

Adagio

English..... Page 2



RGB
Cool white
Warm white
Blue
Tunable white

OWNER'S MANUAL

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Technical specifications

Lamp Type	Description	Voltage	Power	Nom. Tc	Lumen	
PLP050-RGB	RGB color 50 mm	10-14 VAC	10 W	n.a.	400 lm	
PLP100-RGB	RGB color 100 mm	10-14 VAC	45 W	n.a.	1700 lm	
PLP170-RGB	RGB color 170 mm	10-14 VAC	75 W	n.a.	3000 lm	
PLP050-WH	Sun White 50 mm	10-14 VAC	6 W	7000K	600 lm	
PLP100-WH	Sun White 100 mm	10-14 VAC	30 W	7000K	2600 lm	
PLP170-WH	Sun White 170 mm	10-14 VAC	60 W	7000K	5500 lm	
PLP050-WW	Warm White 50 mm	10-14 VAC	6 W	3300K	540 lm	
PLP100-WW	Warm White 100 mm	10-14 VAC	30 W	3300K	2350 lm	
PLP170-WW	Warm White 170 mm	10-14 VAC	60 W	3300K	4950 lm	
PLP050-BL	Blue fixed 50 mm	10-14 VAC	6 W	n.a.	165 lm	
PLP100-BL	Blue fixed 100 mm	10-14 VAC	25 W	n.a.	470 lm	
PLP170-BL	Blue fixed 170 mm	10-14 VAC	60 W	n.a.	1450 lm	
PLP050-TW	Tunable white 50 mm	10-14 VAC	10 W	3000-6500K	500 lm	
PLP100-TW	Tunable white 100 mm	10-14 VAC	45 W	3000-6500K	2150 lm	
PLP170-TW	Tunable white 170 mm	10-14 VAC	75 W	3000-6500K	4250 lm	
For operation only with a safety isolation						

transformer For operation only with a safety isolation ⟨III⟩ IEC Protection Class III

10 VAC 50/60 Hz Minimum input voltage:

(at lamp terminals)

Nominal input voltage: (at lamp terminals)

12 VAC 50/60 Hz

+40°C Maximum water temperature:

Operation on DC voltages is NOT allowed

Maximum input voltage: (at lamp terminals)

14 VAC 50/60 Hz

Lamps have to be kept out of ice zones

IP68 measured at 3m max depth = 3m

Power factor:

> 0.90

Ingress protection rate:

Remarks

The luminaire is maintenance free If the luminaire needs to be replaced, it needs to be completely removed from the water



If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid hazard



Adagio^{pro} Pool lamps must be completely submerged into water during operation. Fixing the lamps with adhesives or silicone kit into a niche is not allowed Not following these instructions, will void warranty.

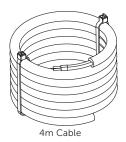
Box contents



ADAGIOPRO Lamp (50,100 or 170 mm)



Connection Kit ADAGIO^{PRO} (513-0152 or 513-0219)



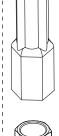




(only for 170mm models)

mounting face plate

Contact your local distributor for Toolset: 513-0151 (not included)





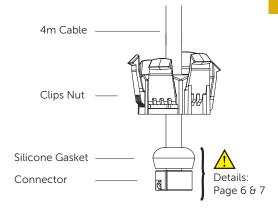






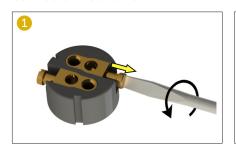
Installation instructions

mounting the connector

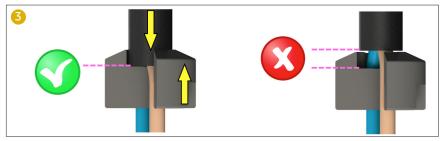




Connector installation









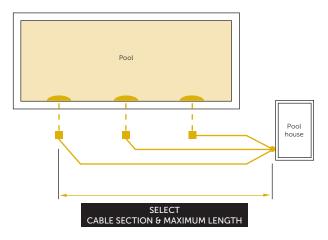




Wiring instructions Setup 1

For new installations

Each lamp is connected to the transformer by a separate cable



— — 4m cable included in lamp package
 — Separate cable (not included)



Always use a toroïdal transformer

SELECT <u>CABLE SE</u>CTION & MAXIMUM LENGTH

		LAMP TYPE	1,5mm²	2,5mm²	4,0mm²	6,0mm²	10mm²	VA TRANSFORMER (12VAC)*
0	•	PLP050-WH PLP050-WW PLP050-BL	122m	204m	326m	490m	820m	8 VA
		PLP050-RGB / TW	79m	132m	212m	318m	530m	12 VA
0	0	PLP100-WH PLP100-WW PLP100-BL	26m	43m	69m	104m	173m	32 VA
		PLP100-RGB / TW	15m	25m	41m	61m	100m	48 VA
	•	PLP170-WH PLP170-WW PLP170-BL	11m	19m	30m	46m	75m	66 VA
\sim		PLP170-RGB / TW	8m	14m	23m	35m	57m	80 VA

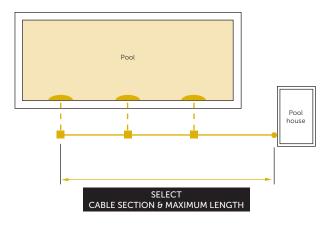
STABLE OPERATION OF THE POOL LIGHTS IS ONLY GUARANTEED WHEN THE INSTALLED CABLE CROSS SECTION MATCHES OR EXCEEDS THE ADVISED VALUES IN THE ABOVE TABLE

^{*} The transformer VA rating must be greater or equal to the sum of VA ratings of all connected lamps. These cable lenghts are calculated with worst case voltage drops in the electrical wiring.

Wiring instructions Setup 2

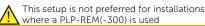
For existing or other installations

All lamps are connected to the transformer via 1 cable



— — — 4m cable included in lamp package

— Separate cable (not included)



SELECT CABLE SECTION & MAXIMUM LENGTH

		LAMP TYPE	QTY	2,5mm ²	4,0mm²	6,0mm ²	10mm²	VA TRANSFORMER (12VAC)
0	O	PLP050-WH PLP050-WW PLP050-BL	1 2 3 4	204m 102m 68m 51m	326m 163m 108m 81m	490m 245m 163m 122m	820m 410m 273m 205m	8 16 24 32
		PLP050-RGB / TW	1 2 3 4	132m 66m 44m 33m	212m 106m 70m 53m	318m 159m 106m 79m	530m 265m 176m 132m	12 24 36 48
O	•	PLP100-WH PLP100-WW PLP100-BL	1 2 3 4	43m 21m 14m 10m	69m 34m 23m 17m	104m 52m 34m 26m	173m 86m 57m 43m	32 64 96 128
		PLP100-RGB / TW	1 2 3 4	25m 12m 8m 6m	41m 20m 13m 10m	61m 30m 20m 15m	100m 50m 33m 25m	48 96 144 192
\bigcirc	•	PLP170-WH PLP170-WW PLP170-BL	1 2 3 4	19m 9m 6m	30m 15m 10m 6m	46m 23m 15m 11m	75m 37m 25m 18m	66 132 198 264
		PLP170-RGB / TW	1 2 3 4	14m 7m - -	23m 11m 7m 5m	35m 17m 11m 8m	57m 28m 19m 14m	80 160 240 320

STABLE OPERATION OF THE POOL LIGHTS IS ONLY GUARANTEED WHEN THE INSTALLED CABLE CROSS SECTION
MATCHES OR EXCEEDS THE ADVISED VALUES IN THE ABOVE TABLE

Wiring remarks

For installations with PLP-REM & PLP-REM-300

Third party equipment such as frequency inverters and electric motors can generate excessive noise on the 230VAC / 400VAC power line.

This noise might be injected into the adjacent 12VAC power line and disturb the power line communication towards the Adagio^{Pro} RGB lights.

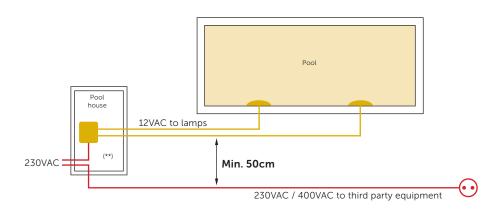
To prevent this, please take care of the following:



Keep 230VAC / 400VAC power line cables at least 50cm separated over their full length from the 12VAC power line towards any RGB lights

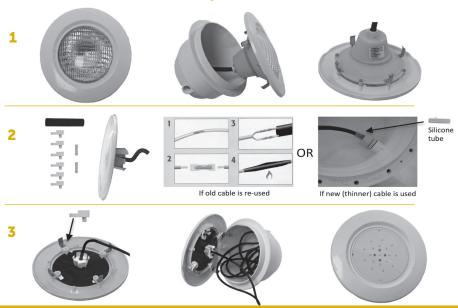


Do not mix 12VAC and 230VAC / 400VAC power line cables into the same cable trays $\,$



(**) Do not mix 12VAC and 230VAC / 400VAC power line cables into the same cable trays

Retrofit in PAR56 niche (only PLP170)



Color programs



7 fixed colours

- DEEP BLUE SEA Saturated blue
- 2 DAYLIGHT BLUE Light blue
- 3 SUNSET Orange red
- 4 LOVE IS IN THE AIR Red
- **5** FOREST SPRING Green
- 6 THINK PINK
- **7** SUNSHINE Yellow

4 dynamic colors

- 3 JUNGLE BEACH
 Saturated blue
 Light blue
 Azur blue
 Mid blue
 Light blue
- 9 VOODOO Red - Wine red -Purple - Bordeau (slowly changing)

(slowly changing)

DISCO
Lila - pink - peach light yellow
light green
light blue
(quickly changing)

PARTY Blue - azur blue green - green/red red - blue - lila -

Blue - azur blue green - green/red red - blue - lila light pink - peach yellow - light green light blue - lila (quickly changing)

3 white tones

- WARM WHITE 3000K
- NEUTRAL WHITE 6000K
- SUN WHITE 10.500K

TW LAMPS

7 white tints

- **1** 3200К
- 2 3800К
- **3** 5400K
- **4** 7300K
- **5** 14800K
- 6 LIGHT BLUE
- 7 BLUE

^{*} all color programs are dimmable if PLP-REM or PLP-REM-300 are used (in PLC mode)

Synchronizing & color changing (for RGB and TW lamps only)

Manual synchronization

- Switch ON the 12 VAC line voltage and make sure that all lamps light up.
- 2. Switch OFF the 12 VAC line voltage and wait for at least 20 sec.
- 3. Switch ON and switch OFF
- 4. Switch ON and switch OFF
- 5. Switch ON
- The lamps should now all be on color program 1 for RGB lamps: fixed blue light (Deep blue Sea) for TW lamps: 3200K

Changing colors

Quickly turn the lamps OFF and back ON The lamp will jump to the next color program (1 --> 14)

Memorizing the last color

Turn the lamp OFF for MINIMUM 20 seconds The last chosen color has now been memorized

The use of **PLP-REM** or **PLP-REM-300** control units enables extended features like automatic synchronisation, dimming and DMX / RS485 control

Troubleshooting

PROBLEM

. The pool light is flickering

SOLUTION

- Switch the lamps ON
 For RGB lamps: select the Sun White color program
- Remove the lamp from the water, unscrew the clips nut, pull back the gasket and the black cable jacket, so you can reach the brass contacts inside the connector block (do not remove the connector block)
- 3. Measure the voltage at the lamp terminals (while the lamp is still ON)
- 4. The voltage at the lamp should be at least 10VAC 50/60hz. If the measured line voltage is below 10VAC:
 - A. Check the output voltage at the transformator terminals. This voltage should be between 12VAC and 14VAC. Verify that the used transformator VA rating is sufficient for powering all connected lamps
 - B. If the transformator output voltage is ok, then install a thicker cable between the transformator and the lamp. (wiring instructions p. 8-13)

 Several pool lights in the pool show different color programs Make sure that all lamps are connected to the same 12VAC power line. Execute the synchronization as explained on p.16