(4) - Down Lights [LP6]	(4) - Down Lights [LP6]	(4) - Down Lights [LP6]	(4) - Down Lights [LP6]	Diagram #5
(8) - Directionals [LPD]	(4) - Down Lights [LP6]	(4) - Down Lights [LP6]	(4) - Down Lights [LP6]	Diagram #5
(4) - 2'x2' Ceiling Image [IDP]	(4) - Down Lights [LP6]	(4) - Down Lights [LP6]	(4) - Down Lights [LP6]	Diagram #5

Wiring For 1 Light Control Zones (Maximum Fixtures Per Zone)	
Control Zone #1	Wiring
(12) - 2'x2' Ceiling Image [IDP]	Diagram #6
(24) - 2'x2' Ceiling Image [IDP]	Diagram #7

Emergency backup:

The PSF16 power supply is capable of connection directly to an IOTA 125W battery backup. This unit can be purchased directly from PDC (part number **3-23-000203**). Refer to **Wiring Diagram #8** for electrical connections

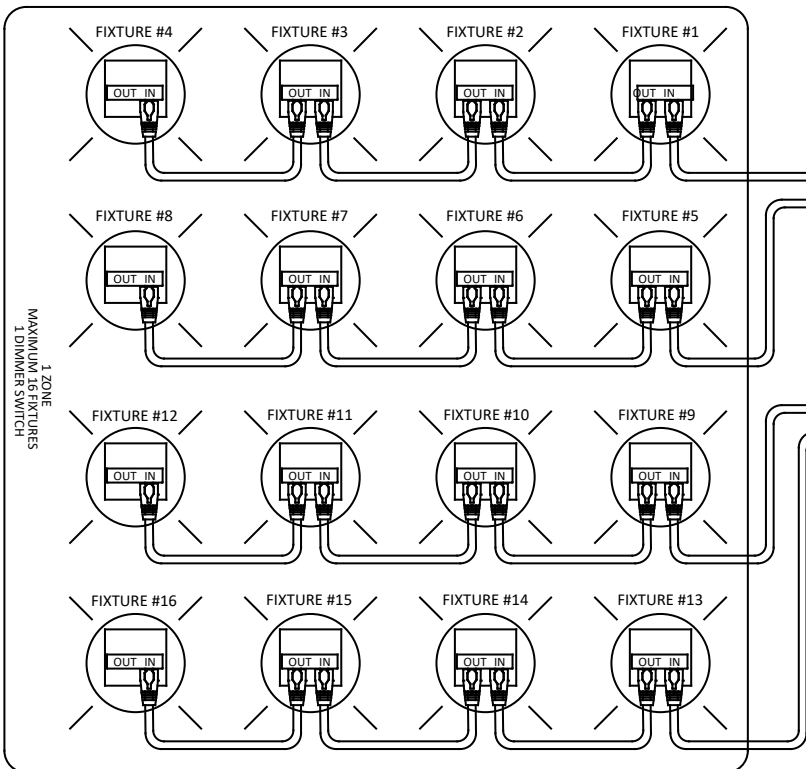
Note:

Emergency operation when wired per **Wiring Diagram #8** the fixture will operate as normal when normal AC is present. During the loss of AC the unit will turn on luminaires #1 - #4 to full level. All of the other luminaires in the room will go to a full dim level

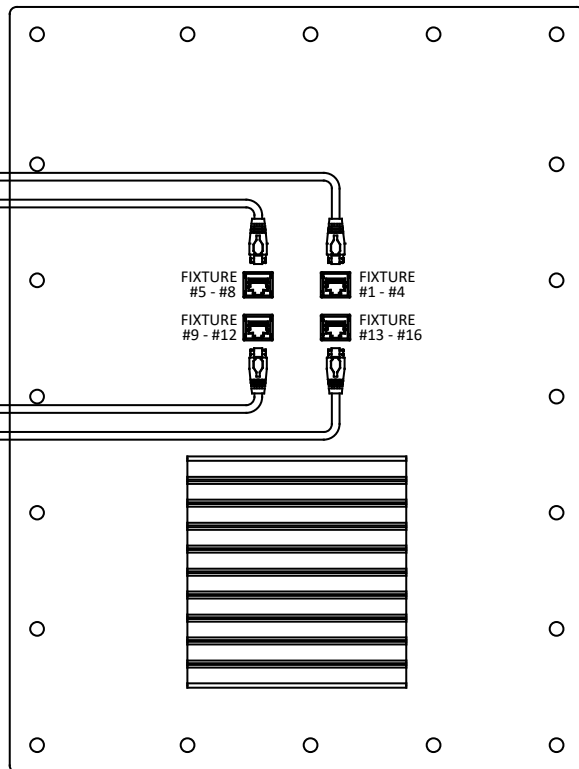
Electrical Connections:

Wiring Diagram 1

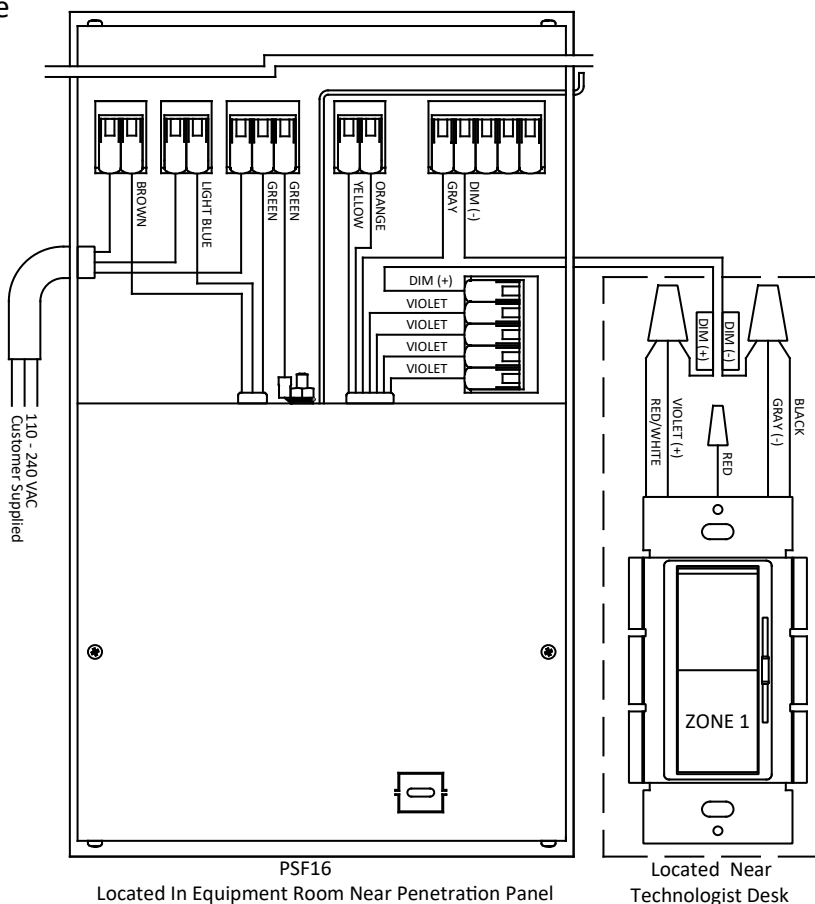
Scan Room Side



**PSF16
Located In Scan Room Near Penetration Panel**

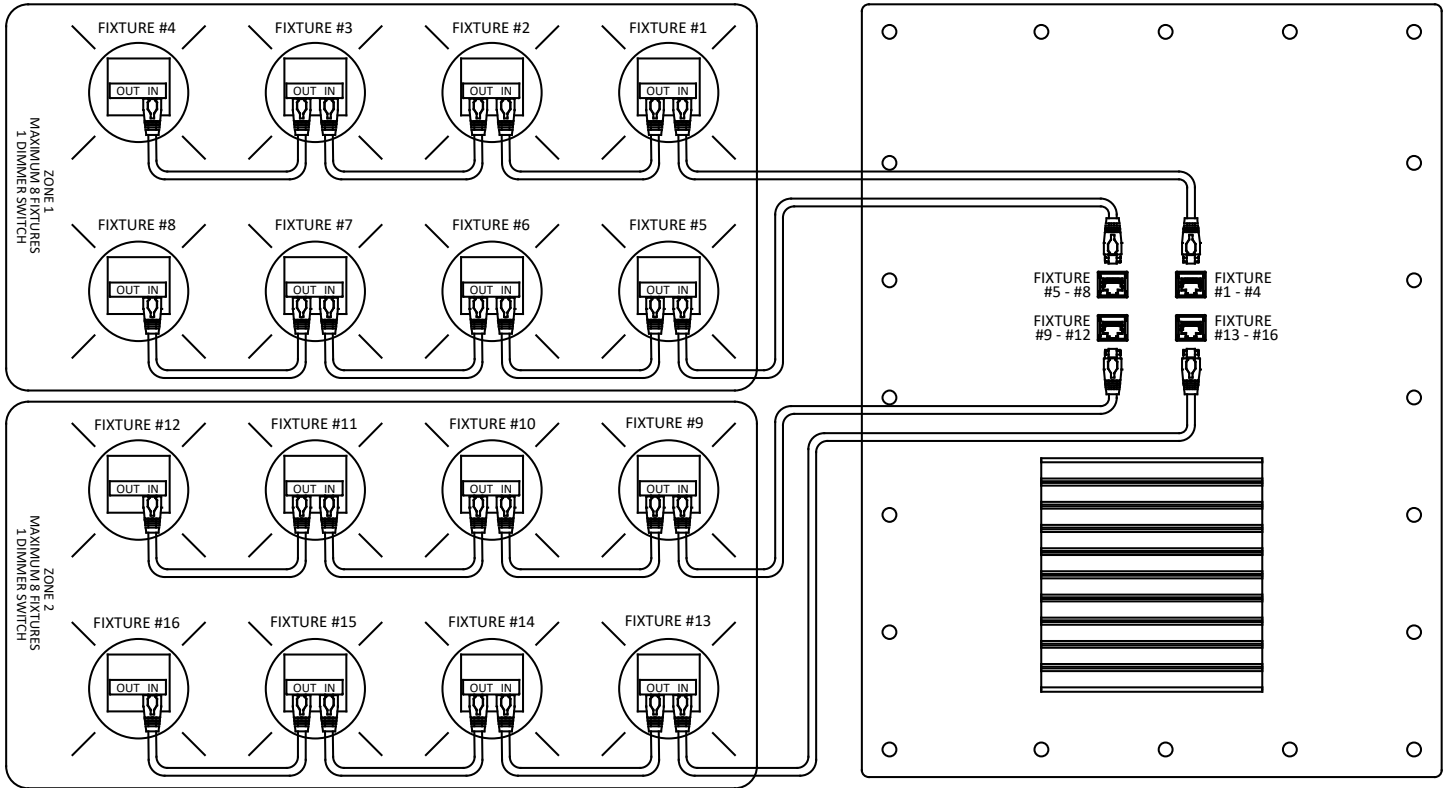


Equipment Room Side

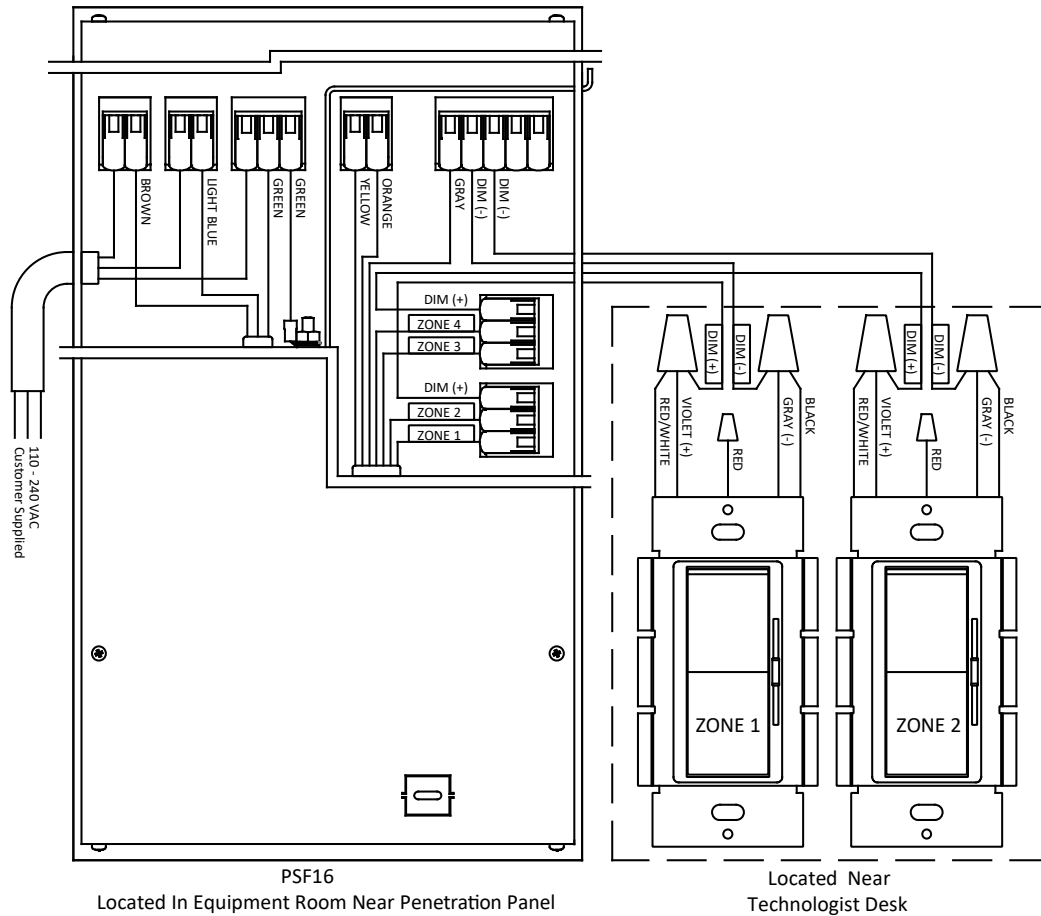


Wiring Diagram 2

Scan Room Side

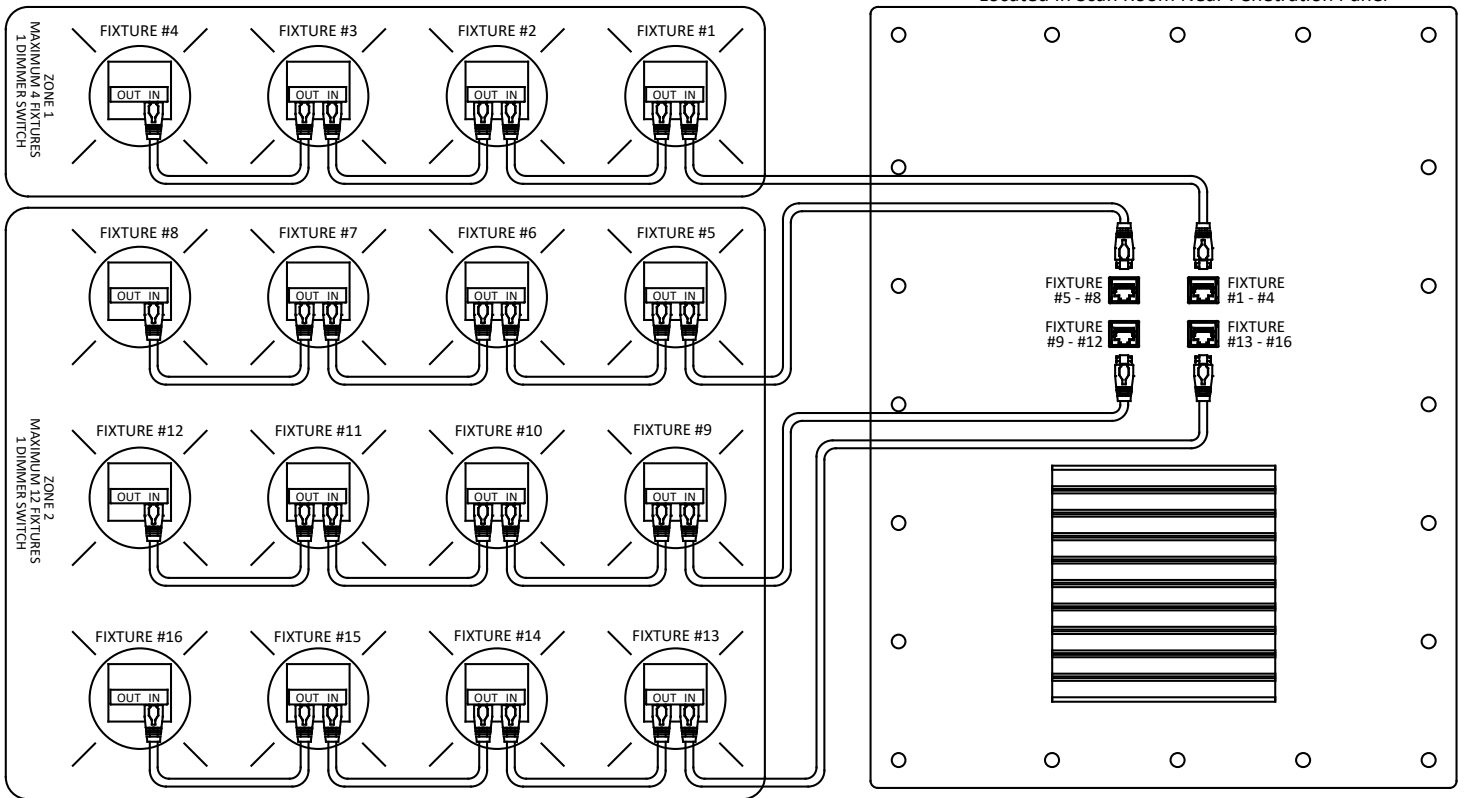


Equipment Room Side

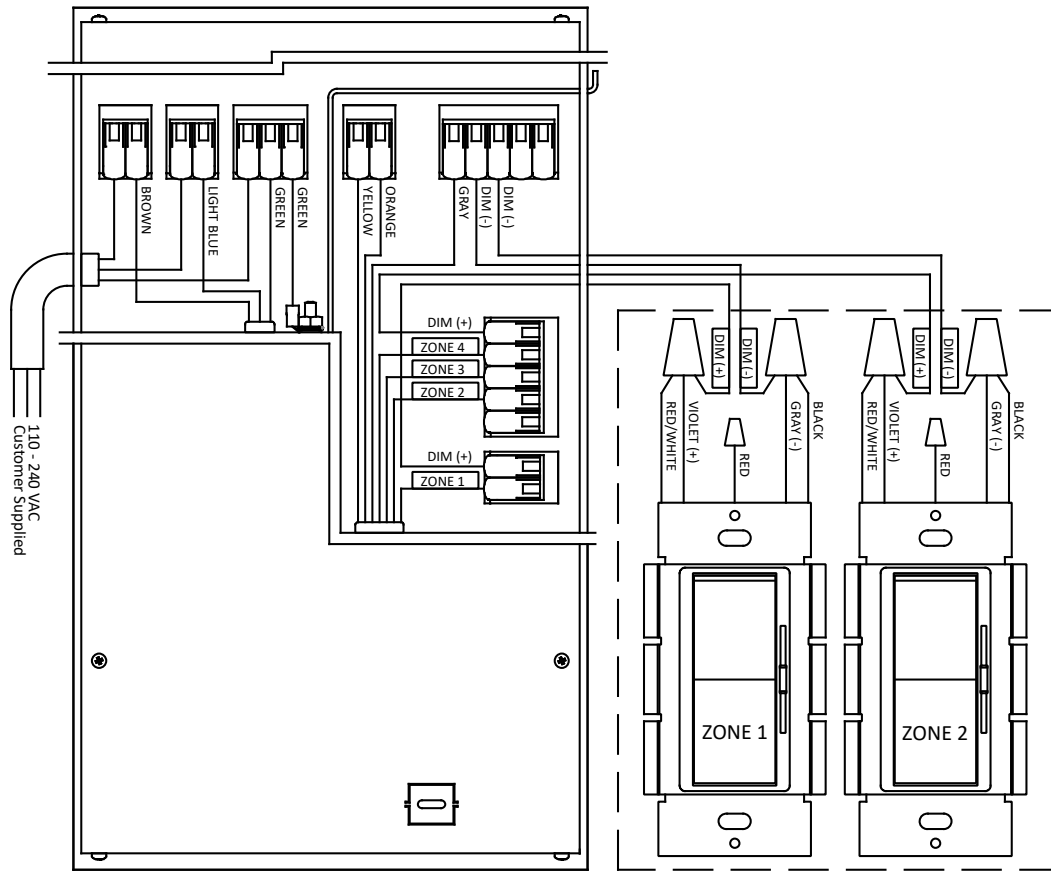


Wiring Diagram 3

Scan Room Side



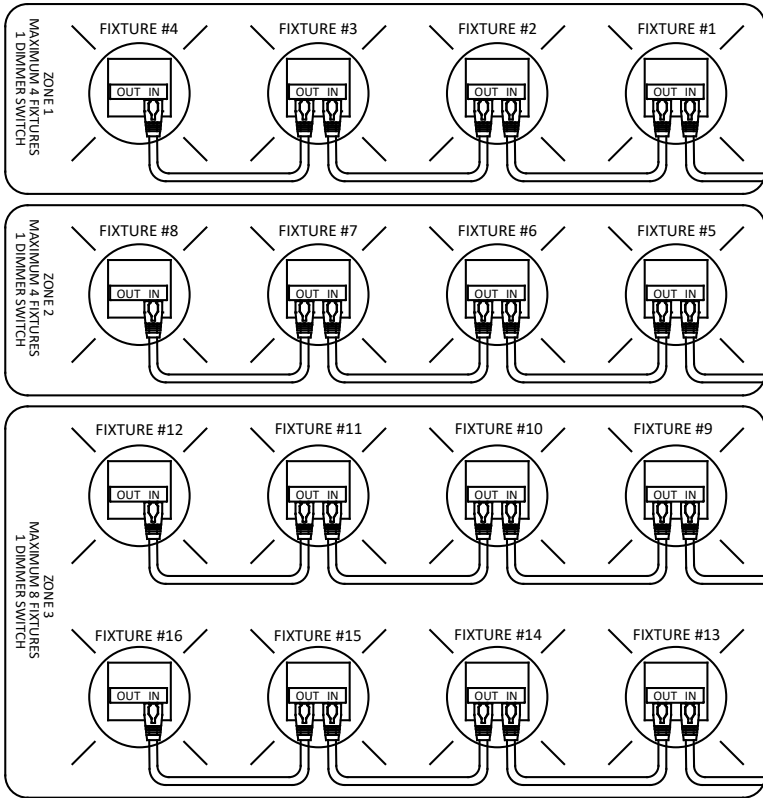
Equipment Room Side



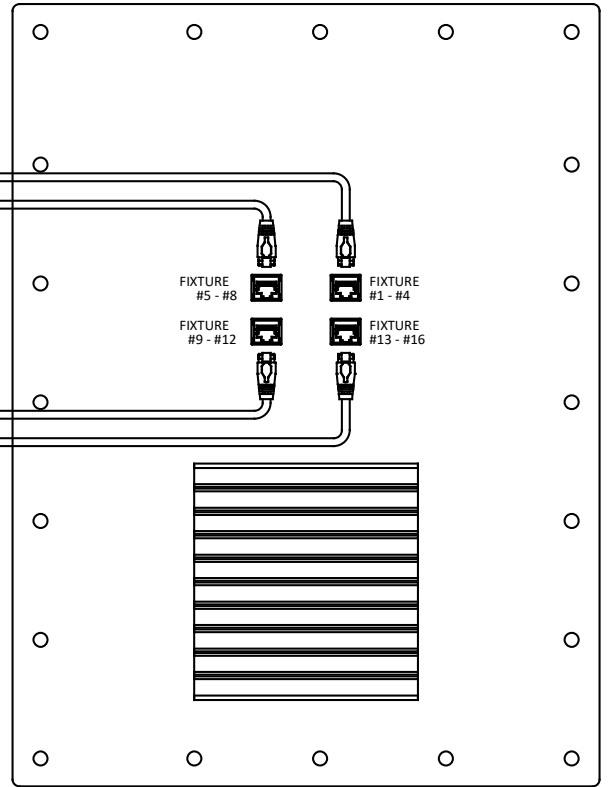
Located Near
Technologist Desk

Wiring Diagram 4

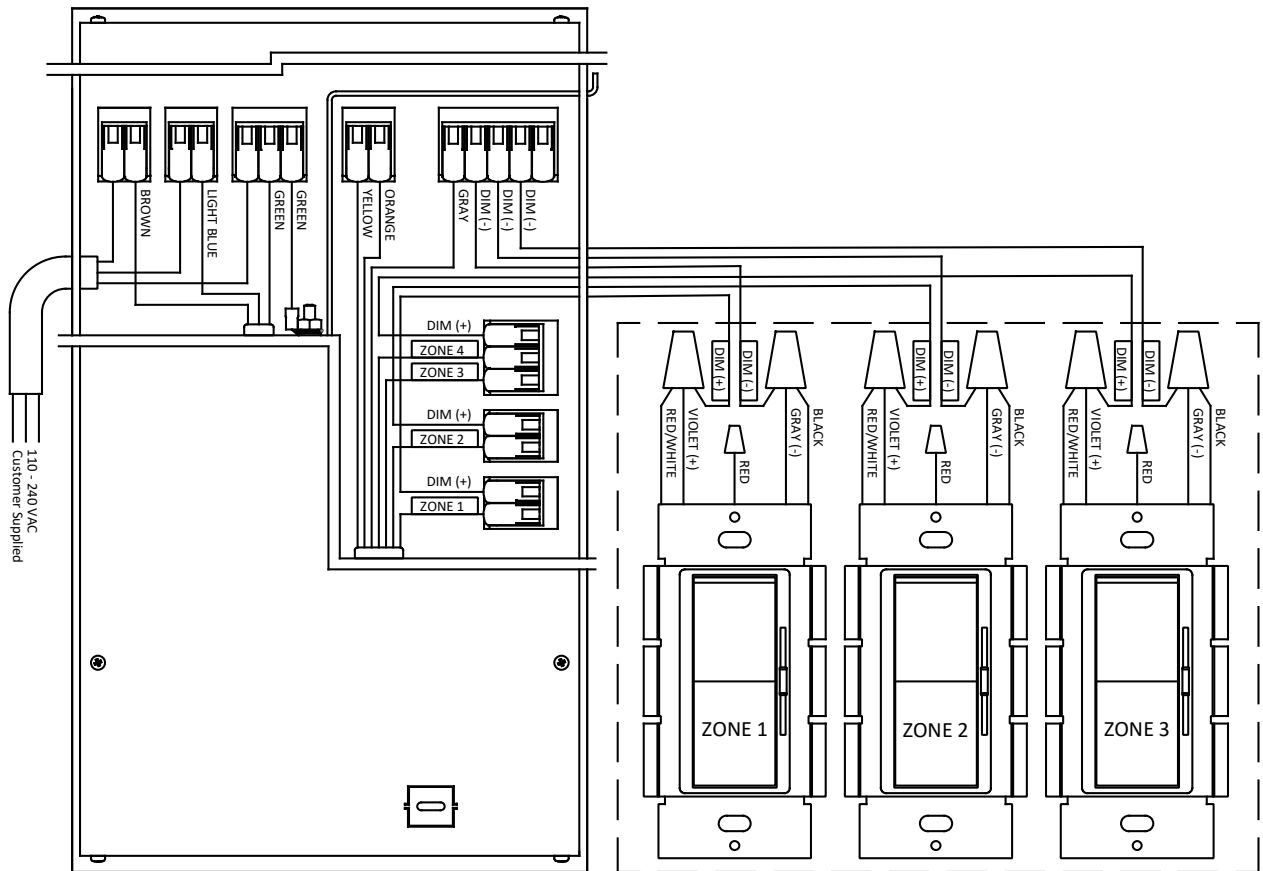
Scan Room Side



PSF16
Located In Scan Room Near Penetration Panel



Equipment Room Side

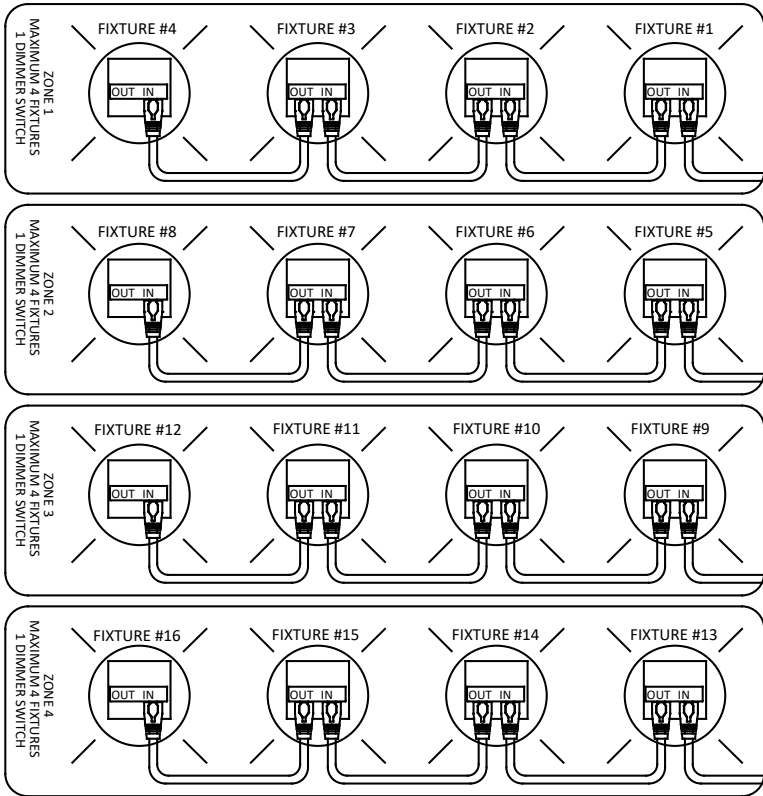


PSF16
Located In Equipment Room Near Penetration Panel

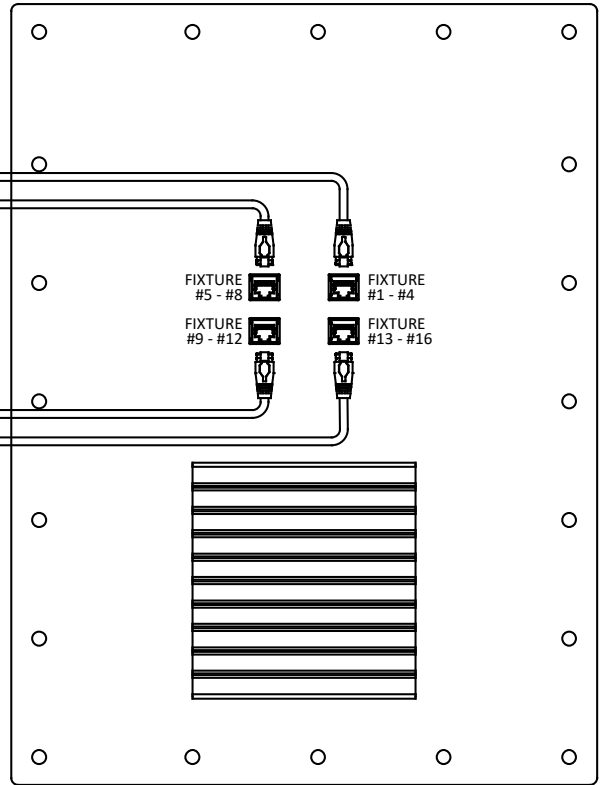
Located Near
Technologist Desk

Wiring Diagram 5

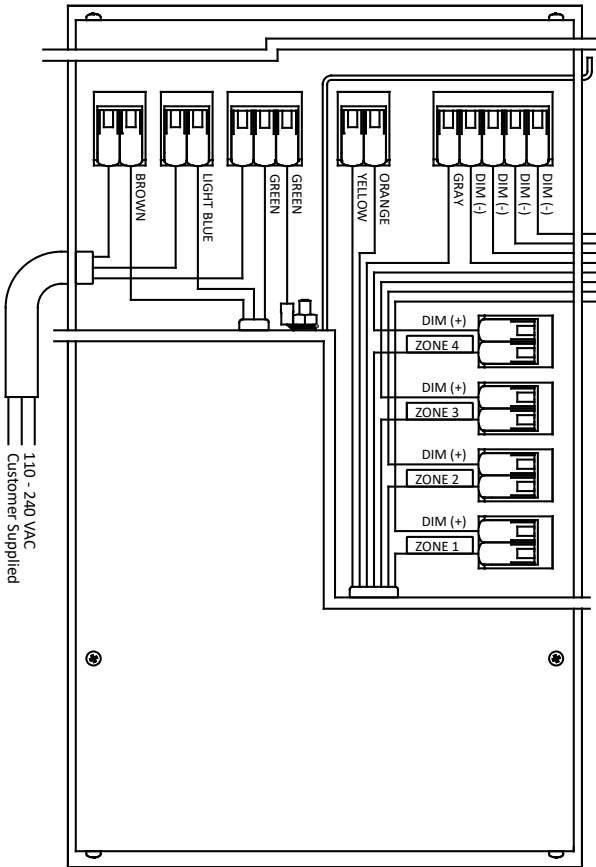
Scan Room Side



PSF16
Located In Scan Room Near Penetration Panel

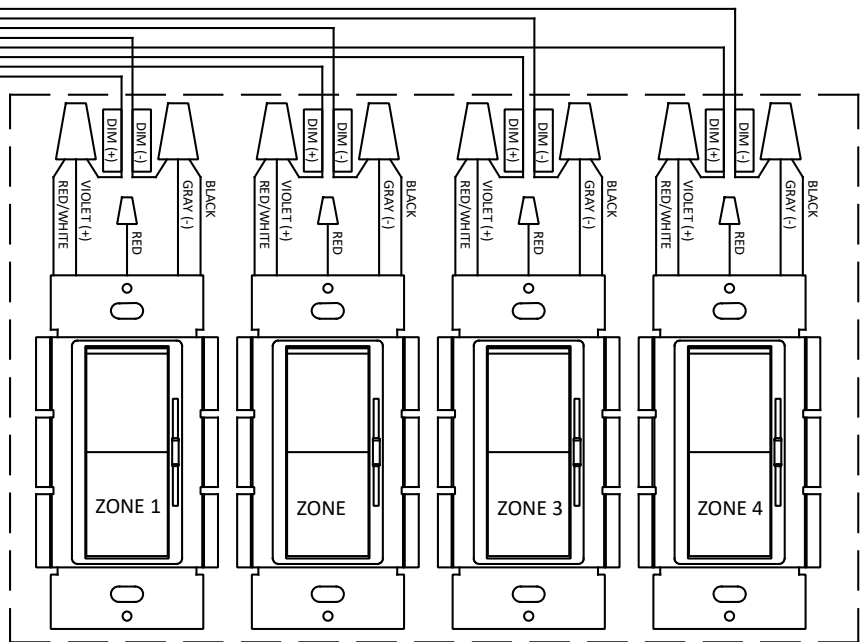


Equipment Room Side



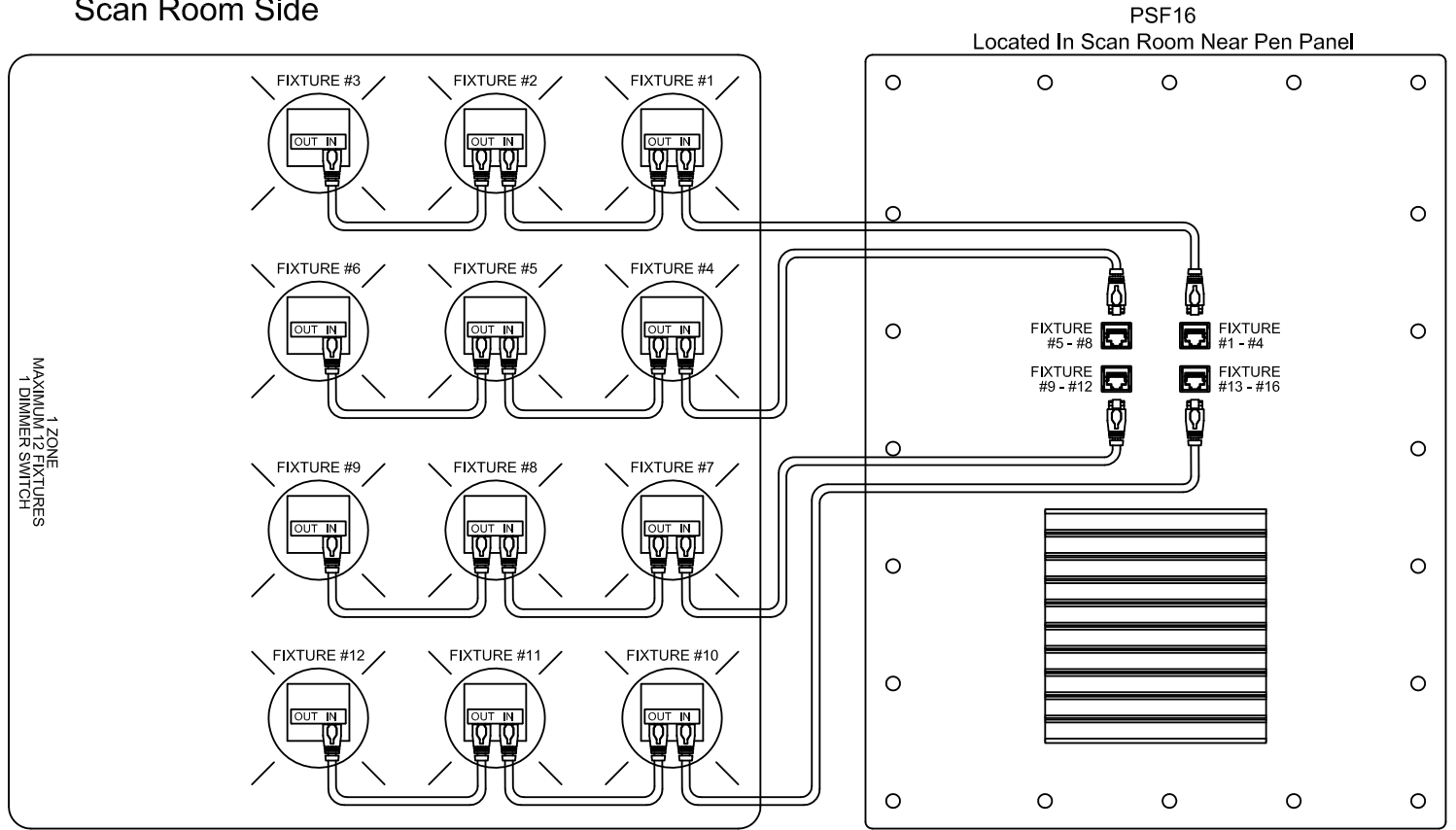
PSF16

Located In Equipment Room Near Penetration Panel

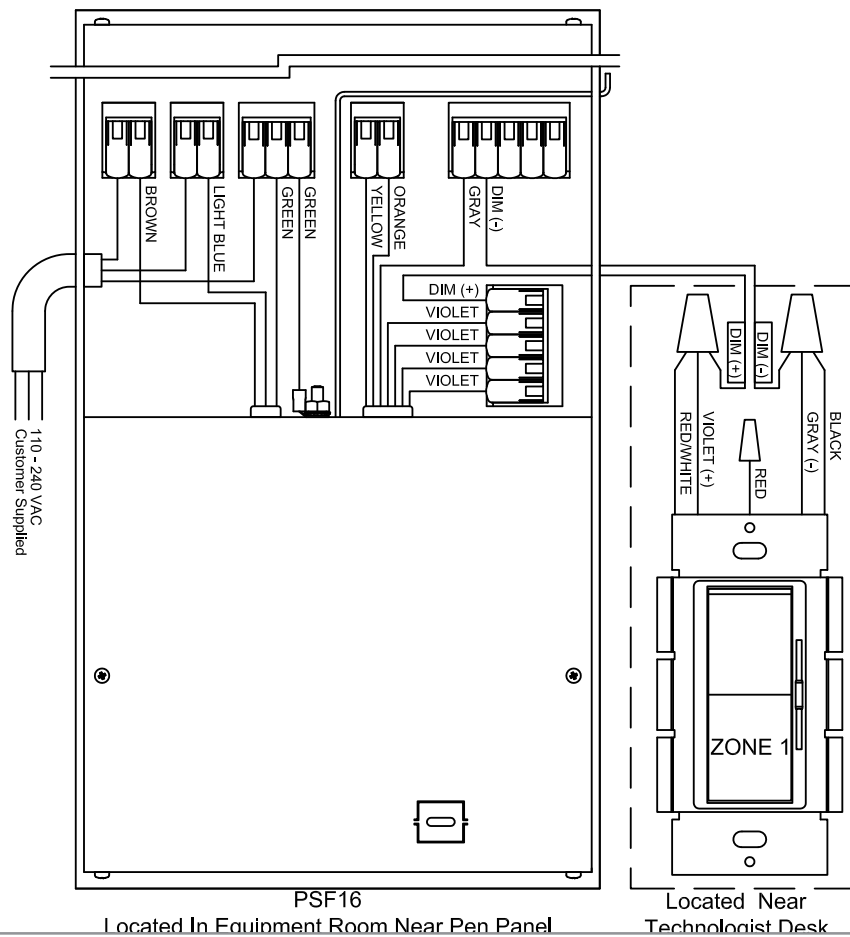


Located Near
Technologist Desk

Scan Room Side

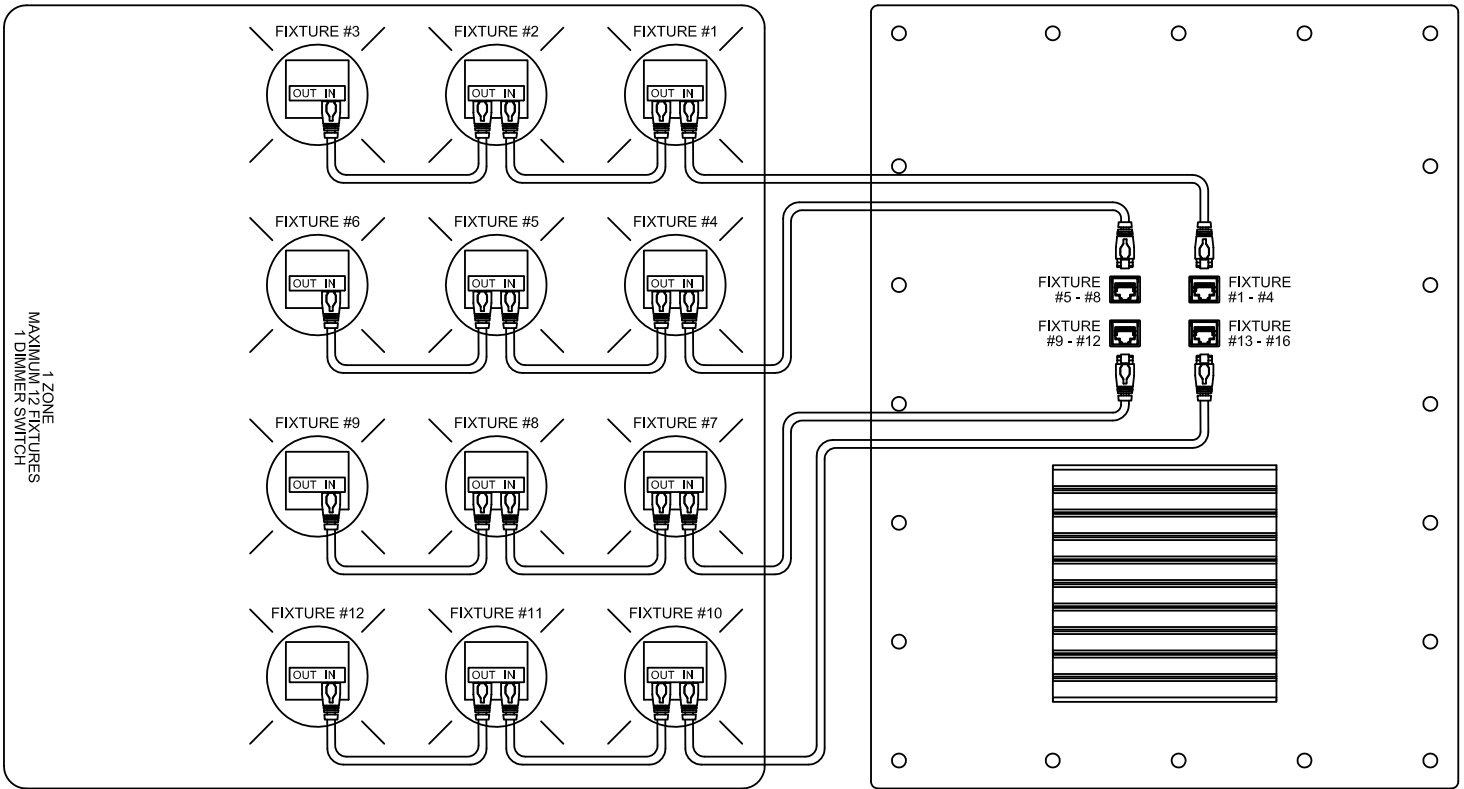


Equipment Room Side

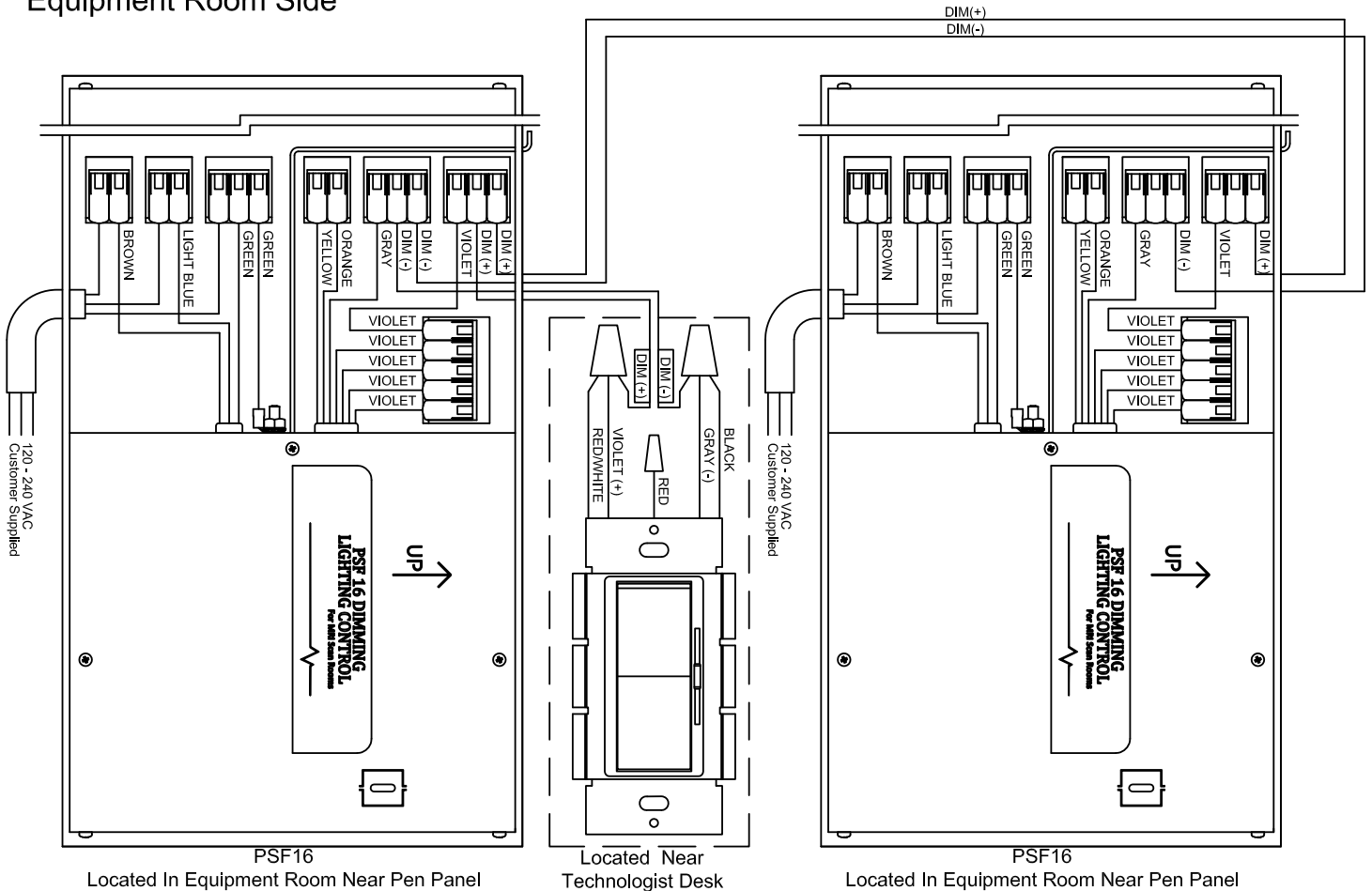


Wiring Diagram 7

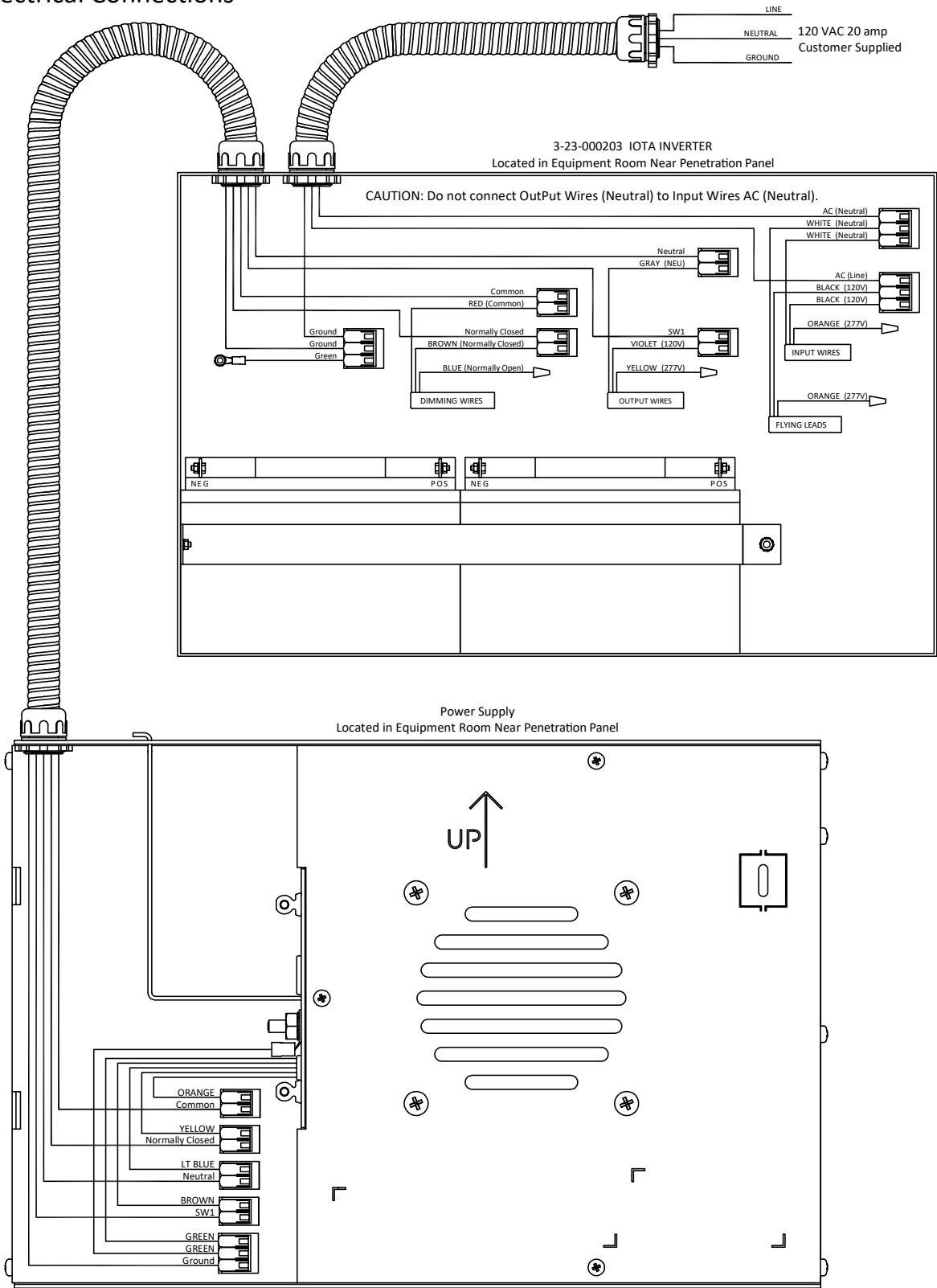
Scan Room Side X2



Equipment Room Side



Electrical Connections



Directive 2012/19/EU (WEEE - Waste Electrical and Electronic Equipment): Information for Users

This product complies with EU Directive 2012/19/EU. The crossed out wheeled bin symbol on the article means that at the end of its useful lifespan, this product must not be disposed of with your other household or municipal waste. This product has required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment if not properly disposed. In order to avoid dissemination of those substances in our environment and to diminish the pressure on the natural resources, the user is responsible for delivering the appliance to an appropriate collection facility at the end of its useful lifespan. The separate collection and recycling of your waste equipment at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information on available collection facilities contact your local waste collection service or the place of purchase.

For informational purposes only. Content is subject to change.