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**Arrow**  
TANK AND ENGINEERING CO.





# Arrow

TANK AND ENGINEERING CO.

650 North Emerson  
Cambridge, Minnesota 55008  
Nationwide (763) 689-3360

## Arrow...The Plate Fabrication and Engineering Experts.

The following pages present a few examples of Arrow's accomplishments in the water treatment, powder bulk, chemical, agricultural, power generation, industrial gases, and petroleum industries, as well as highly specialized custom fabrication projects such as stacks, columns (trayed and packed), and high pressure steam drums.

Since 1958, Arrow has been designing and manufacturing vessels and plate work to meet the exacting requirements of our customers. Our ASME certified techniques, absolute commitment to quality and on-time delivery assure customer satisfaction. We believe that each new sale begins a long and satisfied relationship.

We welcome your interest and will be happy to serve you on your next project.

Sincerely,

John Haskins,  
President



## Large Power Plant Ductwork, Conveyor Systems, Stacks, and Vessels.

The larger the project, the greater the challenge for Arrow.

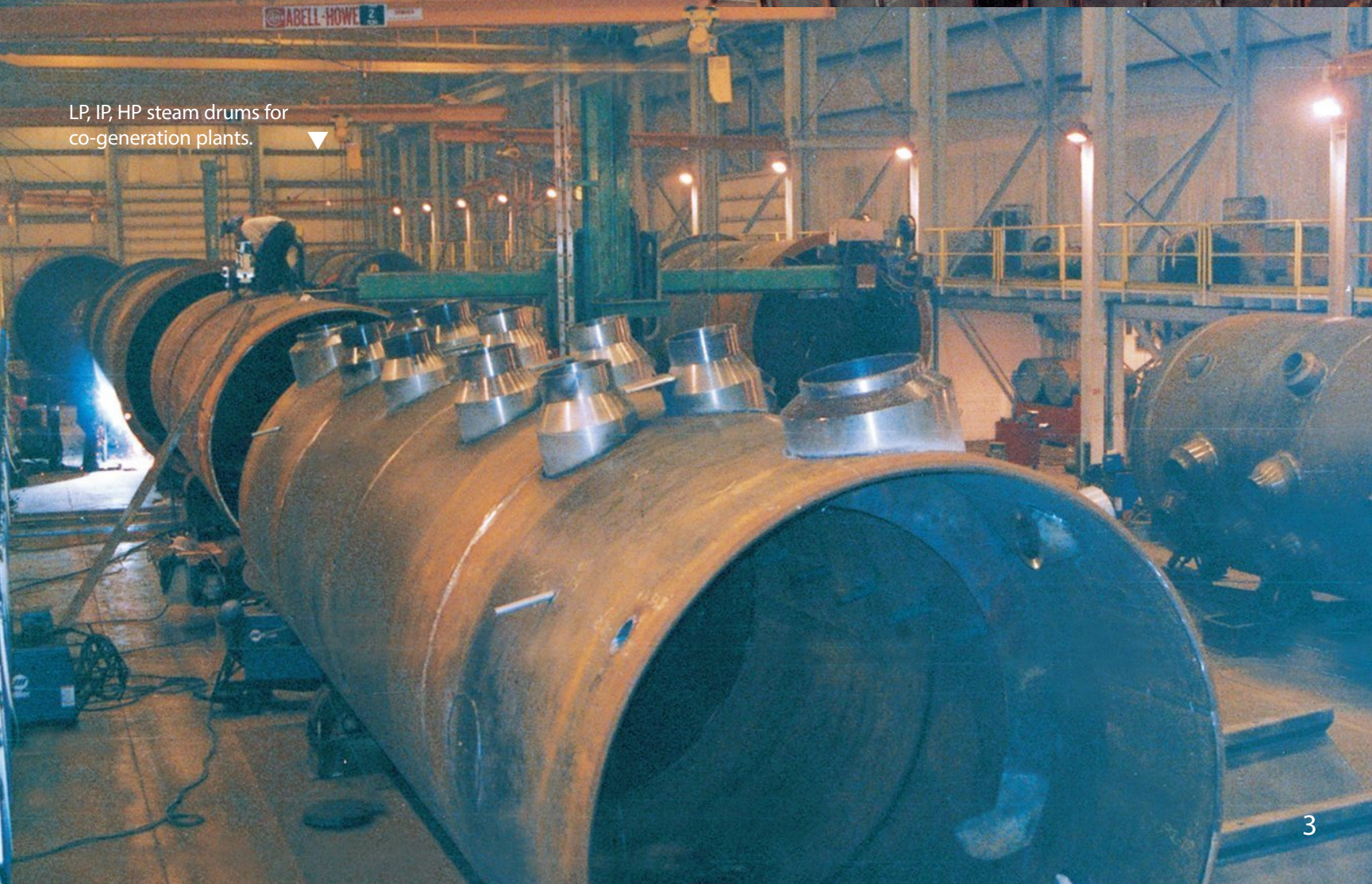
We have earned our reputation by solving critical problems, eliminating unnecessary detail, and delivering a satisfactory product in a timely and cost-effective manner.

Stack being installed in a Rochester, Minnesota power plant.

Vapor reclamation duct for a General Motors project is shown pre-assembled for inspection.



LP, IP, HP steam drums for co-generation plants.

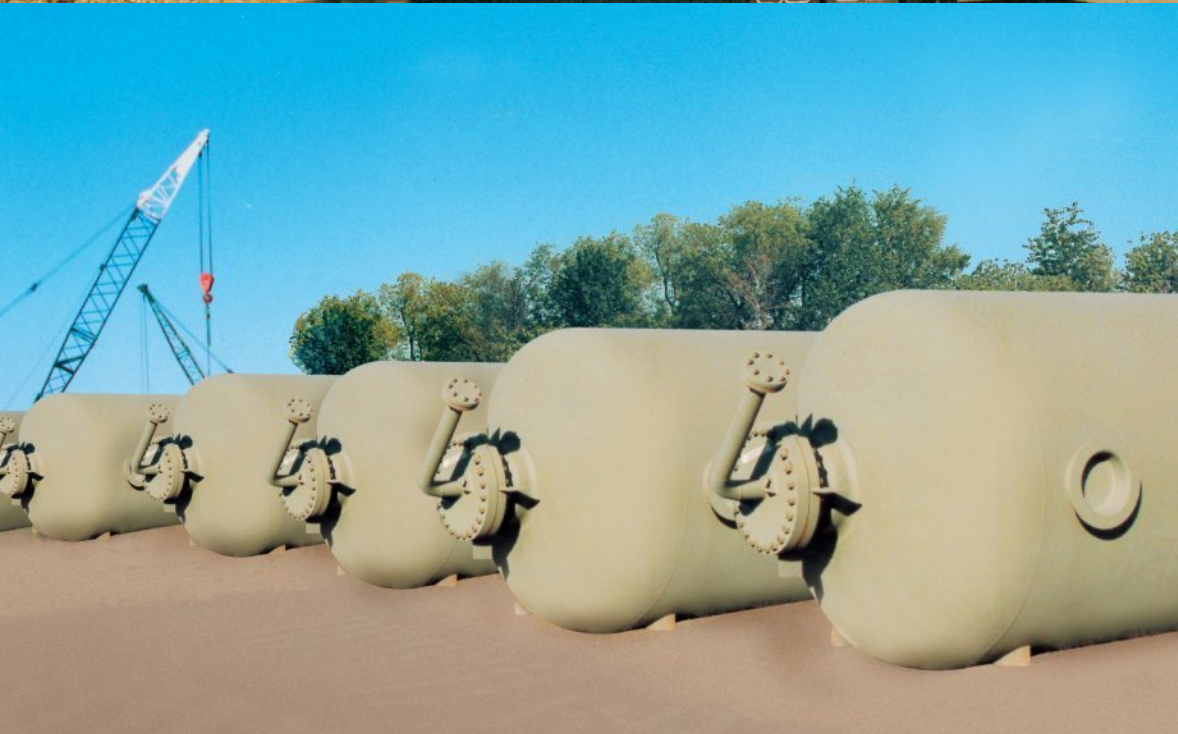
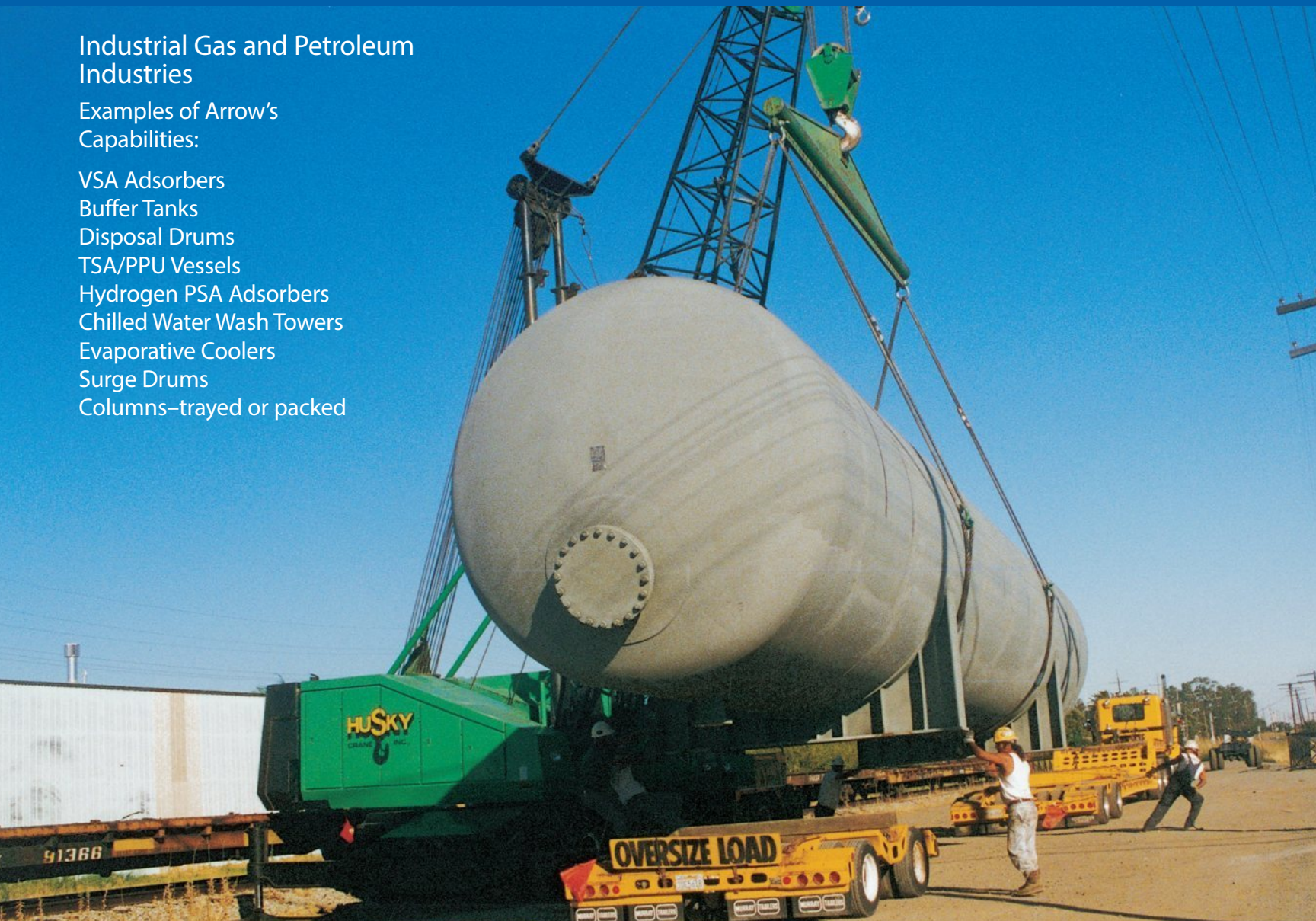




## Industrial Gas and Petroleum Industries

### Examples of Arrow's Capabilities:

VSA Adsorbers  
Buffer Tanks  
Disposal Drums  
TSA/PPU Vessels  
Hydrogen PSA Adsorbers  
Chilled Water Wash Towers  
Evaporative Coolers  
Surge Drums  
Columns—trayed or packed



▲ Horizontal Adsorber Vessel 12' diameter by 72' long being loaded for shipment to California.

▲ Five Hydrogen PSA vessels prepared for shipment to the Port of Houston, Texas for offshore delivery.



## Industrial Gas and Petroleum Industries



▲ FCC Stabilizer tower for the petroleum industry.  
12' diameter x 125' long, weighing 140 tons.

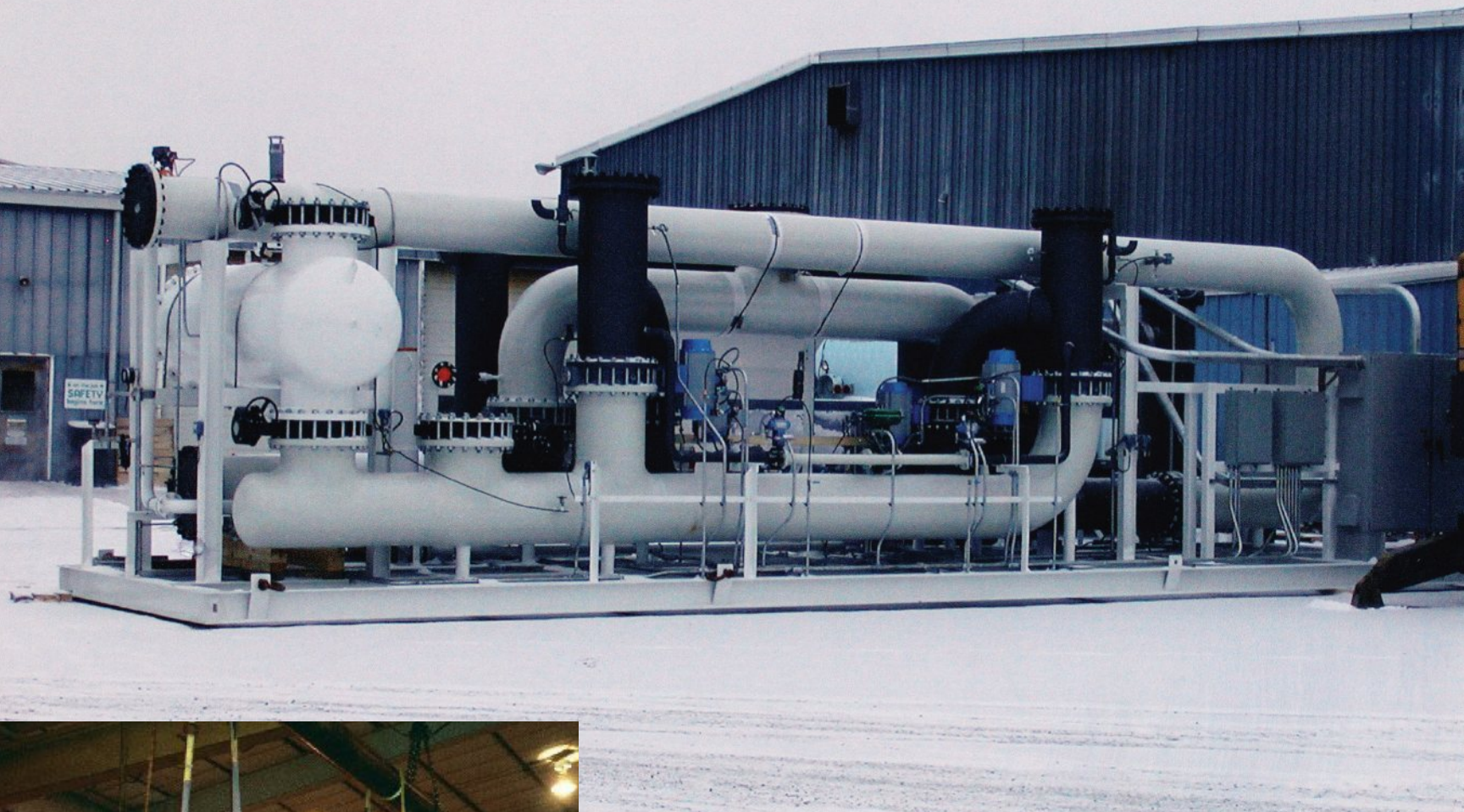
Vertical adsorber vessel ready  
for shipment to a gas plant. ▶



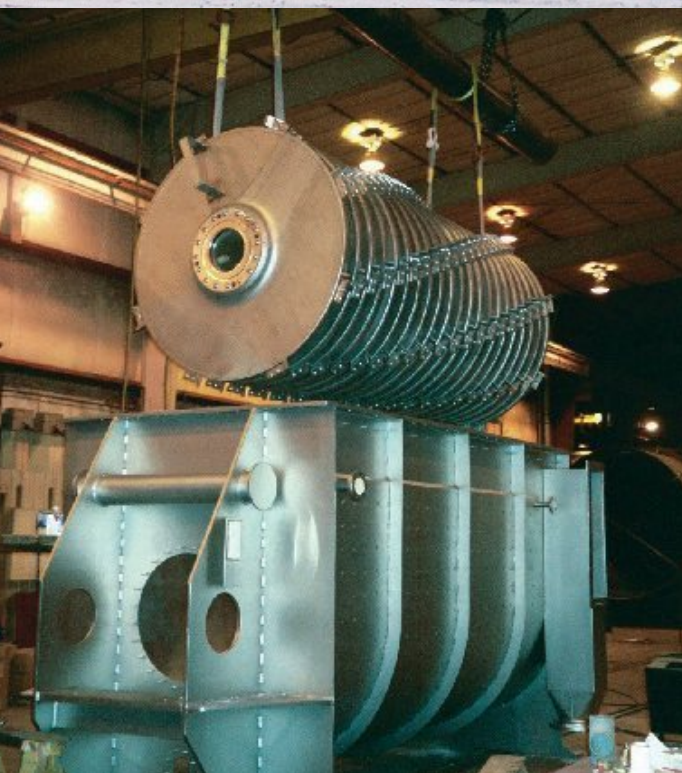
◀ Buffer Tank shipping to  
Houston, Texas area.







▲ Arrow can do all kinds of skid work large and small.



◀ Installing ASME Rotary Dryer into ASME dryer housing. Project included complex mechanical assembly.

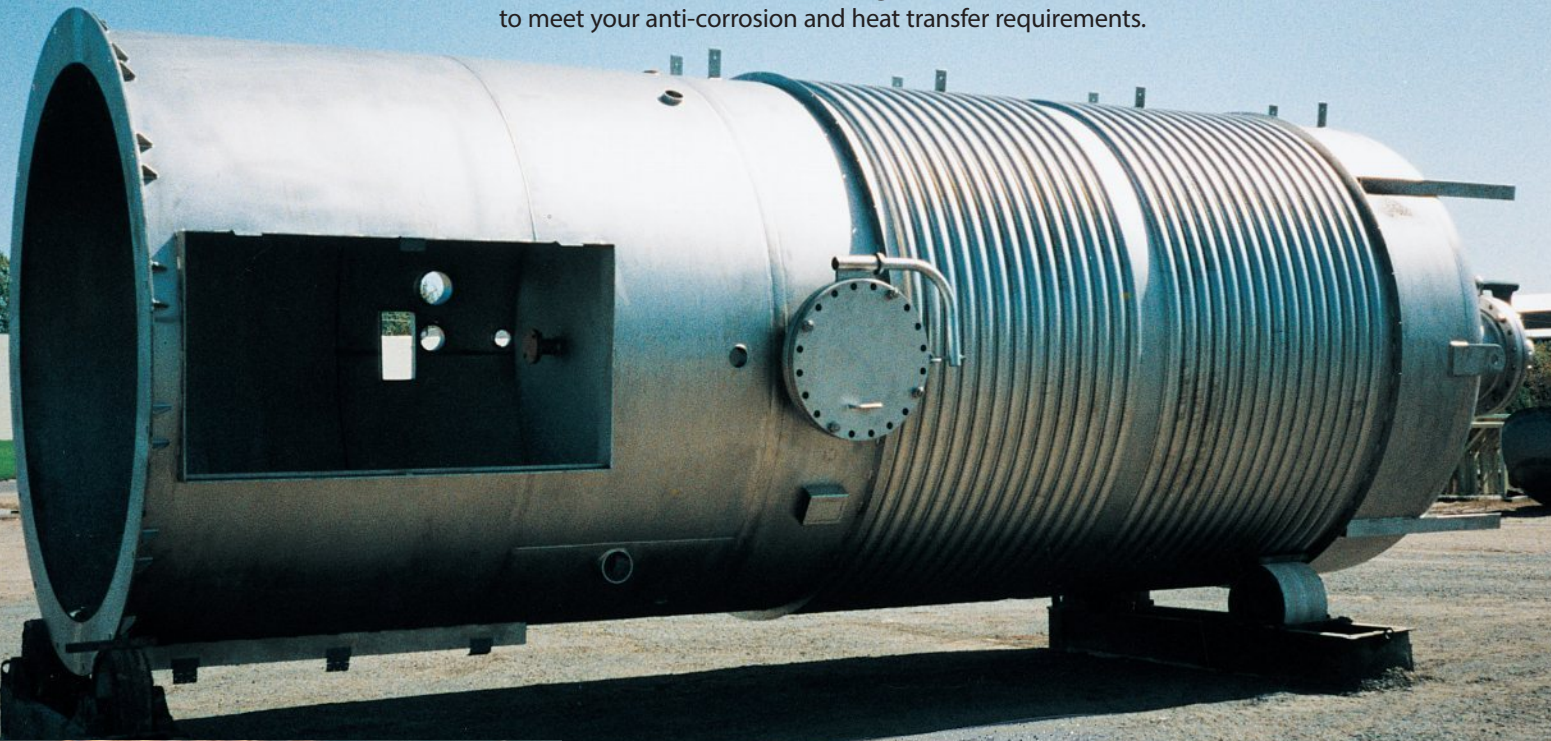
Trayed column loaded and ready for shipment. ▶





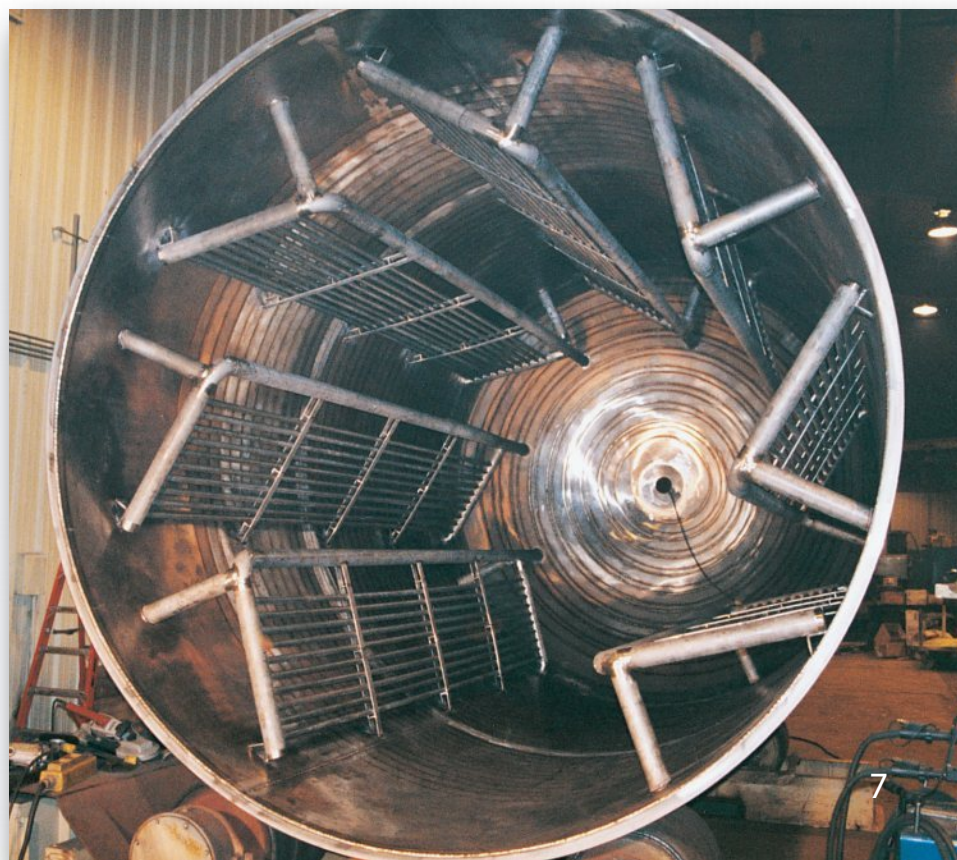
## Chemical Industry Half Pipe Coil Systems

When heat transfer is important, Arrow can meet your specific requirements, or suggest economical alternatives. Tanks can be produced in quantities of one to hundreds. Reactors over 10,000 gallons are fabricated from stainless steel to meet your anti-corrosion and heat transfer requirements.



- ▲ Smooth, continuous half pipe coil jacket attached to the bottom head provides uniform flow with minimum pressure drop.

- ▲ Arrow can quickly supply multiples of virtually any tank design and ship by road, rail or water to the most remote national or international locations.



Vessels in wide size ranges, with various pressure and vacuum ratings, can be fabricated with half pipe jackets and internal baffles to meet all heat transfer needs. ►



Arrow is a qualified fabricator meeting ASME, API, AISC, AWS, AISI and UL standards. Our 45 years of experience fabricating products for chemical storage and processing gives us exceptional qualifications for handling your projects.



Stainless Steel Clad I.D. Columns with Arrow's weld overlaid nozzels for use at a refinery.



Stainless steel reactor vessels built to rigid customer specifications and tolerances.

A transportation storage vessel complying with DOT specifications, ISO, and ASME codes is prepared for shipment.







Chemical Process Vessels up to 225 ton loading for stress relief at Arrow.



Fructose separator vessels being shipped for installation at a corn processing plant.



## Arrow Agriculture and Sugar Processing

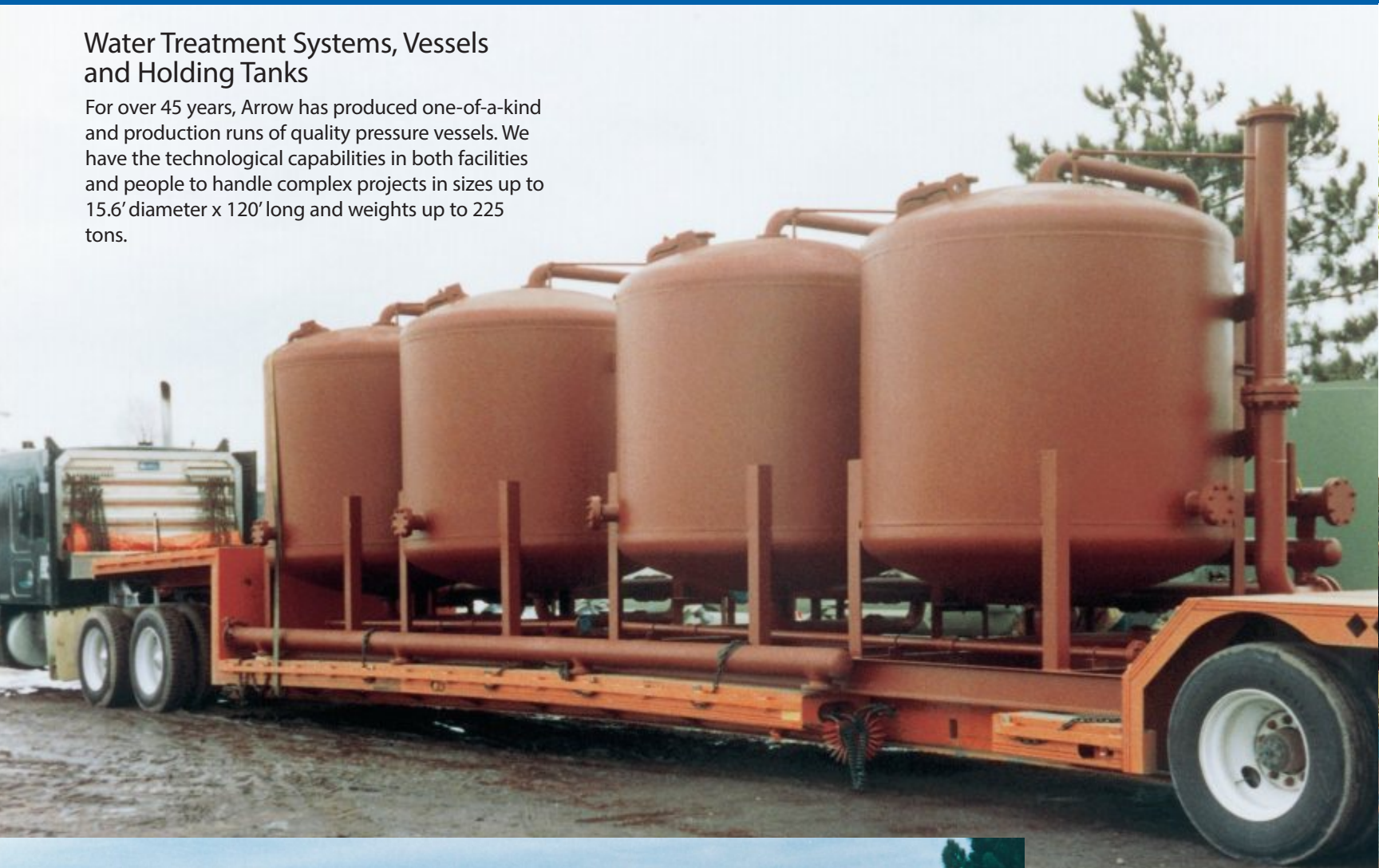
From its beginning in 1958, Arrow has been meeting the needs of the agriculture and sugar processing industries with custom vessels and tanks.

As these industries find new vitality to compete in world markets, we are providing much of the required storage and process equipment.



## Water Treatment Systems, Vessels and Holding Tanks

For over 45 years, Arrow has produced one-of-a-kind and production runs of quality pressure vessels. We have the technological capabilities in both facilities and people to handle complex projects in sizes up to 15.6' diameter x 120' long and weights up to 225 tons.



▲ 12 foot x 60 foot horizontal storage vessel for the water treatment industry.

Completed deaeration unit for rail shipment to the Port of Houston, Texas. ►



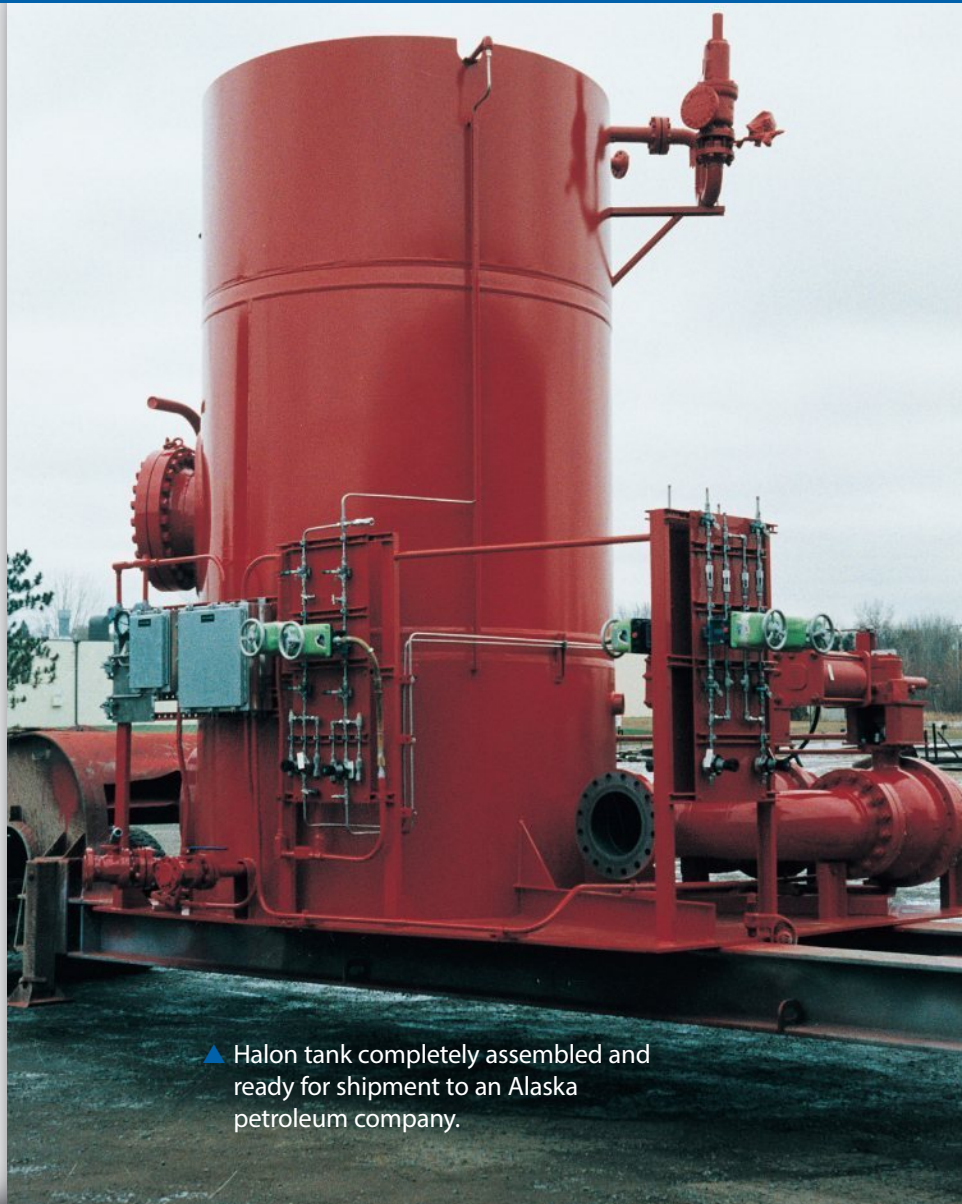


## Modular Tank Units, Piping and Skids

Arrow can be your one stop source for complete modular tank units, piping and skids. Cost savings can be substantial when our customers supply the valves, electrical boxes etc. to Arrow for complete fabrication, assembly, wiring, skid mounting, and final painting. Customer inspection then only occurs at one location saving time and money.



▲ Large vertical units are easily handled in Arrow's 134,000 square foot facility. ▶

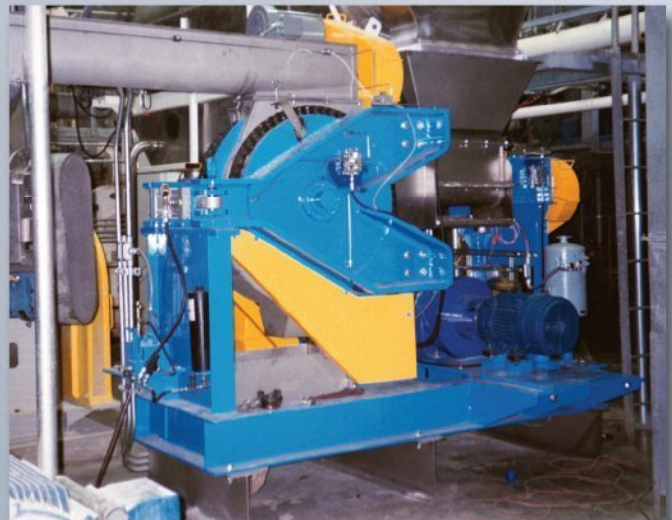
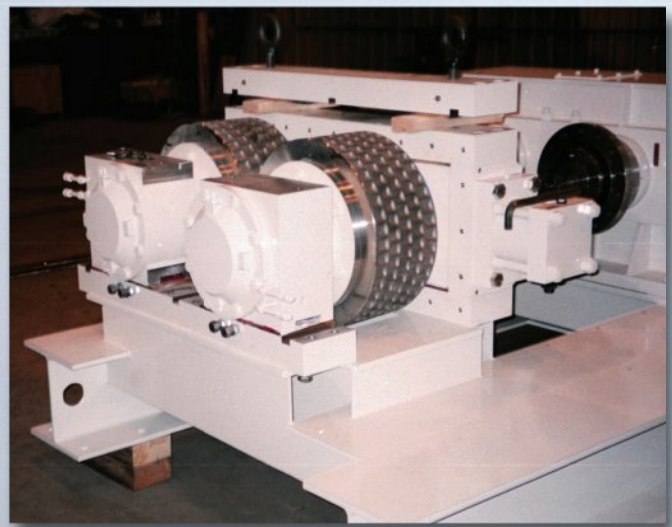


▲ Halon tank completely assembled and ready for shipment to an Alaska petroleum company.



▲ Series of four demineralizing systems mounted on skids. Entire systems including vessels, skids and piping were fabricated and assembled by Arrow.





Whether its a Rotary ASME Dryer, a Shredder or a Chopper, Arrow has expertise in mechanical assemblies. The equipment depicted here was manufactured and test run at our facility in Cambridge, MN. If you need a new mechanical assembly or weld overlay work to repair equipment like the compaction rolls shown above, we can do it.

# Arrow

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