



CETCO MONARCH Induced Gas Flotation (IGF) Separators

technical specifications

Integrated design engineered and manufactured exclusively by CETCO MONARCH™ for both oilfield and industrial oil & water separation applications.

- Standard Models to 103,000BBWPD/3,000 GPM
- Fully Customizable Design
- High Performance and Reliability
- ASME Code & Non Code Vessel Available
- Complete Skid Mounted Packages Available

A Leading Separation Technology

Take advantage of top-notch technology and experience solutions to your water problems with the performance-packed Induced Gas Flotation Systems (IGF) engineered and manufactured by CETCO MONARCH. Accomplish water discharge or re-use goals, customize your CETCO MONARCH IGF to improve facility or field integration, and optimize your CETCO MONARCH IGF with performance options and tightly integrated auxiliary equipment. One of the most effective and efficient technologies available for removing oil and suspended solids from large volumes of produced water or wastewater streams is CETCO MONARCH Induced Gas Flotation (IGF) Systems.

CETCO MONARCH offers an advanced flotation system, which utilizes CETCO MONARCH eductor technology design to induce a myriad of micro-bubbles into a stream. CETCO MONARCH system's micro-bubbles massive surface area creates exponential contacting potential, producing superior separation performance of oil and suspended solids from the process water. Available on skid packages or standalone configurations, CETCO MONARCH routinely builds to our US industrial standards or customer specifications.



CETCO MONARCH™ ASME Section VIII, Div. 1 IGF Separator



CETCO MONARCH™ Non-Coded IGF Separator

Applications

- Oil/Water Separation in Petroleum Refineries
- Oil/Produced Water Separation on Platforms
- Treating Ship/Terminal Bilge & Ballast Water
- Oil Separation from Industrial Wastewaters
- Oil/Water Separation in Chemical Plants
- Oil Removal From Environmental Remediation

WATER TREATMENT | PIPELINE | WELL TESTING | WASTEWATER | RENTALS | NITROGEN | COILED TUBING



CETCO
OILFIELD
SERVICES

New Orleans, Louisiana 800.636.3500
 Broussard, Louisiana 800.432.0054
 Houston, Texas 281.578.8911

cetcooilfieldservices.com

Operation of the CETCO MONARCH IGF Separator

Operation of the CETCO MONARCH IGF Separator is simple and efficient. (1) Liquid flow is introduced into the CETCO MONARCH IGF Separator via gravity or at a specific process pressure. (2) The CETCO MONARCH IGF Separator distributes flow and creates “plug flow” via four (4) separate and distinct flotation zones. These four (4) flotation zones provide the necessary area for micobubbles, created from CETCO MONARCH’s Eductor Technology, to contact oil and/or suspended solids, making them buoyant, and rising them to the surface for skimming. (3) The CETCO MONARCH IGF Separator has an unique oil skimming trough and skimming system which is automatically set and adjustable external from the unit. (4) Clean water is maintained via level transmitters and discharged for disposal or additional treatment. (5) A percentage of the collected clean water is recycled and used by CETCO MONARCH’s unique eductor manifold (not depicted to maintain picture clarity) to mix with the IGF’s blanket gas to form a myriad of mirco-bubbles. As with all CETCO MONARCH products, CETCO MONARCH’s IGF Separator is designed to many U.S. industrial codes and incorporates advanced features such as a unique packaging design to enhance space and maintainability, long lasting materials of construction to extend the life of the system, and a flexible design providing an array of sizes, connections, and ancillary choices to meet individual client needs and requirements.



General Specifications

Functional

Service

- Oil Production
- Refining
- Chemical Processing
- Wastewater Treatment
- Hazardous Waste Remediation

Design Temperatures

Standard

- Up to 200F (93C)
- Custom Available

Design Flow Rates

Standard

- 103,000BBWPD/3,000 GPM
- Larger Flow Rates Available

Design Pressures

Standard

- Atmospheric or Per Code
- Custom Available

Physical

Material of Construction

Vessel

- A-36 or 516 Gr. 70
- 304 or 316 SS
- Custom Available

Eductors

- 304 or 316 SS
- Custom Available

Gasket

- Neoprene
- Viton
- Custom Available

Hardware

- 304 or 316 SS
- Teflon Coated Available
- Custom Available

Blasting & Coating Standard

- SSPC-SP-10
- In/Out 6-8 Mills C.T.E.
- Custom Available

Options

Packaged Systems

ASME Section VIII, Div. I Vessel

- Piping per Code
- Fully Tested
- Customization Available
- Various Materials of Construction

PLC Based Control System

- Complete System Functionality
- Remote DCS or Local Control

Complete Instrumentation Package

- Process Control, Indication
- Integral Design

Pumping System

- Various Designs and Capabilities
- Automated Process

Safety Shutdown System

- Various Designs and Capabilities
- Automated Process

Upstream Primary Oil Separator

- Add a CETCO MONARCH Skimmer
- Add CETCO MONARCH Hydrocyclones
- Add a CETCO MONARCH CPI

