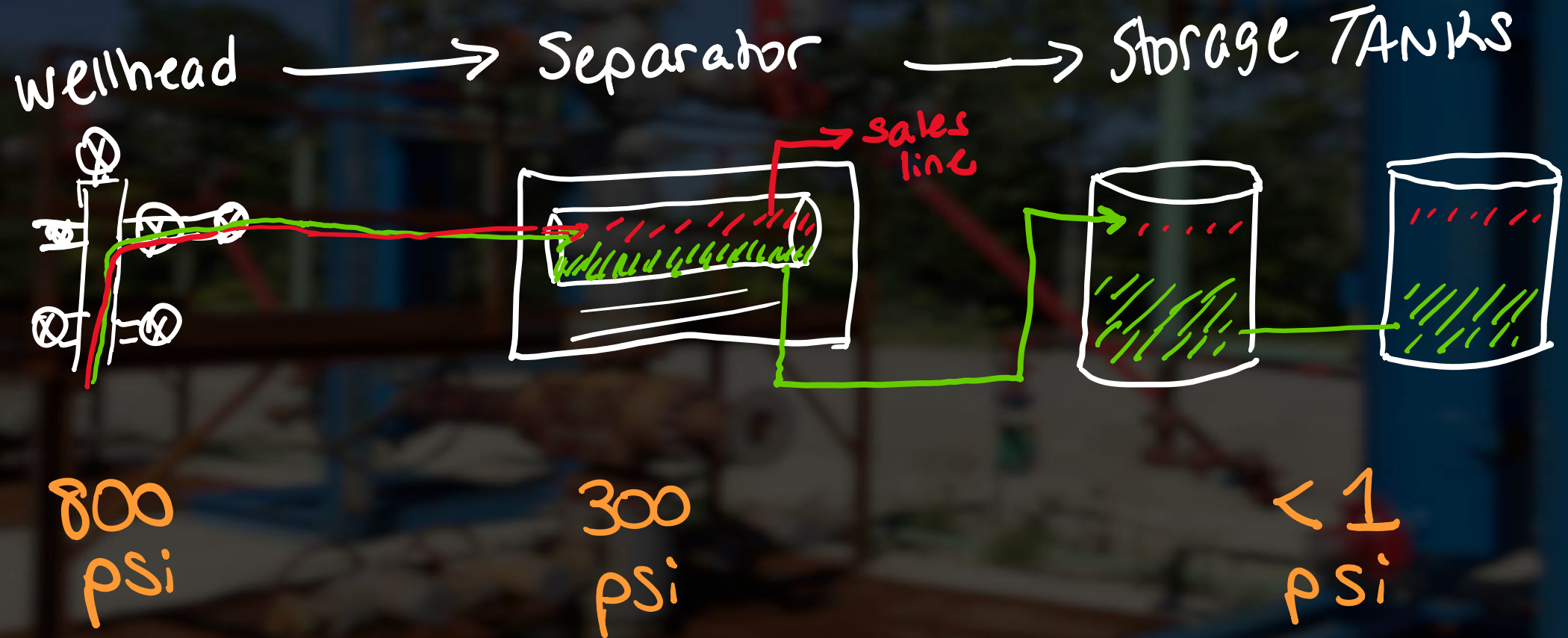
COMBUSTOR BASICS

INTRODUCTION, TYPES, COMPONENTS, PLACEMENT, DESIGN, TROUBLESHOOTING

WHY COMBUSTOR?



WHY COMBUSTOR?

Option 1: Recovery

→ Compressor → sales line

Option 2: Destruction

→ Flare or cumbustor

TWO TYPES

1. MECHANICAL DRAFT – air is supplied via mechanical blower (requires electricity)
2. NATURAL DRAFT – air is supplied naturally by density differences (requires long stack)

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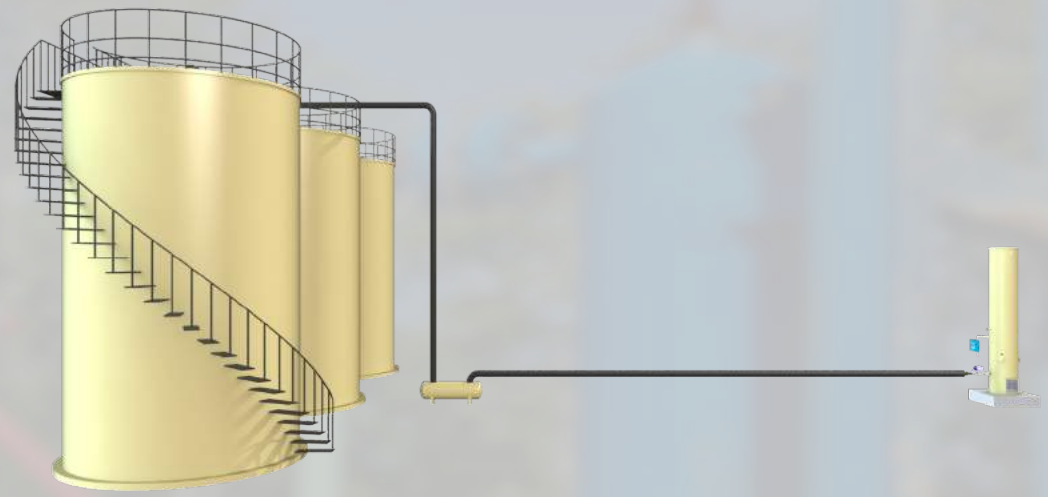
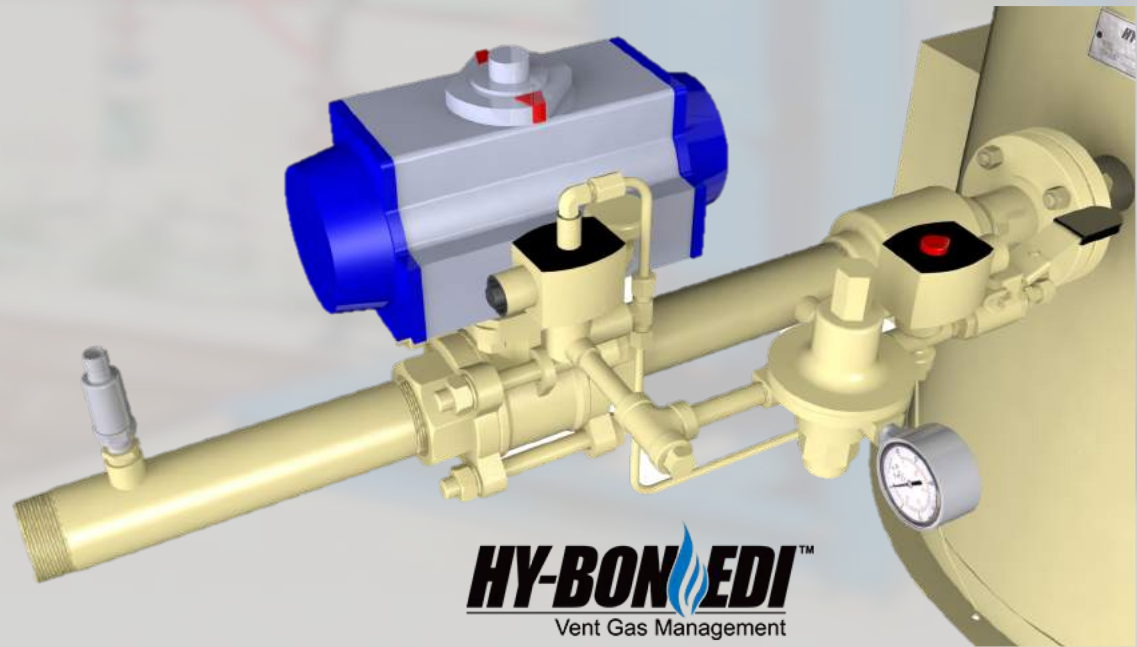
COMPONENTS

1. EMERGENCY SHUT-DOWN VALVE FOR THE WASTE GAS STREAM (Pictured on bottom)
2. INLINE FLAME ARRESTOR FOR THE WASTE GAS STREAM
3. HIGH-TEMPERATURE REFRACTORY
4. A BURNER MANAGEMENT SYSTEM
5. CONTINUOUS AND RELIABLE PILOT SYSTEM





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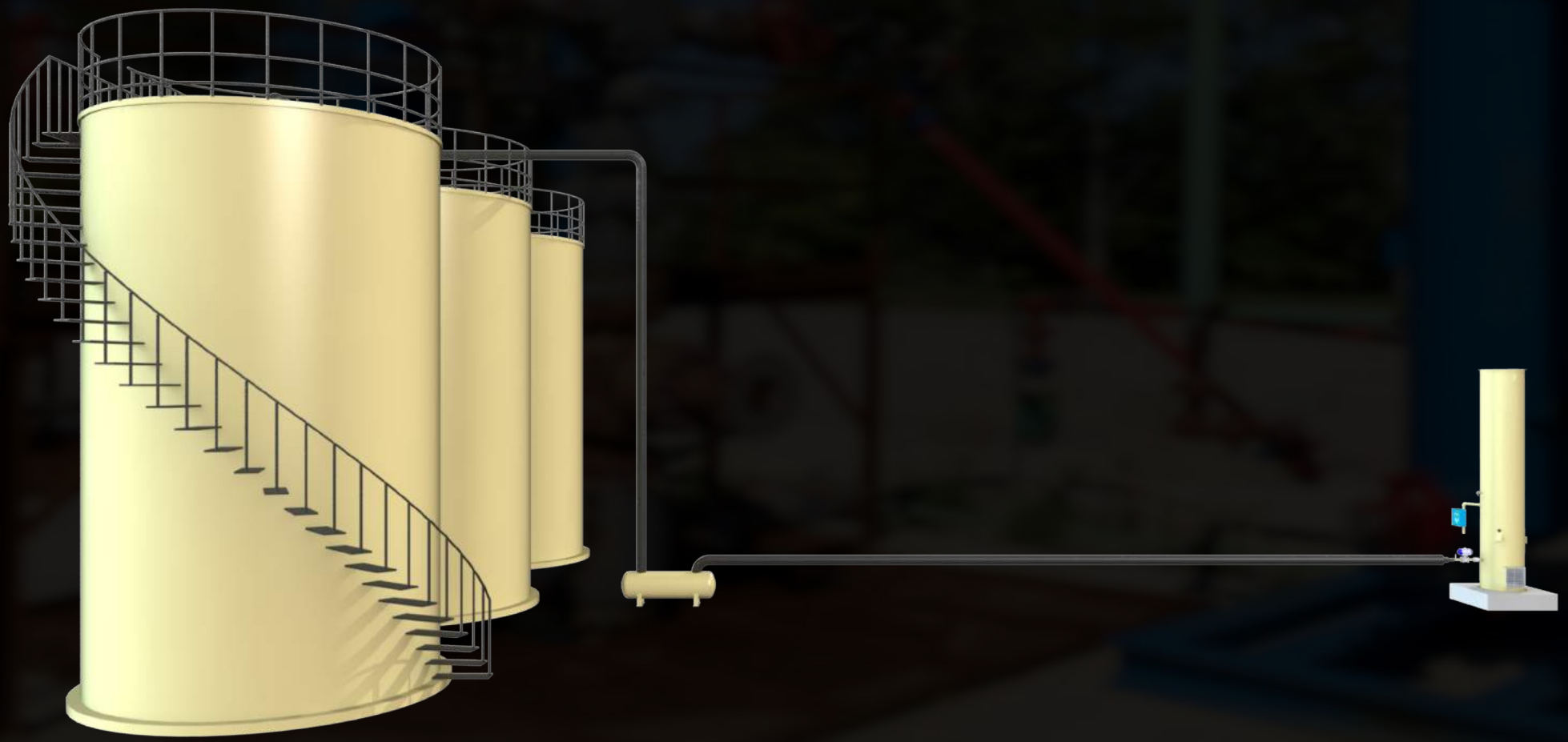
PLACEMENT



DESIGN

- GAS COMPOSITION
- HEATING VALUES OF MOLECULES
- LINE PRESSURE TO MOVE GAS TO COMBUSTOR,
- GAS VOLUME

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TROUBLESHOOTING

- RESTRICTIONS IN LINE(S)
- AIR INTAKES
- CLOGGED ORPHICES
- CLUSTER DAMAGE
- PRESENCE OF LIQUID

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