

# FORCED CIRCULATING EVAPORATOR

## 强制循环式蒸发器



### 适用范围

本设备适用于番茄、洋葱、辣椒、草莓、黑莓、胡萝卜、桃子、杏子等物料破碎打浆后的物料进行浓缩。

### 技术说明

- ◆本设备采用国外低功耗蒸发设备结构，即二效自循环一效强制循环双效组合式结构，减少了二台强制循环泵电功率运行成本和其产生的其他损耗，与国内设备相比（300-500吨/天计算）节约电能耗250KW/H。
- ◆整体结构紧凑，一效蒸发器到二效加热器管路短，布局优化，减少了热量损失，蒸发方式升降膜并用，沸腾传热效果更佳，加热蒸汽压力低，物料温度低，I效仅68℃~70℃，II效38℃~40℃。
- ◆冷却系统的排水采用变频调速来调节冷凝器水位，节约电能；为避免泵进水冲击振动的危害，供水采用真空抽自吸，能有效减少电能损耗。

### Application scope

The evaporator is used for the concentration of tomato, onion, chili, strawberry, blackberry, carrot, peach, and apricot.

### Technical explanation

- ◆ The evaporator adopts low consumption evaporating structure; the second effect self-circulation combines the first effect evaporation so it is double effect combination structure which can decrease the running cost of the second forced circulation pump and other loss. Compared with domestic equipments (capacity at 300-500tons per day) it can save power by 250KW/H.
- ◆ The machine is with features of compact structure and optimized layout, the length of the pipe between the first effect evaporator and the second effect evaporator is short. This structure can reduce the loss of heat. The evaporating way is rising film together with falling film, so the effect of heat transfer is better. The pressure of the steam is low; the temperature of the paste is low too. Temperature of the first effect is 68℃~70℃ and 38℃~40℃ for the second effect.
- ◆ The draining of cooling system uses frequency conversion to adjust water level of the condenser to save power. To avoid the damage of impact vibration when the water goes to the pump, the water supply adopts vacuum self-priming way which can also reduce the power consumption.

### 技术参数 Technical Parameter

序号 Item	日处理能力/吨 Capacity Ton/day	蒸发能力(kg/h) Evaporating Capacity (Kg/h)	耗电量(KW/h) Electricity Consumption (kw/h)	耗水量(t/h) Water Consumption(t/h)	耗汽量(kg/h) Steam consumption (kg/h)
1	150	5300	105	150	2120
2	300	10560	190	300	4300
3	400	13800	197	400	5600
4	500	17280	205	500	7200
5	600	20700	380	600	8300
6	800	27600	394	800	11500
7	1000	34560	410	1000	14000
8	1200	41400	591	1200	17000
9	1500	51840	615	1500	23800

备注：安装尺寸--(根据客户处理量大小灵活调节) 该技术解释权归上海嘉迪机械有限公司所有  
Notes: Dimension (adjust according to the required capacity of the customer). Shanghai Jiadi Machinery Co., Ltd reserves the right of final technology explanations.

# PIPE STERILIZER

## 套管式杀菌机



### 适用范围

本设备适用于番茄、洋葱、辣椒、草莓、黑莓、胡萝卜、桃子、杏子等物浓缩后的物料进行杀菌。

### 技术说明

- ◆本套管式杀菌机主要由四层套管式或（多管）换热器、无级变速输送泵、保持器、密闭水桶、过热水发生器、支架、控制器等组成。
- ◆设有加热段、杀菌保持段、冷却段，管组结构简单，阻力小。
- ◆物料的加热保温段结构搭配合理，保证温度稳定，产品安全。
- ◆清洗过程包含有过热水和冷却水水道。预防内壁结垢影响热交换效果。对管道杀菌采用过热水的加热方法，提高了热效率。
- ◆液晶显示操作屏，用于全自动装置的PLC系统和用于装置中重要温度纪录的多道式记录仪。
- ◆采用意大利进口阀门，西门子或者欧姆龙电气控制元件，触摸屏直接显示设备运行的每个必要参数，以便随时监控，确保设备运行稳定。

### Application scope

The machine is used for the sterilizing of tomato paste, onion paste, chili paste, strawberry paste, blackberry paste, carrot paste, peach paste, apricot paste etc.

### Technical explanation

- ◆ The sterilizer is composed of four layer sleeving pipe or multi-pipe heat exchanger; Stepless speed change conveying pump, holder, closed water barrel, superheating water generator, frame, controller etc.
- ◆ Includes heating section, sterilizing section and cooling section. Tube group has the features of simple structure and small resistance.
- ◆ The heating-holding section has reasonable structure to guarantee the temperature stability and security of products.
- ◆ There is superheating water and cooling water channel during the cleaning which can avoid the scaling. Adopting the method of superheating water heating in the pipe sterilizing to improve the heat effect.
- ◆ LCD monitor, automatic PLC system, multi-stage recorder to record important temperature.
- ◆ Italy valves, SIEMENS or OMRON electrical components, the PLC monitor can indicate every parameter directly to inspect it in time easily and guarantee the stability of running.

### 技术参数 Technical Parameter

设备规格 Model	处理量(kg/h) Capacity Kg/h	杀菌温度(°C) Sterilizing temperature	冷却温度(°C) Cooling temperature	耗电量(kw) Power consumption	蒸汽耗量(kg/h) Steam consumption	耗水量20°C(kg/h) Water consumption	压缩空气耗量(kg/h) Compressed air consumption	安装尺寸 长×宽×高 Dimension
JD-SJ-1	1000	110	32-45	14.1	150	5000	0.1	8000x800x1000
JD-SJ-2	2000	110	32-45	19.2	300	10000	0.1	8000x1000x1000
JD-SJ-3	3000	110	32-45	33	450	15000	0.3	8000x1200x1200
JD-SJ-6	6000	110	32-45	64.5	900	42000	0.3	8000x1200x1800
JD-SJ-8	8000	110	32-45	80.5	1200	56000	0.4	8000x1200x1800
JD-SJ-10	10000	110	32-45	110	1500	70000	0.5	8000x1400x2000
JD-SJ-12	12000	110	32-45	132	1800	84000	0.5	8000x1400x2000

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