

CRESCENT PRODUCT RANGE

Product Description- Gas Treatment Units	
Gas & Processing Control	Gas Separators
	Knock Out Drums , Slug Catchers , Flash Tanks/Drums , Surge Drums , Scrubbers (Vane & Cyclone)
	Gas Filters
	Filter Separators/ Coalescers
	Gas Processing Units
	Gas Dehydration Units (TEG/MEG/EG) Complete with Regeneration and Vapor Recovery units with Online Analyzer and Chemical Injection Skids
	Adsorption Units
	Molecular Sieve Dehydration Units
	Mercury/ Mercaptan Removal Units
	Acid Gas Removal Units (H₂S /CO₂ Removal)
	Gas Sweetening Unit – Amine or with Specialty Chemicals with Regeneration Unit
	Membrane Units
	Gas Conditioning Units
Fuel Gas Conditioning Unit Complete with Filtration, Indirect Fired Heater, Metering, Pressure Regulation and final Filtration	
Vapor Recovery Unit Complete with Air Cooler (ACHE), Scrubber, Compression	
Gas to Liquids Process & Control	Liquid Recovery/Extraction Units (NGL Recovery)
	JT Units , Refrigeration Units , Turbo Expander Units, LNG Units , Debutanizers , De-Isobutanizers , De-Ethanizers, De-Propanizers
	Condensate Stabilization Units with Reboiler and Columns

Water Treatment Plant	
Water Treatment Plant	Waste water treatment
	MBR- Package plant, Reverse Osmosis plant, SBR Sewage plant , grey water plant ,Ultra filtration plant , industrial influent plant BFF Biological film filtration technology ,
	Sustainable plants
	Carbon capture , Blue and green hydrogen plant
	Mechanical treatment
	Coarse screens, Fine screens , Pump stations, Package intel work , Git removal
	Supplementary Product
	Secondary treatment (diffusers, aerators, scraper, mixer, scum removal) , Advanced treatment (ultra nano filtration, reverse osmosis, ultra fine screens
	Odor Control (bio filter, activated carbon filter, wet scrubber, bio-tricking filter)
Instrumentation & Control (online instrumentation, water quality, flow meter, dosing systems)	
Sludge treatment (screw , press , belt filter press. Thickener, centrifuge , sludge drying silo components , pumps)	

Product Description- Oil Treatment Units	
Liquid Processing and Control	Oil / Water Separation
	Degasser , Slug Catcher
	2 Phase Separator with Complete Skid
	3 Phase Separator with Complete Skid
	Oil Processing Units
	Heater Treater (in house design for Heater with Forced Draft / Natural Draft / Dual fired Burners)
	Dehydration Unit
	Desalter Unit (Single Stage or Two Stage) includes with BSW Analyzer
Crude Oil Stabilizers with RVP Analyzer , Crude Oil Export Pumping System	

Product Description – Produced Water/ Effluent Water Treatment Units

Produced Water Treatment	Produced Water Treatment for Onshore and Offshore units Complete with Degasser (Surge drum), Corrugated Plate Interceptor (Pressurized or Atmospheric CPI), Desander Hydrocyclone with Accumulator, Deoiler Hydrocyclones, Induced Gas Flootation, Compact Flotation Sour stripper, NutShell Filtration with Online Analyzer and Chemical Injection Skids
	Oily Water Treatment Complete with CPI and Pumping System with Analyzers
	Sour Water Stripper Column to remove H2S
	Final Polishing / Re Injection Treatment Complete with either Nutshell filtration, Media Filtration, Water Reinjection system.

Product Description – Thermal Unit

Thermal Controls	Indirect Fired heater (100% water bath or mixed with EG/TEG) Complete with fuel gas Train as per NFPA 87 with Forced draft or Natural Draft Burner and either processor based or Complete PLC based BMS Panel. Can also be provided with our in house developed low NOX / Noise Natural Draft burner
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Product Description – Additional In house supply with the Process Packages

Added Supply	Supply for Incinerator, Ground Flare System, Utility package (Nitrogen , Instrument Air), Heat Exchangers and Chemical Injection Unit for the Process Packages
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Product Description – After Sales

Parts and Services	Start up , Commissioning , 2 Years Spares, Capital Spares, Insurance Spares
	Start up and Commissioning Services
	Engineering Services with Process. Mechanical, Piping, E&I disciplines
	FEED Studies, Plant layout and Detail design, HAZOP, HAZID, SIL

Software Library and Utilization

Process Engineering	AspenTech HYSIS Process Simulation VMG SIM Process Simulation ProMAX Process Simulation
In House Developed Programs	TEGBAL Glycol Dehydration Mass & Heat Balance Process Design HTRI Heat Exchanger Simulation and Design KINEI GasTech Kineflux Convective Heater Process Design FIRETU U-Tube Firebox Process Design IPF Single Phase Fluid Calculations, including Pressure Drop, Velocity and Inside film coefficient ZPF Two Phase Fluid Calculations, including Pressure Drop, Velocity and Inside film coefficient THERMOX Thermal Oxidizer Sizing Calculation CREPSV PSV Sizing CREPWT Produced Water Treatment design software. CRECPI CPI Separator Sizing
Product Engineering	PVElite ASME Section VIII Code Calculations AutoCAD 2D CAD Design and Drafting Autodesk Inventor 3D CAD Design and Modeling CADWorks 3D CAD Design and Modeling PDMS/E3D 3D Plant Design and Modeling Caesar II Pipe Stress Design and Analysis ANSYS Finite Element Analysis StaadPro 3D Structural Design and Analysis TEKLA Structure Modelling and Detailing RAM Connection Structure Connection and Design
Project Tracking / Scheduling	MS Projects