

TECHNICAL DESCRIPTION

•Packaging Data

- Maximum Discharge Pressure: 350 PSIG
- Maximum Inlet Pressure: 50 PSIG

•Skid Design

- Skid Size: 6' x 12'
- Package is skid mounted, featuring a smooth deck plate and substantially rigid sub-structure for minimal deflection.
- Skid should be installed on a level pad with no additional grouting or additional binding to foundation required.
- Skid is designed for tail-roll loading/unloading, or crane picking at drag bar end points.
- Skid includes perimeter seal-welded, environmental drip rails with 2" NPT drain connections in each corner.

•Vessels

- Vessel Design and Construction per ASME Boiler and Pressure Vessel Code, Section VIII Div. 1
- Scrubber to include automatic blowcase and pneumatic dump system
- Suction Scrubber: 16" O.D. with internal blowcase, stainless steel mist pad, removable 5 micron inlet filter sized for 1.2 mmscfd at 0 psig, and hydraulic davit arm for ease filter changes. 3" 150 flanged in/out. 230 psig MAWP.
- Discharge Separator: 10.75" O.D. with internal centrifugal primary separator, foam breaker stilling plate, coalescent filter secondary oil separator designed for less than 8ppm oil carry over, and hydraulic davit arm for easy filter changes. 3" 300 flanged in/out. 400 PSIG MAWP.

•Cooling System

- Compressor Lube Oil: Carbon steel box headers with carbon steel tubes and aluminum fins. ASME Sec. VIII Construction.
- Gas Aftercooler: Carbon steel box headers with carbon steel tubes and aluminum fins. Includes manual louvers. ASME Sec. VIII Construction.

•Compressor

- Make/Model: LeRoi oil-flooded rotary screw, model HG12228H5IE
- Make/Model: 127mm SRM profile nodular iron rotors, High 5.0 Vi ratio
- Minimum backpressure regulator is included for reliable oil feeding.
- Geared compressor with (22) gearing choices for maximum flexibility.
- (2) Versatrol poppet valves allow for 25% volume unloading
- Dual 11 micron lube oil filters with differential pressure monitoring
- Oil injection temperature is thermostatically controlled to 230° F. Thermostat is installed in mixing configuration for increased temperature stability.

•Driver

- Type: 125 hp, 1800 RPM TEFC electric motor
- Power Requirement: 145 FLA at 460V/3Ph/60Hz
- EPACT premium efficiency rating
- Suitable for installation in Class I Division 2 Group D hazardous locations.
- Motors are inverter duty rated for use with variable frequency drives
- Includes Rexnord Omega torsionally-soft coupling

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•Piping Philosophy

- 2" NPS and smaller: SCH 40 RFSO flanged connections with socket-welded fittings and NPT take-offs. Nipples to be XH.
- 3" NPS and larger: SCH 40 RFSO flanged connections with butt-welded fittings
- Inlet connection size: 3" ANSI 150 Flange
- Outlet connection size: 2" ANSI 300 Flange

•External Coating

- Process includes SSPC-1 solvent clean, prime with compatible direct-to-metal primer, finish with high-gloss alkyd epoxy topcoat
- **Paint Color:** Shale Green

•Controls and Automation

- LOGIX PLC system is standard on all units of this model.
- The system is managed via an Omron CP1H PLC packaged with a user friendly, 7" full-color touchscreen HMI.
- Standard I/O includes 24 digital inputs, 16 digital outputs, 9 analog inputs, 4 temperature inputs, and 4 analog outputs.
- ABB ACS550 variable frequency drive for full range of compressor operating speeds
- Ultra precise speed control that continuously monitors and reacts to suction pressure, discharge pressure, tank vapor pressure, driver current, etc.
- Highly sophisticated control sequences for automatic starting and stopping, capacity control via driver speed and compressor loading valves (if applicable), blowdown and vacuum control systems, etc.
- Data trending is built-in with crisp line graphs for all analog signals. The history review feature allows the user to examine operating history with precision ranging from a span of one minute to more than a week.
- Easy to use security features allow data review without any required actions, but control settings can only be *altered* after logging in. Access is controlled on multiple security levels.
- All program features are designed from the user's needs and perspectives. Even with complex automation functions, set-up and daily operation is easily achieved with minimal training. Fail safe design parameters allow complete confidence that user errors are rare and they cannot damage the equipment.
- The skid electrical system, including end devices, is designed to meet the requirements of Class I Division 2.
- The on-skid panel are designed to meet the requirements of Class I Division 2, and thus does not need to be mounted remotely.
- The VFD enclosure does not meet the requirements of Class I Division 2 and must be installed in a safe area outside the hazardous boundary.
- Direct SCADA communication is accessible through MODBUS RTU RS-485 or MODBUS/TCP protocols (Please specify upon order)
- FLUX telemetry is included at no charge for all rental equipment (optional subscription for purchased equipment). FLUX provides user control of callout recipients, work order visibility, GPS location, and real-time trending of key process variables, including current 30-day mechanical availability.

•Instrumentation and Shutdown List

- High Scrubber Level (Murphy LS200)
- Low Compressor Oil Level (Murphy LS200)
- High/Low Suction Pressure (ABB Advanced Hart 266HSH local mount transmitter)
- High/Low Discharge Pressure (ABB Advanced Hart 266HSH local mount transmitter)
- High/Low Compressor Oil Pressure (ABB Advanced Hart 266HSH local mount transmitter)
- High/Low Tank Pressure (ABB Standard Hart 266HSH remote mount transmitter provided for vapor recovery applications)
- High Compressor Oil Filter Differential Pressure (Calculated)
- High/Low Discharge Temperature (Type K Thermocouple)
- High/Low Compressor Oil Injection Temperature (Type K Thermocouple)
- Main Motor High/Low Current (ACS550 and ACS880 models)
- Main Motor Over/Underspeed
- Main Motor VFD Fault
- Cooling Fan Motor Fault (VFD Fault or Overload Trip)
- Several additional predetermined sensor inputs and configurable spares are available

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PRICE AND DELIVERY

Purchase Price

FX12V125

Includes Fisher D4 Easy-Drive 1" NPT 24VDC electronic actuated control valve in lieu of pneumatic recycle valves.
Includes Tuthill 4105 gear pump with 3/4 HP XP motor for scrubber liquids handling in lieu of pneumatic blowcase valves.

Conduit upgrade to Class I Division 1 (XP) includes seals and XP-rated flex conduit at all end devices. End devices shall be installed on vessel-end of the skid, to be enclosed in building by customer. Conduit runs will include seals crossing hazardous boundary from Division 1 to Division 2 area.

Electric motor upgrade to Class I Division 1 (XP), includes main driver and fan motor.

Differential Pressure Transmitter (DPIT) Installed on Discharge Coalescent Filter. ABB Model 266DSH 0-642 inH2O

QTY 20+ Discount

Taylor 7722 Series Back Pressure Regulator In Lieu of Standard Kimray

STANDARD TERMS AND CONDITIONS

- Quotation is subject to attached Flogistix "General Terms and Conditions For Sale of Goods".
- Estimated delivery for first unit is **34-38 Weeks** after receipt of order. Multiple units will be scheduled out according to material delivery and manufacturing load at time of order.
- Quoted price includes 8 hours of on-site commissioning assistance. Additional time will be billed Flogistix' standard field service rates.
- All quoted performance predications may vary with changes in expected conditions.
- Freight is F.O.B. Pampa, TX

Date:	February 9, 2023
Quote Number:	Q-19725
Customer:	Marathon Oil Company

By signing below, and providing a PO/AFE, all quoted terms and conditions are hereby accepted. Upon countersignature by an authorized Flogistix' representative, Flogistix may begin scheduling work and procurement of components for packaging.

Approved By (Customer Signature):

Print Name:

Date:

Approved By (Flogistix Representative):

Print Name:

Date:

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