

Function

Crystal's Electric Leaper produces a 1/2" (12mm) diameter glass-like rod of water that creates playful jumping and leaping effects that excite viewers of all ages.
Comes with an internal 12VDC, 5W RGBW LED light adding brilliant light displays to the water stream. The diverter is PLC controlled.

Groupings of Leaper's create dynamic displays and can be programmed in random or regular patterns when connected to an external controller.
The Electric Leaper comes with a stand or niche version and can be either mounted partially submerged in or external to the water feature.

Specifications

Construction of fixture shall be high-density polyethylene, polycarbonate and stainless steel.

Water inlet: 1" (25mm) male N.P.T.
Diverter: 12 VDC / 1A, 12 Watt.
PLC controlled.
"ON" time range: from 0.05 sec to unlimited,
"OFF" time range: from 0.05 sec to unlimited.

LED lighting: 12VDC, 5W.

Drain (LED149): 2" (50mm) male N.P.T.
Compliance: CE marking. IP68, submersible rated.

Choose Your Leaper:

CHOOSE MOUNTING	
Mounting	Part No.
Stand	LED147
Niche	LED149

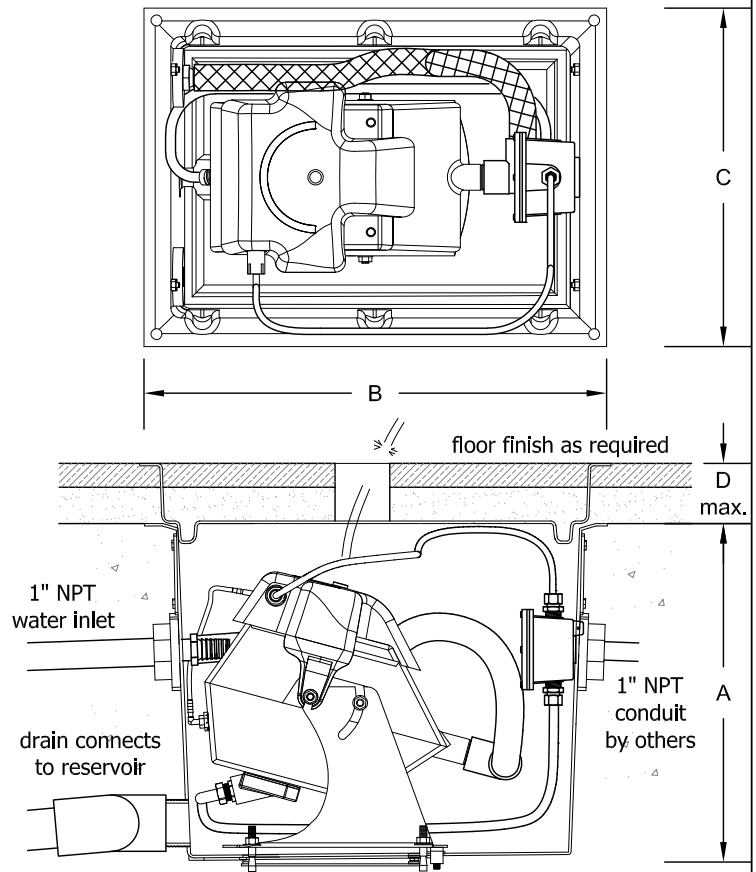
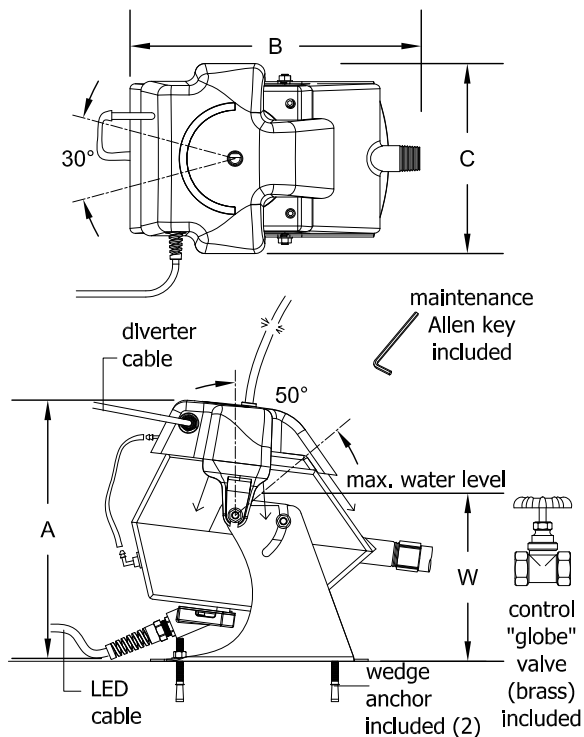
CHOOSE CABLE (PLC CONTROLLED)		Imperial	Metric
Cable for...	Cable Length	Part No.	Part No.
LED147 (Power Cable and LED light Cable)	9 feet (3m)	EL CORD203	EL CORD203M
	20 feet (6m)	EL CORD204	EL CORD204M
	60 feet (18m)	EL CORD205	EL CORD205M
LED149	Power Cable and LED light cable are included with Leaper		



LED147



LED149 (PLC controlled)



Dimensions

Part No.	A	B	C	W
LED147	13 1/2"	14"	9 1/2"	8 1/2"
	340	355	240	215 mm

Dimensions

Part No.	A	B	C	D
LED149	16 1/2"	22 3/4"	17"	3"
	420	580	430	75 mm

Notes

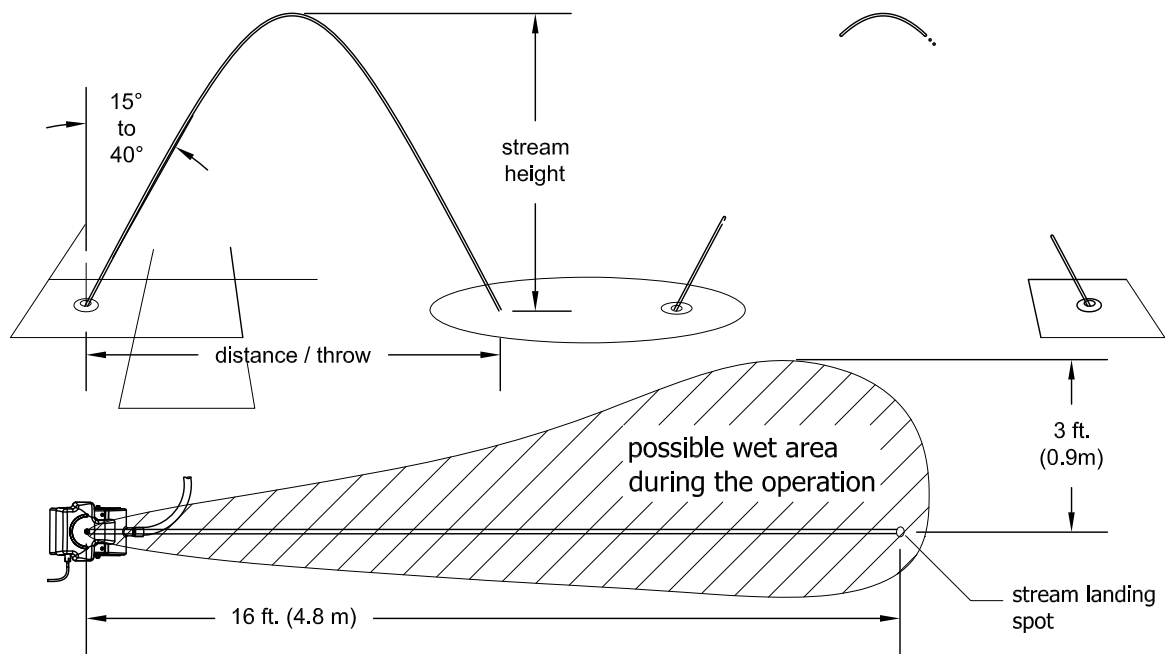
LED147 / LED149

1. Crystal Fountains' LED Power/Data supply to be ordered separately.
2. Individual Light and Sequencing Control is achieved by using Crystal's LEDPS Series lighting controls and or Crystal's Animation Control Panel. Contact Crystal for more details.
3. Filtered water supply required, recommended using cartridge type filter as a minimum (50 micron maximum for residential use). For the optimal installation (commercial) use 5 micron bag filters to minimize the maintenance.
4. Must be installed by licensed electrician to comply with local electrical code.
5. Refer to installation and wiring diagrams on page 3.
6. Contact Crystal Fountains for detailed specification, installation and operation details.

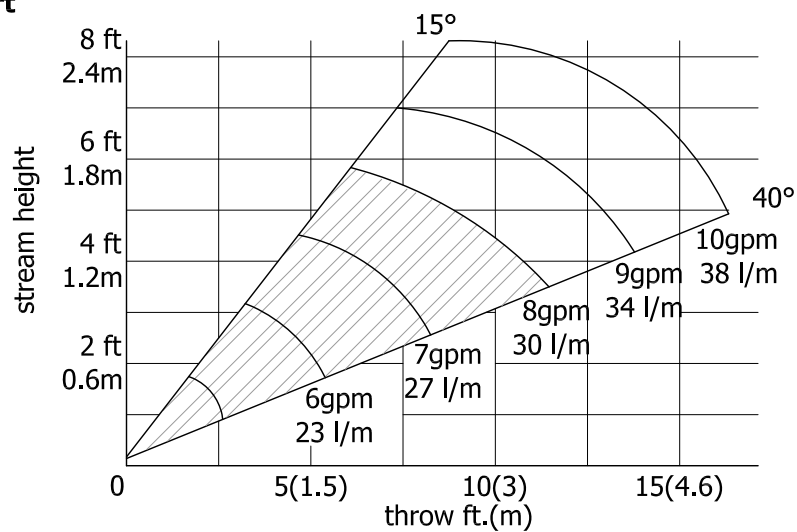
LED147 only

7. Must be installed so that the nozzle is above the water level of the fountain.
8. Use Crystal Fountains' EBJ series submersible junction box for cable connection.

Performance



Performance Chart

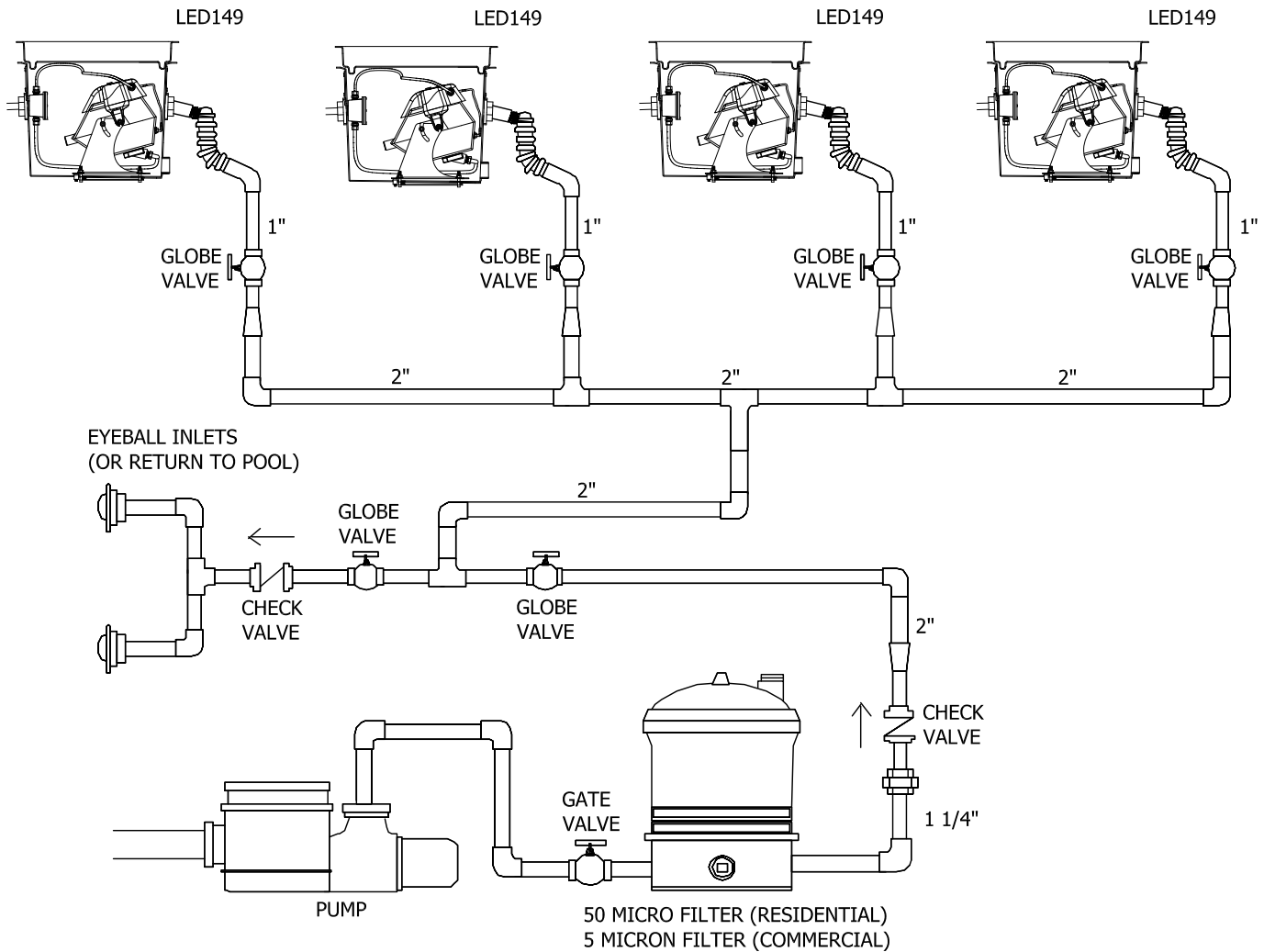


- Silent landing below 8 US gpm (30 L/min)
- For optimum laminar effect, use shaded area of chart
- For interactive play do not exceed 20 ft/sec or 12.2 US gpm (6.1m/sec or 46.2 L/min.)

Flow & Head Requirement

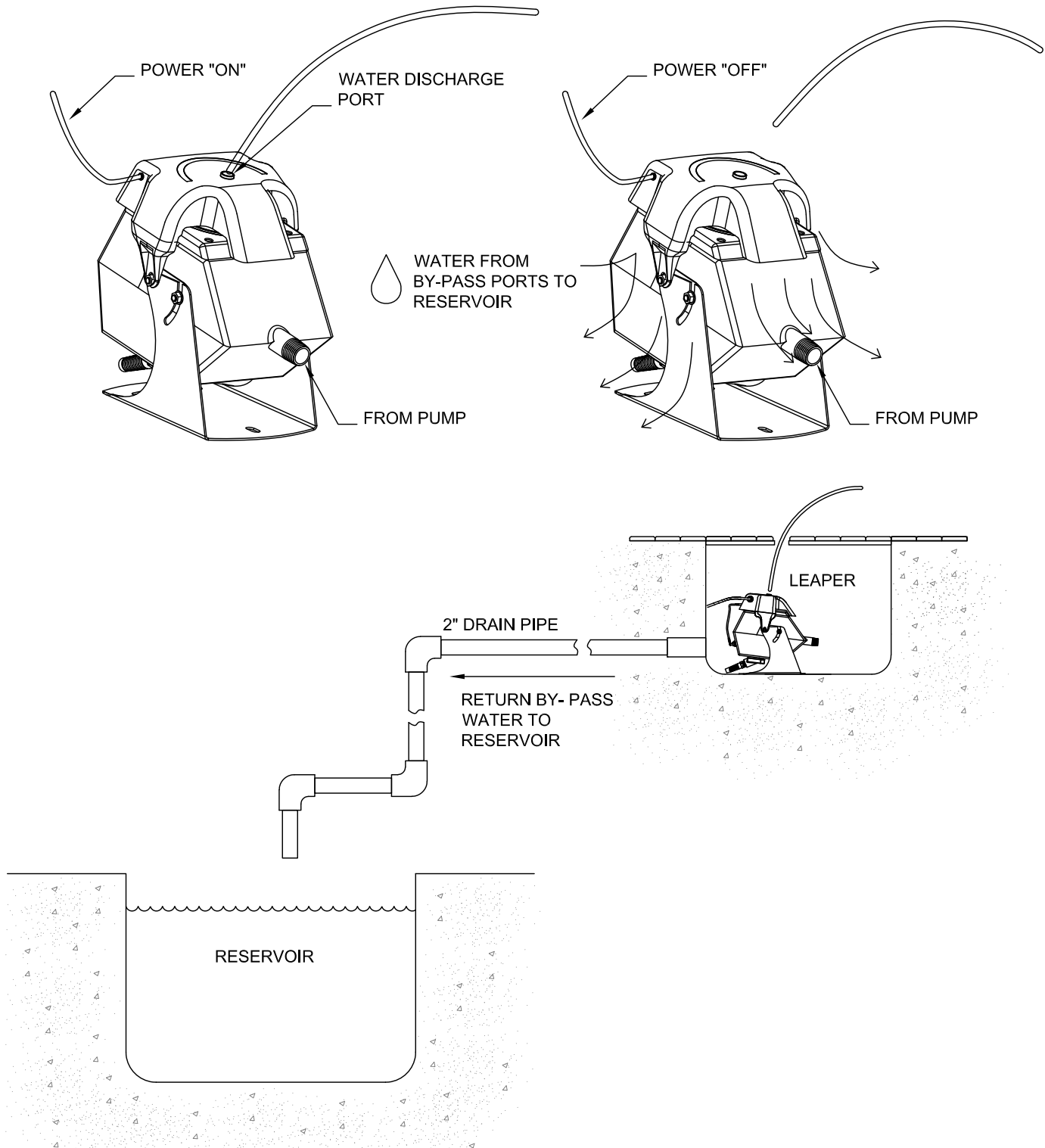
flow	USgpm	6	7	8	9	10
	L/min.	22.7	26.5	30.3	34.1	37.9
head	feet	3.5	4.9	6.2	7.2	9.5
	meters	1.1	1.5	1.9	2.2	2.9

Sample Mechanical Process Flow Diagram



Notes:

1. Minimum 1/8" (3mm) suction strainer required. 50 micron Discharge filter recommended for residential installations, 5 micron for commercial installations.
2. Globe valve to be installed a minimum of 10' away from product.

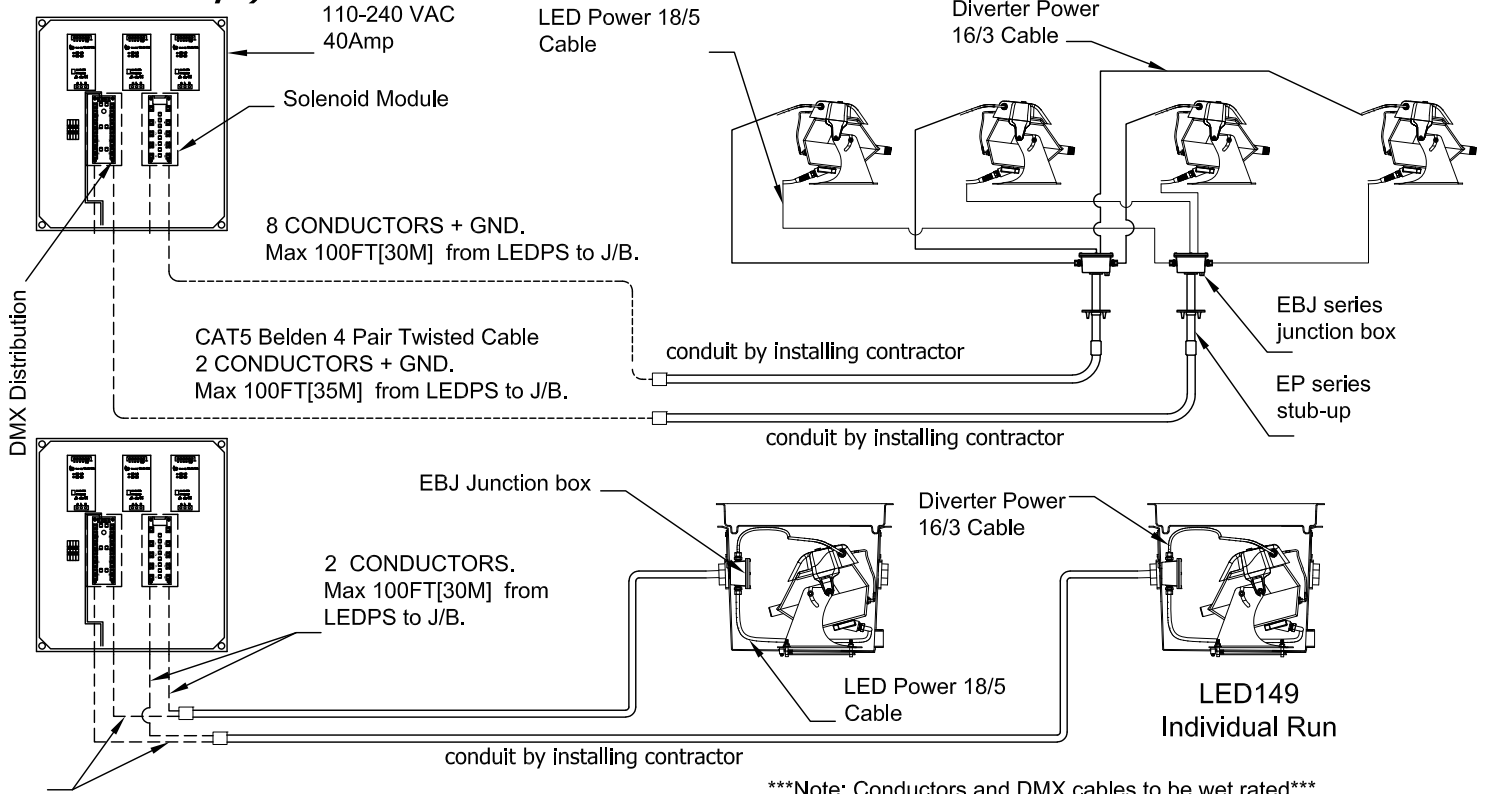


The ELECTRIC LEAPER is a constant flow nozzle. When the fountain controller actuates the water discharge port, water exits in clean laminar stream.

When the function controller closes the water discharge port, the water is diverted to the water by-pass ports. The diverted water exits the unit via the water by-pass ports, which then flows back to the reservoir.

Recommended Wiring Diagrams for PLC controller diverter and LED light

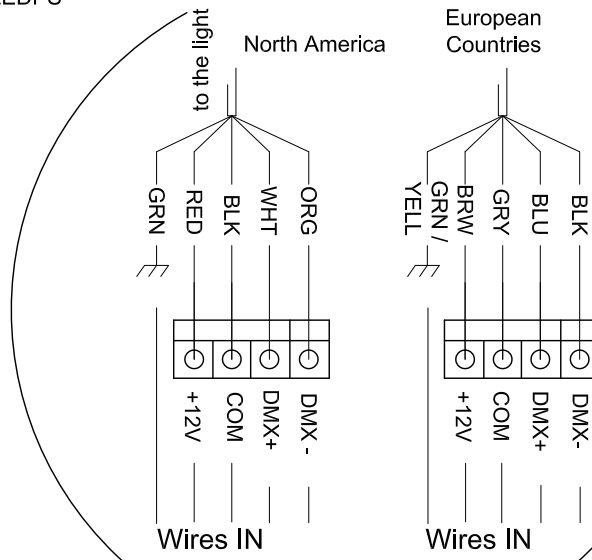
LEDPS Series Animation Control Panel (read note#2 on p2)



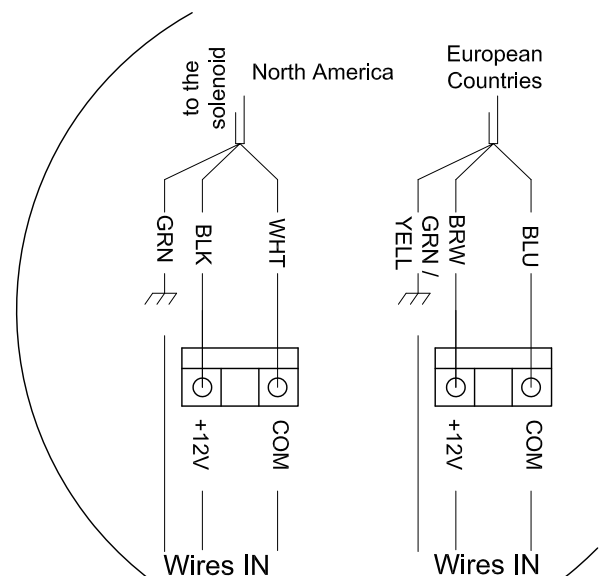
Note: Conductors and DMX cables to be wet rated

CAT5 Belden 4 Pair Twisted
Cable
2 CONDUCTORS + GND.
Max 100FT[35M] from LEDPS
to J/B.

wiring inside of Junction Box
for the LED light



wiring inside of the Junction Box
for the Diverter



NOTES:

- Refer to the LEDPS Series cut sheet and manual for more details.
- The voltage to the Diverter and LED light shall be 12VDC $\pm$ 5%.