

◀ **CIRCULAR CLARIFIER
SYSTEMS**



▼ Over 330 installations in 3 continents



▼ With over 60 years of design and commissioning expertise, you can be assured that your Hydroflux Epco clarifier will perform consistently with a long service life.

Hydroflux Epco clarifiers have been in operation since the late 1960's, in municipal water and wastewater treatment plants, industrial and mining applications.

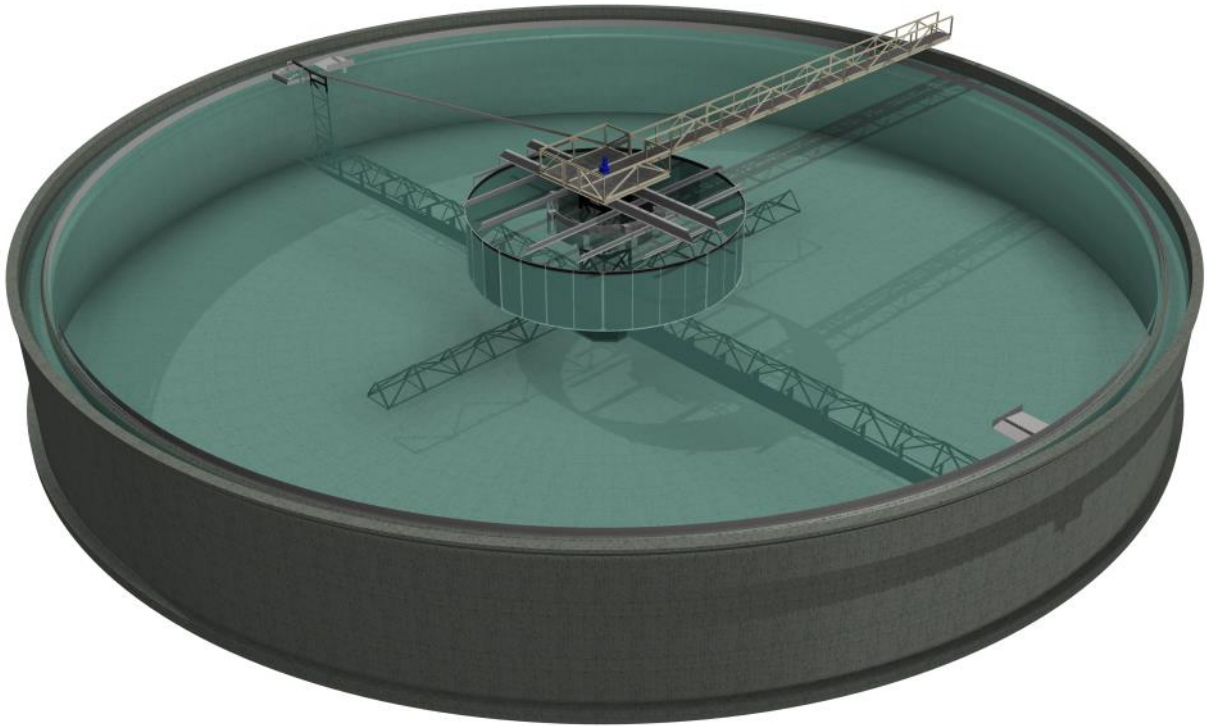
Design Configurations

- ▼ The Hydroflux EpcO clarifier range includes the following configurations:
- Full and half bridge fixed
 - Full and half bridge peripheral drive
 - LogMax® Log spiral scraper mechanisms
 - VeeMax® Chevron type fixed scrapers
 - HeadMax® Suction headers



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Key Features



- ▼ Robust construction with heavy duty design
- ▼ Extensive design expertise with over 330 installations in 3 continents
- ▼ Minimises denitrification flotation
- ▼ No scouring of sludge blanket
- ▼ Proven drive arrangement, for both centre drive and peripheral designs
- ▼ Reliable heavy duty scraper designs for all mechanical scraper and suction systems
- ▼ Self cleaning FlocWell™ centre well design that promotes flocculation

45M Diameter Rotating Bridge Clarifier with LogMax[®]



Applications

▼ Municipal Sewage Treatment

- Primary clarification
- Secondary clarification
- Tertiary clarification

▼ Municipal Water Treatment

- River water clarification
- Backwash water recovery
- Sludge thickening
- Lime softening

▼ Seawater Desalination

- Backwash water recovery
- Lime softening

▼ Industrial and Mining

- Primary solids and precipitate removal
- Secondary clarification
- Tertiary clarification
- Raw water clarification



References

- ▼ Mt St John STP, Australia
 - 3 x 45M Clarifiers
 - LogMax® sludge removal system
 - Secondary clarification



- ▼ Launders Chute WTP, Australia
 - 1 x 9M VeeMax® Clarifier
 - Potable water treatment
 - Lime softening



- ▼ ACC Beef, Australia
 - 1 x 15M HeadMax® Suction Head Clarifier
 - Secondary clarification industrial

- ▼ Subiaco STP, Australia
 - 4 x 20M Secondary Clarifiers
 - LogMax® sludge removal system
 - Secondary clarification with full LaunderShield® covers

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Sludge Removal

LOGMAX[®]

Logarithmic sludge plow designed for collection of lighter suspended sludges. Effective logarithmic angle range of between 15° and 45° and can travel at tip speeds up to 10m per minute.



VEEMAX[®]

Chevron pattern sludge plow designed for heavy, relatively viscous, sludges. The VeeMax[®] sludge plow can be readily adapted to sludge thickening with the addition of the picket fence module.



HEADMAX[®]

Suction design ensures rapid sludge removal and lower sludge blanket depth, reducing the potential of sludge rising. HeadMax[®] is available in both header and tube configurations.

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Optional Features

Scum Boxes

For collecting surface scum, the design varies with tank size and wind direction.

LaundryShield®

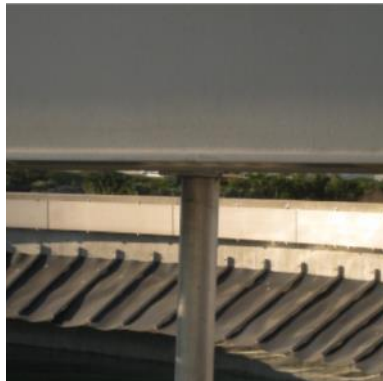
Eliminate light in effluent launders to reduce algal growth. Hinged with latches to prevent lifting.

Stamford Baffles

For eliminating density current flows that disturb regular flocculant settlement. Prevents sludge from rising up into the effluent trough.

CleanSweep® Laundry Cleaning System

For removal of algae from the effluent trough, the brush system trails the rotating bridge and constantly brushes the through walls.



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Build Specification

- ▶ In general Hydroflux Epco clarifiers are fabricated with wetted parts from stainless steel, and the bridge and general fabrication steel work above water line in grade 250 mild steel epoxy coated.

The following table summarises the major components and their most common material selection. Variations on the material specifications can be made, please consult Hydroflux Epco for further detail.



SECTION	SPECIFICATION
Centre Column	Rolled painted mild steel
Bridge	Painted mild steel
EdiGate®	Stainless structure with hinged doors
FlocWell™	Stainless structure with HDPE sheeting
Scraper System	Stainless steel 304/316
Squeegees	Neoprene
Scum Box	Stainless steel 304/316
V-Notch weirs and baffles	Stainless steel 304/316
LaunderShield®	Fibreglass, Aluminium or Stainless steel
Wheels	UHMWPE with or without metal hubs

Refurbishment

Hydroflux Epco has undertaken numerous refurbishment projects, whereby existing clarifiers have been overhauled with new components as follows:

- New centre columns
- New FlocWell™ and EdiGate®
- New LogMax®
- Replacement scraper systems
- WHS compliance upgrades, with movement detectors and fall arrestors



“Hydroflux Epco can provide new clarifier internals and refurbish existing systems regardless of the clarifier tank design, geometry or OEM”

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Hydroflux EPCO is GRS Certified to the following standards

ISO 45001 SAFETY MANAGEMENT SYSTEM



Certificate Number: 4774801610007

ISO 14001 ENVIRONMENTAL MANAGEMENT SYSTEM



Certificate Number: 47714001610007

ISO 9001 QUALITY MANAGEMENT SYSTEM



Certificate Number: 4779001610007

ISO 31000 RISK MANAGEMENT SYSTEMS



Certificate Number: 477310006176001

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