



[1] ZebTEC Stand Alone ZB152550 Active Blue

WEIGHT	Rack + Sump = 380Kg+161Kg = 541Kg (operating weight)		
OVERALL DIMENSIONS	WIDTH: 1816mm	MAX DEPTH: 614mm	Rack HEIGHT: 2262mm
	Rack HEIGHT: 47mm (height difference between castor and support foot) + 2262m = 2309mm (during transportation)		

- TECHNICAL REQUIREMENTS -
Please also refer to SIL-009-02 sheet n°1 & 2 for further information

Ref.	SERVICE	CONNECTION	SERVICE REQUIREMENTS
E1	Electrical power supply	Power supply cable (3m length as standard supply)	POWER SUPPLY: 230V; 50Hz MAX RATED POWER: 1.7KVA GFCI Type(AC) <=30mA, in conjunction with an earth resistance in accordance to the IEC60479
W1	Water supply	Ø 8mm Rilsan pipe	REVERSE OSMOSIS QUALITY - Dynamic pressure: min. 0.2bar, max. 3bar - Filling Volume: 312.5 litres (ZB152550AAABSX) - Consumption daily refill: 1% to 20% of total Volume (10% suggested)
D1	Drain	PP (DIN4102-B1) Ø 40mm	If on wall: System overflow is at 332.5mm from the floor, minimum slope to drain 1%. Open drain is required to avoid backflow of waste water. Sized for a flow rate > 60L/minute
R1	Data transfer	RJ Ethernet cable	Provide a static IP address connected to Internet

ZEBTEC ROOM REQUIREMENTS

T	Room Temperature	With chiller	MIN 6°C above water housing temperature
		Without chiller	MAX 6°C below water housing temperature
V	Room Ventilation	From 12 to 14 ACH in room (never less than 10ACH)	
L	Room Light	Lights: Use of regular fluorescent lights is recommended; full spectrum lights will increase algae growth in the system; intensity should be from 54 to 350 Lux measured at water surface. Lights should be placed in the middle of the aisles parallel to the racks to provide equal distribution to the tanks at different rows (see indication in drawing). All lamps must not interfere with Tritone's operating route and also while in "resting position".	

[2] ZebTEC Toxicology RACK ZB15303T

Ref.	SERVICE	CONNECTION	SERVICE REQUIREMENTS
E3	Electrical supply	Power supply cable (3m length as standard supply)	230V-50Hz (standard CH plug type) max. rated power 1.0KW earth leakage protection Type(B) <=30mA
W2	Water supply	Rilsan pipe Øe 8mm (connected to main supply line)	REVERSE OSMOSIS QUALITY Dynamic pressure: min. 0.3bar, max. 3bar Minimum reservoir capacity: 60 litres Consumption: ~ 200 litres (initial filling & Total Volume) Daily refill: standard 1%; max.20% (1st Vol.)
D2	Drain	PP pipe Ø 40mm	Floor drain sized for a flow rate > 60L/min If on wall: system overflow at ~332.5mm from the floor, minimum slope to drain 1%

[3] MULTILINKING UNIT WTU001 (sw)
Please also refer to AQ-SIL-010-01 Document

WEIGHT	Operating weight: 460Kg (115kg per each support foot)		
OVERALL DIMENSIONS	WIDTH: 900mm	MAX DEPTH: 1100mm (906mm without "drain" & "supply" pipes)	WTU HEIGHT in fixed position: related to support feet configuration: see AQ-SIL-010-01 sheet 2
	WTU HEIGHT during transportation: 2010mm [6"-7"] (Please note that "supply" and "drain" pipes can be temporarily dismantled in case of height restrictions during transportation)		

- SERVICE REQUIREMENTS -

Ref.	SERVICE	CONNECTION	SERVICE REQUIREMENT
E3	Electrical power supply	Power supply cable (3m length as std supply) n°2 std Schuko plugs	POWER SUPPLY: 230V; 50Hz MAX RATED POWER: 4kW GFCI Type(B) <=30mA, in conjunction with an earth resistance in accordance to the IEC60479
W3	Water supply	Ø 8mm Rilsan pipe (10m length as standard supply)	REVERSE OSMOSIS QUALITY - Dynamic pressure: min. 0.2bar, max. 3bar - Consumption: Initial water filling = 175 litres - Daily re-fill: 1% to 20% of total Volume (10% suggested)
D3	Drain	PP (DIN4102-B1) Ø 40mm	Floor level "open drain" is recommended. If on wall: System overflow is at 415mm from the floor, minimum slope to drain 1%. Open drain is required to avoid backflow of waste water.
R3	Data Transfer	RJ45 Ethernet cable	Provide a static IP address

[4] 300L ROW Reservoir

Ref.	SERVICE	CONNECTION	SERVICE REQUIREMENTS
E4	Electrical supply	Power supply cables	230V-50Hz (suggested height from the floor 190 cm) max. Consumption 155W (1A) earth leakage protection Type(A)<=30mA
D4	Drain	In tubing	Pipe sized for flow rate > 5L/hr
W4	Water supply	1/2" pipe	Tap water Dynamic pressure: min. 0.3bar, max. 3bar

[5] ZebTEC TRITONE AUTOMATIC FEEDING SYSTEM

Ref.	SERVICE	CONNECTION	SERVICE REQUIREMENTS
E5	Electrical supply	Power supply cable (3m length as standard supply) Schuko socket	230V 60 Hz single-phase + earth; 16A max. Power consumption: 500W earth leakage protection Type(A)<=30mA in conjunction with an earth resistance in accordance to the IEC60479.
R5	Data transfer	E - box	Provide a static IP address

- KEY TO SYMBOLS -

- 1200 = Measures regarding mutual distances between devices and walls
- [Blue shaded] = Areas not involved in current project layout
- [Green dashed] = Recommended waste water floor drain
- [Green dotted] = Possible future developing rack device
- [Blue dashed] = Visual delimitation of clean and dirty areas
- [Yellow shaded] = Pressure controlled area: interlocked doors (not part of TP equipment)

- OTHER APPLIANCES (not part of TP equipment) -

- [Washer icon] = Commercial washer device
- [Fridge icon] = Fridge device
- [Incubator icon] = Incubator device

- DRAWING NOTES -

- Notice: The present arrangement represents a non-exhaustive series of possible combinations. Please refer to PMO TECNIPLAST for further functional verification.
- Notice: please carefully evaluate feasibility of all devices' access route from ground level up to all installation floors.
- Notice: Please consider the size of the door along with the maneuvering space required for the transportation inside the room.

Reverse Osmosis Water supply request for WTU001 Systems

R.O.W. volume required for first filling for n°5 ZB152550 + n°1 WTU001 = 1237 L
 R.O.W. required daily refill for n°5 ZB152550 + n°1 WTU001 = 223 L
 R.O.W. required production for n°5 ZB152550 + n°1 WTU001 = 11 L/h
 R.O.W. suggested daily reservoir volume for n°5 ZB152550 + n°1 WTU001 = 300 L or 750 L
 R.O.W. suggested production for n°5 ZB152550 + n°1 WTU001 = 30 L/h or 16 L/h

IDEAL ROW REQUIREMENTS BASED ON "STANDARD HOUSING"	IDEAL ROW REQUIREMENTS BASED ON "MAXIMUM HOUSING"
WTU001 Row Reservoir Volume (l)	233
ROW Reservoir Volume (l)	11
ROW Production (l/h)	11