



nijhuis
WATER TECHNOLOGY

OPTIFLOT - FLOTATION SYSTEMS

NPF



Applications

Nijhuis Water Technology has developed a high capacity range of Optiflot flotation systems, type NPF, equipped with a lamella plate pack for the following applications:

- Suspended solids
- Oil and Greases
- Coagulated and flocculated particles

The Optiflot, type NPF can either be integrated in a total solution or offered as a single product for your waste water.

Advantages & Characteristics

- Compact built unit with plate pack
- Construction of stainless steel
- Standard range or tailor made
- Laminar flow through unit for optimal removal efficiency
- NPF LX standard range
- NPF HX special designed range for low polluted waters which result in a high capacity per unit



Technical Description

In the Nijhuis Water Technology flotation unit the separable particles will float to the surface.

The floating particles will be removed automatically and continuously by a scraper mechanism.

A lamella plate pack is installed to increase the separation area of the unit and ensures that even the smallest flocs are removed from the waste water. This makes the Optiflot NPF unit very compact.

The on-built recirculation system & aeration system is equipped with unique and patented non clogging aeration

devices and will form very fine air bubbles who will support the separation of particles.

The unit is equipped with automatic sediment removal valves for removing any settled material.

Unit selection is based on the type of waste water, the hydraulic and sludge handling capacity.

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Standard Range

| Type | Hydraulic capacity m ³ /hr | Sludge load m ³ /hr | Length mm | Width mm | Height mm | Weight Empty – full | Power kW |
|------------|---------------------------------------|--------------------------------|-----------|----------|-----------|---------------------|----------|
| NPF 110 LX | 137 | 1,7 | 4370 | 2619 | 3542 | 1900 - 17600 | 7,9 |
| NPF 150 LX | 196 | 3,5 | 4559 | 3971 | 3922 | 5500 - 32500 | 11,4 |
| NPF 250 LX | 326 | 5,8 | 6771 | 3945 | 3922 | 8000 - 56500 | 15,8 |
| NPF 350 LX | 457 | 8,1 | 9592 | 3951 | 3922 | 10500 - 80500 | 16,1 |
| NPF 500 LX | 653 | 11,6 | 12910 | 3957 | 3922 | 13500 - 110500 | 22,7 |