welldana



English..... Page 2



RGB
Cool white
Warm white
Blue
Tunable white

OWNER'S MANUAL

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ENG

Technical specifications

Lamp Type	Descr	iption	Voltage	Power	Nom. Tc	Lumen	
PLP050-RGB		olor 50 mm	10-14 VAC	10 W	n.a.	400 lm	
PLP100-RGB PLP170-RGB		olor 100 mm olor 170 mm	10-14 VAC 10-14 VAC	45 W 75 W	n.a. n.a.	1700 lm 3000 lm	
PLP050-WH	Sun White 50 mm		10-14 VAC	6 W	7000K	600 lm	
PLP100-WH		nite 100 mm	10-14 VAC	30 W	7000K	2600 lm	
PLP170-WH	Sun Wl	nite 170 mm	10-14 VAC	60 W	7000K	5500 lm	
PLP050-WW		White 50 mm	10-14 VAC	6 W	3300K	540 lm	
PLP100-WW		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 fix	ked 50 mm	10-14 VAC	6 W	n.a.	165 lm	
PLP100-BL	Blue fi>	ked 100 mm	10-14 VAC	25 W	n.a.	470 lm	
PLP170-BL	Blue fix	ked 170 mm	10-14 VAC	60 W	n.a.	1450 lm	
PLP050-TW	Tunabl	e white 50 mm	10-14 VAC	10 W	3000-6500K	500 lm	
PLP100-TW	Tunabl	e white 100 mm	10-14 VAC	45 W	3000-6500K	2150 lm	
PLP170-TW	Tunabl	e white 170 mm	10-14 VAC	75 W	3000-6500K	4250 lm	
For operation only with a safety isolation transformer							
Animum input voltage: 10 VAC 50/60 Hz Operation on DC voltages is NOT allowed (at lamp terminals)							
Nominal input voltage: 12 VAC 50/60 Hz (at lamp terminals)		z Maxim	Maximum water temperature:			bolic	
Maximum input voltage: 14 VAC 50/60 Hz (at lamp terminals)		z Ingres	Ingress protection rate:			be kep es	
Power factor: >		> 0,90		measured at 3m max depth = 3m			

Remarks

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

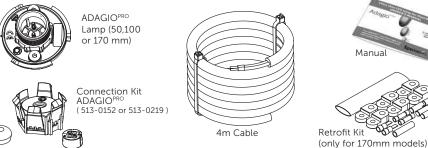


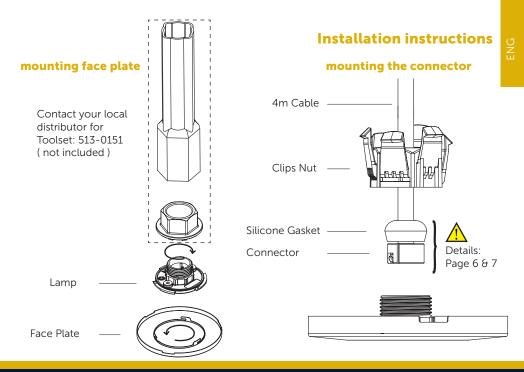
If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person in order to avoid hazard



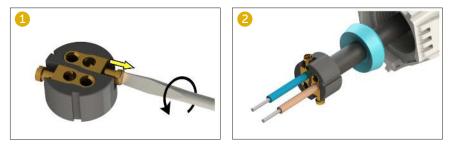
Adagio^{pro} Pool lamps must be completely submerged into water during operation. Fixing the lamps with adhesives or silicone kit into a niche is not allowed Not following these instructions, will void warranty.

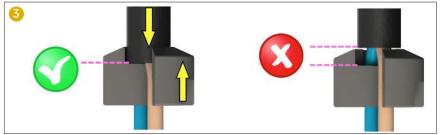
Box contents





Connector installation







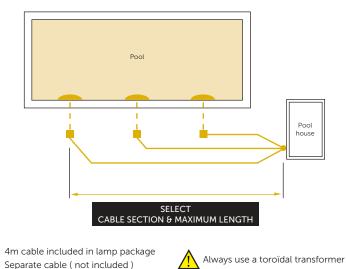




Wiring instructions Setup 1

For new installations

Each lamp is connected to the transformer by a separate cable



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		CABLE	SECTIO				
	LAMP TYPE	1,5mm²	2,5mm ²	4,0mm ²	6,0mm ²	10mm ²	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
\bigcirc	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
	PLP170-RGB / TW	8m	14m	23m	35m	57m	80 VA

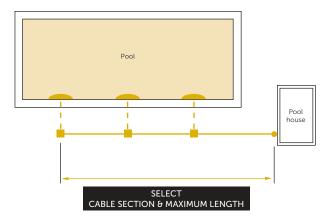
STABLE OPERATION OF THE POOL LIGHTS IS ONLY GUARANTEED WHEN THE INSTALLED CABLE CROSS SECTION MATCHES OR EXCEEDS THE ADVISED VALUES IN THE ABOVE TABLE

* 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.

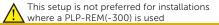
Wiring instructions Setup 2

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)



			CABLE SECTION & MAXIMUM LENGTH					
		LAMP TYPE	QTY	2,5mm²	4,0mm²	6,0mm²	10mm ²	VA TRANSFORMER (12VAC)
0	•	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
	0	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
0		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
	0	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
\frown	•	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
J	0	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

SELECT

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.

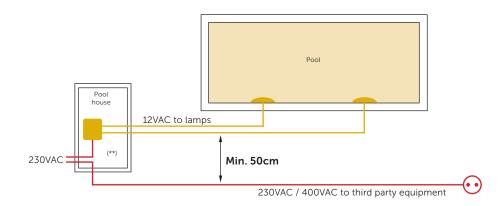
To prevent this, please take care of the following:



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

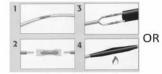


(**) Do not mix 12VAC and 230VAC / 400VAC power line cables into the same cable trays

Retrofit in PAR56 niche (only PLP170)







If old cable is re-used



Silicone

If new (thinner) cable is used



3

Color programs

2

5

6

RGB LAMPS TW LAMPS 7 white tints 7 fixed colours 4 dynamic colors **3 white tones** DEEP BLUE SEA JUNGLE BEACH WARM WHITE (8) 12 3200K Saturated blue Saturated blue 3000K Light blue Azur blue Mid blue DAYLIGHT BLUE 3800K 2 NEUTRAL WHITE Light blue (13) Light blue 6000K (slowly changing) VOODOO 9 SUNSET 5400K 3) Red - Wine red -Orange red Purple - Bordeau SUN WHITE 14 10.500K (slowly changing) LOVE IS IN THE AIR 7300K DISCO Red 10 Lila - pink - peach light yellow FOREST SPRING light green 14800K light blue Green (quickly changing) THINK PINK LIGHT BLUE PARTY 6 Pink Blue - azur blue green - green/red red - blue - lila -SUNSHINE light pink - peach -BLUE Yellow yellow - light green light blue - lila (quickly changing)

* 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

- 1. 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
- 6. 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 ($1 \dashrightarrow 14$)

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

- 1. 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