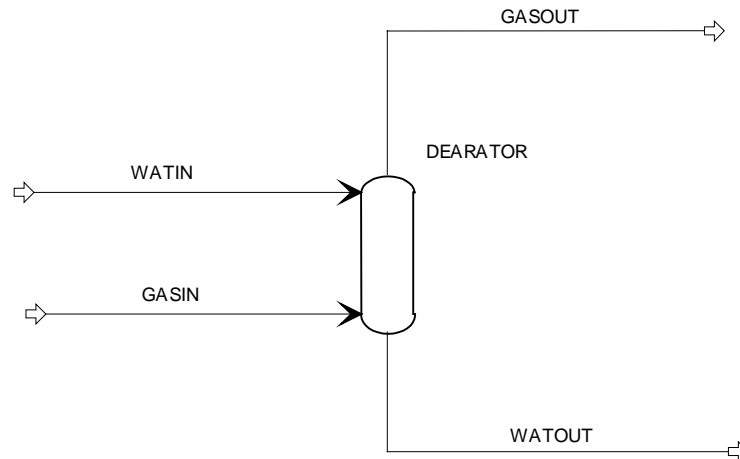

Description : Dearator-Removal of oxygen from water using stripping gas

Process Flow Diagram



Process Description

Water containing 15-20 ppm of oxygen by weight needs to be treated in such a way that oxygen in outlet water should be in the range of ppb. This is done using a dearator column where stripping gas, containing 60-70 percent (wt) methane, is used to strip oxygen. Typical stripping gas composition is

Component	Mass Fraction
H ₂ S	0.0009
CO ₂	0.0200
NITROGEN	0.0035
METHANE	0.6619
ETHANE	0.0636
PROPANE	0.1072
I-BUTANE	0.0209
N-BUTANE	0.0630
1-PENTAN	0.0218
N-PENTAN	0.0214
N-HEXANE	0.0158

Plant capacity : 600-700 cubic meter per hour of water to be treated in this dearator

Operating Conditions

Dearator is operated under atmospheric condition and is packed with plastic column internals.

Experience

Finepac™ Structures Pvt. Ltd. has designed and supplied dearator capable of treating 650 cubic meter/hr of water.