KBP SRP-2K SYSTEM
KBP SRP-2K SYSTEM / Steamed Rice Plant

- Capacity: Steamed rice 2,000ea/hour/set
- Power consumption: abt 200KWH(60Hz), abt 250KWH(50Hz)
- Main material: SUS304(Polished inside of the chamber)
- Heat transfer: Steam of the boiler
- Production Category: Steamed Rice (White Rice & mixed grains with resin- container, etc)
- Expiration date: Room temperature 8~12month(nitrogen gas flush packaging, EVOH film use)
- Price: Total solution about KRW 5,000,000,000/set (Attached Supply Scope)
### Solution & Service

Manufacturing Technology • Facility • Construction Consulting • Manufacturing Control Program

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### Future for SRP-2K System-See Program

<table>
<thead>
<tr>
<th>Safety</th>
<th>Cost-Efficiency</th>
<th>Easy of Use</th>
</tr>
</thead>
<tbody>
<tr>
<td>• HACCP Level Design</td>
<td>• Minimizing Energy Consumption</td>
<td>• Central Control Operation</td>
</tr>
<tr>
<td>• FEM Analysis for the Chamber</td>
<td>• Minimizing Operating Employees</td>
<td>• Easy to Operate</td>
</tr>
<tr>
<td>• Clean Utility System</td>
<td>• Various Production</td>
<td>• Convenient Maintenance</td>
</tr>
</tbody>
</table>
KBP SRP-2K SYSTEM / Outside View #1

Rice Feeder
Vessel Cleaner
Inspection & Re-feeder
Vessel Feeder
Main Chamber
Curing & Cooling

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### KBP SRP-2K SYSTEM / LINE UP

<table>
<thead>
<tr>
<th></th>
<th>Batch-1</th>
<th>Batch-2</th>
<th>Batch-3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Working Hour</strong></td>
<td>8Hour</td>
<td>8Hour</td>
<td>8Hour</td>
</tr>
<tr>
<td><strong>Product (Steamed rice)</strong></td>
<td>210g</td>
<td>210g</td>
<td>210g</td>
</tr>
<tr>
<td><strong>Capacity</strong></td>
<td>2,000ea/Hour</td>
<td>4,000ea/Hour</td>
<td>6,000ea/Hour</td>
</tr>
<tr>
<td><strong>Operation</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Main Operator</td>
<td>1Man</td>
<td>1Man</td>
<td>1Man</td>
</tr>
<tr>
<td>Sub Operator</td>
<td>1Man</td>
<td>2Man</td>
<td>3Man</td>
</tr>
<tr>
<td><strong>Working</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pretreatment</td>
<td>1Man</td>
<td>2Man</td>
<td>2Man</td>
</tr>
<tr>
<td>Packing (manual, not automatic)</td>
<td>6Man</td>
<td>12Man</td>
<td>18Man</td>
</tr>
<tr>
<td>Maintenance Engineer (Electrical &amp; Machine)</td>
<td>2Man</td>
<td>2Man</td>
<td>2Man</td>
</tr>
<tr>
<td><strong>Utility</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Light oil</td>
<td>150Liter</td>
<td>300Liter</td>
<td>450Liter</td>
</tr>
<tr>
<td>Electric power</td>
<td>1,500kwa</td>
<td>2,900kwa</td>
<td>4,300kwa</td>
</tr>
<tr>
<td>Water</td>
<td>2,000kg</td>
<td>2,000kg</td>
<td>2,000kg</td>
</tr>
</tbody>
</table>

* *The mentioned worker is reference only.*

* *Note: The above values are changeable subject to the site conditions.*
KBP SRP-2K SYSTEM / Batch-1

* The above values are changeable subject to the site conditions.
KBP SRP-2K SYSTEM / Batch-2

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SUPPLY SCOPE / Manufacturing Equipments

Pretreatment Equipment
- Hopper & bucket elevator
- Silo for weighing
- Metal separator
- Stone separator
- Bucket elevator for rice washing machine
- Rice washing machine
- Dryer & exhaust duct for the dryer
- Bucket elevator for the vibrating separator
- Vibrating separator
- Bucket conveyer
- Silo for washed rice
- Bucket conveyer to supply washed rice
- Local control panel

Feeder for Washed Rice & Resin-Container
- Feeder for washed rice
- Supplying & buffering equipment for resin-container
- Inspection & re-supply equipment for resin-container
- Remover to foreign matter
- 1st water feeder
- 2nd water feeder

Pretreatment Equipment
- Pressure chambers
- Automatic gate : 6sets
- Process piping
  (Steam, compressed air, CIP Drain & etc.)
- Transferring equipment in the chamber
- Insulation panel for the main chamber
- Local control panel

Return-Conveyer system
- Return conveyer(7sets)
- Automatic diverter (4sets)
- Run & Stop equipment
- Conveyor cover & drain pan
- Piping (Compressed air, Drain)
- Hot air supply unit (2sets)
- Local control panel

Sealing Equipment
- Push-up unit for steamed rice
- Conveyer for push-up unit
- Line-up unit to input to the sealing machine
- Sealing machine
- Enclose
- Push-out conveyer
- Direction convertor
- Conveyer for curing & cooling (3sets)
- Local control panel

Curing & cooling equipment
- Conveyer for push in & out (2sets)
- Curing & cooling chamber
- Heating control equipment
- Cooling control equipment
- Enclose
- Local control panel
SUPPLY SCOPE / Utility Equipments

Supply of Water
- Filtering system of water
- RO-System
- Micro-filtering system
- Pump & Piping
- CIP System & Piping
* Note: RO-system is to generate water for the boiler

Steam equipment
- Steam boiler
- Condensate water tank
- Steam header
- Micro-filtering system
- Piping

Compressed Air & N2 Gas
- Oil free compressor
- Air dryer
- After cooler
- Micro-filtering system
- Compressed air tank
- N2 generator
- N2 tank

Control system
- Water level control of water tank
- Steam supply control
- Compressed air & N2 gas control
- CIP(Cleaning in place) control
SUPPLY SCOPE / Others

**Packing & Transportation**
- Factory packing
- In-land transportation (FOB BUSAN port)
- Supervisor round-trip airfare
- Supervisor dispatch

**Documents & Try out**
- Packing list
- Operating manual
- Maintenance manual
- Trial run (10 days)

**Utility**
- Electric work (distribution panel, main power etc.)
- 1st water supply work
- Fuel (Oil or Gas) tank & supply work
- Trench for drain
- Air circulation system

**Architecture**
- Factory design
- Construction work
- Partition work in the factory

**Transportation, Installation & Trial Run**
- Transportation from local port to the factory
- Un-packing
- Installation
- Machinery for installation
- Safety storage of all equipment
- Supervisor’s accommodation & commute car