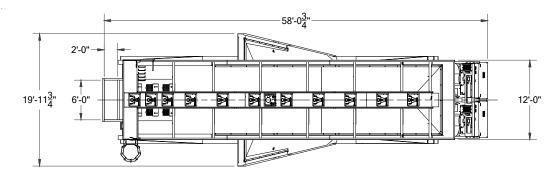
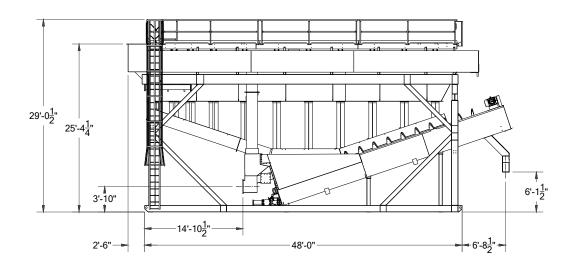
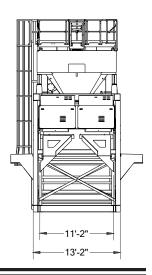


SERIES 7000 CLASSIFYING TANK Model 7112-48S54T Spec Sheet







MODEL 7112-48 CLASSIFYING TANK

MAIN TANK & COLLECTING FLUME

- Main tank 5/16" (sides, ends, overflow launder & feed box) and 3/8" (bottom plate) welded plate steel construction
- Integral feed box with 1/4" AR curved liner and nominal
 2' x 6' feed opening
- 80' of adjustable weir boards
- Integral overflow launder with dual discharge outlets
- Ladder rungs located near the feed end of the tank for internal tank access
- Self-support tank design with external stiffeners only no internal stiffeners
- Three-cell collecting flume 3/16" welded plate construction (unlined)

WALKWAY & MECHANISM SUPPORT

- 24" wide diamond deck walkway across the feed end and down the center of the tank
- 1-1/2" O.D. posts, top and intermediate handrails
- 4" toeboards
- Removable/hinged door sections at each station
- Walkway support structure also houses and supports the electric/hydraulic operating mechanism

VALVES, VALVE SEATS, DOWNPIPES & DISCHARGE ELBOWS

- Self-aligning urethane dart valves
- "Snap-in" urethane valve seats
- 6" schedule 40 UV rated PVC downpipes
- Urethane discharge elbows with rectangular discharge

OPERATING MECHANISM

- 3 HP electric/hydraulic power pack with nominal 3 micron filtration
- 750-psi (adjustable to 1,000-psi) hydraulic system
- 10-gal. hydraulic reservoir
- Accumulator
- Eleven (11) settling stations each including:
 - * One (1) 24-volt DC adjustable height sensing paddle assembly
 - * Three (3) discharge valves with adjustable down rods operated by hydraulic cylinders
 - * Hydraulic manifold block with cartridge valves and 24-volt DC coils
 - * Individual ball and check valves
 - * Stainless steel hydraulic plumbing with o-ring face seal fittings

Operating Mechanism continued on next page

OPERATING MECHANISM

- All stations prewired to a bridge mounted NEMA 4 junction box which also houses the PLC (programmable logic controller)
- All wiring in the form of "plug and receptacle" type cords
- Controller: Standard Dell PC HMI (human-machine-interface) including CPU, monitor, keyboard, optical mouse and Windows™ based programming. An optional industrial PC HMI with touch screen housed in a NEMA 4 enclosure is available for outdoor installations

Note: See Model #7112-48 specification sheet for additional information

MODEL #5054-34T DEWATERING SCREW:

MAIN TANK

- 1/4" (sides & bottom) and 3/8" (rear end plate) welded plate steel construction
- Curved bottom with integral rising current manifold (4" dia. inlets)
- Large undisturbed pool area
- 31' of adjustable weir boards
- 1-1/2" chase water line connection
- Integral overflow flume

SPIRAL ASSEMBLY

- Spiral pipe heavy wall 18" dia.
- Double pitch, solid flight spiral (one right hand, one left hand)
- Standard AR steel inner wear shoes
- Standard urethane outer wear shoes (cast Ni-Hard outer wear shoes are optional)
- Greaseable, externally mounted Dodge Imperial E tail end flange bearing
- Greaseable Dodge Type E pillow block head end bearing
- Lower end seal chrome plated stainless steel wear sleeve, water tight bellows type rubber seal and secondary grease seal

DRIVE ASSEMBLY (one drive assembly per spiral)

- High efficiency v-belt drive assembly
- 30 HP TEFC motor
- Dodge TA-II double reduction shaft mount reducer

DISCHARGE CHUTES

 Independent/reversible tapered discharge chutes set at 45° angle to grade

RISING CURRENT ACCESSORIES

 Externally mounted manifold with 4" butterfly flow control valve, 4" swing check valve, 0-100 psi pressure gauge and 1" gate valve and plumbing to the chase water connection

Note: See Model #5054-34T specifications sheet for additional information

PLANT

STRUCTURAL SUPPORT

- 12" wide flange skid runners
 - Classifying Tank 8" wide flange structural columns with horizontal and vertical bracing
- Dewatering Screw 6" wide flange structural columns with horizontal and vertical bracing
- Ladder access to the bridge of the classifying tank (stair access is optional)

• PHYSICAL/OPERATING CHARACTERISTICS

- Feed Material Size minus 3/8"
- Capacity TPH dependent on water requirements for proper feed material dilution and desired material retention
- Water Requirements up to 8,100 gpm
- Operational Dimensions 58'3" L x 20' W x 29'1" H
- Loads Approx. Dead Load = 117,600 lbs.
 Approx. Live Load = 356,500 lbs.

OPTIONAL EQUIPMENT

- Three-cell rising current classifier (includes external manifold, individual flow control valves and internal baffling at the first three stations within the classifying tank)
- 8" flanged, pressure reducing/check valve
- Recirculating pump
- AR or urethane liners for the three-cell collecting flume
- Model #7212-48S54T: KPI-JCI exclusive system monitoring components that monitor the mechanical, hydraulic and electrical functions of the classifying tank and alert the operator, both locally and remotely, of potentially failed components and/or operational conditions that are outside the normal operating parameters.

NOTE: Specifications are subject to change without notice.

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