



# **PROCESS AUTOMATION SYSTEMS COMPANY**

*Process Design Solutions for your  
Process Equipment Requirements*



**Chemical**



**Mining**



**Petrochemical**



**Power Generation**

## **PASCO**

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# **PASCO's** *goal is to provide our customers*

- Process System Design Services
- Highest Quality Process Equipment
- Maximum Efficiency
- Conservation of Energy
- Trouble Free Installation and Operation
- Compliance with Specifications

## **Process Design**

All equipment is designed by highly qualified staff using state of the art computer simulation programs. Safe and trouble free operation is assured through sound design.

## **Manufacturing**

Our permanent, full-time work force includes talented welders, pipe fitters, instrument and electrical technicians with decades of experience in fabricating oil and gas processing equipment. Our foremen and quality control managers are dedicated to manufacturing excellence and adherence to specifications.



## **PASCO**

*offers custom designed process services and equipment for the  
Petro Chemical, Chemical, Mining and Power Industries.*

# **PASCO** design solutions for your process and equipment needs

## **Separation Equipment**

PASCO's separators are engineered in many different types and configurations to fit the needs of your specific production. Regardless of volume, gravity, pressure, foaming, paraffin, hydrates, impurities, corrosion, etc., we will custom engineer and manufacture a reliable separator equal to the task.

Typical units include:

- Liquid-Gas
- Liquid-Liquid
- Metering Separator
- Solid-Gas V High Volume Gas Scrubbers
- Knockouts
- Coalescers

## **Heat Exchangers**

All types including:

- Shell and Tube
- Hairpin
- Air cooled
- Plate and Frame
- Finned Tank Heaters
- Replacement Tube Bundles
- Chillers
- Compressors

## **Terminal Loading Facilities**

- Loading arms
- Custom Transfer

## **Dehydration**

PASCO provides glycol dehydration systems in standard or custom designs. With custom designs, glycol purity of 99.95% can be achieved. Dependable field-proven components are used for maximum performance at minimum cost.

Typical units include:

- Glycol-Gas Dryers
- Dry Dessicant-Gas Dryers
- Liquid Dryers
- Air Dryers
- CO2 Dryers

## **Production Unit Systems**

Wellhead production units are completely integrated and pre-assembled.

Typical units include:

- Multi-Well Manifolds
- Pig Launchers & Receivers
- Heater Treaters
- Desalters
- Electrostatic Dehydrators

## **Sweetening Equipment**

Regardless of your acid gas removal problem, PASCO's broad range of design solutions can do the job. We offer units using MEA, DEA, MDEA, DGA, Sulfolane, Proprietary Amine, Iron Sponge. Skid mounted or large plant.

Typical units include:

- CO2 Removal
- H2S Removal
- COS Removal
- Mercaptans
- Sulfur Recovery
- Tail Gas Cleanup

## **Gas Filtration Equipment**

Designed to eliminate mist, fog, scale and dust particles less than two (2) microns in size.

Available in vertical or horizontal configurations. PASCO filters provide easy access for servicing the filter elements.

Typical units include:

- Filter Separator
- Gas-Dust Gas-Liquid
- Activated Carbon Filters
- Coalescers
- Desander

## **Indirect Heaters**

Typical units include:

- Water Bath
- Steam Bath
- Hot Oil Bath
- Salt Bath
- Steam Generator
- Propane Vaporizer

## **Direct Fired Convective Heaters**

Typical units include:

- Water Bath
- Steam Bath
- Hot Oil Bath
- Salt Bath
- Steam Generator
- Propane Vaporizer

## **Liquid Recovery**

These units recover saleable hydrocarbon liquids from gas streams while helping to eliminate condensation and two phase flow in pipelines. Custom designed and completely packaged. Typical units include:

- Low Temperature Separation
- Short Cycle Adsorption
- Oil Absorption
- Stabilizers
- Dew Point Control Units
- BTU Control Units

**PASCO**  
offers custom designed process equipment for the  
Petro Chemical, Chemical, Mining and Power Industries.



## **Direct Fired Convective Heaters**

PASCO convective direct fired heaters achieve up to 90% thermal efficiency with safe and reliable operation. Available with all instruments, piping and wiring pre-tested at the shop.



## **Indirect Heaters**

PASCO indirect heaters are engineered to provide maximum heating efficiency and reduced energy consumption. Up to 93% thermal efficiency through improved heater design. A complete safety package is available with each unit for years of safe unattended operation.



## **Dehydration Units**

Illustrated here is a typical dehydration unit having a capacity of 45,000 BBLIDAY





**Fuel Gas Conditioning Unit**



**Chemical Dosing Skid**



**Duplex Filter**



**Launcher/Receiver Systems**

## **Computer Design**

Every unit is computer designed for optimum efficiency and ease of operation. Specific consideration is given to use and maintenance and accessibility to all components.

## **Advanced Process Controls**

Units can be designed with computer control technology. These systems use full computing power to control the unit's operation and are designed from the ground up, with you and your operation in mind.

## **Packaged Instrument and Controls**

Units are supplied with instruments and controls for unattended operation. Programmable controllers can be offered to identify any allfunctions in the equipment operation. All controls are piped, wired, and tested prior to shipment. Electrical control systems are designed to meet recognized national codes.

## **Optional Equipment**

Optional equipment and instruments are available to meet each customer's needs. Equipment is designed for dependable, unattended operation. The equipment can be packaged for ease of installation with the system skid mounted and piping prefabricated.

# ***Custom Fabrication***

***Propane / Butane Mixing Station***



***Shell & Tube Heat Exchanger  
Tube Bundles***



***API 650 Tank***



***Filter Skid Assembly***



**Heavy Wall Pressure Vessel**



**Shell & Tube Heat Exchanger**



**Oil Treater, 1,500 BBL/day**



**Pressure Vessel**

## Capabilities

- CSA W59 and W47.1
- CENELEC
- ATEX
- CE
- NACE MR-01-75
- API
- ASME Code stamps "U", "S" and "R"
- ANSI B31.3 and B31.3 piping code
- Electrical code per NEC and API, RP500A for Class 1, Group D, Division 2
- Electrical equipment assembled in accordance with NEC, NEMA, CSA, NFPA standards

## Welding Procedures

- GTAW (Heliarc)
- SMA W (Stick)
- GMAW (Mig)
- SAW (Submerged Arc)
- FCAW (flux Tig)

## Instrumentation

- RTD
- Pressure Transmitters
- RADAR
- RF Capacitance
- Magnetic Flow Meters
- Variable Area Flow Meters
- Thermocouple
- Ultrasonic Level
- Point Measurement
- Mass Flow Meters
- Vortex Flow Meters
- Load Cell

## Control Automation

- Mod Bus
- Foundation Field Bus
- Profi Bus
- Allan Bradley
- Beijer Electronics
- PCC Programming





**PASCO** provides high quality process design system manufacturing, start up and trouble shooting for processing equipment.

Our design excellence is the foundation for high quality equipment and manufacturing while providing consistency dependability, reliability, with efficient on our economic equipment.



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