Saturant Brine Refine Process

The well brine salinity can get to 300g/L, it becomes the raw mateiral of chlor-alkali industry.

Existing process request NaCl less than 280mg/L, it need add water at early stage, and salt dissolving after denitration process to increase the content of NaCl.It is complicated and cost more.

Kaimi worked with government organization to study saturant brine refine process (Nacl>300g/L) from 2011. After 3 years testing and research, a 200, 000 m³ capacity production line established. It runs smoothly now.

· Project Brief

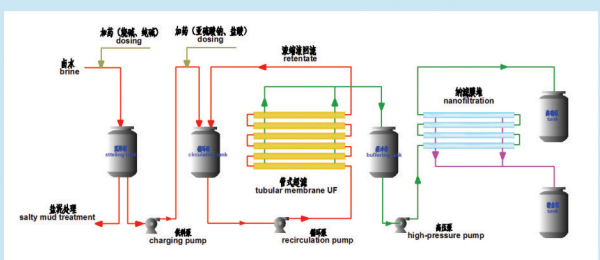
· Project Site: Hongze China
· Treatment Capacity: 200, 000m3/d
· Start at: April of 2014
· Model: KMTB-0803-FU
· Membrane specification:
8mm PVDF F500 TM

· Project Brief

Item	Standard	Item	Standard
NaCl	⩾ 305g/L	Sr^{2+}	⩽ 2.5 mg/L
$Ca^{2+}+Mg^{2+}$	⩽ 4mg/L	Fe^{3+}	⩽ 0.5 mg/L
SO_4^{2-}	⩽ 1.5g/L	ClO^{3-}	⩽ 4g/L
Total Ammonia	⩽ 1mg/L	ClO^{-}	ND
SS	⩽ 1 mg/L	NaOH	⩾ 0.3 ~ 1 g/L
Al^{3+}	⩽ 0.3mg/L	Na_2CO_3	⩾ 0.3 ~ 1 g/L

Project Overview

Tubular Membrane System



Project Case >>>

· Process Advantages

1、Leading process which can directly refine saturant brine;

2、Simple process (Reduce feed in water and salting);

3、Saving salt, less operation cost;

4、Tubular membrane worked as the pretreatment of NF denitration process,
Contribute for the high flux 400LMH, Low investment;

5、Promise to avoid the membrane system damage caused by the crystals of saturant brine;

· Project Site

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