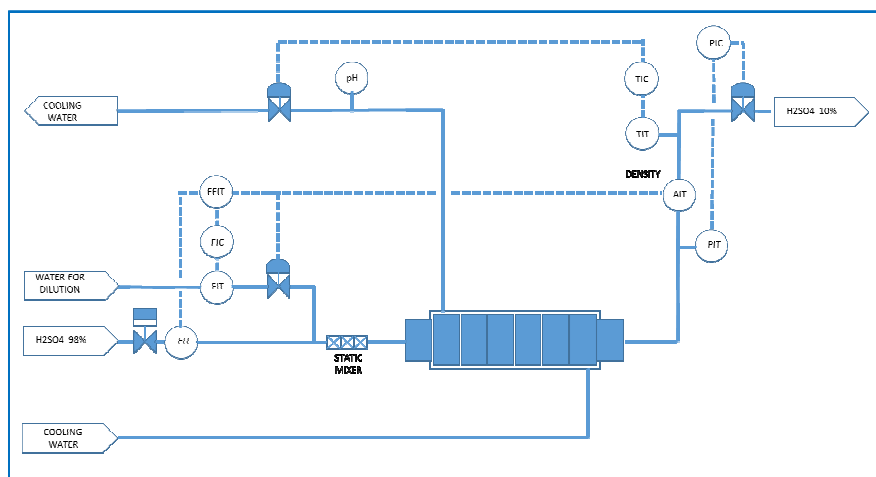


DILUTION OF STRONG ACID

H₂SO₄ OR HCL DILUTION PROCESS TECHNOLOGY

A UNIQUE TECHNOLOGY TO OPTIMIZE PRODUCTION

Référence: F03_1_E



Typical Process PFD



Dilution Skid – 96T/h 84% H₂SO₄

BENEFIT #1 :
OPERATION

BENEFIT #2 :
CONCENTRATION

BENEFIT #3 :
VERSATILITY

BENEFIT #4 :
ENERGY SAVING

Can be used for :
- continuous operation
- batch operation.

Can be used to deliver diluted acid at any concentration.

Can be used for all corrosive fluids :
- HCl (hydrochloric acid)
- H₂SO₄ (sulfuric acid)
- HF (hydrofluoric acid)

Can be used to recover heat coming from the exothermic reaction between strong acid and water.

HEAT EXCHANGER MADE IN GRAPHILOR®

THE WEAPON OF CHOICE FOR CORROSION RESISTANCE
(NOTE : OTHER MATERIALS ALSO AVAILABLE SUCH AS SILICON CARBIDE, ETC.)

DILUTION OF STRONG ACID

H₂SO₄ OR HCL DILUTION PROCESS TECHNOLOGY

MERSEN PROPOSES THREE PACKAGES WITH OPTIONS

BASIC PACKAGE

INCLUDES PIPING, INSTRUMENTATION AND MIXER IN A SKID PACKAGE

This is a “no heat exchanger ” package with dilution only.

→ Generally perfect for diluting 93% acid below ~15% wt.

STANDARD PACKAGE

INCLUDES PIPING, INSTRUMENTATION, MIXER AND A HEAT EXCHANGER IN A SKID PACKAGE.

→ Perfect for diluting 98% acid to above ~70% or for diluting 93% acid above ~15%

PREMIUM PACKAGE

INCLUDES PIPING, INSTRUMENTATION, MIXER AND TWO HEAT EXCHANGERS IN A SKID PACKAGE.

→ Perfect for diluting 98% acid below ~70%

FLEXI+ AND/OR PUMP+ OPTIONS

THE FLEXI+ CONTROL OPTION AND PUMP+ OPTION CAN ADD A COMPLETE CONTROL SYSTEM AND/OR FEED PUMPS TO ANY OF THE ABOVE PACKAGES.