



Presentation:

ATMOSPHERIC DISTILLATION UNIT RE-DISTILLATION UNIT

ATMOSPHERIC DISTILLATION UNIT

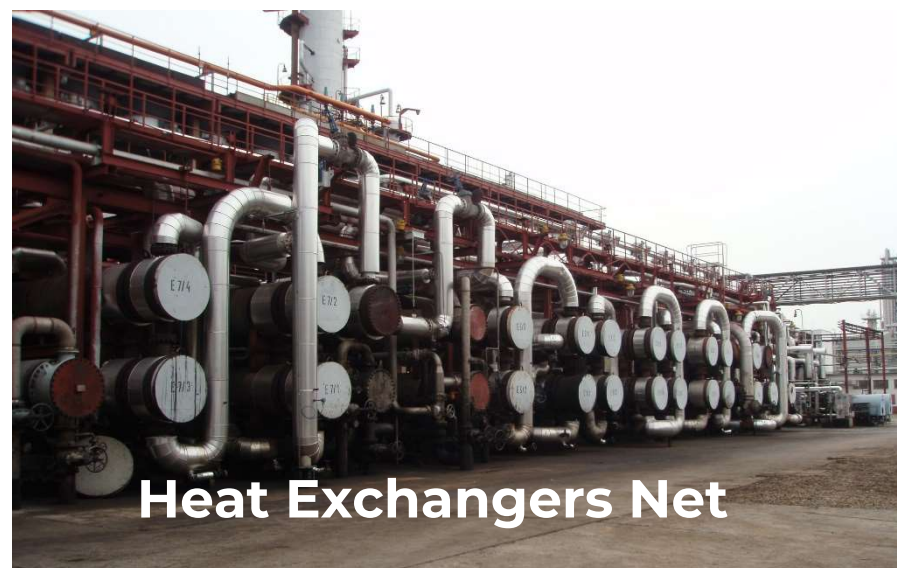
Atmospheric Distillation Unit is used for crude oil distillation.

Typically, the unit consists of:

- Desalting
- Pre-heating section (heat exchangers, fired heater)
- Distillation column



Desalters



Heat Exchangers Net



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Company

Boilen s.r.o.
ID. No.: 09828192

ATMOSPHERIC DISTILLATION UNIT

- Distillation tower operated at atmospheric pressure
- Column internals are trays
- Material: CS with corrosion allowance min. 3 mm at least
- Typical feedstock: CRUDE OIL
- Typical draw-offs:
 - Propane
 - Butane
 - Total Naphtha
 - Kerosene
 - Light Gas Oil
 - Heavy Gas Oil
 - Atmospheric residue

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RE-DISTILLATION UNIT

- Re-distillation (as a part of Atmospheric Distillation Unit) is typically used for naphta cut distillation
- Column operated at atmosperic pressure
- Internal column: Trays
- Material: CS with corrosion allowance min. 3 mm at least
- Typical feedstock: NAPHTHA CUT
- Typical draw-offs:
 - Light Straigh Run
 - Benzine
 - Heavy Naphtha



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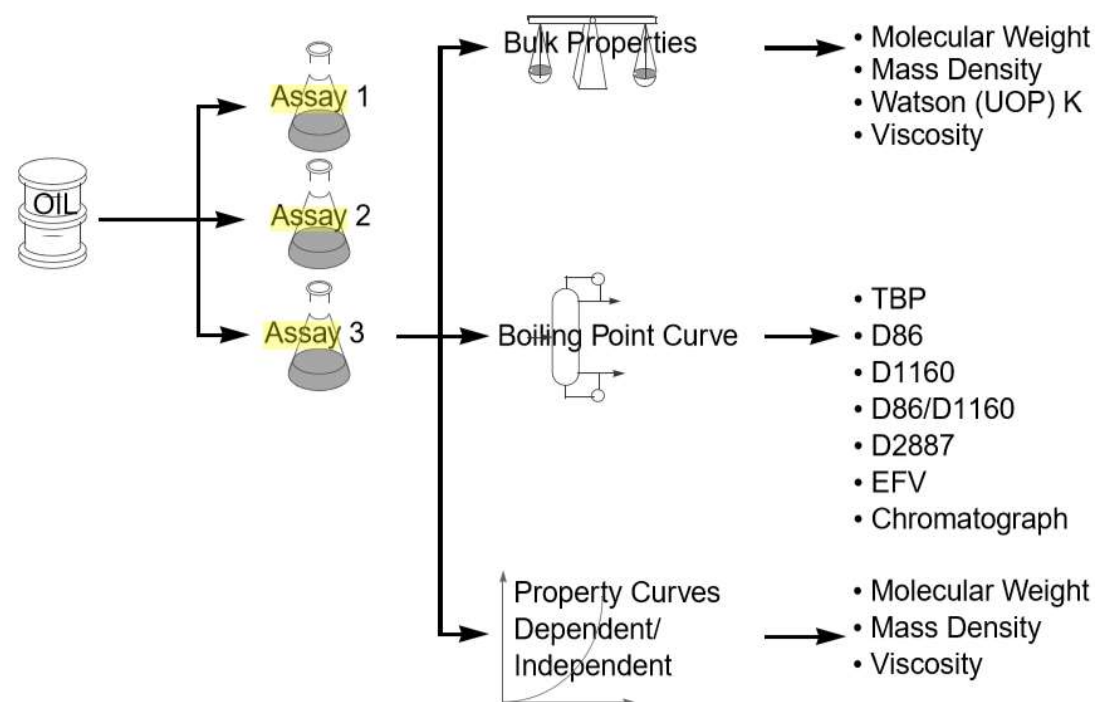
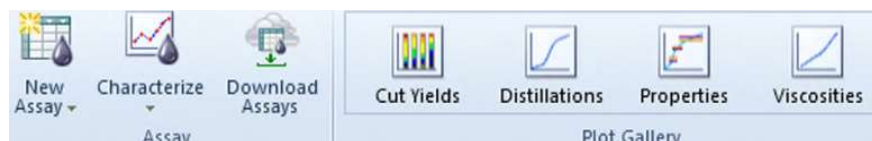
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ATMOSPHERIC DISTILLATION UNIT

Typical characteristics of Crude Oil

Crude oil assay:

- Bulk properties (mainly density d15, viscosity, MW, UOP-K)
- Content of heavy elements, Sulphur, Nitrogen, Hydrogen, ...
- Distillation curve(s)



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ATMOSPHERIC DISTILLATION UNIT

BASIC CHARACTERISTICS OF TYPICAL DRAW-OFF

Fraction (CDU draw-off)	Normal Boiling Point (°C)	Typical hydrocarbons
Gaseous HC	< 5	C1 – C4
Light Naphtha	30 – 80	C5 – C6
Heavy Naphtha	80 – 190	C7 – C10
Kerosene	190 – 270	C11 – C15
AGO	270 – 370	C16 – C22
Vacuum Distillate(s)	370 – 550	C23 – C45
Vacuum Residue	> 550	> C46



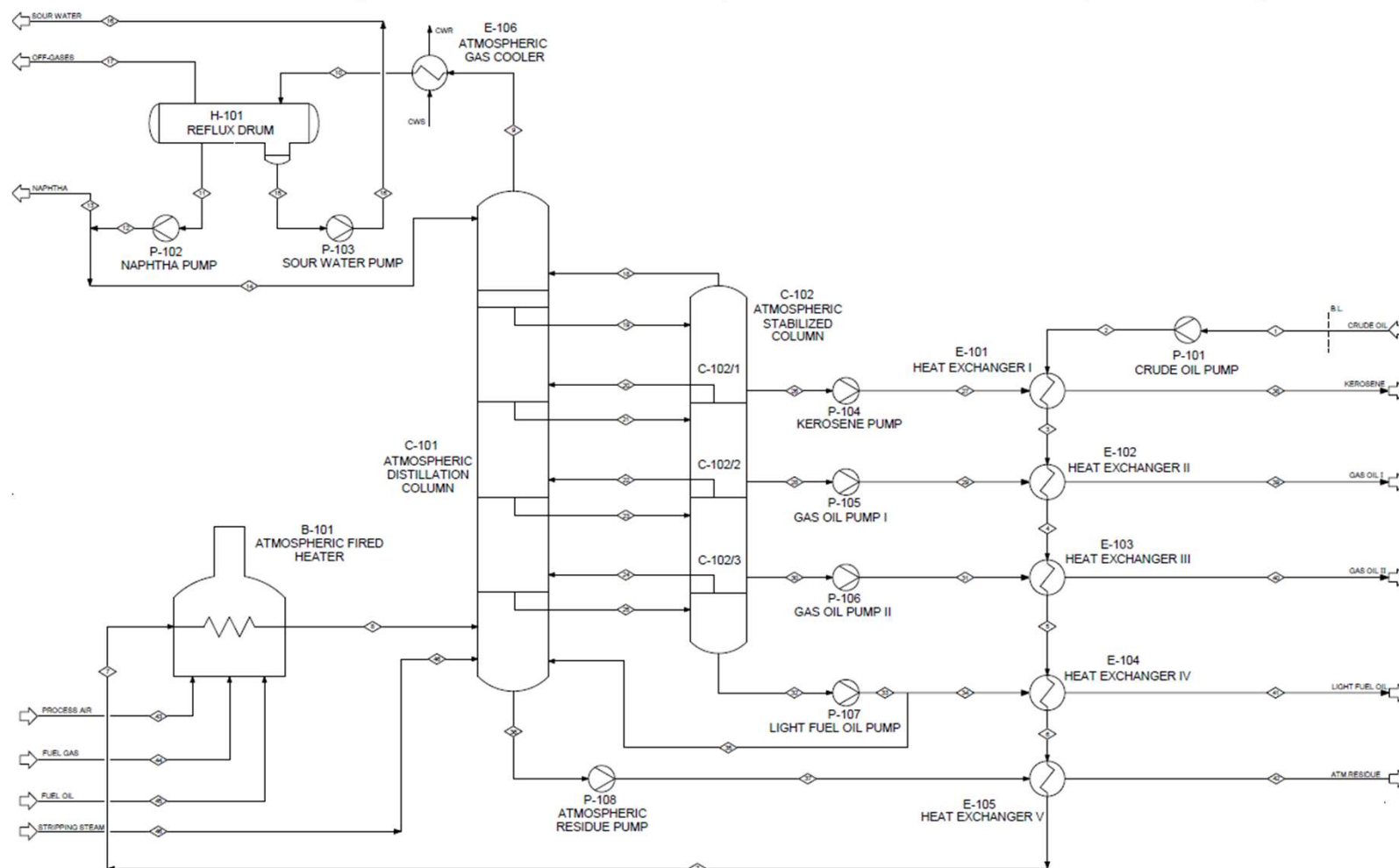
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ATMOSPHERIC DISTILLATION UNIT

TYPICAL PROCESS FLOW SCHEME



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THANK YOU FOR YOUR ATTENTION

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