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2000B/H Juice Production Line

Part One: Water Treatment

RO Water Purification System, Model: RO1000J (2000L/H)

1. Design Basis

1.1 Produced water's application: Bottle drinking water

1.2 The capacity of produced water: 2000L /H

1.3 System Configuration: Pretreatment + One Stage Reverse Osmosis Desalination System.

1.4 Designed recovery: 50-65%.

1.5 Rejection rate: $\geq 97\%$

1.6 Voltage: 3 phases, 380V, 50Hz; Power: 5 KW (Can be customized at your country's voltage, please tell us about it when ordering)

2. Working Process:

Water Source → Booster Pump → Quartz Sand Filter → Activated Carbon Filter → Precise Filter → High Pressure Pump → RO Membrane → Pure Water → Filling Machine

↑ Ozone Generator

↑ UV Sterilizer

3. Main Components of The System

Basic Configuration	Item	Description
Pretreatment part	Feed pump	CNP CDL4-40
	Sand filter	Dia 500*1900 (filter 350kg) SUS304
	Active Carbon filter	Dia 500*1900 (filter 10kg) SUS304
	Micron filter	20" X 5 micron filter
RO Part	Pressure pump	CNP CDL4-190
	RO membrane	FILMTEC BW30-4040 x 8pcs
	Membrane vessel	4080(2m)stainless steel VESSEL 4 SETS
	Pressure controller	P6E
Piping and controlling valve	Piping and valves	PVC-U piping & Valves
	Control system & Indicator	Water level control, Pump protecting, Automatic electric valve control
Other fittings of machine	Pressure gage	4 sets
	Conductivity table	CCT3320 X 2sets
	Main frame	Stainless steel 1set
	solenoid valve	DN20 1set
	Pipeline flow meter	14GMP 2sets



<i>Ozone System</i>	<i>OZ-5G</i>	
<i>Ultraviolet rays</i>	<i>FS-20</i>	
<i>Water Tank</i>	<i>SS304 3000L raw water tank + 2000L pure water tank</i>	

Pictures:



Part Two: Extracting & Mixing Process:



1. Production Process & Related Machineries:

1. Production Process & Related Machineries:

Raw Materials→Manual Washing→Fruit Crushing & Beating Machine→

Pump→Plate Heat Exchanger

Screw Pump→Duplex Filtering Unit→Cooling & Heating Tank (2sets) →Beverage Pump

→Temporary Storage Tank→Homogenizer→Beverage Pump→Duplex Filtering Unit→Ultra High Temperature Sterilizer → Finish Fruit Insulation Tank

Adjunct Production Line




Sugar Dissolve Tank

→Syrup pump→Duplex Filter→Cooling & Heating Tank

Adjunct Dosing Tank



2. Quotation List:

Name	Specification	Qty	Picture
Pit Removing & Fruit Beating Machine	A. Model: DJ2-1.5 B. Power Level: 4.5Kw 380V, 50Hz C. Dimension: 1450*770*1523mm	1	
Plate Heat Exchanger	Model: HCD-5 Heat exchange area: 5M2 Working pressure: 1.0Mpa Design temperature: <120° Weight: 70kg Dimension: 710x320x900mm	1	
Cooling & Heating Tank	Capacity: 500kg Dimension: Dia 1000*1200 Material: SUS304 Weight: 200 kg	2	





Duplex Filtering Unit	Capacity: 2000kg Dimension: 800*300*800 Material: SUS304 Weight: 50 kg	3	
Temporary Storage Tank	Capacity: 1000kg Dimension: 1000*1500 Material: SUS304 Weight: 100 kg	1	
High Level Tank	1000L Dia1000 x 2000mm	1	
Homogenizer	Capacity: 1T/H Blending capacity: 11KW Size: 1200 x 700x1050mm Materials: SS304	1	



Ultra High Temperature Sterilizer	Capacity: 1T/H Dimension: 1200*920*1650mm Weight: 300kg Material: SUS304	1	
Finish Fruit Insulation Tank	Capacity: 5000kg Dimension: 1000*1200mm Material: SUS304 Weight: 150KG	1	
CIP Cleaning System	Capacity: L30L/H Operation pressure: 0.3-0.7mpa Operation temperature: 60-138° Material: SUS304 Power: 1.5kw Dimension: 2450x1350x2000mm	1	
Screw Pump	Model: RG-4 Capacity: 1T/h Dimension: 1350×400×380 mm Weight: 63 kg Power: 1.5 KW	1	
Beverage Pump	Capacity: 1T/H; Dimension: 300*300*350mm Weight: 100kg Power: 0.75kw	2	



Sugar Dissolve Tank	Model: YTH-350 Capacity: 350L/次 Material: SS304 Dimension: $\Phi 800 \times 1500$ mm Weight: 160kg Power: 0.55 kw	1	
Adjunct Dosing Tank	Model: CG-1 Material: SS304 Thickness: 1.5 mm Dimension: $\Phi 1000 \times 1600$ mm Capacity: 1T	1	

Part Three: Bottle Filling Packing Line

CGF8-8-3 3 in 1 Washing, Filling and Capping Machine



RCGF8-8-3 PET bottle Washing / filling / capping machine is a three-in-one combination of our advanced technology of high temperature filling technique, and it is the application of independent research and development, it will be the same with pure water and mineral water advanced bottling models. This machine adopts conveying way for clip bottles' lips, only need to replace very few parts,



it can be applied to a variety of bottle type, smooth delivery. Filling method is Atmospheric pressure filling.

★The main frame adopts structural steel, 304 stainless steel exterior layer, 304 stainless steel frame, round steel adjustable feet.

★Conveying system adopts star wheel, smooth transmission, stainless steel chain, it will be a smaller deformation.

★Number of washing clips is 8, 304 stainless steel chassis wash pipes are heat-resistant.

★Number of filling valve is 8, and parts contacted with product are 304L stainless steel. Inner surface is dealt with polishing. There is stainless steel returning tube, no dead space.

★Number of capping head is 3, screw head using magnetic torque device to facilitate torque adjustment, it can be set the size of the first torque of capping in accordance with the actual production needs.

Power system

★Main Motor and Gearbox with frequency controller, transmission for sports bodies are gears, run smooth, all-round star bottle components are engineering plastics, with security agencies.

★With PLC, transducer, relay, photoelectric switch, imported sensor switch relay components, touch screen operation panel, pneumatic components imported.

Technical Parameter

1. Model: RCGF8-8-3
2. Overall dimension (mm) : 1850*1450*2000
3. Production capacity: 2000-3000 b/h (500ml)
4. Suitable bottle sizes: 300ml-1500ml
5. Pressure of air source: 0.6Mpa
6. Used air: 0.3 m³ 3/min
7. Water pressure of washing bottles: 0.2-0.25Mpa
8. Used water of washing bottles: 0.5 T/h (Max. it can be adjusted)
9. Filling mode: Atmospheric pressure filling
10. Total capacity of motor: 3.42Kw
11. Rating pressure; 380V50Hz
12. Weight: 1200kg
13. The machine includes: 2M air conveying system in front, 2M conveying system for bottles out in back, cap elevator (air conveying).

Main Component list:

Item Name	Model& Specification	Qty	Origin
Main Motor	Y90L-4 1.5kw	1	Suzhou
Bottle Washing Filling Pumps	0.37KW	2	CNP (Nangfang)
PLC	FX1S-20MR	1	Mitsubishi
Transducer	FR-D740E-2.2K	1	Mitsubishi
Touch Screen	MT6070IH2	1	Winview
Approach switch	PR18-5DN	2	AUTONICS



Photoelectric switch	E3F-DS30C1	2	AUTONICS
AC Contactor	LC1-D0910/AC220V	5	DELIXI
Thermal relay	JS1D-25	5	DELIXI

Equipment Picture:

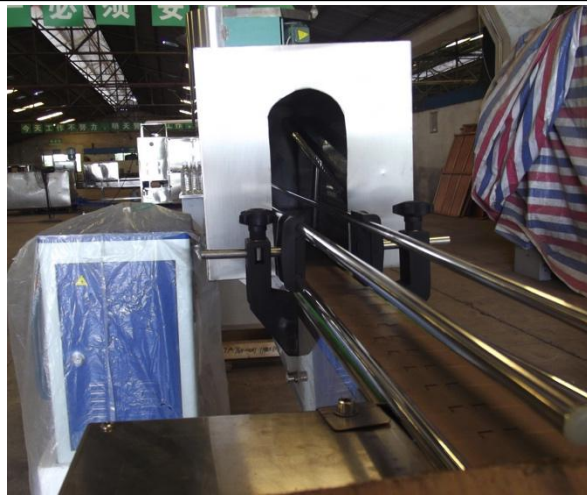


5. Manual label-shrinking machine

Heat Shrinking Tunnel



Steam Generator(9kw)



6. Semi-auto Shrink- Wrapping Packing Machine





Main Feature:

- 1) It can make package perfect whatever it is without pallet, cartoon, rectangle, round or flat shape.
- 2) It has the advantage of less cost and better appearance.
- 3) Replace film conveniently. It has failure alarm, lock device, reliable running.
- 4) Automatic film feeding and cutting function, and the length of film for feeding and cutting is adjustable.
- 5) With stainless steel heating tube to ensure the high efficiency even heat, not easy to break and easy changing.
- 6) The whole machine applies super steel and stainless steel, with compact and endurable structure. This new type of wrapping machine is the ideal equipment for beverage filling line.

Technical Diameter:

Machine Dimension	4500*870*1980(L*W*H.mm)
Max packed size	420*270*350(L*W*H.mm)
Shrinkage film material	PE、PP、PVC、POF
Shrinkage film thickness	0.03-0.15(mm)
Oven temperature	160 - 250°C
Heat Cutting Temperature	160 - 200°C
Max output	0-6Bag/Min.
Actual Power	18Kw/H.
Max power consumption	28KW
Voltage	AC 380V/220V,3Phs
Weight	750kg.
Applicable Internal Diameter of Paper Tube	5"~10".

Packing Type:

a)300-600ml:Big package: 4×6, 4×5;Small package: 3×4, 3×5.



b) 700-2000ml:Big package: 3×3, 3×4;Small package: 2×2, 2×3.

LSS Fuel Oil Steam Boiler

1. Work Principle

LSS Series Vertical straight water tube oil burning boiler is using reliable automatic burner as the main fuel-burning equipment, it make the high temperature flame with automatic igniter, from the top of boiler furnace enter to inside of serried drain-pipe, with 180 degree turning from the bottom of boiler furnace to layer space between boiler furnace and serried drain-pipe, then discharge from the floss hole of boiler. This boiler is with good advantage of high thermal efficiency, simple structure, and long service life.

2. Main feature:

- 1) Good quality steel plate with JB/T10393 standard
- 2) With pipe turbine structure for high thermal efficiency and reliable operation.
- 3) With automatic pressure control system
- 4) With automatic discharge unit for safety valve.
- 5) Automatic adjusting unit for blowing fan and air door.
- 6) With monitoring device for flame burning.

3. Main Parameter:

Rated evaporation	300	kg/h
Rated working pressure	0.7	Mpa
Hydraulic Test Pressure	1.05	Mpa
Voltage Level	Three Phase, 380	V
Pump Capacity	1.1	KW
Diesel consumption	19.7	kg/h
Diameter of water inlet pipe	DN25	φ mm
Diameter of air outcharge valve	DN32	φ mm
Drain valve diameter	DN32	φ mm
Safety valve diameter	DN32	φ mm
Overall dimension	©940×2300	mm

