

WPS dengan konsep *Internet of Things* (IOT) sesuai dengan **ASTM Standards for Laboratory Reagent Water (ASTM D1193-91)** yang dapat digunakan untuk pemenuhan kebutuhan air lab & mampu mengolah air baku menjadi standar ASTM D1193-91 Tipe I & Tipe 2

TREATED WATER SPESIFICATION

ASTM Standard for Reagent Water (at 25 C)

Measurement (Unit)	Type I	Type II
Electrical Conductivity ($\mu\text{S/cm}$)	< 0.056	< 1.0
Electrical Resistivity ($\text{M}\Omega\cdot\text{cm}$)	> 18	> 1.0
pH	Not applicable	Not applicable
Total Organic Carbon, TOC (ppb or $\mu\text{g/L}$)	50	50
Sodium (ppb or $\mu\text{g/L}$)	< 1	< 5
Chlorides (ppb or $\mu\text{g/L}$)	< 1	< 5
Total Silica (ppb or $\mu\text{g/L}$)	< 3	< 3

FEEDWATER REQUIREMENT

Source	RO water, 1-20 $\mu\text{S/cm}$ conductivity. Optimum resistivity with 1-8 $\mu\text{S/cm}$.
pH	6.0 to 9.0 (pH 7.0 to 8.0 for optimum EDI resistivity performance, but only if hardness is minimized below nominal). Note low pH feedwater typically indicates the presence of CO_2 , which will decrease quality.
Temperature	10°C to 38°C. Optimum quality at 25°C
Hardness (as CaCO_3)	Maximum 1.0 ppm at 77% recovery. Recommend 0.1 ppm.
Organics	Maximum 0.5 ppm TOC. Recommend Not Detectable.
Oxidizers	Recommend Not Detectable.
Metals	Maximum 0.01 ppm Fe, Mn, transition metals.
Silica	Maximum 0.5 ppm. RO effluent typically 50-150 ppb.
Total CO_2	Recommended less than 5 ppm. Above 10 ppm, product water quality depends highly on CO_2 level and pH
Particles	Recommended particle free RO permeate (direct feed)
Temperature	1- 40°C - Recommended 10 -15°C
Flowrate (maximum requirement)	130 l/hr (34 USG)
Feedwater pressure	0.7 bar (10 psi) maximum, 0.07 bar (1 psi) minimum

FITUR-FITUR

- Teknologi RO dan EDI sehingga akan mendapatkan *pure & ultra pure water* yang konsisten
- Dilengkapi LCD *Touch Screen* yang memudahkan dalam pengopreasian alat
- Dilengkapi dengan teknologi IOT (*Internet of Thing*) yang memungkinkan untuk memonitoring alat dari mana pun dan kapanpun melalui sensor yang terpasang pada alat
- Memenuhi standar ASTM D1193-91 untuk *reagent water* Tipe 1 & Tipe 2
- Produksi dalam negeri dengan nilai TKDN 40%
- Garansi service selama 1 tahun
- *Maintenance* terjadwal dan mudah dilakukan



LS 1012

TECHNICAL DATA

Ekosistem	IoT (Internet of Things)
Interface	Web Platform (Diawan.IO) dan Aplikasi Andorid (Autentik)
Display	Touchscreen Nextion 5 inch
Interval Penyimpanan Data	1 menit
Sistem Pengiriman Dini	WhatsApp Messenger
Casing	PLA+ dan sheet metal powder coating 1.2mm
Dimensi	503 (P) x 433 (L) x 685 (T) mm
Nett Weight	± 71 kg
Shipping Weight	± 72 kg
Mounting	Desk
Antena	Eksternal
Power	220Vac
Jaringan	IEEE802.11 b/g/n Wi-Fi
Parameter	Temperature, Conductivity Type 1 , Conductivity Type 2, Water Flow Type 1, Water Flow Type 2
Kapasitas	Type 1: max 20L/jam; Type 2 : max 20L/jam
Garansi	1 tahun



SPARE PART

No.	Sparepart	Kode Part
1.	Filter Manganese type L	BHPC007
2.	Filter Karbon Aktif type L	BHPC005
3.	Filter 5 um type L	BHPC003
4.	Filter Resin type L	BHPC009
5.	Pompa 140 psi	SPC008
6.	Pompa 100 psi	SPC007
7.	RO membran 400 GPD	BHPC012
8.	RO membran 100 GPD	BHPC011
9.	Storage tank type L	SPC011
10.	Sensor PH	SPC015
11.	Sensor EC Type 1	SPC016
12.	Sensor EC Type 2	SPC017
13.	Sensor Suhu	SPC016
14.	Water Flow Type 1	SPC018
15.	Water Flow Type 2	SPC018
16.	Layar	SPC006
17.	Solenoid Valve	SPC020
18.	Main Board	SPC014
19.	Lampu UV type LS	SPC005
20.	EDI Type LS	BHPC001
21.	Kabel Power	SPC003
22.	Antena	SPC020
23.	Selang RO 1/4	SPC021
24.	Selang 3/8 inch	SPC022

PACKING LIST

No.	Kompartemen	Jumlah
1.	Pre Filter	4
2.	Kunci housing filter	1
3.	Selang ¼ inch	5 meter
4.	Unit Cylab	1
5.	Antena	1
6.	Plumbing	1
7.	Kabel Power	1
8.	Flash Disk (Manual Book & Garansi)	1

Industrial :

Academic Chemical | Cold Storage |
Food & Beverage | Government Lab |
Lab Services | Pharmaceutical

Health Care :


Academic | Clinic | Government Lab
| Hospital

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