

Control panels

by PROCOPI

Filtration
Commercial pools
Heating
Level regulation
Automatic covers



X-Light



Swimline



Commercial pools



SR-Light

CONTROL PANELS

Each of our control panels is made of top quality components carefully selected on the basis of their excellent performance data.

The injected resin casings were purpose designed to satisfy the requirements of pool builders and pool users.

The control panels come with a wall mounting system and an appropriate circuit breaker.

They comply with the electrical safety standard NF 60439-1 and the EMC safety standards NF 55014 and NF 55104.



Buffer tank regulator (RED-2)

TECHNICAL DATA :

- Protection rating IP 55,
- Two layers of waterproofing:
 - an o-ring on the cover,
 - an o-ring on the glass door,
- Hinge mounted, reversible, smoked glass door,
- All the controls are protected behind the glass door (no controls located on the outside),
- Rocker switches,
- Indicator lights (LEDs),
- Comes with a circuit breaker, up to 14 Amps,
- Terminal block to facilitate connections,
- Delivered with a wall bracket,
- Generously proportioned for easy wiring,
- One control panel can command up to 3 underwater lights.

The transformers used to supply the two and three 300W/12A underwater lights have a rating of 700 VA and 100 VA respectively, this significantly reduces heating.

The 16A earthed plug is only available for control panels not equipped with the automatic cleaner option. The 16A earthed plug option comprises:

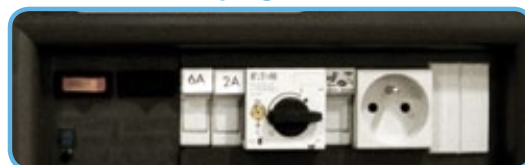
- 1 fuse housing,
- 1 plug module.

General protection is provided by the 30mA circuit break at the head of the line.



Swimline CFB-1

16A plug version



1	Reference	Swimline filtration control panels
	CFB-1	Filtration / automatic cleaner control panel
	CFP-050	Filtration control panel with transformer for 1 LED or 50 W underwater light
	CFP-100	Filtration control panel with transformer for 2 LED or 50 W underwater lights
2	CFP-315	Filtration control panel with transformer for 1 300 W / 12 V underwater light
	CFP-700	Filtration control panel with transformer for 2 300 W / 12 V underwater lights
	CFP-1000	Filtration control panel with transformer for 3 300 W / 12 V underwater lights
	SUP-BA	Supplement (1ph 10 A) for automatic cleaner for CFB-1 and CFP control panels
	SUP-RTEMP	Supplement for automatic regulation of the filtration cycle as a function of water temperature
	0660060	Automatic cleaner control panel - CFB-1 / 10 A
	0660003	Supplement for a 60 Hz timer
	▶ ACCESSORIES	
	-	Bag of 6 cable glands (2 x Ø7 mm + 2 x Ø13 mm + 2 x Ø16 mm)



Swimline CFP-1000

Filtration control panel with transformers for 3 underwater lights

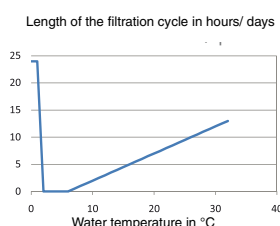
Swimline and X-Light with temperature slaved regulation of the filtration cycle

TECHNICAL DATA:

In addition to the standard features listed for Swimline and X-light control panels, the models that include temperature slaved regulation of the filtration cycle are fitted with:

- A PLC that replaces the programmable timer,
- A manual override,
- A temperature sensor with 6 m cable,
- A titanium thermowell, mounted on a reducing tee 1/2" or a saddle clamp.

Calculation of the filtration cycle



Swimline control panel 16A plug option



Filtration control panel - SR-Light

TECHNICAL DATA:

- Hinge mounted glass door,
- All the controls are protected behind the glass door (no controls located on the outside),
- Rocker switches,
- Comes with a circuit breaker, up to 14 Amps,
- Terminal block to facilitate connections,
- Comes with the bushings, screws and cable glands required for installation,
- **The transformers used to supply the two 300W/12A underwater lights have a rating of 700 VA, this significantly reduces heating.**

All our control panels come with a suitable thermo-magnetic circuit breaker.



SR-Light

Reference	SR-Light Control panel
SRF-1	Filtration / automatic cleaner control panel
SRF-050	Filtration control panel with transformer for 1 LED or 50 W underwater light
SRF-100	Filtration control panel with transformer for 2 LED or 50 W underwater lights
SRF-315	Filtration control panel with transformer for 1 300 W / 12 V underwater light
SRF-700	Filtration control panel with transformer for 2 300 W / 12 V underwater lights
SUP-BA	Supplement (1ph 10 A) for automatic cleaner for SRF control panel
0670060	Control panel for automatic cleaner - SRF-1 / 10 A
0674000	Control panel for one 300 W/12 V underwater light - CT-315
0674500	Control panel for two 300 W/12 V underwater lights - CT-700
0660003	Supplement for a 60 Hz timer

Filtration control panel - X-Light

TECHNICAL DATA:

- Hinge mounted glass door,
- All the controls are protected behind the glass door (no controls located on the outside),
- Rocker switches,
- Comes with a circuit breaker, up to 14 Amps,
- Terminal block to facilitate connections,
- Comes with the bushings, screws and cable glands required for installation,
- **The transformers used to supply the two 300W/12A underwater lights have a rating of 700 VA, this significantly reduces heating.**

All our control panels come with a suitable thermo-magnetic circuit breaker.



X-Light

Reference	X-Light control panel
XBA	Filtration / automatic cleaner control panel
XRF-050	Filtration control panel with transformer for 1 LED or 50 W underwater light
XRF-100	Filtration control panel with transformer for 2 LED or 50 W underwater lights
SUP-RTEMP	Supplement for automatic regulation of the filtration cycle as a function of water temperature
0689261	Control panel for automatic cleaner - XRF-1 / 10 A



RED-1: Pool water level regulation control panel, comprising an adjustable level sensor, a timer and a brass 20/ 27 solenoid valve. Protected by a fuse.



RED-2: Balance tank regulation control panel comprising 5 stainless steel sensors (ground, pump shut down, solenoid valve open and close, overflow safety) and a 20/27 brass solenoid valve. Protected by a fuse.

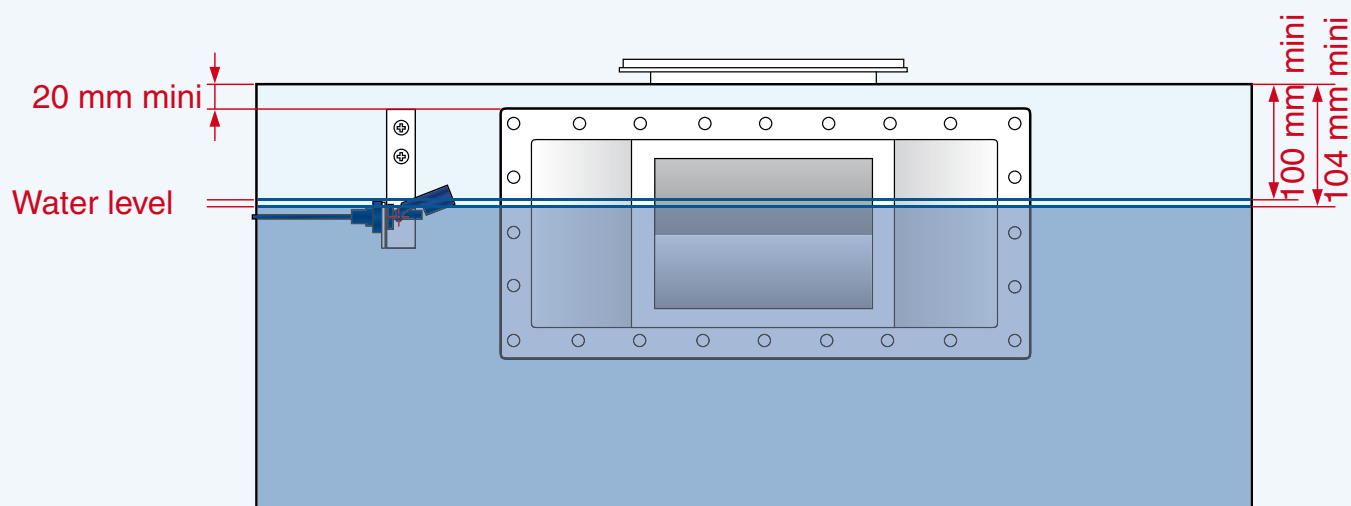


RED-3: Balance tank regulation control panel comprising 5 stainless steel sensors (ground, pump shut down, pump start up, solenoid valve open and close, overflow safety) and a 20/27 brass solenoid valve. Protected by a fuse.



Reference	Description
▶ SWIMLINE	
1	RED-1 Electronic pool water level controller, with solenoid valve
2	RED-2 Balance tank level controller (with 5 SS sensors and 1 solenoid valve)
3	RED-3 Balance tank level controller (with 7 SS sensors and 1 solenoid valve)
▶ SR-LIGHT	
4	RED-1 Electronic pool water level controller, with solenoid valve
5	RED-2 Balance tank level controller (with 5 SS sensors and 1 solenoid valve)
RED-2-SEV	Balance tank level controller (with 5 SS sensors and no solenoid valve)

Level sensor installation diagram (RED-1)



Automatic cover control panel - Swimline



Code	Description
32290100	Swimline control panel, for Aquamat 3001 geared motor
32290200	Shielded Swimline control panel, for Aquamat 3001 geared motor
32291000	Control panel, for PL3 geared motor with PLCe

Heating control panel - SR-Light

TECHNICAL DATA:

- CHB-18: control panel with 24V low voltage regulation, for electrical heaters up to 6 kW 1ph or 18 kW 3ph.
Aquastat not included.
- CHB-CH: heat exchanger control panel, with thermo magnetic circuit breaker.
Aquastat not included.



Code	Reference	Description
0676000	CHB-18	Control panel for electrical heater 6 kW 1ph / 18 kW 3ph CHB-18
0676500	CHB-CH	Control panel for heat exchanger CHB-CH





TECHNICAL DATA:

- 1 waterproof metal cabinet (IP 55 rating) fitted with a lock,
- 1 external main disconnect switch,
- 1 Pilot light,
- 1 Daily timer to control pump operation,
- 1 230V control circuit fuse.

Each of our control panels are made of top quality components carefully selected on the basis of their excellent performance data.

Each filtration motor control is fitted with; 1 adjustable thermo magnetic circuit breaker, 1 contactor, 1 automatic / stop/ manual switch on the front panel.

Each underwater light control is fitted with; 1 230 W/ 12V transformer in accordance with the standard EN 60.742 and is protected by a thermal magnetic circuit breaker on the primary circuit (315 VA) or on the primary and secondary circuits (700 VA), 1 On/Off switch on the front panel.

- All incoming and outgoing cables are wired to a labelled terminal board,
- Control panels are delivered with a wiring and a connection diagram,
- Cabinets are delivered with a set of cable glands,
- All commercial control panels come with a palm button emergency stop.

Code	Description	Capacity in unit volume (UV)
690090	Cabinet 400x300x200 / commercial ctl panel	0 < UV ≤ 3
690091	Cabinet 600x400x200 / commercial ctl panel	3 < UV ≤ 10
690092	Cabinet 700x500x250 / commercial ctl panel	10 < UV ≤ 16
690093	Cabinet 800x600x250 / commercial ctl panel	16 < UV ≤ 24
690094	Cabinet 800x800x300 / commercial ctl panel	24 < UV ≤ 30
690095	Cabinet 1000x800x300 / commercial ctl panel	30 < UV ≤ 38
690096	Cabinet 1200x800x300 / commercial ctl panel	38 < UV ≤ 42
690097	Cabinet 1200x1000x300 / commercial ctl panel	42 < UV ≤ 53

HOW TO SELECT A CABINET BASED ON THE ELEMENTS IT MUST HOLD

To determine the size of the cabinet necessary, calculate the units of volume for each module selected and add these together.

Simply multiply the unit value of each module by the number of modules to be added.

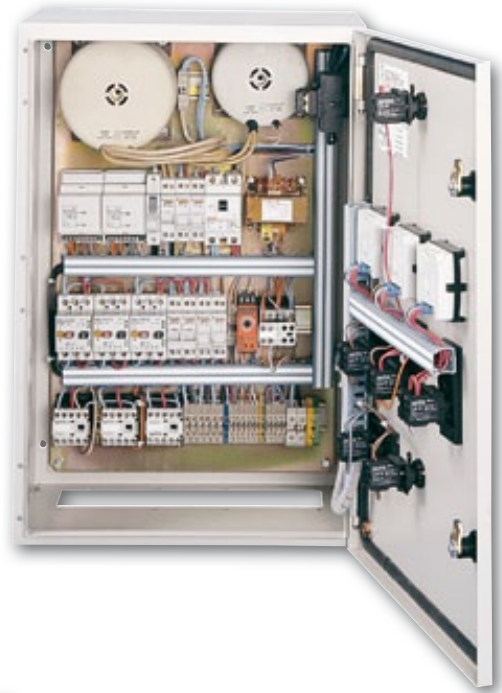
Example: 1 control panel with 4 pumps , 4 300W underwater lights, supplement for 1 automatic cleaner, 1 buffer tank regulation and 1 clogging alarm.

Code	Description	Unit value (UV)	Nr of modules in this example	total no. of UV
690002	Module for 1 pump	2	4	8
690004	Module for 1 underwater light 700VA/12V	5	2	10
690010	Module for 1 automatic cleaner	2	1	2
690035	Module for 1 RED-3 regulation with 7 sensors	7	1	7
690050	Module for 1 entrapment alarm	2	1	2
Total units of volume				29
Therefore, to hold all these modules your will need:				
690094	Cabinet 800x800x300		24 < UV ≤ 30	30

Nota Bene: in this example, the 4 300W underwater lights are supplied by 2 700 VA transformer modules.

Available modules

Code	Description	UV
0690002	1 pump	2
0690003	1 transformer 315 VA / 12V	3
0690004	1 transformer 700 VA / 12 V	5
0690005	1 transformer 50 VA / 12 V	2.5
0690006	1 transformer 100 VA / 12 V	2.5
0690010	1 automatic cleaner	2
0690011	1 remote installed emergency stop	1
0690012	1 heating, 1ph 40 A	1.5
0690013	1 heating, 3ph, 40 A	1.5
0690014	1 timer mounted on the front panel	0.5
0690015	1 pneumatic switch	2
0690017	1 LED	0
0690019	1 supplement for timer with reservation	0
0690020	1 dosing pump	1.5
0690021	1 external plug, 16A 1ph	0.5
0690022	1 cabinet fan, 85m ³ /h	0.5
0690023	1 power supply, 1ph 40 A	1.5
0690024	1 power supply tetrapolar 40 A	1.5
0690025	1 slaving	0.5
0690026	1 Auto-Stop-Manual switch	0
0690027	1 heating, tetrapolar 80 A	3
0690028	1 heating, tetrapolar 100 A	7
0690029	1 cabinet fan, 163 m ³ /h	0.5
0690030	1 optional remote control underwater light switch	1
0690035	1 regulation RED-3 with 7 sensors	7
0690045	1 regulation RED-1	3
0690050	1 entrapment alarm	2
0690051	1 supplement, 80 to 100 A	5
0690052	1 supplement, 100 to 160 A	7
0677705	1 pressure switch MCS-4	0.5



FREE QUOTES

A quote will be issued for all 60 Hz control panels.

The addition of one or more options to a commercial pool control panel may entail upsizing of the cabinet with a corresponding increase in the price above that indicated for the option or options.

CUSTOM BUILDS: From detailed specifications we can build any type of commercial control panel with several pumps and options.

Technical reminders

POWER CONSUMED BY THE ELECTRICAL MOTORS					
Motors 1ph 230 V		Power		Motors 3ph 400 V	
Breaker rating	Current requirement	CV	kW	Current requirement	Breaker rating
1.6 / 2.5	2.2 A	0.33	0.25	-	-
2.5 / 4.0	3.12 A	0.50	0.37	1.03 A	1.0 / 1.6
4.0 / 6.3	4.76 A	0.75	0.55	1.60 A	1.6 / 2.5
6.3 / 10.0	6.01 A	1	0.75	2.00 A	1.6 / 2.5
6.3 / 10.0	7.60 A	1.5	1.1	2.60 A	2.5 / 4.0
10.0 / 16.0	10.40 A	2	1.5	3.50 A	2.5 / 4.0
-	-	3	2.2	5.00 A	4.0 / 6.3
-	-	4	3.0	6.60 A	6.3 / 10.0

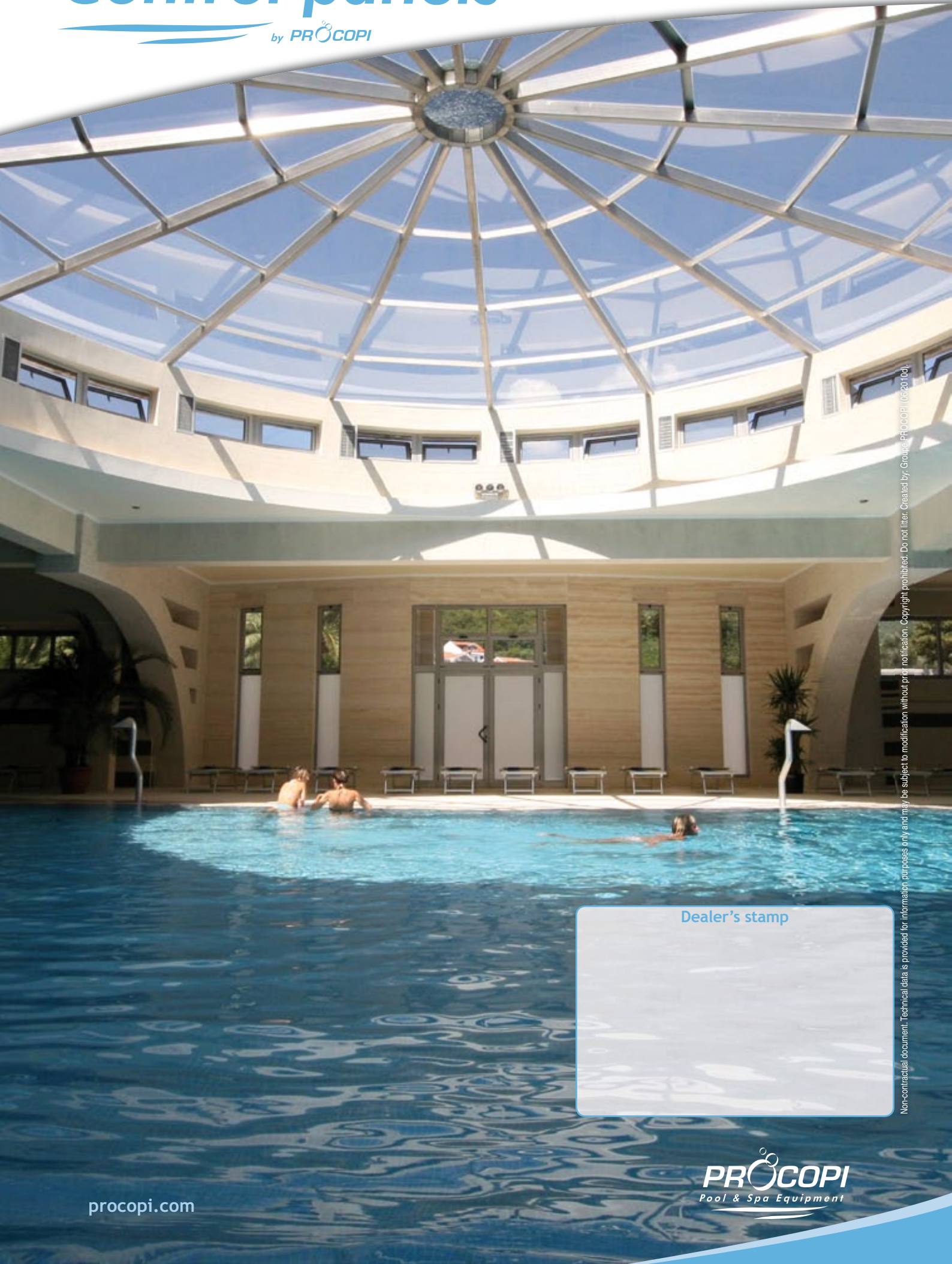
Use the table above to calculate the electrical current requirement based on the motor power in order to select the appropriate circuit breaker.

Cable cross section in mm ² for 1 300 W underwater light	From		to		Cable cross section in mm ² for 1 25 W underwater light	De	A
6	0 m	10 m			2.5	0 m	10 m
10	11 m	15 m			2.5	11 m	20 m
10	16 m	25 m			2.5	21 m	30 m
16	26 m	35 m			2.5	31 m	40 m
16	36 m	45 m			2.5	41 m	50 m
25	46 m	55 m			4	51 m	60 m
25	56 m	65 m			4	61 m	70 m
35	66 m	75 m			4	71 m	80 m
35	76 m	85 m			4	81 m	90 m
50	86 m	95 m			6	91 m	100 m
50	96 m	105 m			6	101 m	110 m

Cable with 2 conducting wires (no yellow/green wire)

Control panels

by PROCOPI



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