

Home > Surface Treatment Process Plant & Equipment Electroplating & treatment lines >

Rodway & Taylor Effluent Treatment Plant. ph Correction and Flocculant Sludge Settlement.



Stock Code: TZ258

Manufacturer: Rodway & Taylor

Model: ph Correction and Sludge Settlement Plant

New or Used: Used (Second Hand)

Work Envelope (WxDxH mm): 500 Gallons/Hr

Process Stages: Multiple

Other Info: Double V cone Mild Steel Settlement Tank

External Dimensions (WxDxH): 4600 x 1900 x 2250

Rodway & Taylor Effluent treatment ph correction plant and settlement Tank.

Rodway & Taylor Effluent treatment plant designed for ph correction flocculant, sludge settlement for transfer to de-watering press.

A Settlement tank, also called Sedimentation tank or clarifier, is a component of a modern system of water supply or wastewater treatment.

A Settlement tank allows suspended particles to settle out of water or wastewater as it flows slowly through the tank, thereby providing some degree of purification

Dimensions:-

Main – 4600 x 1900 x 2200 mm
PH m/c – 1350 x 2500 x 2850 mm
Steps – 810 x 1100 x 2200 mm
Bund – 1350 x 1750 x 700 mm

Effluent Treatment Plant is a simple three-stage treatment plant



Home > Surface Treatment Process Plant & Equipment Electroplating & treatment lines >

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The plant is designed to treat up to 500 gallons per hour of rinse waters from Zinc Phosphating and chromating processes.

Transfer pumps are activated via float switches to the neutralization tank, where its PH is monitored by a glass bulb Ph electrode.

At a predetermined level, the solution Ph is raised by automatic dosing of a caustic based solution. This raises the Ph to the correct Ph for metal hydroxides to form, normally 8.5 Ph

When the chromating solution is discharged, the operator switches on the SO₂ pump which doses the solution with a sodium hypochlorite reagent which converts the Cr₆ to Cr₃. This is then allowed to overflow into the neutralization tank for Ph correction.

The pH will be corrected to around 8.5 pH normally where the metal hydroxides will form and settle out with the aid of a flocculating agent (if required)

This slurry can then be removed for disposal or to filter press for dewatering.

The clear treated supernatant can then be allowed to overflow into the foul sewer

Plant description (For the purposes of guidance only)

Transfer pump & switch Neutralization Tank with mixer Settlement Tank with mixer Control Panel Caustic reagent Tank SO₂ reagent Tank (normally Sodium Hypochlorite)

View Rodway & Taylor Effluent Treatment Plant. ph Correction and Flocculant Sludge Settlement. on our web site at <https://www.rileysurfaceworld.co.uk/machines/30067.htm>

PHOTOGRAPHS TAKEN PRIOR TO REFURBISHMENT.