

# MECHANICAL PRODUCTS INC.

Fluid Handling & Steam Equipment  
1-855-MechProd

## Delta P Carver Packaged Pumping Systems

### Application Guide: James H. "Sloppy" Floyd Georgia State Building



The Georgia Building Authority needed a domestic water booster pumping system for the James H. "Sloppy" Floyd State Building to replace an existing system. They selected Newcomb & Boyd Consulting Engineers to redesign their system. Working closely with the engineer, Mechanical Products assisted with the specification and selection of a Delta P QuietPak packaged pumping system.

The owner was adamant that he wanted the best system built with the fewest maintenance issues. The QuietPak series from Delta P Carver was selected as it offers the most energy savings available combined with virtually no maintenance. The pump features include a seal-less pump design with a permanently lubricated motor. Seals are a common problem on domestic water pumps due to poor quality water supply from the municipality.



DELTA P Horizontal QuietPak Domestic Water Variable Speed Booster System



Service arms allow for easy pump inspection.  
Horizontal Configuration Shown / Vertical Available

The QuietPak series from Delta P Carver with all submersible seal-less all stainless steel pumps was selected as its pumps have the highest rise to shut-off curve characteristics. This allowed the system the most turndown (speed reduction) under a varying flow demand while still maintaining a constant 185 PSI discharge pressure. For every speed reduction the horsepower consumed is reduced by a cube factor. The pump system features all stainless steel frame and piping to provide 30 plus years of service integrity. The system is controlled by a PLC which communicates with each of the three (3) variable frequency drives (VFD's). Each VFD is mounted inside a filtered air cooled control panel to ensure the VFD's are protected from heat, dust, dirt, moisture or accidental damage. The panel features a "touch-safe" design which minimizes bare hand electrical shock hazards when the panel is open. A simple password protected user interface touchscreen makes for easy adjustment of user parameters, displays all operating conditions in real time and communicates with the Siemens BAS.

Delta P Systems was purchased by Carver Pump in 2011. The company is now known as Delta P Carver and backed by Carver which is a privately owned pump manufacturer specializing in special material pumps. Each Delta P Carver packaged pumping system is factory flow tested system and built with the following standard benefits and features:

- UL listed as a complete packaged pumping system and labeled QCZJ
- NSF ANSI certified components on potable water systems
- UL 508A Industrial Air Filtered Fan Cooled Control Cabinet
- All Stainless Steel Framing
- All Stainless Steel Piping
- PLC controlled all Variable Frequency Drive (VFD) System
- VFD's are enclosed inside cabinet to protect from Heat, Dust, Dirt, Moisture and Accidental Damage
- Touch-Safe electrical control cabinet to eliminate risks of bare hand electrical shock
- Suction and Discharge Transducer to compensate for sequencing when suction pressures vary
- No flow Shutdown guaranteed
- 24/7/365 service support

Delta P Carver can build the most complex system or simple system you want. Options include:

- End suction, vertical multi-stage or even an all submersible seal-less stainless pumps for maximum energy savings
- Dry Contacts for Building Automation to tie into
- ModBus communication of system operating parameters including speed, hertz, suction and discharge pressures, alarms, pump status etc.
- RTD or Web based wireless interface of system to monitor system parameters and status with remote alarm capability via text or email
- Air Conditioned Cabinetry for the most demanding environment applications
- Underground systems - simplified (no complicated vault)
- HAVC, Municipal, Process and Domestic Water Packaged Pumping Systems and Controls
- Space Saving HVAC Systems featuring all stainless seal-less virtually maintenance free pumps
- Custom material pumps



**Please contact us for additional information regarding this application or for any additional info at 1-855-MechProd. We can assist you with:**

Boilers & Water Heaters - Boiler Plant Controllers - Boiler Room Equipment - Cooling Towers & Fluid Coolers - Coil Hook-up Piping Packages - Control Valves Expansion Joints & Ball Joints - Filtration & Strainers - Flow Control & Balancing Valves - Flow Meters Heat Exchangers - Hot Water & Steam Generators - Packaged Pumping Systems - Pumps & Hydronic Accessories - Pure Water Systems - Pressure Independent Temperature Control Valves Rainwater Harvesting Systems - Storage Tanks - Temperature Control Units - Venting

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[www.mechanicalproducts.net](http://www.mechanicalproducts.net)

Phone: (678) 513-7514 Fax: (678) 513-7515



386.236.0950  
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