



# DAF TECHNOLOGY FOR OIL & GAS APPLICATIONS



KWI Group is considered one of the pioneers of Dissolved Air Flotation (DAF) technology and is one of the oldest existing DAF unit manufacturers in the world.

Our DAF range includes **11 standard models**, as well as custom designs, to meet all customer requirements.

With nearly **70 years'** experience and the supply of **7000 DAF units** for **4700 references** globally, our Group is strategically placed to serve process industries worldwide.



Dissolved Air Flotation is considered to be very efficient and is widely used in treating the oily industrial wastewater from oil fields, oil refineries, petrochemical and chemical plants, natural gas processing plants, and similar industrial facilities.

**The main target of DAF unit, in oil & gas application field, is to remove suspended oil and solids from water to be treated.**

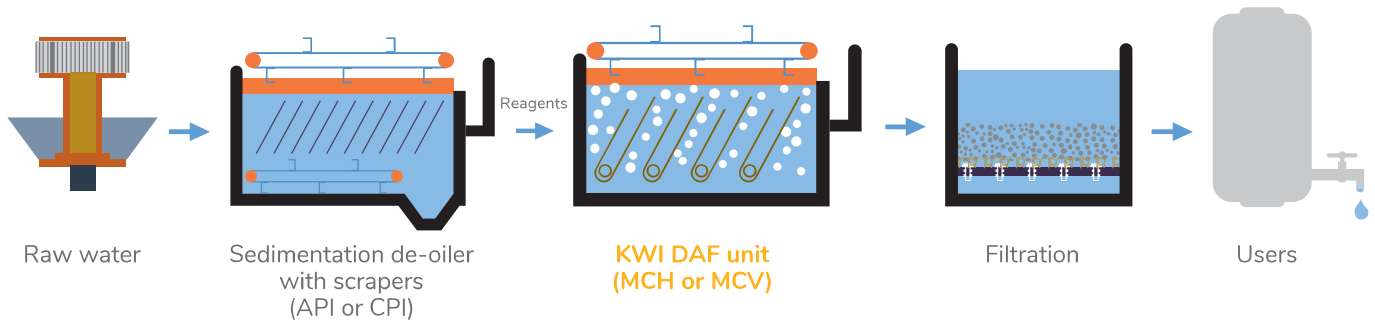
**The Megacell® is highly recommended for oil removal application.**

This innovative DAF unit is a compact solution, robust and easy to operate. Even start-up and shut-down phases do not modify its performance, resulting in a stable treated water quality.

## KEY FEATURES AND BENEFITS

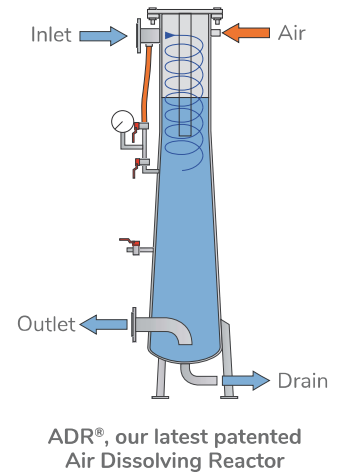
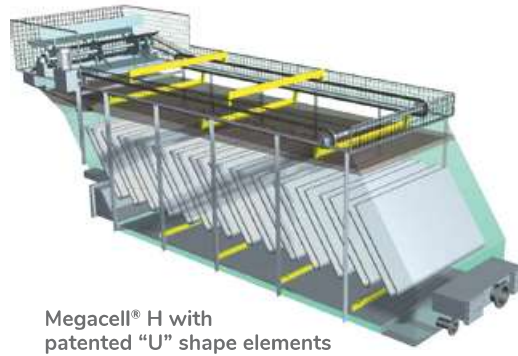
- Oil and TSS removal efficiency : 95-99%
- High hydraulic load: up to 30 m<sup>3</sup>/(m<sup>2</sup>.h)
- High sludge load
- Small footprint
- High sludge concentration: up to 5% of solid content
- Explosion-proof motors, sealed cover, nitrogen collect system, and other safety devices

## ■ Typical Process of oily water treatment with Megacell®



## ■ Performance & Operating Parameters

- Inlet oil: **up to 3000 mg/l**
- Recirculation ratio: **15%-20%**
- Air/Nitrogen dissolving rate: **>80%**
- Construction material: **SS304L/SS316L/SDX**
- Option: **Sealed cover**



## ■ Megacell® horizontal range

TYPE	MAXIMUM FLOW* (m³/hour)	POWER (kW)	DIMENSIONS LxWxH (m)	OPERATING WEIGHT (tons)
MCH 2	25	0.18	3.0x1.7x2.8	2.5
MCH 4	50	0.18	3.8x1.7x2.9	4.5
MCH 8	100	0.18	4.0x2.5x3.0	11.5
MCH 12	150	0.25	4.6x2.5x3.0	14.5
MCH 20	250	0.37	6.2x2.5x3.0	22
MCH 25	312	0.37	7.6x2.5x3.0	28
MCH 30	375	0.37	8.6x2.5x3.0	35
MCH 40	500	0.37	10.6x2.5x3.0	44
MCH 50	625	0.55	10.8x2.5x3.0	52
MCH 60 double	750	1.5+0.75	10.1x4.6x3.3	67
MCH 80 double	1000	1.5+0.75	12.1x4.6x3.8	116

\*The maximum flow includes recycle flow and depends on SS loading and on the application.

KWI specialists have vast expertise and experience ranging from engineering to building and commissioning, and from investment to operation.

**Let's work together to make your project a success!**



www.kwi-intl.com  
office-at@kwi-intl.com

KWI International Environmental Treatment GmbH  
Auengasse 8  
9170 Ferlach, Austria  
Tel. +43 4227 3266  
Fax +43 4227 3449

Member of the **SafBon** Group

