

DUPERON® FLEXRAKE® LOW FLOW



The FlexRake® Low Flow is a front-clean, front-return mechanical bar screen. It features the SmartLink™ multifunctional link system, which eliminates underwater sprockets, bearings or tracks. The groundbreaking flex/pivot action of the Duperon® FlexRake® is unhampered by large debris. It is offered in a range of channel widths, depths and bar openings to meet the needs of small communities.

THE DUPERON DIFFERENCE

FULLY AUTOMATED SOLUTION

- *Simple and cost-effective mechanical bar screen option for low flow sites*

PROVEN FLEXRAKE TECHNOLOGY

- *Adapts to a range of unpredictable flow and debris conditions without shutdown or operator intervention*

SAFETY FACTOR

- *Designed to handle 6 MGD peaking events to provide peace of mind during wet weather*

DESIGNED FOR DUTY

- *Pre-engineered and sized to perform in channels, flows and conditions for small communities*

LOW COST OF OWNERSHIP

- *With few parts, a fractional horsepower motor and zero scheduled maintenance, the FlexRake Low Flow is easy to install, own, and operate by your crew*



DUPERON® FLEXRAKE® LOW FLOW FEATURES

BENEFITS OF UHMW SMARTLINK™

- Allows for “dry” operation. Ideal for low flow sites with varying water levels - no minimum water depths required
- Jam Evasion™ Technology lifts or pivots around debris
- No complex rotating parts, brushes or wear components with tight tolerances below water surface
- FlexRake Adaptive Technology™ adjusts to a range of flow and debris conditions



- 1 500 lb. lifting capability
- 2 Integral enclosure provides full containment and allowing access thru removable panels
- 3 Front-clean, front-return means no debris carryover
- 4 FlexRake Adaptive Technology™ adjusts to a range of flow and debris conditions
- 5 Stainless steel and corrosive-resistant materials of construction
- 6 Uses hydraulically efficient teardrop shaped bars
- 7 Thru-Bar™ Scrapers keep face of screen, sides of bar and cross-members clean
- 8 Energy efficient 1/4 hp motor

GENERAL

Peak Flow/Channel Width:	
12" width	2.5 MGD
18" width	4.0 MGD
24" width	6.0 MGD
Maximum Liquid Level:	30"
Bar Opening:	¼", ½", ¾", 1"
Range of Channel Depth:	2' to 6'
Minimum Water Depth:	0" (can run dry)
Discharge Height:	32.5" as measured from deck max.
Unit Height:	65.5" measured from deck
Unit OAL Width:	41.5" measured at widest point
Lifting Capacity:	500 lb
Motor Size:	¼ hp, EPNV Standard

UTILITY

1 Phase	(115 volt or 230 volt)
3 Phase	(240 volt or 480 volt)

WATER

Spray Bar Consumption	3-10 GPM
Water Supply	At/below (840) micron 40 mesh screen

PERFORMANCE

Scraper spacing:	20.8" (every third link)
Discharge Rate/Cleaning:	Every 24.7 seconds
Scraper Travel Speed:	50.5"/minute
Sprocket Speed:	1.82 RPM

MATERIALS OF CONSTRUCTION

Drive Mechanics:	304 Stainless Steel
Enclosure / Dead plate:	304 Stainless Steel
Screen Bars:	316L Stainless Steel
Chain / Scrapers:	UHMW PE – UV Stable
Motor:	Steel with Std DC coatings

CONTROL FUNCTIONALITY

Emergency Stop • On-Off • Run Monitoring (Dry Contact)
Explosion-proof controls available***

***Custom site wiring is necessary with explosion-proof option. Main panel is remote mounted, explosion-proof motor and NEMA 7/9 push button station provided. Wiring completed per local requirements.