

# Ecologix Environmental Systems, LLC

## E-Series DAF Systems

*Combined Flotation & Sedimentation Skidded Systems*



**E-505**

Max Flowrate  
232 GPM  
7,954 BPD



**E-510**

Max Flowrate  
462 GPM  
15,840 BPD



**E-515**

Max Flowrate  
695 GPM  
23,829 BPD



**E-520**

Max Flowrate  
925 GPM  
31,714 BPD

### Available Models

Model	Max Flowrate		L	W	H	Surface Area	
	US GPM	BPD				ft <sup>2</sup>	m <sup>2</sup>
E-405C	130	4,457	8' 2"	5' 2"	9' 4"	202	18.8
E-505C	173	5,931	9' 8"	6' 2"	9' 4"	270	25.1
E-505	232	7,954	9' 8"	6' 2"	10' 10"	362	33.6
E-510	462	15,840	14' 7"	6' 2"	10' 10"	722	67.1
E-515	695	23,829	20' 1"	6' 2"	10' 10"	1,085	100.8
E-520	925	31,714	25' 6"	6' 2"	10' 10"	1,445	134.2
E-815	1,155	39,600	20' 1"	9' 2"	10' 10"	1,804	167.6
E-820	1,540	52,800	26'	9' 2"	10' 10"	2,405	223.4
E-825	1,924	65,966	31' 6"	9' 2"	10' 10"	3,006	279.3
E-1025	2,313	79,302	32' 6"	11' 2"	10' 10"	3,614	335.7
E-1030	2,774	95,108	37' 11"	11' 2"	10' 10"	4,335	402.7
E-1035	3,237	110,982	43' 5"	11' 2"	10' 10"	5,058	469.9
E-1040	3,700	126,857	48' 10"	11' 2"	10' 11"	5,780	537

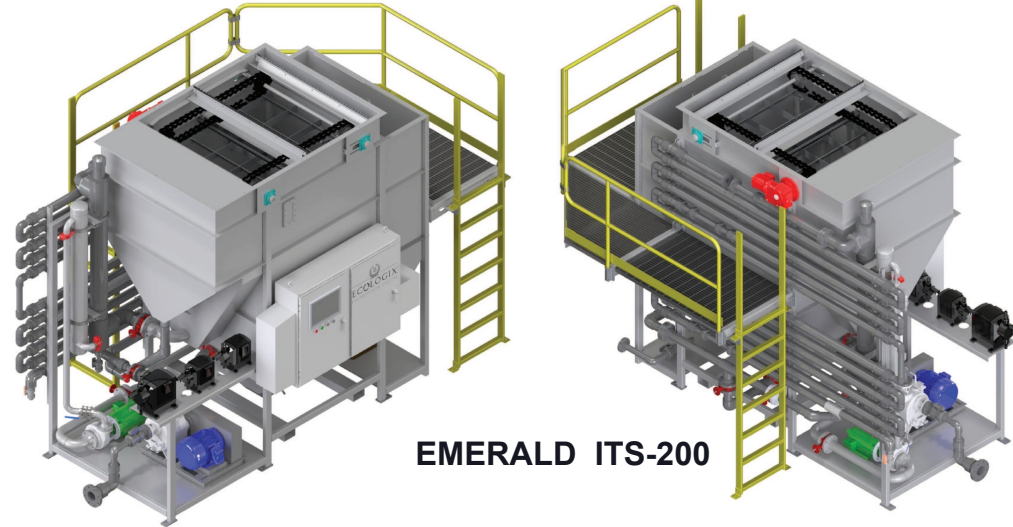
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11800 Wills Road, Ste 110  
Alpharetta, GA 30009  
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[www.ecologixsystems.com](http://www.ecologixsystems.com)

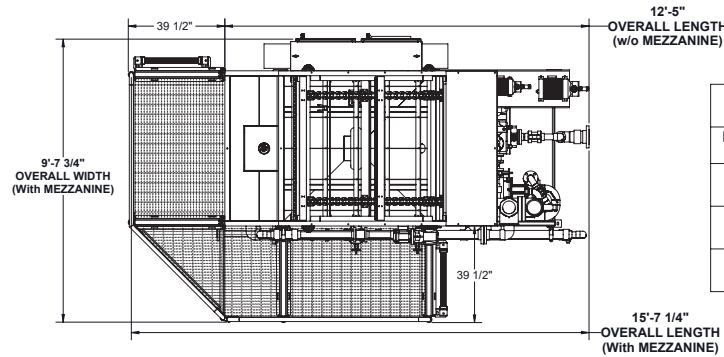


**ECOLOGIX EMERALD ITS - 200 DAF System Specifications:**

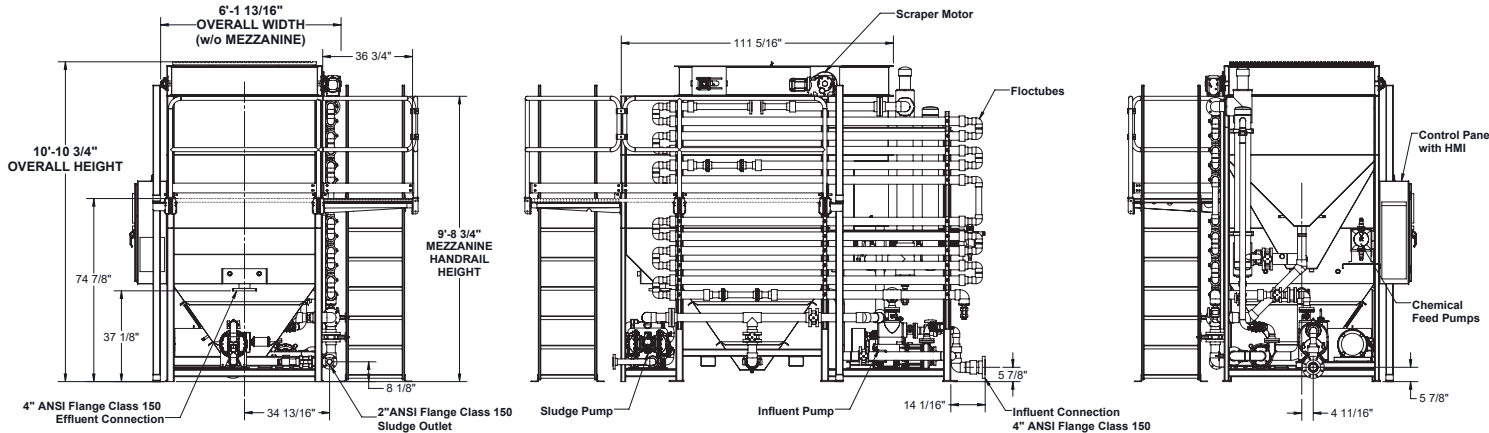
1. SHIPPING WT = 5800 lbs
2. OPERATING WT = 20100 lbs
3. DESIGN PARAMETERS:
  - DAF Design Flow Rate: 200 gpm
  - Floctubes Design Flow Rate: 40 to 110 GPM
  - Loading Rate: 0.64 gpm/ sq. ft. of projected aerea
  - Solid Loading Rate: 1.8 lbs/ sq. ft. hr.
  - Maximum TSS @ Designed Flow Rate: 1440 mg/l
  - Effective Surface Area: 25 sq. ft
  - Projected Surface Area: 325 sq. ft.
5. MATERIAL OF CONSTRUCTION:
  - All wetted metal materials to be SS 304
  - All non-wetted metal materials to be SS 304
  - All flanges to be ANSI 150# ANSI flanges ASTM A-182 - ANSI B16.5
  - All metal piping to be Sch 10 - pipe SS 304
  - All non-metal piping materials to be PVC Sch80
  - All Structure Beams to be Rectangular Tubing 3" x 2" x 11 ga SS 304
  - All anchor material to be 1/2" SS 304
  - All Scraper specifications drawing: see scraper detailed drawing
  - Flight Material of Construction: SS 304/ Buna or EPDM Scraping Rubber
  - Tube Settlers Material of Construction: Polypropylene
6. SAFETY AND HEALTH:
  - All moving parts are inaccessible, as required by OSHA
  - All electric power elements are in accordance with OSHA regulations
7. COATING:
  - All stainless steel parts are sandblasted
  - All A-36 ASTM Carbon Steel parts to be power coated with Performance Polymer Alloy Coating Plastcoat PPA 571 ES
8. WELDING:
  - All welds to conform to AWS applicable specification(s)
  - Welding equipment/ supplies for sheet metal and structural elements: Wire fed MIG machine or TIG where applicable
  - Welding equipment/ supplies for piping and fittings: TIG or MIG
9. SCRAPER MOTOR:
  - Size: 1.5" Hollow Shaft
  - Brand: SEW
  - Power: 1/2 hp
  - Output Speed: 18 rpm
  - Power Supply: 460V 60Hz 3 phase
10. WHITEWATER PUMP:
  - Brand: Pioneer
  - Model: SC32C10L71 (3" x 2")
  - Power: 10 hp
  - Output Speed: 3450 rpm
  - Power Supply: 460v 60Hz 3 phase
11. INFLUENT PUMP
  - Brand: Ebara
  - Model: EFQT2 (2" x 2")
  - Power: 10 hp
  - Output Speed: 2150 rpm
  - Power Supply: 460v 60Hz 3 phase
  - Maximum Solids Size: 2 1/2"
12. SLUDGE PUMP
  - Brand: Wilden
  - Model: 2" Flapper Valve Pump XPX810
  - Maximum Flow Rate: 169 GPM



**EMERALD ITS-200**



Available Floc Tubes Sizes		
Ecologix Part Number	Min. Flow Rate (GPM)	Max. Flow Rate (GPM)
FT2015	20	50
FT3020	40	110
FT4030	90	200



REVISION HISTORY			
REV	DESCRIPTION	DATE	BY/APPV
1			
2			
3			
4			
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9			
10			

**ECOLOGIX**  
ENVIRONMENTAL SYSTEMS

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DRAWN	SIGN	NAME	DATE
		NPT	5/29/2018
CHECKED		NPT	5/29/2018
ENG APPR		NPT	5/29/2018
MGR APPR		EG	5/29/2018

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES IN DEGREES CUTTING DISTANCE ± 0.005 WELDING DISTANCE ± 0.005

DRAWING TITLE: **EMERALD ITS - 200**  
Submittal Drawing

SIZE: DRAWING Configuration Name      REV: 1

FILE NAME: ECOLOGIX-AM00202

MATERIAL:

SCALE: NTS      WEIGHT:      SHEET NO: 1 OF 1

LAST UPDATE: CAD FILE LOCATION: