



# MIGF

## Mechanically Induced Gas Flotation Unit

### Field optimized design delivering peak performance

Our MIGFs have evolved based on decades of brownfield service and repair work undertaken on competitor units; as problems have arisen our engineers have evolved technologies and techniques to improve and simplify the operational performance of this type of flotation system. As a product the MIGF is a very mature technology however it is still capable of delivering superior performance and is the favored type of flotation unit with several operators across the globe. Each unit is supplied with four high efficiency bubble generating impellers capable of delivering a high gas fraction into the produced fluids such that large bubble numbers drive up flotation efficiencies. Our units have been proven to deliver reliable performance throughout a wide range of fluid types and applications.

#### Benefits:

- Reliable and high-performance unit
- Capable of delivering performance in low temperature and low salinity (challenging) conditions
- 4-stages of treatment, all or some can be deployed depending on the processing requirement
- Enclosed design to allow volatile organic compound (VOC) capture
- Standardized and simple design
- Very high resilience to fouling
- Performance is well described by NOV's performance mode
- Rental and test units available

#### Design specifications

Parameter	Value (per unit)
Operating ranges	<10-1200 m <sup>3</sup> /h
Maximum typical inlet OiW concentration	150-300 ppmv
Typical outlet concentration	15-30 ppmv
Lowest achievable outlet concentration	<5 ppmv
Operating pressure range	0.1-0.5 barg
Skim rate	<5 v%
Associated products	NOV Nutshell Filter and Skimmers



Ask us to share operational experiences from our many past deliveries