9 CHE459

ROsmose - 1

Save and Exit

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1. What is the right linking that should be entered in ROsmose to retrieve the heat duty of the condenser of the distillation column T1 from the ASPEN model ?

A |Cond_duty| /Data/Blocks/T1/Output/COND_DUTY|kW||
B |Cond duty| \Data\Blocks\T1\Output\COND_DUTY|kW||
C |Cond_duty| /Data/Blocks/T1/Input/COND_DUTY|kW||
D |Cond_duty| /Data/Blocks/T1/Output/REB_DUTY|kW||
E |Cond_duty| \Data\Blocks\T1\Output\REB_DUTY|kW||
F None of the options
G |Cond_duty| \Data\Blocks\T1\Input\COND_DUTY|kW||

2. In ROsmose, what connects the flows between the different energy technology models?

A Electricity
B Utilities
C Layers
D Inputs
E None of the options

3. In ROsmose, what means if you define a unit as ‘process’ or ‘utility’ ?

A ‘Process’ : the size of the unit can be varied to optimise the ‘utility’ units. ‘Utility’ : the size of the unit is fixed.

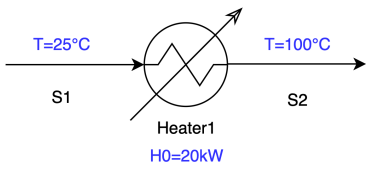
B ‘Process’ : the size of the unit is fixed. ‘Utility’ : the size is optimized to meet the requirement of the ‘process’ units.

C Both ‘process’ and ‘utility’ mean that the size of the unit can vay.

D Both ‘process’ and ‘utility’ mean that the size of the unit is fixed.

E None of the options.

4. In this case, how could you enter the streams in the ET? Multiple choices are possible.



A Tin = 25 , T out = 100 , Hin = 20

B Tin = 100, Tout = 25, Hin = 20

C Tin = 25, Tout = 100 , Hout = 20

D Tin = 100, Tout = 25, Hout = 20

E Tin = 25, Tout = 100 , Hout = -20

F Tin = 100, Tout = 25, Hout = -20

G Tin = 25 , Tout = 100 , Hin = -20

H Tin = 100, Tout = 25, Hin = -20

I None of the options.

5. Considering the Minimum Energy Requirement scenario, when you change the power to the electrolyzer to -50MW in model inputs, what is the minimum cooling and minimum heating that you obtain?

A Minimum cooling is 202.1 kW and minimum heating is 16.31 kW

B Minimum cooling is 16.31kW and minimum heating is 202.1 kW

C Minimum cooling is 164 kW and minimum heating is 2518kW

D Minimum cooling is 2518kW and minimum heating is 164 kW

E None of the options.

Add Blank Question

Multiple Choice True / False Short Answer

AI Assisted

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