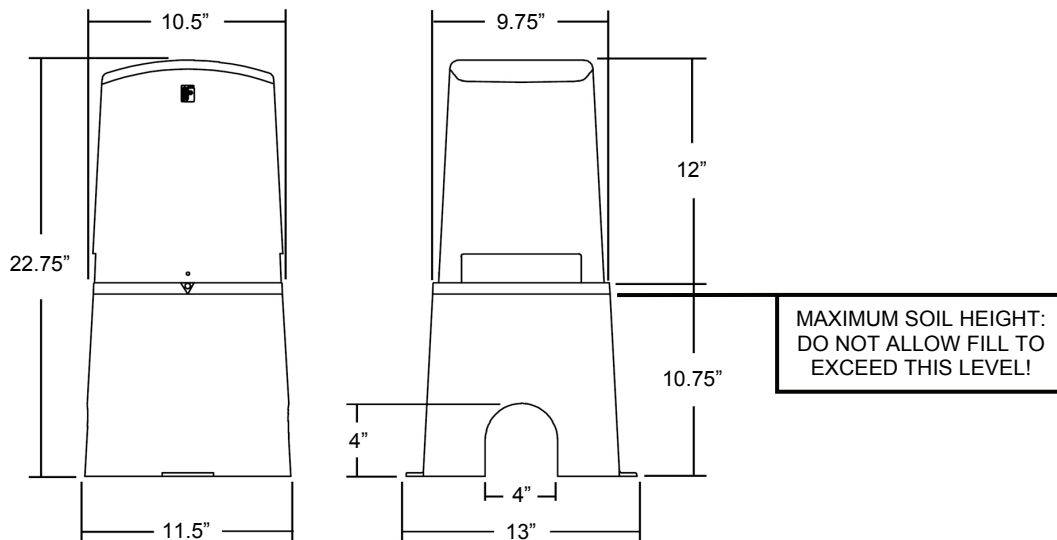




6004 SERIES

INSTALLATION MANUAL



SPECIFICATIONS

CONSTRUCTION

Case: High Impact Polycarbonate
 Ventilation: 110 cu ft/min air volume
 Acoustic rating: 50dB(A)
 Weight: 20 lbs.

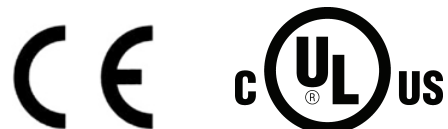
ELECTRICAL

Voltage required: 120VAC 60Hz
 Power consumption: 200 Watts max
 Start current load: 4.4 amps
 Current usage: 1.8 amps

LAMP

Type: Metal-Halide, proprietary design
 Lamp life: 6000 hrs average
 Cool down restrike period: 3 minutes
 Replacement p/n: Y20-6000

WARNING: DO NOT INSTALL WITHIN 1.5M (5 FT.) OF A POOL, SPA, OR HOT TUB.
ADVERTISSEMENT: NE PAS INSTALLER A MOINS DE 1,5M D'UNE PISCINE OU D'UNE CUVE DE RELAXATION.



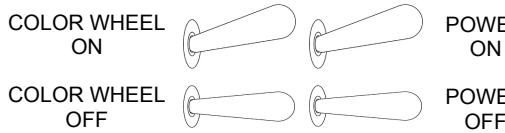
ELECTRICAL CONNECTIONS

6004 SERIES

120v 60Hz ONLY

TOGGLE SWITCH POSITIONS

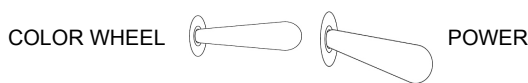
MANUAL CONTROL



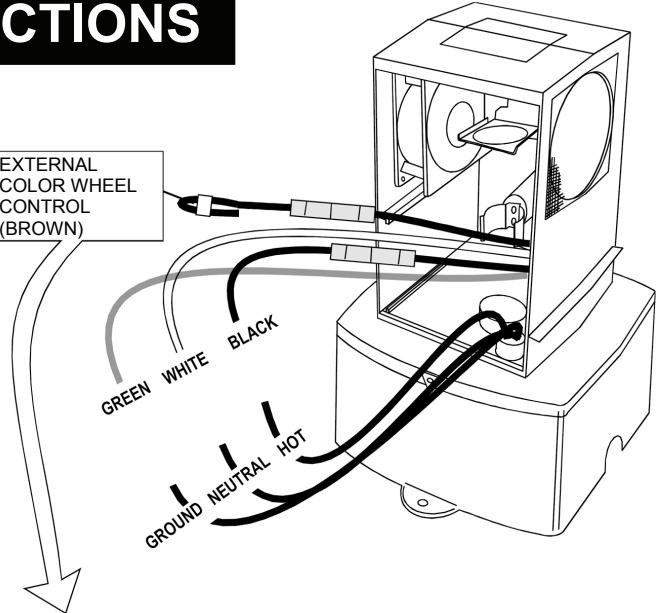
EXTERNAL AUTO CONTROL



OPTIONAL RM6000 CONTROL



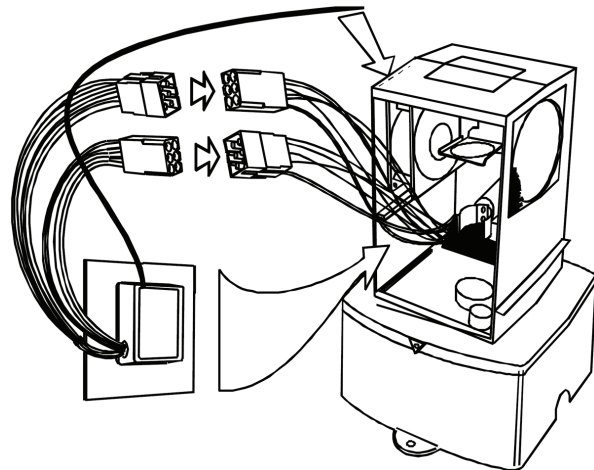
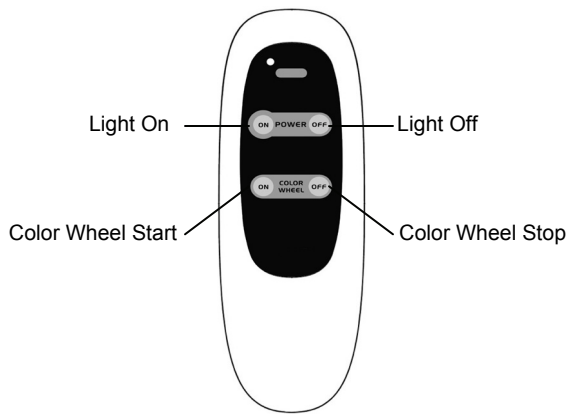
EXTERNAL
COLOR WHEEL
CONTROL
(BROWN)



EXTERNAL AUTO CONTROL HOOK-UP FOR COLOR WHEEL
For WPC, Jandy Aqualink, Compool, etc.

Run a 120V hot wire to the illuminator from a second relay in the control's sub panel for the color wheel control. Connect this wire to the folded brown wire with fuse. Place the Color Wheel toggle switch in the bottom position.

OPTIONAL RM6000 WIRELESS REMOTE



This RM6000 Automatic Operating System package is specifically designed for the Lifetime Illuminator™ fiber optic illuminator and should not be modified or adapted in any way. This is an electric component and should only be installed by a qualified technician. Please follow the instructions carefully. RANGE IS APPROXIMATELY 75 FEET DEPENDING ON CONDITIONS.

TOGGLE SWITCH POSITIONS

OPTIONAL RM6000 CONTROL



INSTALLATION GUIDELINES

REFER TO THE DIAGRAM ON THE FRONT OF THIS MANUAL FOR THE FOLLOWING PROCEDURES

- 1) SEE OUR GENERAL INSTALLATION MANUAL FOR FIBER AND CONDUIT INSTALLATION IN THE POOL. THIS MANUAL COVERS THE 6000 SERIES ILLUMINATOR INSTALLATION ONLY.
- 2) CUT THE FIBER CONDUITS SO THEY WILL ENTER THE INSTALLATION BASE APPROXIMATELY HALFWAY. CUT THE ELECTRICAL CONDUIT SO IT WILL PROTRUDE PAST THE CONDUIT HOLE 1" OR LESS (FIG A.). PULL ALL FIBER OPTIC CABLES AT LEAST 12" THROUGH THE TOP OF THE INSTALLATION BASE.
- 3) FOLLOW THE PORT ASSEMBLY PROCEDURES ON THE BACK OF THIS MANUAL.
- 4) PLACE THE CHASSIS ON THE INSTALLATION BASE. SECURE THE ILLUMINATOR WITH THE TWO SCREWS SUPPLIED. SNAP THE PORT INTO THE CLIP ON THE CHASSIS. MAKE SURE IT SEATS FIRMLY INTO THE CLIP (FIG B.).
- 5) MAKE THE ELECTRIC CONNECTIONS AS SHOWN ON THE PREVIOUS PAGE. MAKE SURE NO WIRES INTERFERE WITH THE COOLING FAN OR COLOR WHEEL.
- 6) a) IF INSTALLING IN THE GROUND:
BACKFILL HALFWAY UP THE INSTALLATION BASE. ALLOW AMPLE HEIGHT FOR TOP SOIL AND LANDSCAPING. DO NOT ALLOW THE VENTS ON THE BOTTOM OF THE ILLUMINATOR TO BE BLOCKED. THIS WILL CAUSE THE ILLUMINATOR TO OVERHEAT AND SHUT OFF.
b) IF SURFACE MOUNTING:
USE PROPER SECURING SCREWS FOR THE SURFACE TYPE YOU ARE ATTACHING TO, USING THE 2 HOLES PROVIDED ON THE BASE. EXAMPLE: FOR CONCRETE, USE PROPER CONCRETE SCREWS. FOR WOOD SURFACE, USE PROPER WOOD SCREWS.

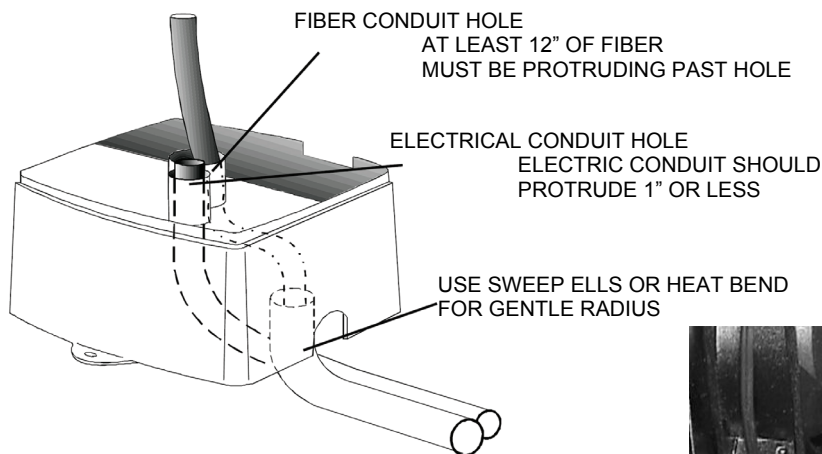


FIG A.

APPROVED CONDUITS FOR USE WITH FIBER OPTIC CABLES

- White PVC conduit/pipe SCH 40 or SCH 80
- Gray PVC conduit/pipe SCH 40 or SCH 80
- Flexible PVC pipe
- Black poly pipe
- Any other suitable conduit

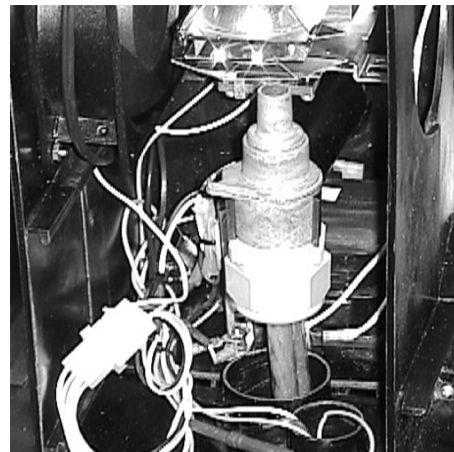
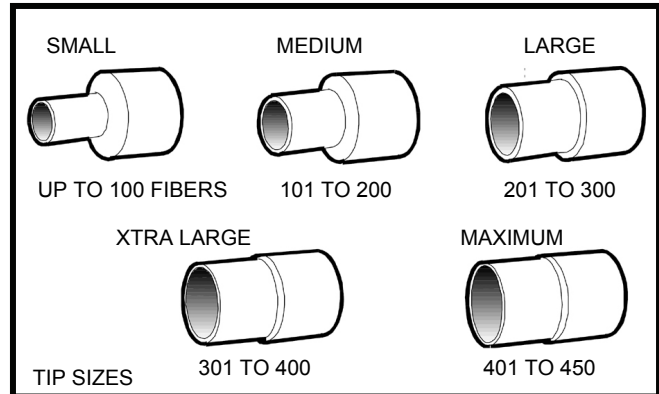


FIG B.

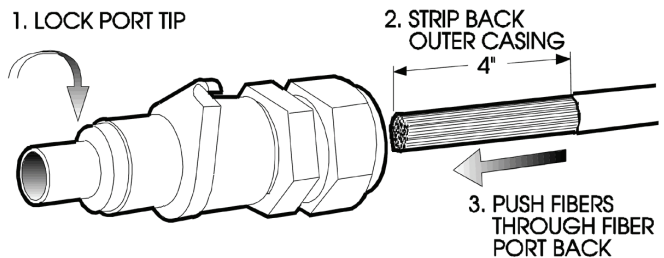
PORT ASSEMBLY/FIBER TERMINATION

A) Insure that the total fiber count of all fiber tubings is 450 or less. If you have more than 450 individual fibers, you will need a second illuminator. The maximum capacity of the 6004 series port is 450 fibers (optional CCS-600 for expanding port to 600 fibers sold separately).

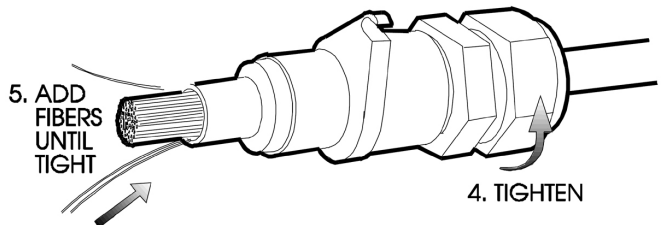


B) Insert the proper size tip into the port and twist with pliers to lock (fig. 1).

C) Strip back all fiber casings no less than 4 inches (fig. 2). Take care not to nick the fibers.



D) Insert the bare fibers into the port so ALL fibers protrude past the port tip (fig. 3). Tighten the port compression nut down on the fiber casing (fig. 4).



E) **IMPORTANT:** If the port tip is not completely full, insert scrap individual fibers into the tip until it is completely full (fig. 5). This will keep the lit fibers perpendicular to the lamp, and prevent the fibers from overheating.

F) Plug in the hot knife (p/n FS-118) and allow it to heat up. Apply firm downward pressure on the fibers, with the blade touching the port tip at a slight angle (fig. 6.) Do not saw at the fibers. Allow the heat of the knife to slowly trim the fibers. Ease the pressure as the knife almost completes the cut. Unplug the hot knife and place it in a safe place to cool.

