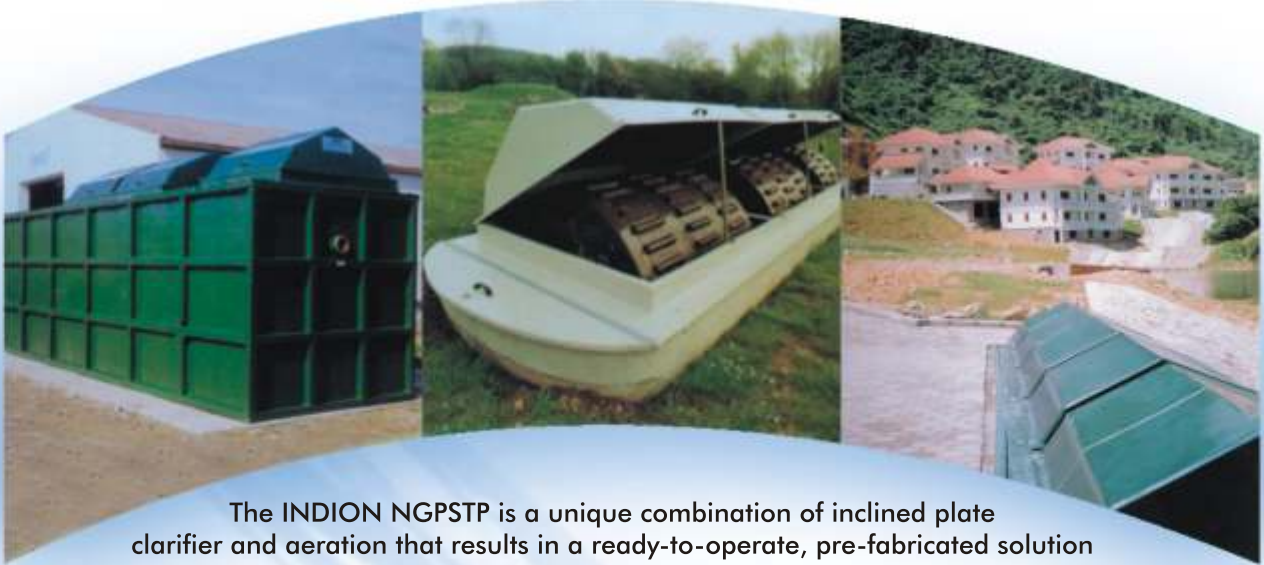


# INDION New Generation Packaged Sewage Treatment Plant (NGPSTP)



The INDION NGPSTP is a unique combination of inclined plate clarifier and aeration that results in a ready-to-operate, pre-fabricated solution of outstanding performance and efficiency.

## Features

- All-in-one single tank packaged sewage treatment plant
- Modular design: 2642-26417 gal/day
- Compact and simple to operate
- High quality effluent
- Three months sludge storage capacity
- Minimal maintenance
- GRP construction tank no corrosion

## Advantages

- Minimal land usage
- Minimum power and chemical requirement
- Low operating cost

## Process

- **Primary Settlement:** Sewage initially enters the primary settlement tank. The tank incorporates inclined parallel plates which aid in reducing the

suspended solids by 75% and the BOD by 25%. This zone is relatively maintenance-free and contains no moving mechanical or electrical devices.

- **Aerobic Treatment:** The effluent then enters the aerator bio-zone which is a combined fixed film reactor and active aeration system mounted on a horizontal shaft. The aerator provides a solid surface area for micro-organisms to attach themselves; these then feed on the organic matter present in the effluent. The rotation of the drums creates an aeration of the liquid. The bio-zone is self-cleansing and does not require extraneous pumping or sludge return.
- **Final Settlement:** The treated effluent then moves to the settlement area. This area contains a lamella parallel plate assembly for settling finer particles. The submersible pump removes sludge to the sludge storage compartment on a regular timed basis.

## Applications

- Hotels • Restaurants • Holiday Resorts
- Golf and County Clubs • Housing Complexes • Townships • National Parks
- Industrial Estates • Existing Plant Upgradation



## Technical Data

Model	Flow Rate (gal/day)	Length (ft.)
NGPSTP 500	3038	14.44
NGPSTP 1000	6076	16.00
NGPSTP 1500	9114	19.68
NGPSTP 2000	12152	23.29
NGPSTP 3000	15190	29.12
NGPSTP 3500	19747	31.74
NGPSTP 4000	24304	34.45
7.71 ft. width and 9.84 ft. overall height for all units		

INDION NGPSTP models in series available for flow rates exceeding 24304 gal/day.

INDION NGPSTP is available in varied sizes, with modular design, to treat sewage from single dwellings to populations of several thousands.

INDION NGPSTP can be installed above ground or buried to a depth of 7.55 ft. without a concrete surround.

Power input, inlet and outlet configurations and colour are according to client specification. All units are road transportable.

Also available, for very high flow rates, specialised sewage and effluent treatment processes such as INDION fluidised media reactor (FMR), INDION submerged membrane bio-reactor (MBR) and sequential batch reactor (SBR).

To the best of our knowledge the information contained in this publication is accurate. Ion Exchange LLC maintains a policy of continuous development and reserves the right to amend the information given herein without notice.



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