DRYDEN AQUA
DISTRIBUTION

SUSTAINABLE
WATER
QUALITY

welldana®

SPACE
SWIMMING POOL A.I. CLOUD EXPERT

Wiring diagrams
Schémas de câblage
Anschlusspläne

CE

230VAC **Power**
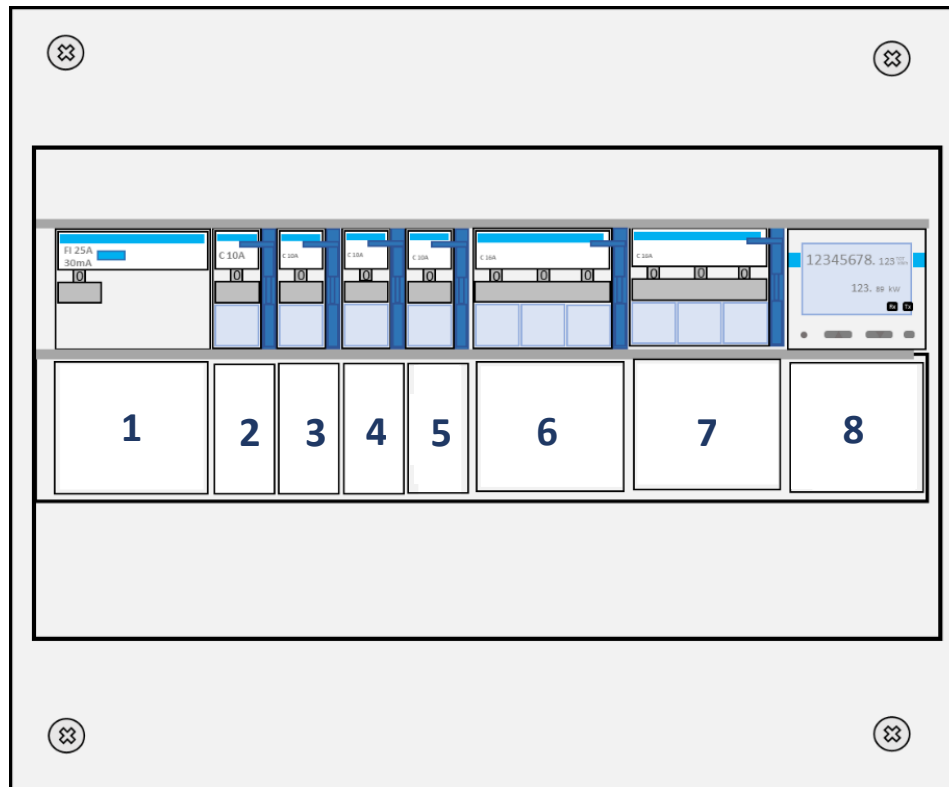12VDC **Supply**

DRYDEN AQUA

SPACE
SWIMMING POOL A.I. CLOUD EXPERT

**DATA CONTROL
CONNECTION UNIT**

HAZARD : Disconnect power supply before removing this faceplate.
DANGER : Débranchez l'alimentation électrique avant de retirer cette face avant.
GEFAHR : Trennen Sie das Gerät vom Stromnetz, bevor Sie diese Frontplatte entfernen.
PERICOLO : Scollegare l'alimentazione prima di rimuovere il pannello frontale.

Input rating 230VAC 50Hz 0.4A
Standby Mode 4W
Replacement fuses 5 x 20mm. Cartridge ILC 60127
F1 and F2: 160mA (Slow Blow) - F3: 2A (Fast Blow)

CE

www.drydenaqua.com

Electrical panel 400V PNE
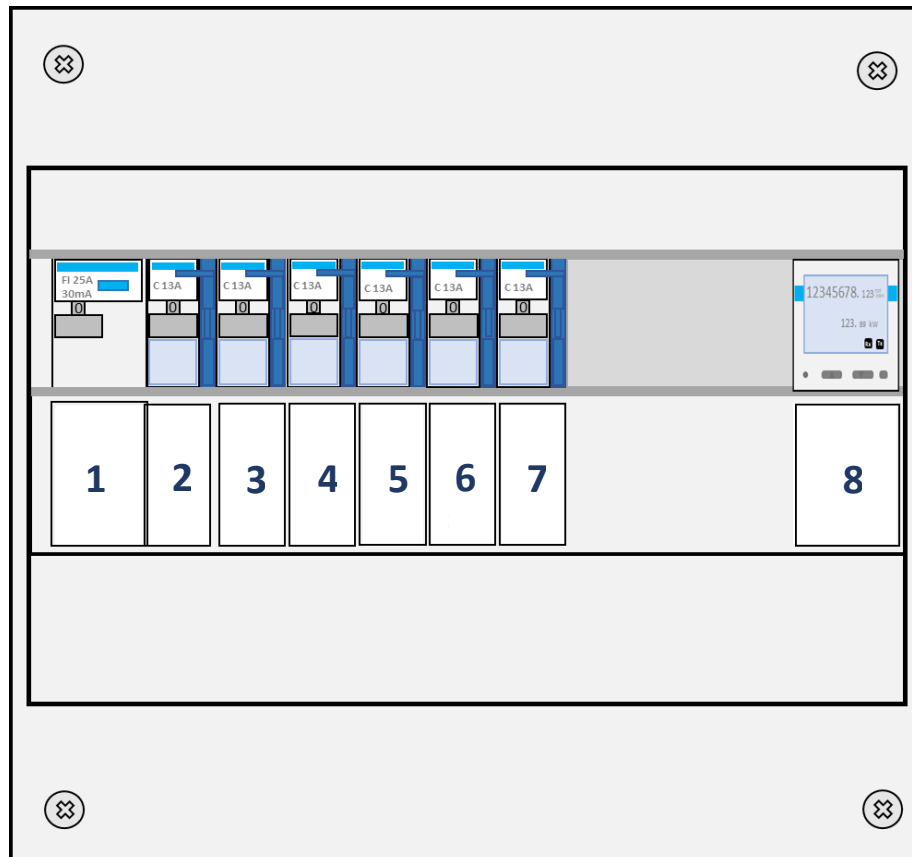# Tableau électrique 400V PNE
Schalttafel 400V PNE

1. Differential circuit breaker 25A 30 mA	2. Filtration pump
3. Dryden SPACE	4. Pool cover
5. Lights / Technical room plugs	6. Heat pump
7. Counter-current Jetstream	8. Energy meter

Electrical panel 230V PNE

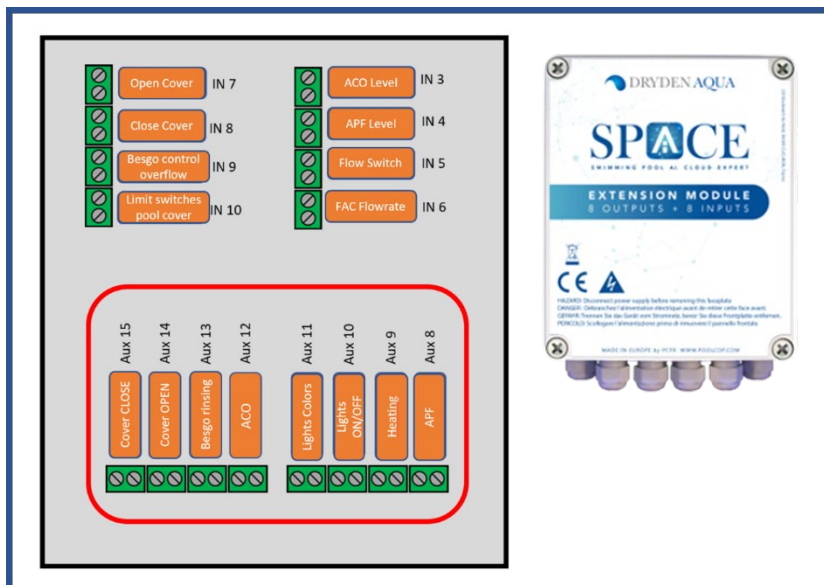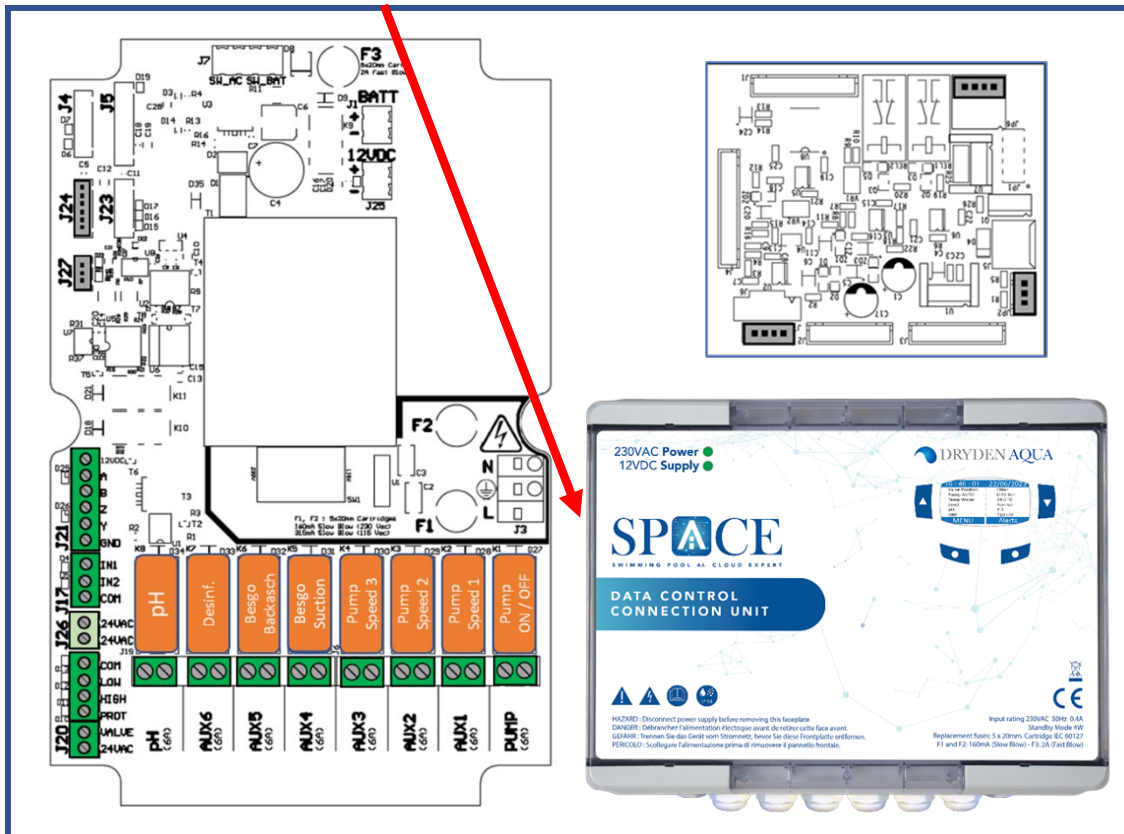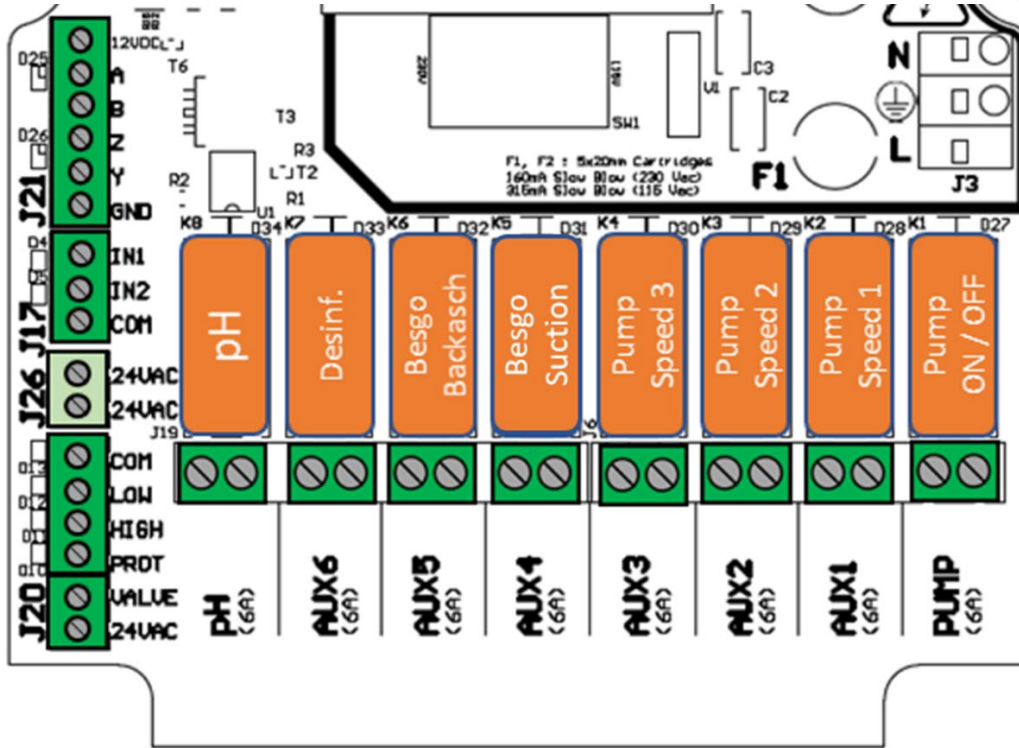|	
1. Differential circuit breaker 25A 30 mA	2. Filtration pump
3. Dryden SPACE	4. Pool cover
5. Lights / Technical room plugs	6. Heat pump
8. Counter-current Jetstream	7. Energy meter

Warning

When connecting or disconnecting components, the SPACE MUST be switched off!

SPACE DCCU - Auxiliaries (outputs)

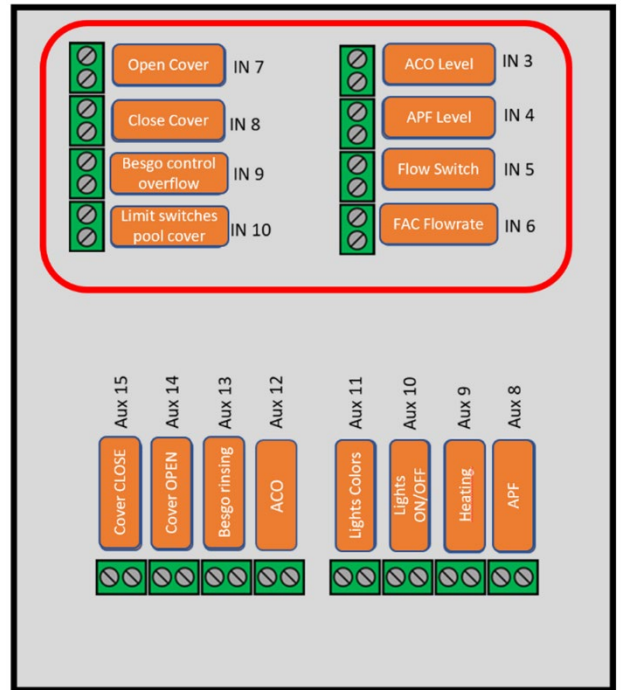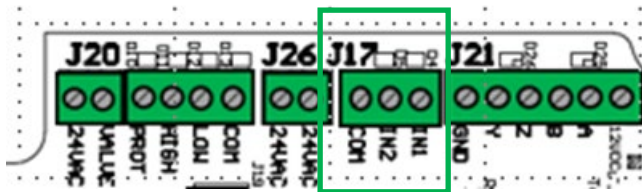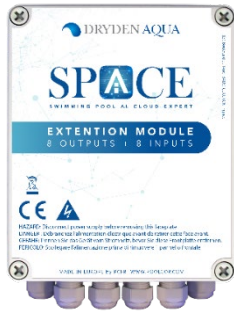|	Output	Function	Default setting	
Standard Outputs	**Pump**	**Relay pump**	Pump	Single speed pump configured by default. If a multi-speed pump is declared in the settings, the AUX1, AUX2, AUX3 outputs are automatically assigned to speed control; otherwise AUX1, AUX2, AUX3 are free to use.
	AUX1	**Speed 1**	Free	
	AUX2	**Speed 2**	Free	
	AUX3	**Speed 3**	Free	
	AUX4	**Besgo 3-way Suction valve**	Free	If a suction valve is declared in the settings, it is automatically assigned to Aux4, otherwise Aux4 is free to use.
	AUX5	**Besgo 5-way Backwash valve**	Backwash	If a backwash valve is declared in the settings it is automatically assigned to Aux5. Otherwise, Aux5 is free to use.
	AUX6	**Disinfection**	Disinfection	If ORP disinfection is declared in the settings, the dosage is automatically assigned to Aux6. Otherwise Aux6 is free to use.
	AUX7	**pH**	pH Minus	AUX7 is reserved in all cases.

SPACE Extension module

AUX (outputs)
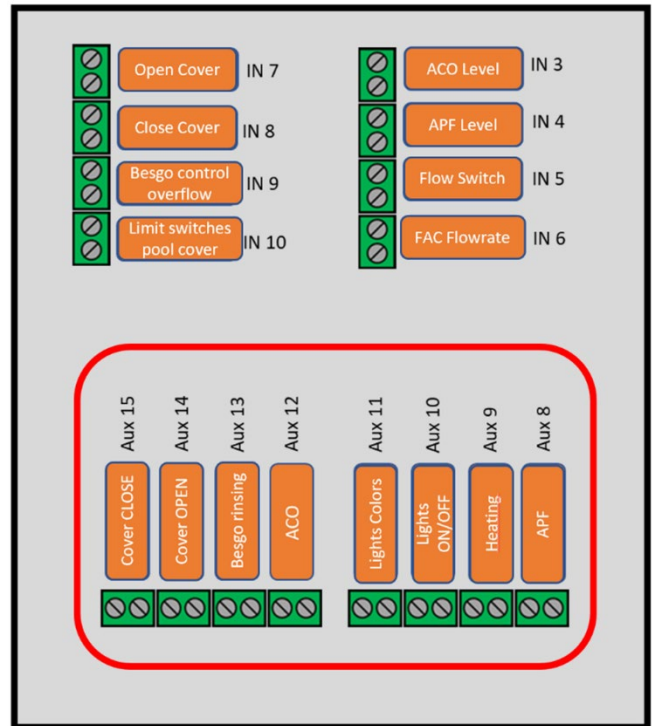
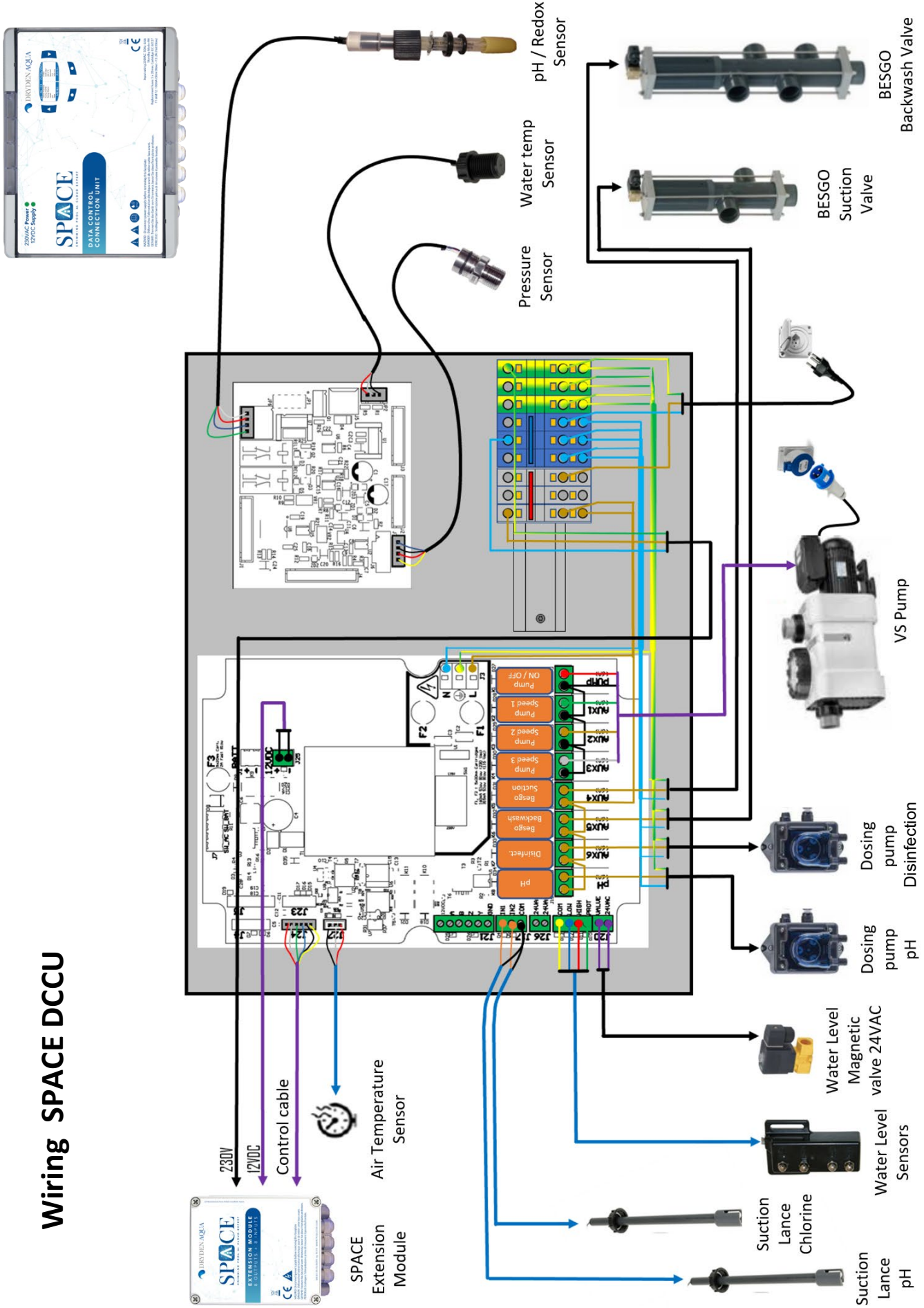|	Output	Function	Default setting	Comments
SPACE Extension Module	**AUX8**	**Dosage APF**	APF	If APF is declared in the settings it is automatically assigned to Aux8, otherwise Aux8 is free to use.
	AUX9	**Heating**	Heating	The heating system can be assigned to any available Aux. It will be assigned to Aux9 by factory setting but can be reassigned.
	AUX10	**Pool lights**	Pool lights ON/OFF	The lights can be assigned to any available Aux. It will be assigned to Aux10 by factory setting but can be reassigned.
	AUX11	**Pool lights**	Colour change	The colour change can be assigned to any available Aux. It will be assigned to Aux11 by factory setting but can be reassigned.
	AUX12	**ACO**	ACO	If ACO dosing is declared in the settings, it is automatically assigned to Aux12. Otherwise, Aux12 is free to use.
	AUX13	**Besgo 3-way rinsing valve**	Free	If a Besgo rinsing valve is declared in the settings it is automatically assigned to Aux13, in which case Aux13 can no longer be assigned to manage countercurrent jetsteams.
	AUX14	**Pool cover**	Free	
	AUX15	**Pool cover**	Free	

SPACE extension module :

IN (Inputs)

	Input	Function	Default setting	Comments
Standard inputs	**IN1**	**Consumables pH**	Consumables pH	pH canister Low level detection with alert.
	IN2	**Consumables Cl**	Consumables Cl	Cl canister Low level detection with alert.
SPACE Extension Module	**IN3**	**ACO level**	Free	Reserved for ACO low level detection with alert.
	IN4	**APF level**	Free	Reserved for APF low level detection with alert.
	IN5	**Flow Switch**	Free	Reserved for low flow detection in electrolysis cell with alert.
	IN6	**FAC Flowrate**	Free	Reserved for flow detection in free chlorine analysis chamber (proximity probe).
	IN7	**OPEN Pool cover**	Free	Reserved for pool cover key => OPEN.
	IN8	**CLOSE Pool cover**	Free	Reserved for pool cover key => CLOSE.
	IN9	**Besgo control overflow**	Free	Besgo suction valve switch to overflow position upon request.
	IN10	**Pool cover limit switches**	Free	Reserved for pool cover limit switches.

Wiring SPACE DCCU

pH / Redox Sensor

Water temp Sensor

Pressure Sensor

BESGO Backwash Valve

BESGO Suction Valve

VS Pump

Dosing pump Disinfection

Dosing pump pH

Water Level Magnetic valve 24VAC

Water Level Sensors

Suction Lance Chlorine

Suction Lance pH

230V

12VDC

Control cable

Air Temperature Sensor

SPACE Extension Module

Pump ON / OFF
Pump Speed 1
Pump Speed 2
Pump Speed 3
Besgo Suction
Besgo Backwash
Disinfect
pH

PUMP
AUX1
AUX2
AUX3
AUX4
AUX5
AUX6

DRYDEN AQUA | SUSTAINABLE WATER QUALITY

🇬🇧 **Pre-wired configuration SPACE Panel**

Quick Connect

N L

Pump ON / OFF — PUMP (6A)

Pump Speed 1 — AUX1 (6A)

Pump Speed 2 — AUX2 (6A)

Pump Speed 3 — AUX3 (6A)

Besgo Aspiration — AUX4 (6A)

Besgo Backasch — AUX5 (6A)

Desinf. — AUX6 (16A)

pH — pH

pH

230V

12VDC

Câble de commande

Flowswitch **DA-GEN**

APF

Suction lance pH

DRYDEN AQUA
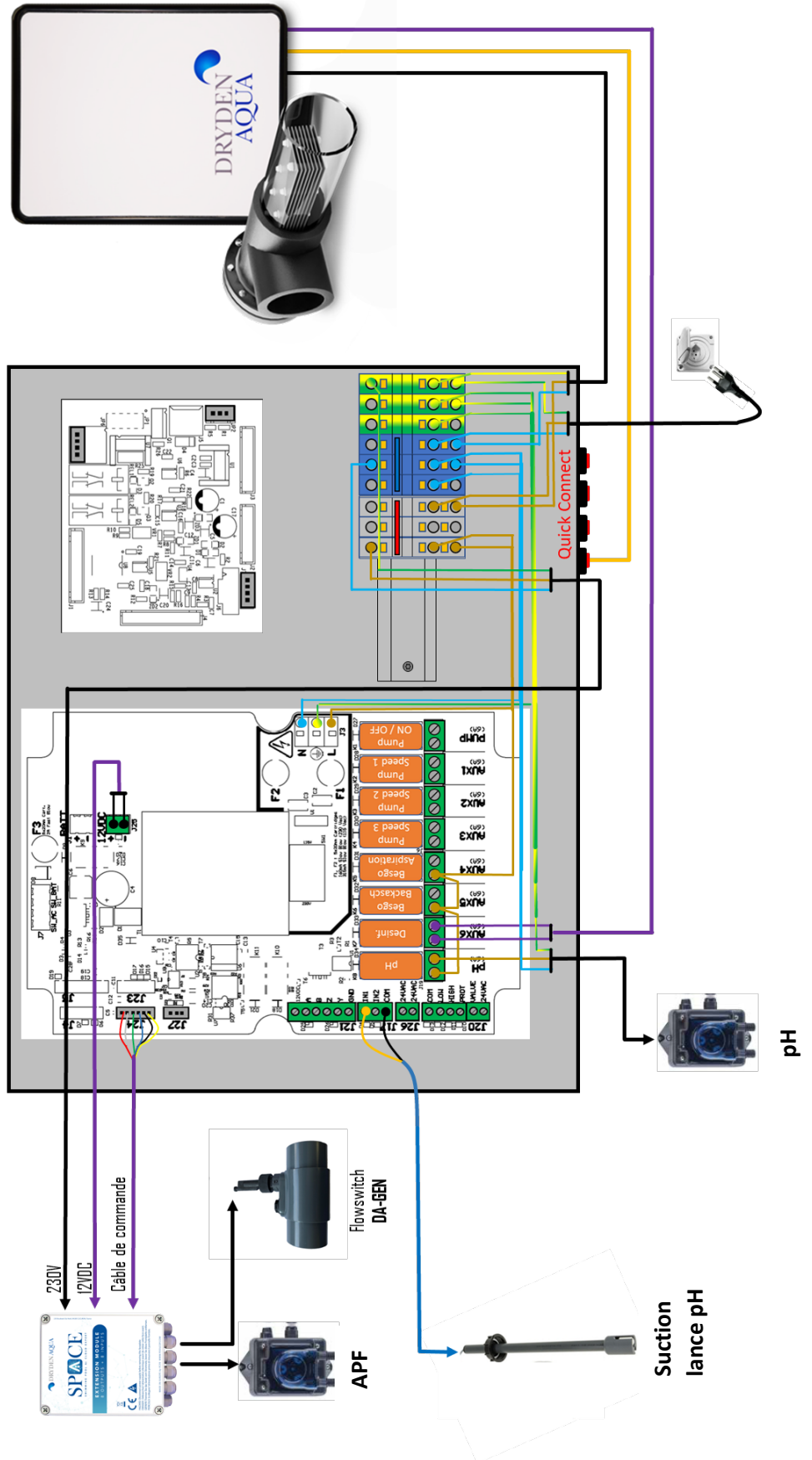
Connections : Water refill / Besgo backwash valve / Suction Lances / Chlorine and pH dosing pumps

AUX4 AUX5 AUX6 AUX7

Besgo Suction
Besgo Backwash
Disinfection
pH

Phase
Neutre
Terre

Besgo Suction valve
Besgo Backwash valve
Chlorine Dosing pump
pH Dosing pump

J17 — IN1 IN2 COM
J26 — 24VAC 24VAC
J26 — COM LOW HIGH PRDT
J20 — VALVE 24VAC

Water refill Magnetic valve 24VAC

Water Level Sensors

Suction Lance **Chlorine**

Suction Lance **pH**

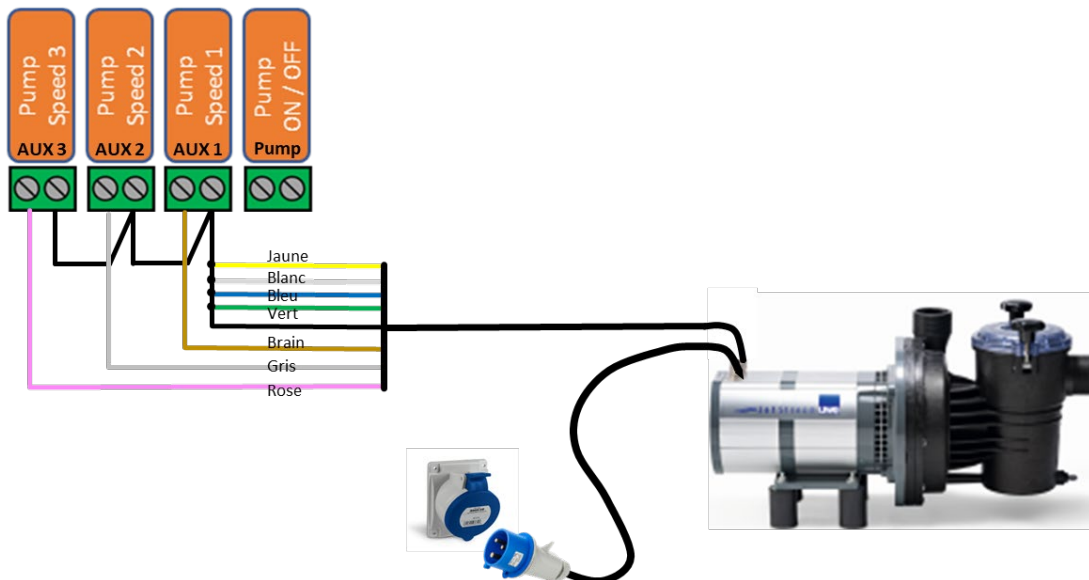DRYDEN AQUA
SUSTAINABLE WATER QUALITY
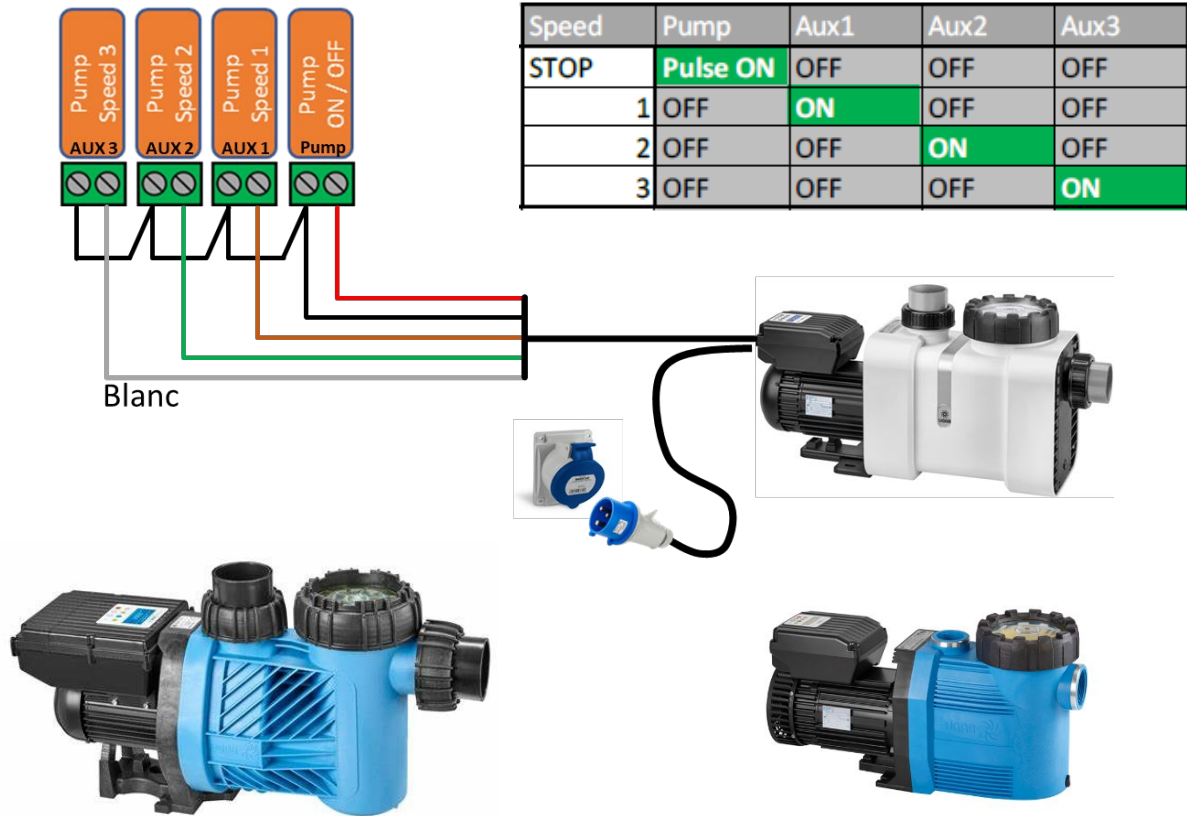
SINGLE SPEED PUMP 230 V & 400V

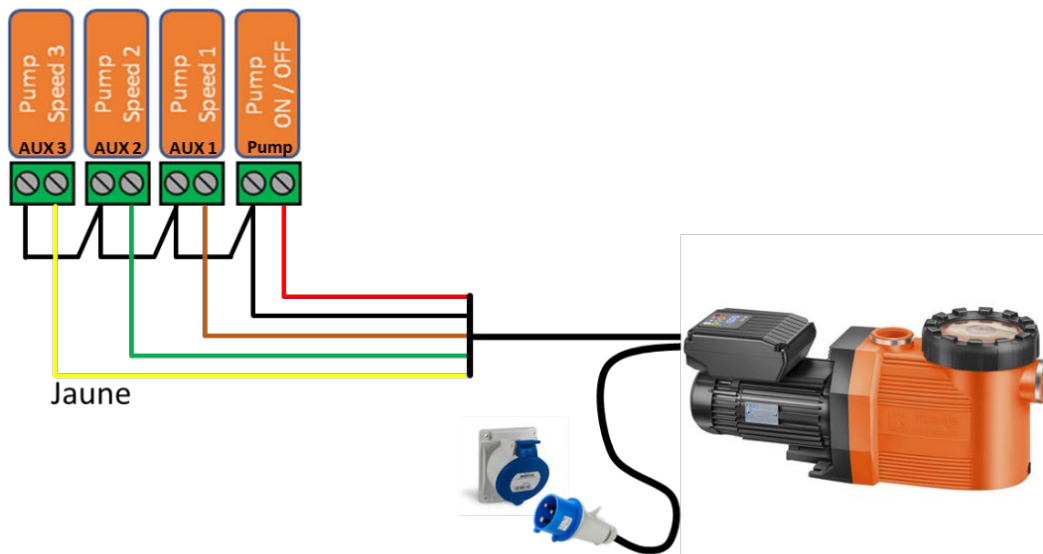**It is essential to provide :** Contactor + Thermal Relay adapted to the pump
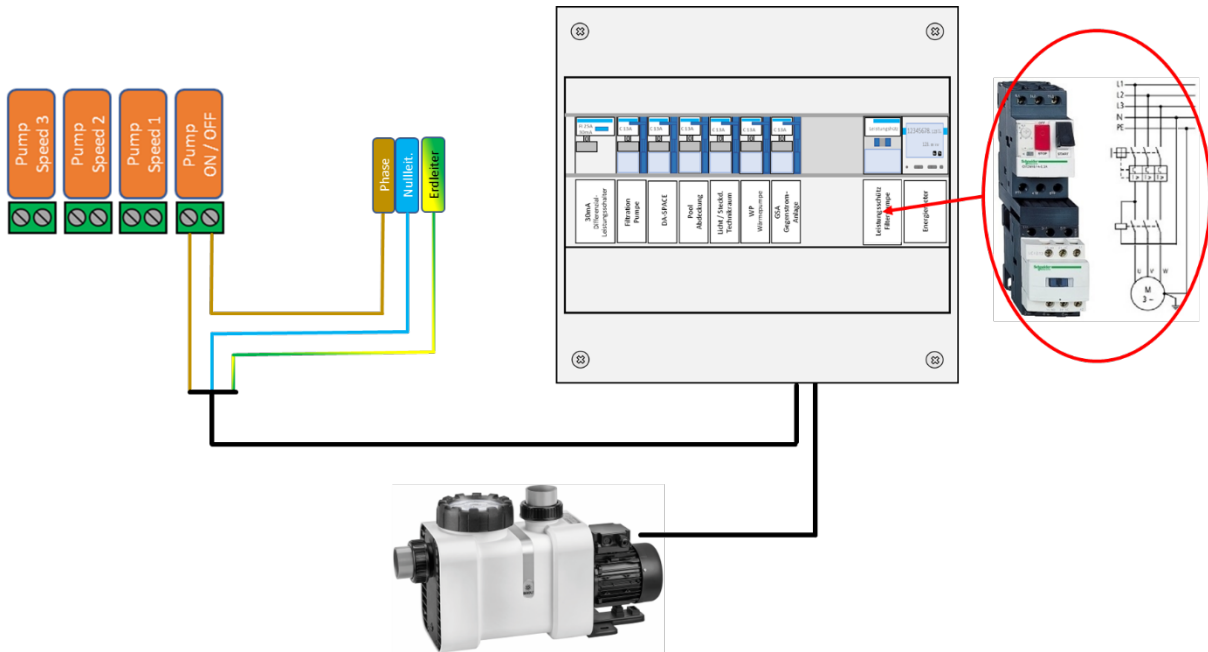
VS Pump
UWE : EO PM

SPECK : *BADU DELTA ECO VS / PRIME ECO VS / PROFI ECO VS / ECO FLEX*
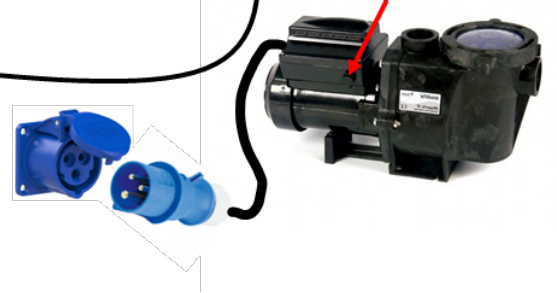
Speed	Pump	Aux1	Aux2	Aux3
STOP	Pulse ON	OFF	OFF	OFF
1	OFF	ON	OFF	OFF
2	OFF	OFF	ON	OFF
3	OFF	OFF	OFF	ON

Blanc

SPECK *BADU 90 Eco VS*

Jaune

PENTAIR *SuperFlo S5P1R*

Speed	Pump	Aux1	Aux2	Aux3
STOP	OFF	OFF	OFF	OFF
1	ON	OFF	OFF	OFF
2	ON	ON	OFF	OFF
3	ON	OFF	ON	OFF
4	ON	OFF	OFF	ON
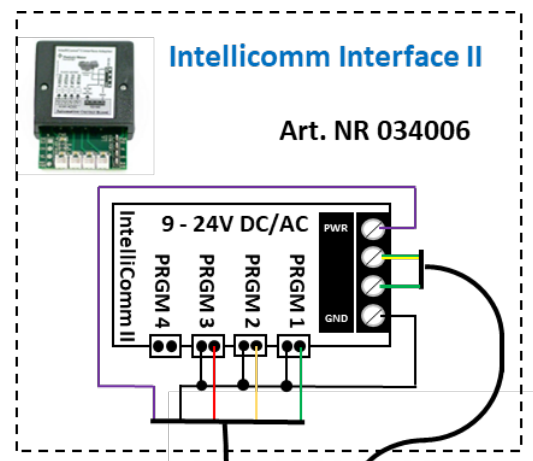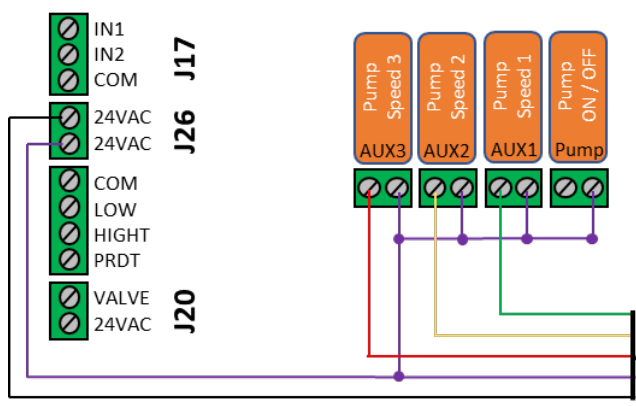
PENTAIR *Superflo S5P1R*
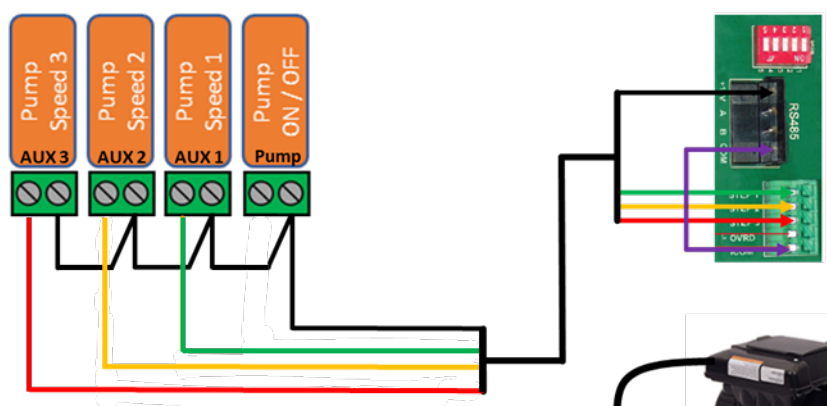
Frequency controller : *SCHNEIDER*

Speed	Pump	Aux1	Aux2	Aux3
STOP	OFF	OFF	OFF	OFF
1	ON	OFF	OFF	OFF
2	ON	ON	OFF	OFF
3	ON	OFF	ON	OFF
4	ON	ON	ON	OFF
5	ON	OFF	OFF	ON

Frequency controller : *Invertek OptiDrive*

Wiring SPACE Extension Module

Flow Switch

Control débit FAC
(Cellule de Chlore libre)

12V DC SPACE

230V SPACE

APF

Heating 230V

LED lights control box

ACO

12V -
12V +

IN 3
IN 4
IN 5
IN 6

Bout. Com. NCC
Niveau ACO

Niveau APF

Flow Switch
Electrolyse

Débit FAC

Aux 8 APF
Aux 9 Chauffage
Aux 10 Eclairage ON/OFF
Aux 11 Eclairage Couleurs
Aux 12 ACO
Aux 13 Besgo Rinçage
Aux 14 Couverture Ouverture
Aux 15 Couverture Fermeture

IN 7
IN 8
IN 9
IN 10

Com. Couvert. Ouverture
Com. Couvert. Fermeture
Com. Besgo Débordement
Fdc Couverture

Jetstream control box

PIEZO Jetstream

Pool cover key switch

Force overflow switch

Pool cover motor

Pool cover control box

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Wiring SPACE Extension Module

Flow Switch

Proximity probe FAC

Control Débit FAC
(Cellule de Chlore Libre)

12V DC SPACE

230V SPACE

ACO

Heating 230V

LED lights control box

APF

BESGO rinse

Pool cover control box

12V -
12V +

IN 3 Niveau ACO
IN 4 Niveau APF
IN 5 Flow Switch Electrolyse
IN 6 Débit FAC

IN 7 Com. Couvert. Ouverture
IN 8 Com. Couvert. Fermeture
IN 9 Com. Besgo Débordement
IN 10 Fdc Couverture

Aux 8 APF
Aux 9 Chauffage
Aux 10 Eclairage ON/OFF
Aux 11 Eclairage Couleurs
Aux 12 ACO
Aux 13 Besgo Rinçage
Aux 14 Couverture Ouverture
Aux 15 Couverture Fermeture

Pool cover key switch

Force overflow switch

DRYDEN AQUA
SUSTAINABLE WATER QUALITY

Wiring

LED LIGHTS => SPACE Extension Module
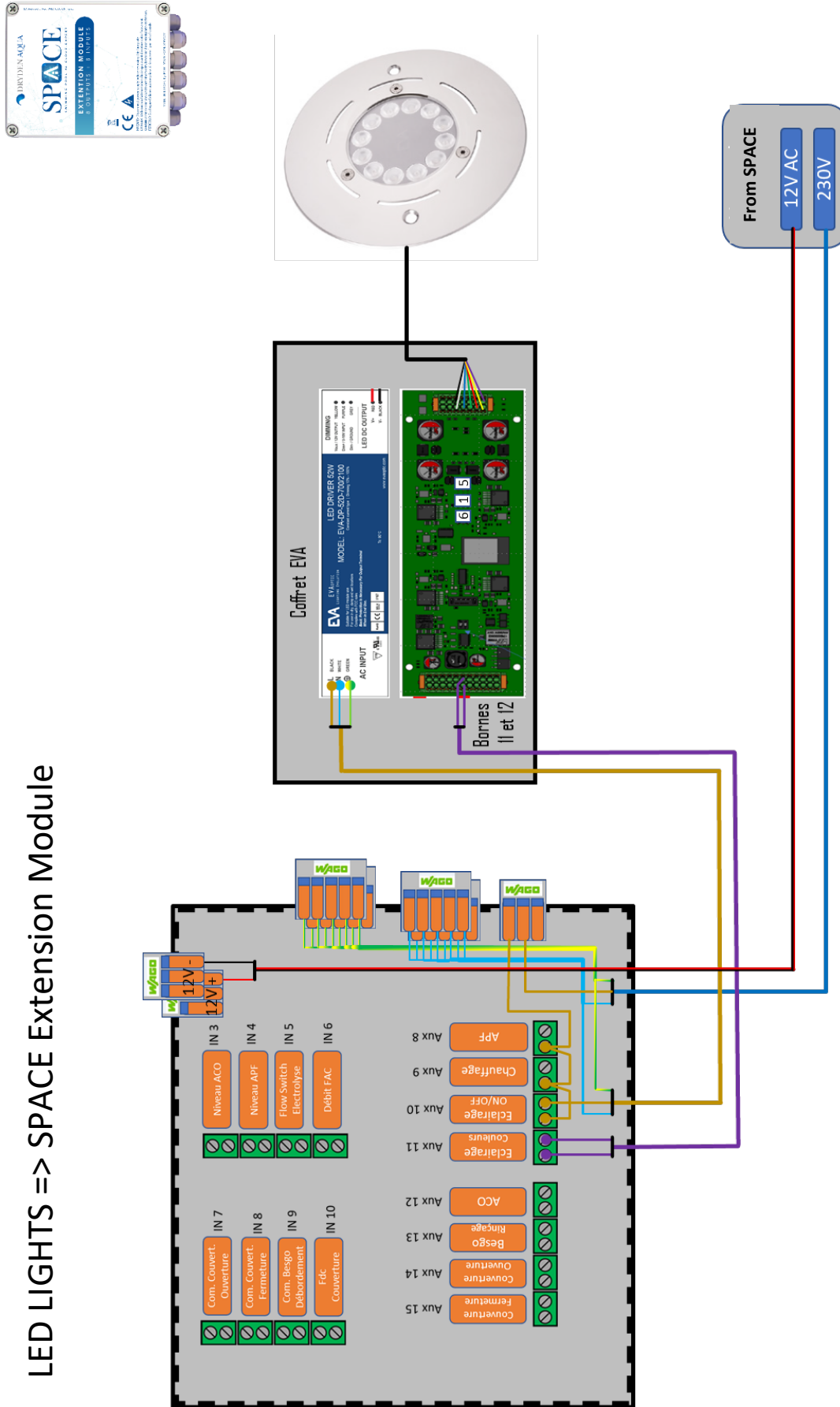
Wiring

POOL COVER => SPACE Extension Module

From SPACE
- 12V AC
- 230V

SPACE Extension Module terminals

Input	Label
IN 3	Niveau ACO
IN 4	Niveau APF
IN 5	Flow Switch Electrolyse
IN 6	Débit FAC
IN 7	Com. Couvert. Ouverture
IN 8	Com. Couvert. Fermeture
IN 9	Com. Besgo Débordement
IN 10	Fdc Couverture

Aux	Label
Aux 8	APF
Aux 9	Chauffage
Aux 10	Eclairage ON/OFF
Aux 11	Eclairage Couleurs
Aux 12	ACO
Aux 13	Besgo Rinçage
Aux 14	Couverture Ouverture
Aux 15	Couverture Fermeture

12V -
12V +

AQUADECK Pool cover control box

Interrupteur à clef couverture

SK SK L La 1 3 4 2
13 12 11
L N

DRYDEN AQUA   SUSTAINABLE WATER QUALITY
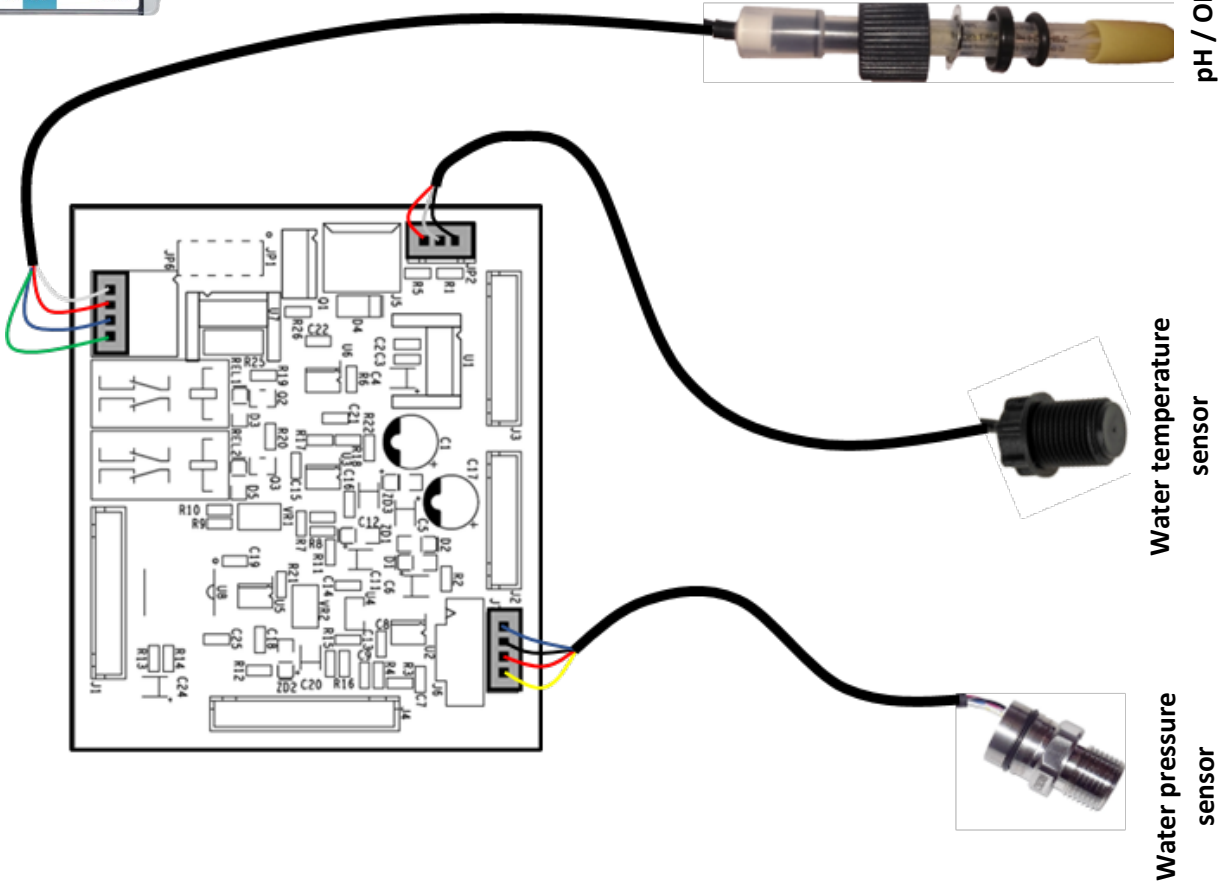
pH / ORP

Water temperature sensor

Water pressure sensor
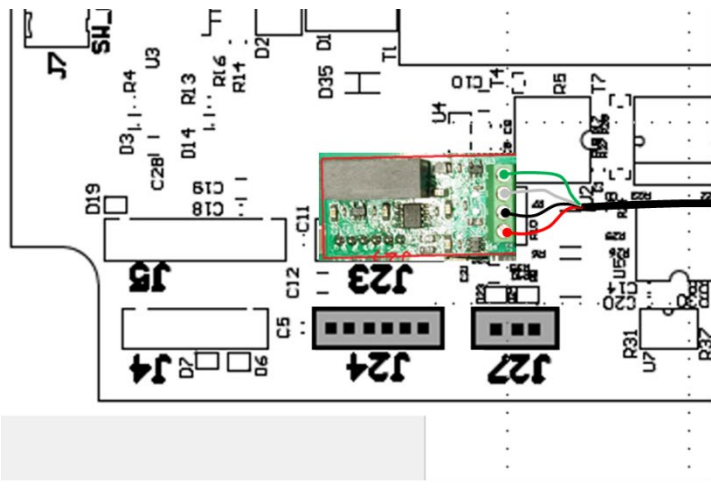
FlowVis flowmeter sensor

Pressure

Water temp

pH/ORP

Besgo Suction

Besgo Backwash

pH

FlowVis

DA-GEN

Bus

230V

12V

Quick connect

Air temp

RJ45

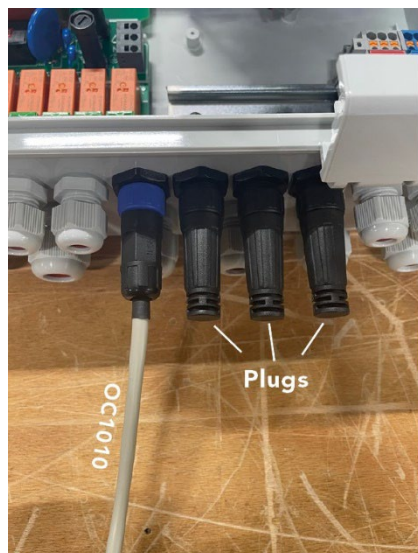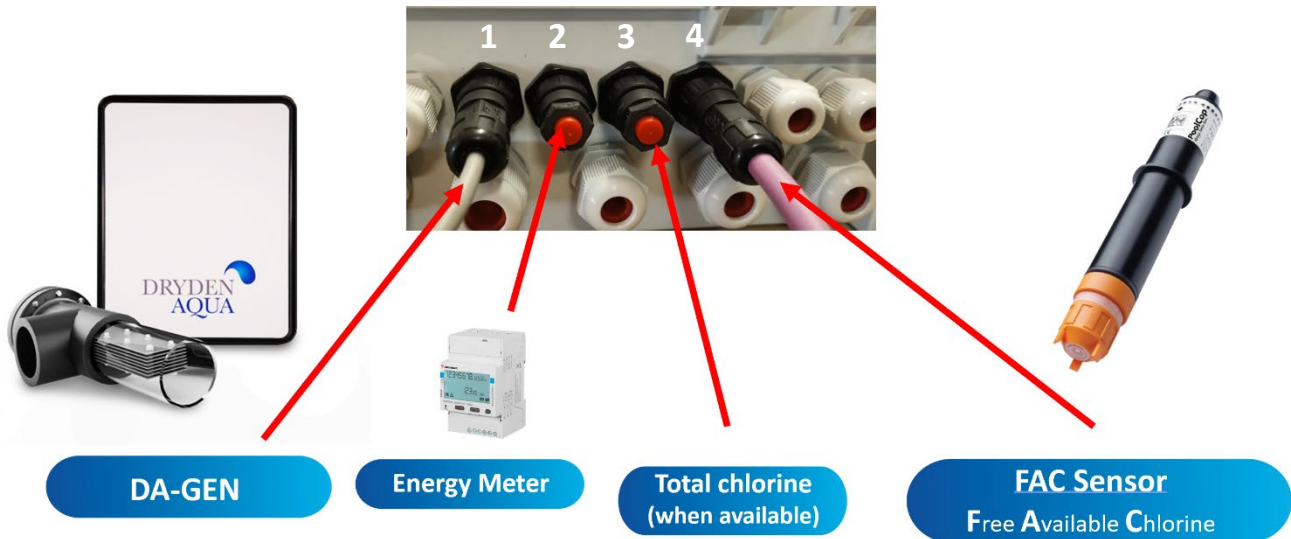SPACE Extension Module

230V

12V

Bus

Pump

Chlor

pH

Level

Refill 24VAC

DRYDEN AQUA
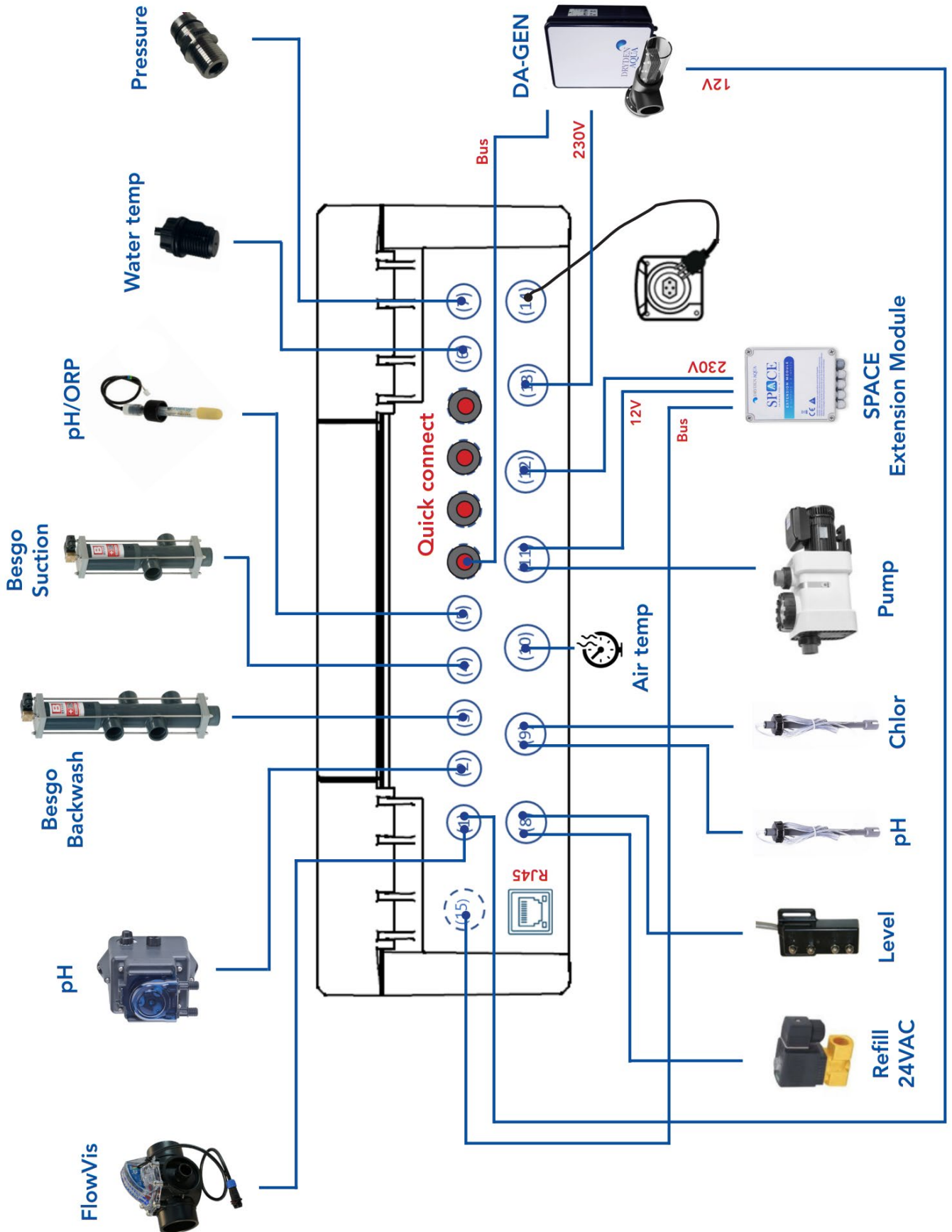
Quick connect box connection

Always use **left connection port (1)** to connect the DA-GEN. FAC Sensor has to be connected on the **right connection port (4)**

See picture below

| **DA-GEN** | **Energy Meter** | **Total chlorine (when available)** | **FAC Sensor** **F**ree **A**vailable **C**hlorine |

Important note:

Always **install plugs** on the connection ports you are not using.

The picture on the left shows an installation using the quick connect box only for the DA-GEN.