



Orbijet, Inc. 15200 Middlebrook Drive, Suite E Houston, Texas 77058 USA

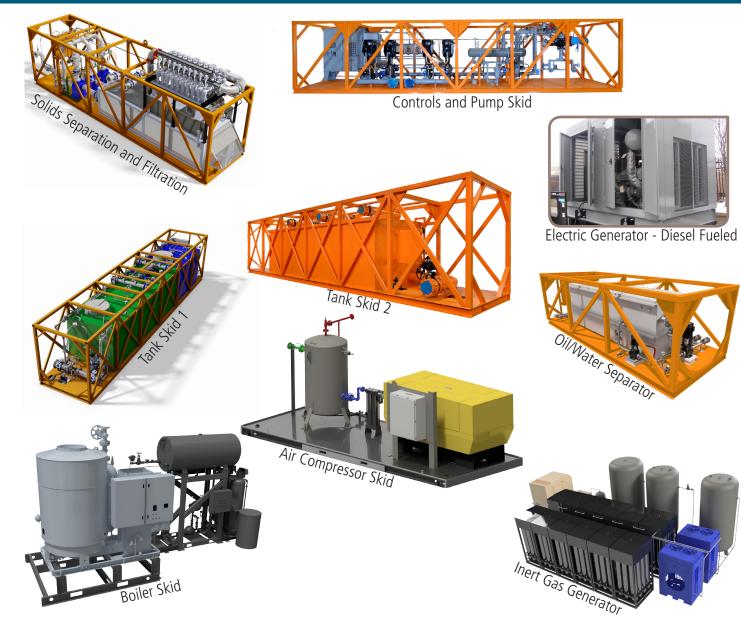
281.218.9400 Phone: 713.513.5884 Fax: info@orbijet.com Email:

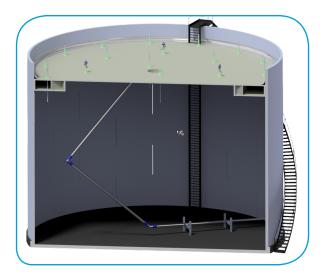
Website: www.orbijet.com

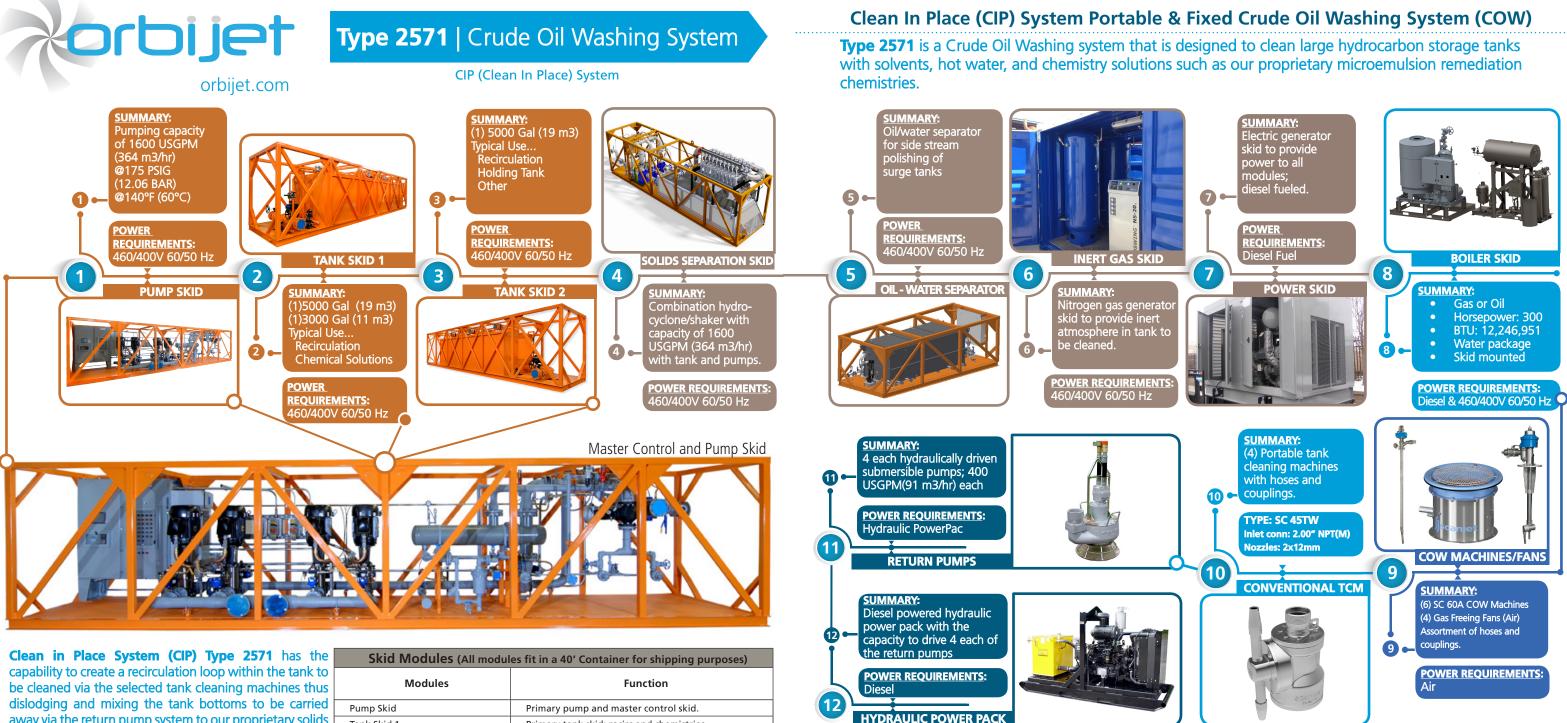
SC 60A Crude Oil Washing Machine Fits through the support legs for floating roof tanks.

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Crude Oil Washing System Type 2571







Component

Controls/Pump Skid

Tank Skid 1

Tank Skid 2

Separations Skid

Inert Gas Skid Power Skid

Boiler Skid

Oil/water Separator

Programmable TCM

Conventional TCM

Hydraulic Power Pack

Air Compressor Skid

Return Pumps

P&ID Drawing

Sundry

away via the return pump system to our proprietary solids separation system where the fluid stream is reduced of solids to less than 300 micron. The solids fraction is discharged to holding bins for further treatment or



disposal by others and the aqueous phase is returned to the tank skids for continued recirculation in the tank(s) to be cleaned until all solids are removed from the tank.

Skid Modules (All modules fit in a 40' Container for shipping purposes)		
Modules	Function	
Pump Skid	Primary pump and master control skid.	
Tank Skid 1	Primary tank skid; recirc and chemistries	
Tank Skid 2	Secondary tank skid; recirc and storage	
Solids Separation	Solids separation of cleaning fluid streams	
Oil/Water Separator	Oil/water separations skid	
Inert Gas Skid	Inerting of tanks being cleaned	
Power Skid	Diesel powered generator.	
Boiler Skid	Diesel powered; steam to heat exchanger	
Air Compressor Skid	Air supply to entire system.	

Our oil/water separation skid can be engaged for side stream polishing of the aqueous stream thus reducing the oil in water fraction for remediation of the fluid streams and recovery of the oil or microemulsion chemistries that can be used for a more complete recovery of the oil and remediation of the solids. The required heat source is supplied via our boiler skid and power is supplied via our power generation skid. Tanks are inerted with our Nitrogen Gas skid. Each skid frame is uniquely designed for portability on land and offshore use. The majority of the system is PLC controlled from the primary controls/pump skid and connection to other skids are via an Ethernet/IP Network with Remote I/O. Modules that are included with this system are listed in the Skid Modules Table above.

Summary Performance Characteristics of Products in this Full Package		
Summary Description	Reference/Part Number	
Pumping capacity of 1600 USGPM (364 m3/hr) @175 PSIG (12.06 BAR) @140°F (60°C); VFD	7521467	
5000 gallon tank; 3000 gallon chemical tank; automated valves where prudent	7521477	
5000 gallon tank; automated valves where prudent	7521494	
Combination hydrocyclone/shaker with capacity of 1600 USGPM (364 m3/hr) with tank	7521527	
Oil/water separator for side stream polishing of surge tanks	7521515	
Nitrogen inert gas skid to control LEL levels in tank to be cleaned	7521555	
Generator skid to provide power to all modules; diesel powered	7521560	
Boiler skid to provide steam to the pump skid heat exchanger; diesel powered	7521508	
6 each Single nozzle programmable type SC 60A Crude Oil Washing Machines	Pending	
4 each Portable tank cleaning machines type SC 45TW with capacity of 104 USGPM(23.5 m3/hr)	Pending	
4 each hydraulically driven submersible pumps; 400 USGPM(91 m3/hr) each	7521565	
Diesel powered hydraulic power pack with the capacity to drive 4 each of the return pumps	7521567	
Details drawing of all components, calculations, and flow paths.	2571-09-PID	
Assortment of supply/return hoses; cables for skid connections; junction boxes; etc.	7521564	
Diesel driven air compressor	7521572	