

LARGE RANGE OF CONTAINERIZED AND SKID MOUNTED SYSTEMS FOR SURFACE WATER TREATMENT AND POTABLE WATER PRODUCTION IN COMPLIANCE WITH SANS 241 AND WHO REQUIREMENTS.



The process combines coagulation, flocculation, lamella clarification, sand filtration and disinfection using chlorination. Helps to reduce TSS, turbidity and organics. Packaged water treatment plants are specifically designed to supply treated water to isolated communities or locations.



**FEATURES & BENEFITS**

- Pre-assembled and Factory Acceptance Tested (FAT) in workshop.
- Ease of operation
- Quick installation and start up
- Proven Technology
- Short manufacture lead time
- Modular design; can be combined for larger capacities or specific treatment applications
- Small footprint
- Fully automated
- Portable
- Cost Effective
- No compressors required
- Separate dosing section
- Treatment to SANS241 and WHO for Potable Water Production
- Integrated PLC and HMI



**APPLICATIONS**

MUNICIPAL	DW
TOURISM	DW
AGRICULTURE	PW
PULP & PAPER	PW
AQUACULTURE	PW
FOOD & BEV	PW
POWER	PW
MINING	PW
PHARMA	PW
COSMETICS	PW

DW: Drinking Water - PW : Process Water - WW: Wastewater



**HYDREX CHEMICALS**

Hydrex water treatment chemicals from Veolia should be used for optimal operation. (see page 49 for further details.)



**TECHNICAL PERFORMANCES**

**SYSTEM DETAILS**

MODEL		PWTP 005	PWTP 010	PWTP 020	PWTP 030	PWTP 050	PWTP 080	PWTP 100
TREATED WATER FLOWRATE	m <sup>3</sup> /hr	5	10	20	30	50	80	100
CONNECTIONS (SABS 1123 T1000)	Raw	DN50	DN50	DN65	DN65	DN80	DN80	DN100
	Filtrate	DN40	DN50	DN65	DN65	DN80	DN80	DN100
	Backwash	DN50	DN50	DN65	DN65	DN80	DN80	DN100
PERSON EQUIVALENT BASED ON 150 LITERS PER PERSON	Person	750	1500	3 000	4 400	7 500	12 000	15 000
TREATED WATER DELIVERY PRESSURE (MAX)	Bar	1	1	1	1	1	1	1
INSTALLED POWER	kW	5	8	10	12	18	25	30
TREATMENT CAPACITY BASED ON 22 HOURS PER DAY OPERATION	m <sup>3</sup> /day	110	220	440	660	1 100	1 760	2 200
LAYOUT* (BASE UNIT)	Container / Skid	1 X 6mSTD	1 X 6mSTD	1 X 12mHC	1 X 12mHC + Skid	1 X 12mHC + Skid	1 X 6mSTD + Skid	1 X 6mSTD + Skid

\* Layout configuration based on standard package only, PWTP layout to be confirmed based on model selection, see optional extras. Design configurations up to 10 Mega Liters per day are possible; please contact your local Veolia representative.

**UTILITY REQUIREMENTS**

VOLTAGE	400V – 3 phase 50Hz
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**MATERIALS OF CONSTRUCTION**

CLARIFIER	Epoxy Lined Mild Steel* / Polypropylene
PUMPS	Cast Iron body and SS impeller
PRESSURE FILTER	FRP / Epoxy Lined Mild Steel
PIPING	uPVC Class 12 / Epoxy Lined Carbon Steel

\* Epoxy Lined Mild / Carbon Steel is ANSI/NSF 61 AWWA C210 compliant for use on interior of steel water pipe and FDA 21CFR 175.300 criteria for food contact.

**OPTIONS**

OPTIONS	DESCRIPTION
A	Clarifier Feed Pump
B	Standby Pumps
C	pH Adjustment
D	Activated Carbon Filtration
E	Digital pH Meter

**FEED WATER REQUIREMENTS**

WATER TEMPERATURE	°C	5 - 30
FEED PRESSURE	bar	>1
TSS	mg/L	< 300
TOC*	ppm	Up to 10
TURBIDITY	NTU	< 600

\* For specific design treatment requirements based on raw water quality, please contact your local Veolia representative.



Flow rates from 5 to 100 m<sup>3</sup>/hr

**INTEGRATED SOLUTIONS**

- Various standard complementary pre-treatments are available
- Additional standard post-treatment options are available