

Myths & Facts

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Replacemnt of Baskets - Weight based & By apperance

Fact

- Should be by Performance based

Herringbone profiles - Better Heat recovery

Facts

- More choking
- More pressure drop
- Better heat recovery for short period

Myth

GEECO

0.8 mm

Higher Thickness for heating Elements

Facts

0.6 / 0.5 mm

- More heat transfer area with 0.5/0.6mm
- Less weight and hence less replacement cost
 - Adopt Sacrificing Basket concept.

More baskets gaps -
Easy to install

Fact

- Correct dimensioned baskets -
for improved performance

Stainless Steel - Good for Cold End Elements

Fact

- Corten or Enamelling is good against Sulphuric acid corrosion

Myth

IS 513 DD material only is to be used for Hot End and Hot Intermediate Baskets

Fact

- IS 513 D is also acceptable

Material	Hardness	YS	TS
IS 513 D	65	240	370
IS 513 DD	57	220	350

Motor Current – Lower Good

Fact

- Tight sealing will draw more current

The APH size cannot be increased
in the given location

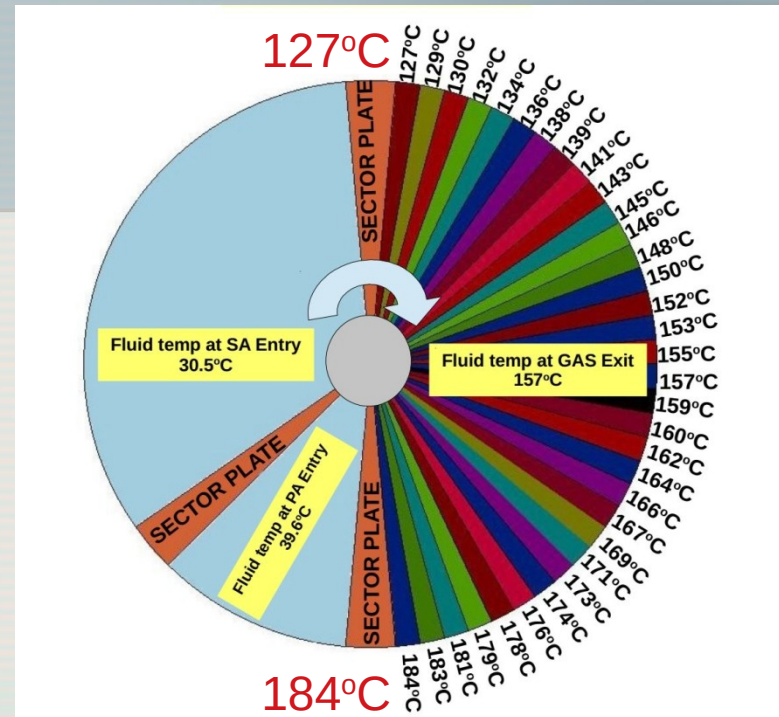
Fact

- In the same location, by **MAXTRA**
technology, size can be increased
to next size

Single point measurement for Gas exit temperature - OK

Fact

Grid measurement - for accuracy



Low Gas Outlet temperature measured

- Good Perf

Facts

- Always not
- Evaluation is to be with T_{gounc}
- Not with $T_{go\ cor}$

The output Perf parameters are to be constant for all input parameters.

Fact

- Based on the variation in input parameters, the output parameters will vary.
- The correction curves has to be applied as per ASTM PTC4.3 to evaluate the current performance

Gas and Air uniformly flow across
the air preheater

Fact

- Flow guide vanes is to be
introduced to make flow uniform

The seal setting values given in the data sheet is constant always

Facts

- It varies with current operating parameters
- The seal setting values are to be recalculated based on the current input parameters.

ALCS is not working continuously

Fact

- GLRS is working continuously and reliably

Conventional Nuts are enough for fixing the seals

Facts

- Use metallic self lock nut for fixing seals
 - Use minimum 8.8 grade screws

Stainless Steel - Good for Seals

Fact

- Corten is best suitable

Replacement of full Sector plate - Difficult

Fact

- The sector plates are made into 2 or 3 parts and reassembled inside the air preheater by 'Ez-in' technology

For sector plate sealing surface

- Totally replacing with wear resistant plate is good

Fact

- Wear resistant Liner plate is enough

The given fixed rpm - Optimum

Facts

- Introduction of VFD drive
- Corrected rpm will give best perf.

Steam Coil Air Preheater – SCAPH is a must

Fact

- Can be removed
- If decided, can be placed in the bypass duct

For higher MWs-

Separate PAPH and SAPH is good

Fact

- Tri-sector is preferred

Sonic cleaning - Application for air preheater

Fact

- Not recommended

APH is to be bolted to the supporting structure

Fact

The seal gaps are calculated based on these expansions. APH should be freely allowed to expand horizontally and vertically. Any restrictions on these expansions will affect the sealing system

Flow regulating guide vanes will
fall on APH

Fact

Periodic check up will avoid
this problem

R&M erection takes 4 - 6 months

Fact

Depending on space restrictions GEECO redesign APH such that the erection will be completed within 35-45 days

Thank You