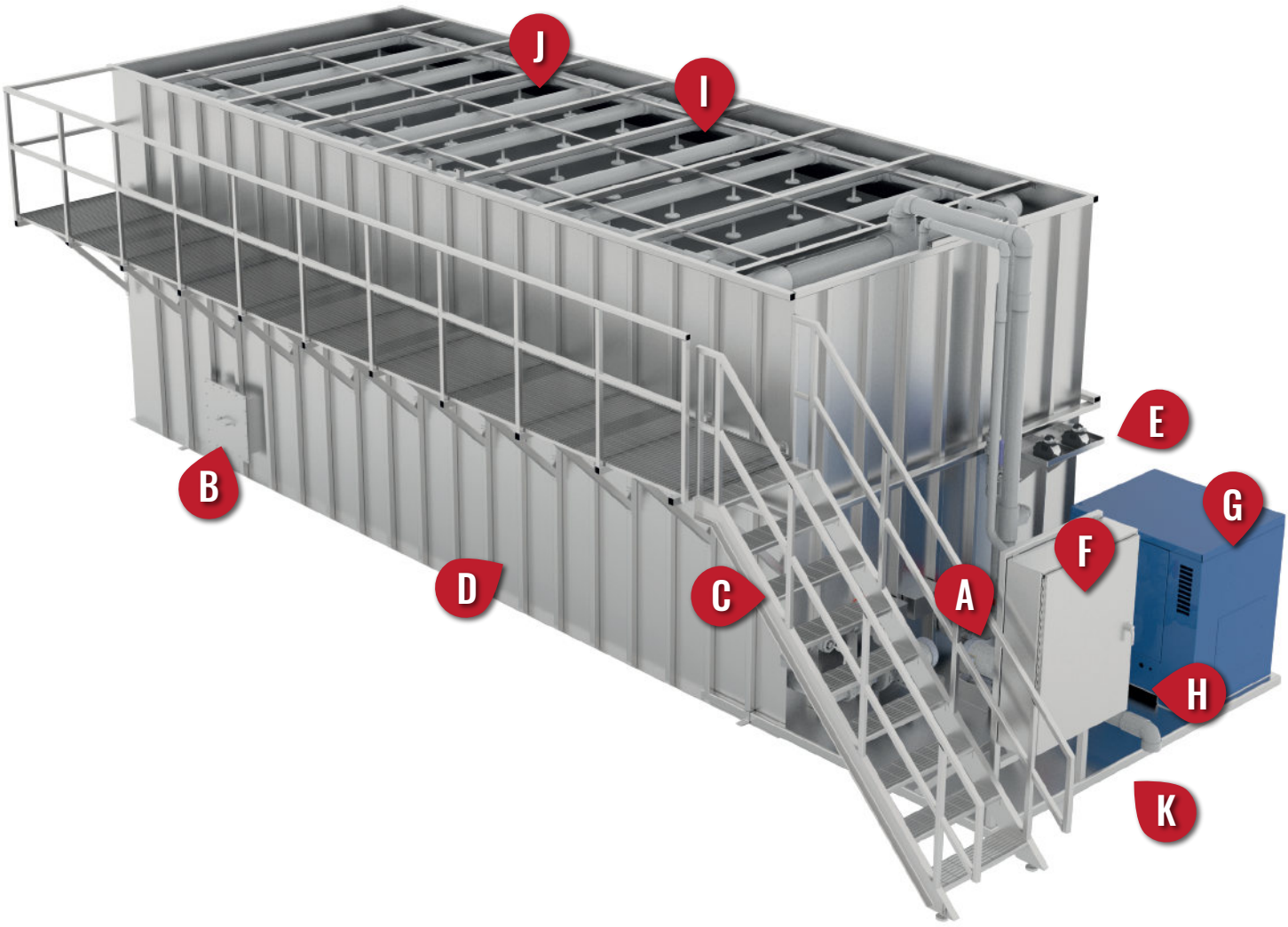
PRIMEPAC™



- **A:** Recirculation pump
- **B:** Access hatch
- **C:** Nonferrous stairs and platform(s)
- **D:** Corrosion-resistant 304 stainless steel tankage and components come standard
- **E:** Optional pH adjustment system
- **F:** Electrical panel and controls system are factory-installed and tested prior to shipping
- **G:** Semi-sound attenuated blowers
- **H:** All equipment is factory-installed and undergoes rigorous Factory Acceptance Testing (FAT) as a complete system prior to shipping
- **I:** Distribution header
- **J:** Crossflow media
- **K:** Equipment skid

Prior to delivery, clients will be given exact connection points for power, communication, influent and effluent.

SIGNIFICANT BOD REDUCTION IN A SMALL FOOTPRINT

PRODUCT DESCRIPTION

The PRIMEPAC™ package wastewater treatment plant utilizes the attached growth treatment process to reduce Biochemical Oxygen Demand (BOD) an average of 70%. This system is designed to treat process wastewater in an energy efficient manner by utilizing fixed film growth and growing naturally occurring anaerobic and aerobic bacteria on the same media.

Cloacina's PRIMEPAC is designed for clients that want to significantly reduce BOD and balance pH for pretreatment, reduce sewer surcharges or increase the capacity of an existing pond or treatment system without the capital expenditures or operating expenses associated with advanced treatment.

This system requires the least amount of operational oversight of any of Cloacina's wastewater treatment plants. It is easy to install, operate and maintain and in many cases, can be installed without a slab with an optional earth anchor kit. The PRIMEPAC comes standard with stainless steel tankage, equipment skids and stairs, aluminum catwalks and nonferrous piping. Every PRIMEPAC undergoes rigorous Factory Acceptance Testing (FAT), including wet testing, which significantly expedites plant start-up and commissioning. The system is factory-assembled and operational upon delivery. The PRIMEPAC can be easily expanded at a future date and is capable of reclaiming up to 100% of the treated effluent with the addition of one of Cloacina's MEMPAC™ membrane bioreactors.

TYPICAL INFLUENT PARAMETERS

CONSTITUENT	VALUE	UNITS	NOTES
Flow	500 - 100,000	GPD	
TSS	0 - 1,000	mg/L	Influent screening available
BOD5	0 - 20,000	mg/L	
pH	6.0 - 8.0		pH adjustment available
Temperature	55 - 75	·F	

TYPICAL EFFLUENT PARAMETERS

CONSTITUENT	VALUE	UNITS	NOTES
TSS	See options below		Optional screens available
BOD5	60 - 80% reduction		70% average reduction
pH	6.0 - 8.0		

TYPICAL APPLICATIONS

Sanitary sewer pretreatment, primary treatment prior to ponds or secondary treatment and Dissolved Air Flotation (DAF) effluent

OPTIONAL FEATURES

pH adjustment, influent screening, effluent screening, flow monitoring, Dissolved Oxygen (DO) monitoring, thermal insulation, submerged media, nutrient addition, odor control and buried or partially-buried installations