

CLASSIFYING TANKS

UP TO 12' X 48'



| MODEL | TANK WIDTH | TANK LENGTH | OVERFLOW CAPACITY (GPM) | | |
|---------|------------|-------------|-------------------------|-----------|-----------|
| | | | #100 MESH | #150 MESH | #200 MESH |
| 7008-20 | 8' | 20' | 2,300 | 1,200 | 700 |
| 7008-24 | 8' | 24' | 2,800 | 1,400 | 800 |
| 7008-28 | 8' | 28' | 3,200 | 1,600 | 900 |
| 7008-32 | 8' | 32' | 3,500 | 1,800 | 950 |
| 7010-24 | 10' | 24' | 3,500 | 1,800 | 950 |
| 7010-28 | 10' | 28' | 4,100 | 2,100 | 1,100 |
| 7010-32 | 10' | 32' | 4,700 | 2,400 | 1,250 |
| 7010-36 | 10' | 36' | 5,300 | 2,700 | 1,400 |
| 7010-40 | 10' | 40' | 5,900 | 3,000 | 1,550 |
| 7012-48 | 12' | 48' | 8,100 | 4,200 | 2,150 |

FEATURES/BENEFITS

TANK DESIGN (PATENT # 6,866,074 B1)



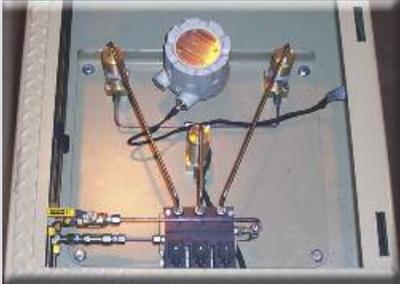
- ▶ The self-supporting tank design allows for flexibility in positioning of the dewatering equipment under the classifying tank.
- ▶ The lack of internal stiffeners reduces turbulence and greatly increases the settling efficiency resulting in;
 - ▶ More efficient gradation splits,
 - ▶ Improved material utilization,
 - ▶ More profit per ton processed.

DURABLE WEAR PARTS



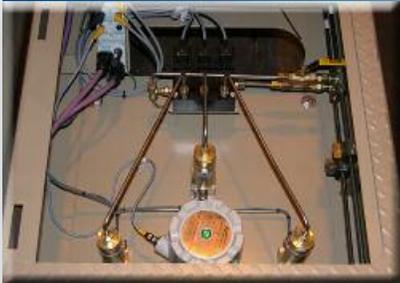
- ▶ Standard self-aligning urethane dart valves and standard "snap-in" urethane valve seats ensure uniform flow at the maximum rate, positive sealing and long service life.
- ▶ The unique design of the urethane discharge elbows allow maximum flow at the optimum angle reducing unwanted material spillage and reducing wear on the elbow and in the collecting flume.

BRIDGE/STATION DESIGN (MODEL #71 shown & #72)



- ▶ All hydraulic plumbing is stainless steel tubing with O-ring face seal fittings and a 3-year leak free guarantee for improved service life and virtually leak free operation.
- ▶ 24-volt DC operation provides enhanced monitoring/troubleshooting capabilities in real time while providing more reliable control and operation than conventional 120-volt AC systems.

EXCLUSIVE (PATENT PENDING) DESIGN (MODEL #72)



- ▶ Improves the reliability of the electrical, mechanical and hydraulic systems.
- ▶ Provides electrical, hydraulic and mechanical operational status of the system including fault indication.
- ▶ Improves the accuracy of the data gathered and recorded by the controller.
- ▶ Improves process efficiency and raw material utilization into the desired specification products.

EASE OF INSTALLATION



- ▶ All station wiring is in the form of cable/cords reducing downtime when components must be serviced or replaced.
- ▶ All KPI-JCI classifying tanks are pre-wired to a NEMA 4 enclosure which includes plug and receptacle type connections for connection to the controller ensuring trouble-free operation and ease of installation.

FUNCTION

Classification is the sizing of solid particles (typically minus 3/8" or minus #4 mesh) by means of settling. In classification, the settling is controlled so the fines or undersize material will flow away with a stream of water while the coarse or oversize material accumulates in a settled mass for re-blending into specification products.

MAXIMUM PROFITABILITY

Other solutions don't even come close to the maximum profitability of KPI-JCI Classifying Tanks and Systems. Our innovative design features also extends to the elimination of internal tank support members creating less turbulence and a more accurate settling of materials.



LOW-PROFILE SEMI-PORTABLE SKID MOUNTED PLANT CONFIGURATIONS

| MODEL | CLASSIFYING TANK SIZE | DEWATERING SCREW SIZE |
|-------------|-----------------------|-----------------------|
| 7008-32S44T | 8' x 32' | 44" TWIN |
| 7010-32S44T | 10' x 32' | 44" TWIN |
| 7010-36S44T | 10' x 36' | 44" TWIN |
| 7010-40S44T | 10' x 40' | 44" TWIN |
| 7010-40S54T | 10' x 40' | 54" TWIN |
| 7012-48S54T | 12' x 48' | 54" TWIN |



PORTABLE PLANT CONFIGURATIONS

| MODEL | CLASSIFYING TANK SIZE | DEWATERING SCREW SIZE |
|-------------|-----------------------|-----------------------|
| 7008-32P44T | 8' x 32' | 44" TWIN |
| 7010-40P44T | 10' x 40' | 44" TWIN |

CLASSIFYING TANK CONTROLLERS



FEATURES/BENEFITS

USER FRIENDLY



- ▶ **Windows based programming ensures that the Spec-Select™ controllers are the most user friendly controllers on the market.**
- ▶ **The standard Dell PC HMI (human-machine interface) includes the monitor, cpu, keyboard and optical mouse.**
- ▶ **An optional industrial PC HMI housed in a NEMA 4 enclosure is available for outdoor installations.**

FLEXIBILITY



- ▶ **Changing recipes or switching between the Spec-Select™ I and Spec-Select™ II modes of operation is as simple as a click of the mouse allowing the operator to control the classifying tank in the most efficient manner possible.**
- ▶ **The Spec-Select™ series of classifying tank controllers are easily retro-fitted to competitive classifying tanks.**

EFFICIENCY



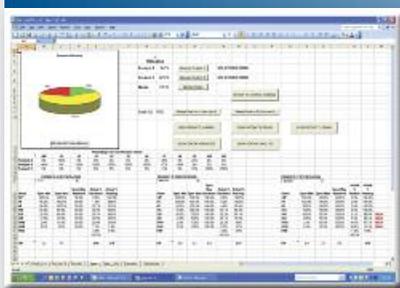
- ▶ **Unlimited storage of product recipes, station gradation analysis, etc. ensures that the operator has all of the necessary information to make informed decisions prior to making operational adjustments.**
- ▶ **Alarm summary, control and history screens in the Model #72 Spec-Select™ WBSM controller allow the user to monitor the operational parameters of the classifying tank.**

ON-LINE SUPPORT



- ▶ **On-line Operation and Maintenance Manuals, Parts Manuals and electrical drawings eliminate the need for paper copies and are accessible at any time the HMI is powered up.**
- ▶ **An on-line troubleshooting guide is also available allowing the operator to quickly identify and remedy problems reducing downtime and increasing profits.**

MULTI-TASKING CAPABILITIES



- ▶ **The HMI computers are capable of running other software programs such as Microsoft Word, Microsoft Excel, etc. while simultaneously operating the classifying tank.**
- ▶ **Remote monitoring, troubleshooting and/or control is also available with an internet connection providing maximum flexibility.**

FUNCTION

KPI-JCI Spec-Select™ controllers are utilized in conjunction with a classifying tank to control the blending of various sand fractions into one or more specification product plus an excess product. Spec-Select™ controllers are also a valuable source of information when troubleshooting or simply monitoring the activity occurring within a classifying tank.

MAXIMUM CONTROL

KPI-JCI features the most advanced controlling systems on the market, assuring you of accurate blending to meet your specification requirements 24/7.

For conventional classifying tanks there are two modes of control...

The Spec-Select™ I mode is the simplest method to operate. It is an independent control of each station by a percentage method to determine the amount of material discharged to each of the three product flumes at each station.

The Spec-Select™ II mode of operation is a dependent method utilizing minimum and maximum timer settings at each station to control material discharges and ensure product specifications are consistent.

The Spec-Select™ WB & WBSM windows based controllers are the most user-friendly and efficient control systems available. These controllers take both the Select™ I and The Spec-Select™ II control programs and presents them in a windows format for operation in either mode with just a "click" of a button.

The standard HMI (human-machine interface) or the optional industrial HMI (for outdoor installations) make it easy to monitor the entire tank functions and at the same time simplifies operational adjustments. No other controller package offers this degree of flexibility.