

## Arpool Iris Trifecta

### TECHNOLOGY



#### Flow Sense

A built-in protector against power-related issues, ensuring lasting performance and safety.



#### Split & Seal

Uses protective polymers to shield Filix products from water and moisture, boosting durability and resilience.



#### Heat Sense

Automatically reduces LED power at high temperatures, ensuring longevity and safety in Filix products.





## Arpool Iris Trifecta

Specification Sheet



UL STD 676 swimming pool rated  
CSA C22.2#89 swimming pool rated  
IP68

### LUMINAIRE FEATURES

#### Design and Application

- Medium to large pools
- Fountains and water features

#### Mechanical details

- IK10 crystal-clear tempered glass, 10mm (0.39") thick
- IP68, rated for permanent submersion
- Maximum installation depth up to 5m (16')
- AISI316L stainless steel body
- Suitable for chlorine and marine environments
- Supplied with 3m(10') oil and water resistant feed cable as standard
- Recessed installation secured with A4 grade screws
- Galvanic protection

#### Electrical details

- LED Lifetime TM-21 @ 105°C L80(24K) = 145,000 hours
- Operating temperature: -20°C (-28°F) to +50°C (122°F)
- LED CRI: >85
- 3 step MacAdam
- Remote power supply
- Low voltage operation

#### Safety

- Child safe - no internal access during rotation

#### Sustainability

- Recyclable material
- Replaceable engine (page 6)

#### Controls

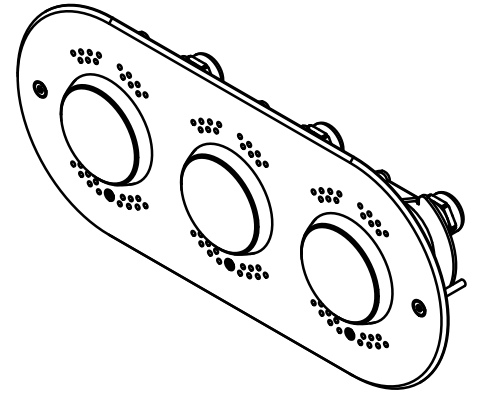
- DMX, with compatible LED power supply
- DALI, with compatible LED power supply
- 0-10V, with compatible LED power supply
- Mains, with compatible LED power supply

#### Integrated systems

- Split & Seal
- Flow Sense
- Heat Sense

#### Links & Downloads

- [List of available drivers](#)
- [Voltage drop calculator](#)
- [Fixture installation manual](#)
- [Housing installation manual](#)
- CAD file
- [IES-LTD data](#)



W150mm X H90 X L340mm



# Arpool Iris Trifecta

## ORDERING INFORMATION

### MODEL

AIT

### APPLICATION

TM

- TM - 90mm x 150mm x 340mm (3,4" x 5,9"x 13,4")

### POWER

H

- H - 45W, 2700/3000/4000K, 3600lm
- H - 45W, RGBW

### COLOR TEMP.

27

- 27 - 2700K

30

- 30 - 3000K

40

- 40 - 4000K

TW

- TW - Tunable white (2200-4000K)

RGBW

- RGBW (W 4000K)

### OPTICS

SP

- SP - Spot - 15°

FL

- FL - Flood - 40°

W

- W - Wide - 70°

### VOLTAGE

12

- 12 - 12VDC fixture voltage

24

- 24 - 24VDC fixture voltage

### OPTIONS

3

- 3\* - standard feed cable 3m (10')

6

- 6 - luminaire supplied with 6m (20') feed cable

9

- 9 - luminaire supplied with 9m (30') feed cable

20

- 20 - luminaire supplied with 20m (65') feed cable

### GLARE CONTROL

1

- 1 - Half moon



# Arpool Iris Trifecta

## MANDATORY ACCESSORIES

### Housings

#### HOUSING

##### AIT

- AIT - Concrete pool installation housing

### Power supplies

#### DRIVERS

##### [LINK](#)

- [List of available drivers](#)

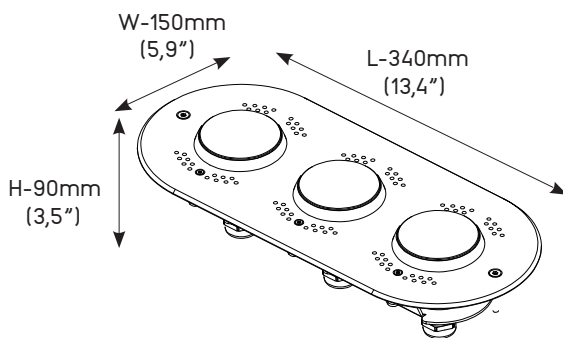


## Arpool Iris Trifecta

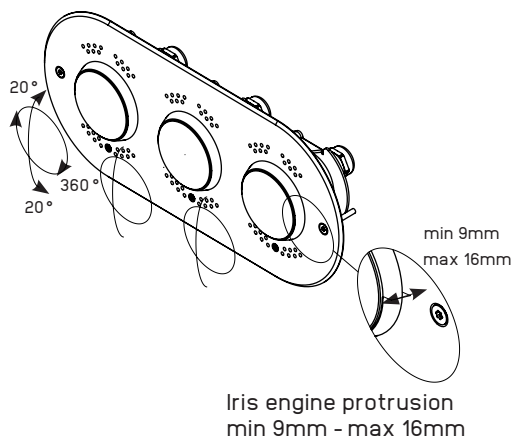
### INSTALLATION DETAILS

#### Fixture

Made out of AISI316L stainless steel with additional passive coating, this luminaire is suitable for use in marine and chlorine environments. The standard luminaires are equipped with water and oil-resistant cables in various standard lengths. with integrated systems such as Flow Sense, Heat Sense, and Split & Seal, the luminaire has all the needed protective barriers.



360 ° Rotation,  
20° tilt screw adjustment



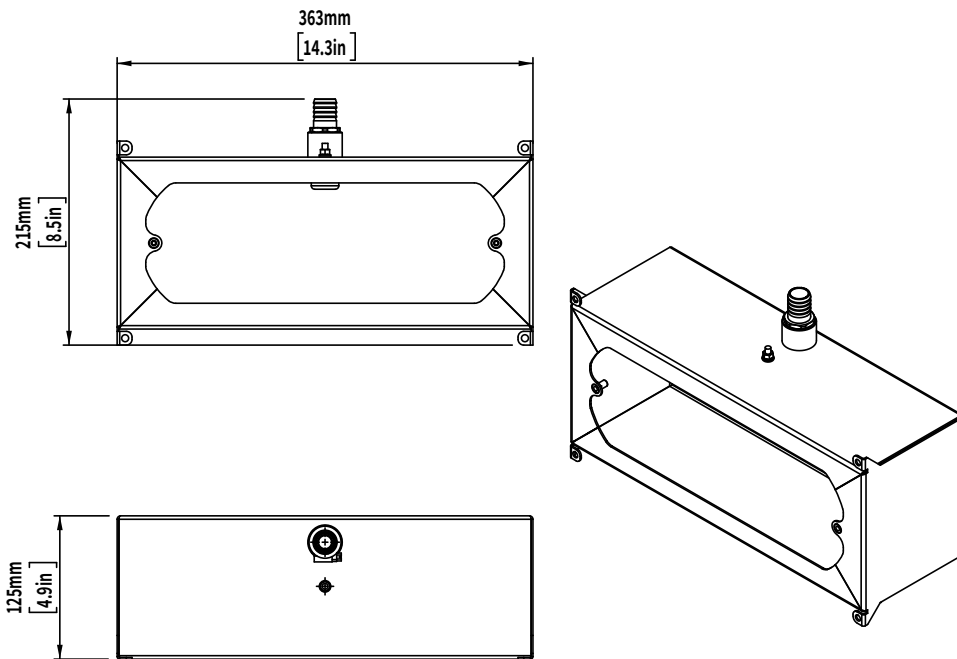
Note:  
For details on specific depths, tiling thickness and other please refer to both Installation instructions for fixture and housing.



## Arpool Iris Trifecta

### HOUSING

Installation housing - AIT \*fits 1m (3') cable  
Concrete pool instalaltion, side feed



### REPLACEABLE ENGINE

#### MODEL

IE

#### POWER

H

#### COLOR TEMP.

27

30

40

#### RGBW

TW

#### OPTICS

SP

FL

W

#### VOLTAGE

12

24

#### OPTIONS

X

#### GLARE CONTROL

HALF MOON

\*Replaceable Iris engine - code for single Iris engine unit to be order separately in the following cases:

- Servicing
- Customization (optical and color variations - excluding RGBW)

Note:  
For details on specific depths, tiling thickness and other please refer to both Installation instructions for fixture and housing.



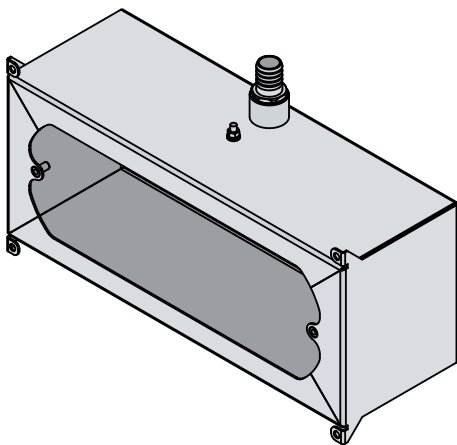
## Arpool Iris Trifecta

### MANDATORY ACCESSORIES

#### Stainless steel installation housing

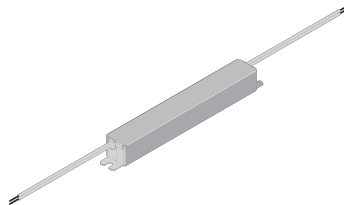
Used to niche used to seamlessly integrate luminaire utilizing precision press fit with no exposed hardware.

Made out of stainless steel with single cable entry and suitable for marine and pool environments. Standard features include a 1.5m oil and water-resistant cable conduit, streamlining the installation process. Due to its size, the housing's back end intentionally lacks a sealed cable gland. Contractors are advised to review installation instructions for proper guidance.



#### Power supply

A LED power supply, is an electrical device designed to control the power supplied to an LED or an array of LEDs. It plays a critical role in LED lighting systems as LEDs demand a specific type and level of electrical current or voltage for optimal operation. It's important to note whether a constant current or constant voltage LED power supply is required. The power supply should be installed in a dry and easily accessible area.





# Arpool Iris Trifecta

## GLARE CONTROL

### Internal glare control:

#### Half moon

Provides glare control by reducing lumen output and implementing a light beam cut-off, resulting in a 50% reduction in stray light and minimized light dispersion in undesirable directions.





## Control

### ON/OFF SYSTEM TOPOLOGY

#### Integrated systems:

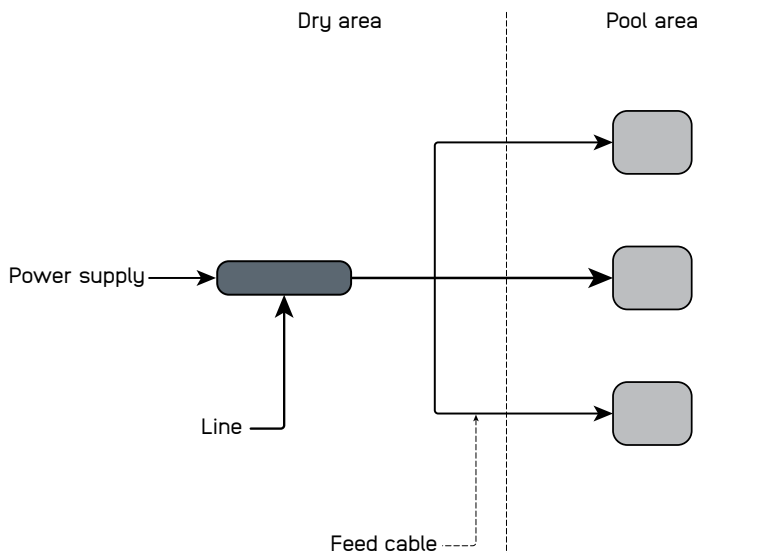
- Heat Sense
- Flow Sense
- Split & Seal

#### System components

- Wiring and additional accessories leading up to the product feed cable are the responsibility of others.
- Housing and necessary accessories that are marked as mandatory must be ordered separately

#### System topology

- In the system design, any of the following system topologies can be utilized: line wiring, star wiring, or tree wiring.



#### Addressing & dimming notes

- ON/OFF system does not allow device addressing
- Dimming of the product not available in this system

#### Segment length and limitations

- In a serial connection of multiple fittings, the maximum length of a cable loop is 50 meters, and the electrical circuit size is limited by power supply ratings, such as output voltage range.
- All wire splicing should be performed in a dry area to ensure a proper connection.
- Used in single colour applications

#### Fault tolerance

- In a serial connection, if one product fails, the rest of the system stops working.



## Control

### 0-10V SYSTEM TOPOLOGY

#### Integrated systems:

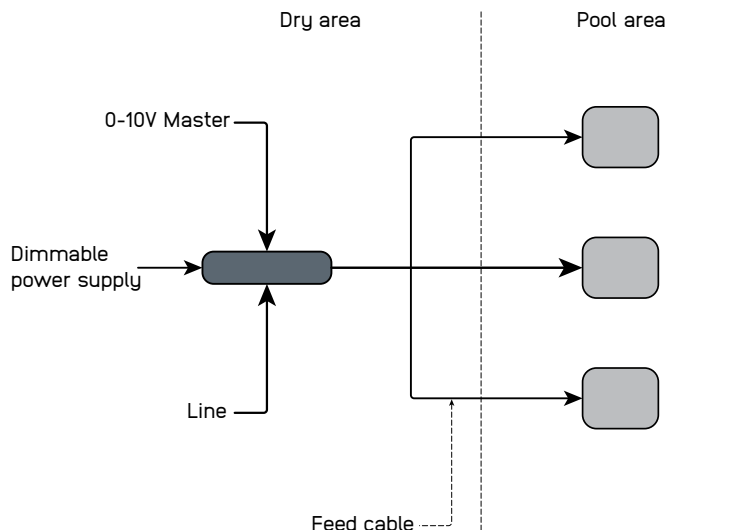
- Heat Sense
- Flow Sense
- Split & Seal

#### System components

- The 0-10V system, wiring and additional accessories leading up to the product feed cable are the responsibility of others.
- Housing and necessary accessories that are marked as mandatory must be ordered separately

#### System topology

- In the system design, any of the following system topologies can be utilized: line wiring, star wiring, or tree wiring.



#### Addressing & dimming notes

- Without 0-10V dimmable power supply product can not be controlled
- Individual device addressing can be achieved by connecting each product to a separate output channel of the 0-10V dimmable power supply.
- Logarithmic and linear dimming options depend on the 0-10V dimmable LED power supply
- The dimming range is determined by the 0-10V dimmable LED power supply

#### Segment length and limitations

- The minimum controllable segment is one product.
- In a serial connection of multiple fittings, the maximum length of a cable loop is 50 meters, and the electrical circuit size is limited by power supply ratings, such as output voltage range.
- All wire splicing should be performed in a dry area to ensure a proper connection.
- Used in single colour applications

#### Fault tolerance

- If the LED driver is source type and in the case the control line doesn't have power the light fitting will turn at 100%. in the opposite case where the LED power supply is sink type, light will not work
- In a serial connection, if one product fails, the rest of the system stops working.



# Control

## DALI SYSTEM TOPOLOGY

### Integrated systems:

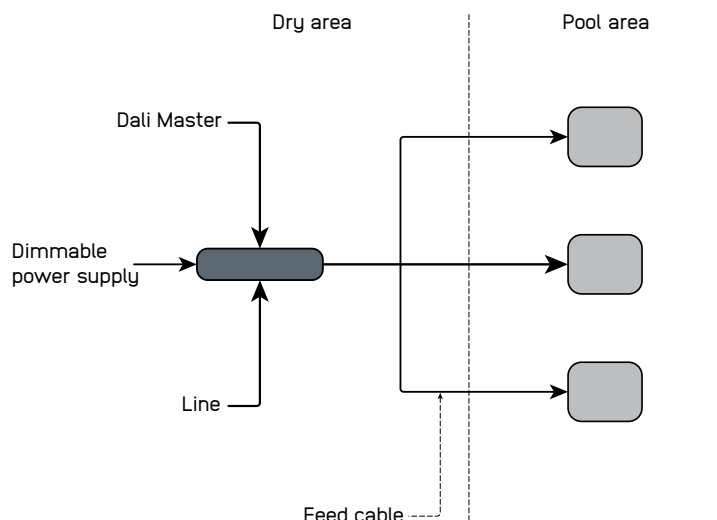
- Heat Sense
- Flow Sense
- Split & Seal

### System components

- The DALI system, wiring and additional accessories leading up to the product feed cable are the responsibility of others.
- Housing and necessary accessories that are marked as mandatory must be ordered separately

### System topology

- In the system design, any of the following system topologies can be utilized: line wiring, star wiring, or tree wiring.



### Addressing & dimming notes

- Without a DALI dimmable power supply, the product cannot be controlled.
- Individual device addressing (short address) and group addresses for up to 16 groups can be achieved by connecting each group of products to a separate output channel of the DALI dimmable power supply. A broadcast address targets everything on the line of the DALI dimmable LED driver.
- Logarithmic and linear dimming options depend on the DALI dimmable LED power supply.
- The dimming range is determined by the DALI dimmable LED power supply.

### Segment length and limitations

- The minimum controllable segment is one product.
- A DALI dimmable power supply cannot control fittings individually unless they are connected to separate channels of a DALI dimmable power supply.
- In a serial connection of multiple fittings, the maximum length of a cable loop is 50 meters, and the electrical circuit size is limited by power supply ratings, such as output voltage range.
- All wire splicing should be performed in a dry area to ensure a proper connection.
- Suitable for both single-color and multi-color applications.

### Fault tolerance

- In a serial connection, if one product fails, the rest of the system stops working.



## Control

### DMX SYSTEM TOPOLOGY

#### Integrated systems:

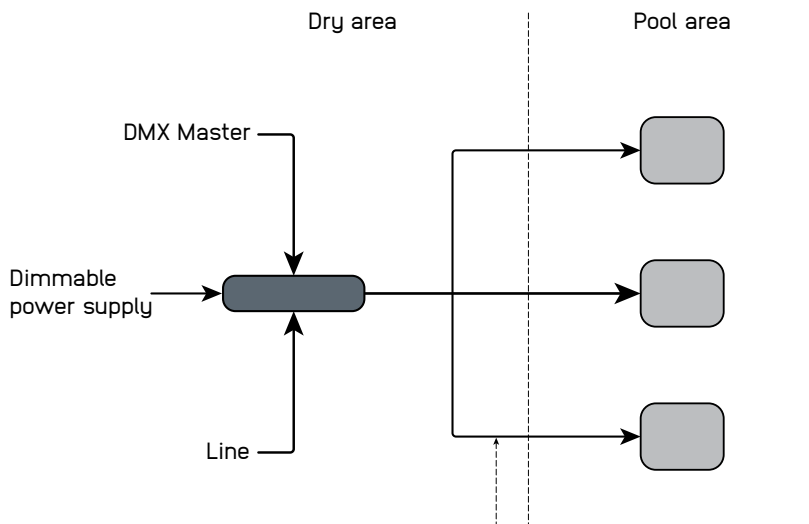
- Heat Sense
- Flow Sense
- Split & Seal

#### System components

- The DMX system, wiring and additional accessories leading up to the product feed cable are the responsibility of others.
- Housing and necessary accessories that are marked as mandatory must be ordered separately

#### System topology

- In the system design, any of the following system topologies can be utilized: line wiring, star wiring, or tree wiring.



#### Addressing & dimming notes

- The minimum controllable segment is one product.
- A DMX dimmable power supply cannot control fittings individually unless they are connected to separate channels of a DMX dimmable power supply.
- In a parallel connection of multiple fittings, the maximum distance between the LED power supply and the last fitting in line is limited to the maximum allowed voltage drop.
- In a serial connection of multiple fittings, the maximum length of a cable loop is 50 meters, and the electrical circuit size is limited by power supply ratings, such as output voltage range.
- All wire splicing should be performed in a dry area to ensure a proper connection.

#### Segment length and limitations

- Without a DMX dimmable power supply, the product cannot be controlled.
- Individual device addressing (short address) and group addresses can be achieved by connecting each product or a group to a separate output channel of the DMX dimmable power supply.
- Logarithmic and linear dimming options depend on the DMX dimmable LED power supply.
- The dimming range is determined by the DMX dimmable LED power supply.
- Suitable for both single-color and multi-color applications.

#### Fault tolerance

- In a parallel connection, if one product fails, the rest of the system continues to operate.
- In a serial connection, if one product fails, the rest of the system stops working.