

# Energy compare Chart

## Auot Spray retort & Full water Immersion retort

description		CY-3000H-130-400	Full water immersion 1200x4000	Ø save %	remark
description	unit				
specification	retort volume	M <sup>3</sup>	5.7	5.5	
	working capacity (batch)	kg	1800	1800	
	products pakage volume (liquid)	g	350	350	tin canned
	canned sterilization quantity/batch	pcs	5040	5040	
	thermal medium-water service tank	L	250	4000	
		L	0	3600	
	working principle		dynamic heat transfer	full hot water immersion	
batch steam consumption					
A	service tank 7cycle /day average	L	0	96.8	25~120°C
B	products ( heat-up 15mins)	L	302.8	283.28	25~121°C
C	retort tube &steel frame	L	50.4	92.1	
D	Tin canned (empty)	L	4.8	4.8	
E	energy recover	L	0	43.1	
Summation	(A+B+C+D-E)x1.05/ batch	L	375.9	456.1	18% 5% loss
batch water consumption					
	chiller volume 3000L				
	batch water consumption	L	626	6000	89%
batch air consumption					
	batch air consumption	M <sup>3</sup>	8	8	
power capacity					
	sterilization circulation pump	kw	7.5	15	
	chiller circulation pump	kw	7.5	0	
	cold water circulation pump	kw	0	15	
	chiller fan motor	kw	1.5	0	
	control panel	kva	1	1	
Summation	total power		17.5	31	44%

\*except compare item

- 1 soft water treatment cost
- 2 wastewater treatment cost
- 3 equipment primary cost

## Energy compare Chart

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	working capacity (batch)	kg	1800	1800	
	products pakage volume (liquid)	g	350	350	tin canned
	canned sterilization quantity/batch	pcs	5040	5040	
	thermal medium-water	L	250	4000	
	service tank	L	0	3600	
	working principle		dynamic heat transfer	full hot water immersion	
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batch steam consumption					
	A service tank 1cycle /batch	L	0	677.6	25~120°C
	B products ( heat-up 15mins)	L	302.8	283.28	25~121°C
	C retort tube &steel frame	L	50.4	92.1	
	D Tin canned (empty)	L	4.8	4.8	
	E energy recover	L	0	0	
Summation	(A+B+C+D-E)x1.05/ batch	L	375.9	1057.78	65% 5% loss
<hr/>					
batch water consumption					
	chiller volume 3000L				
	batch water consumption	L	626	6000	89%
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batch air consumption					
	batch air consumption	M <sup>3</sup>	8	8	
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	control panel	kva	1	1	
Summation	total power		17.5	31	44%
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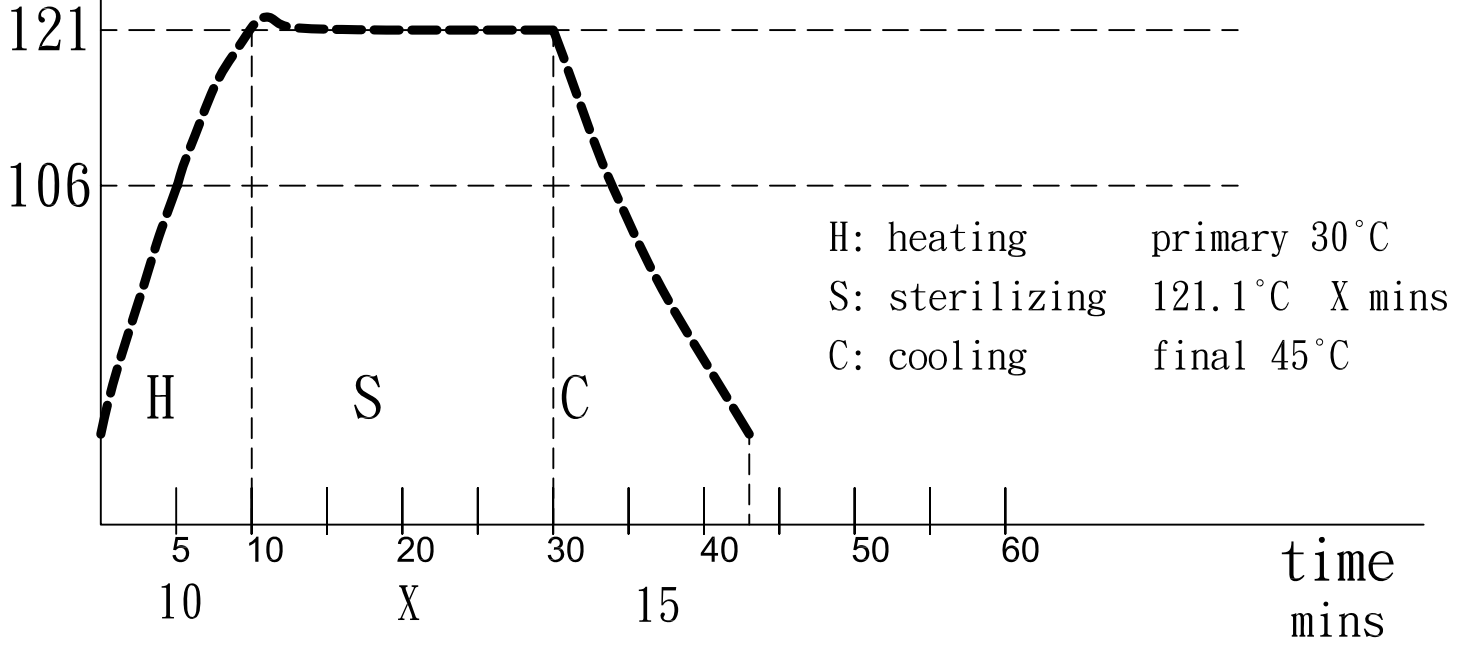
\*except compare item

- 1 soft water treatment cost
- 2 wastewater treatment cost
- 3 equipment primary cost

CY-3000H-130 Thermal history (out door 22°C)

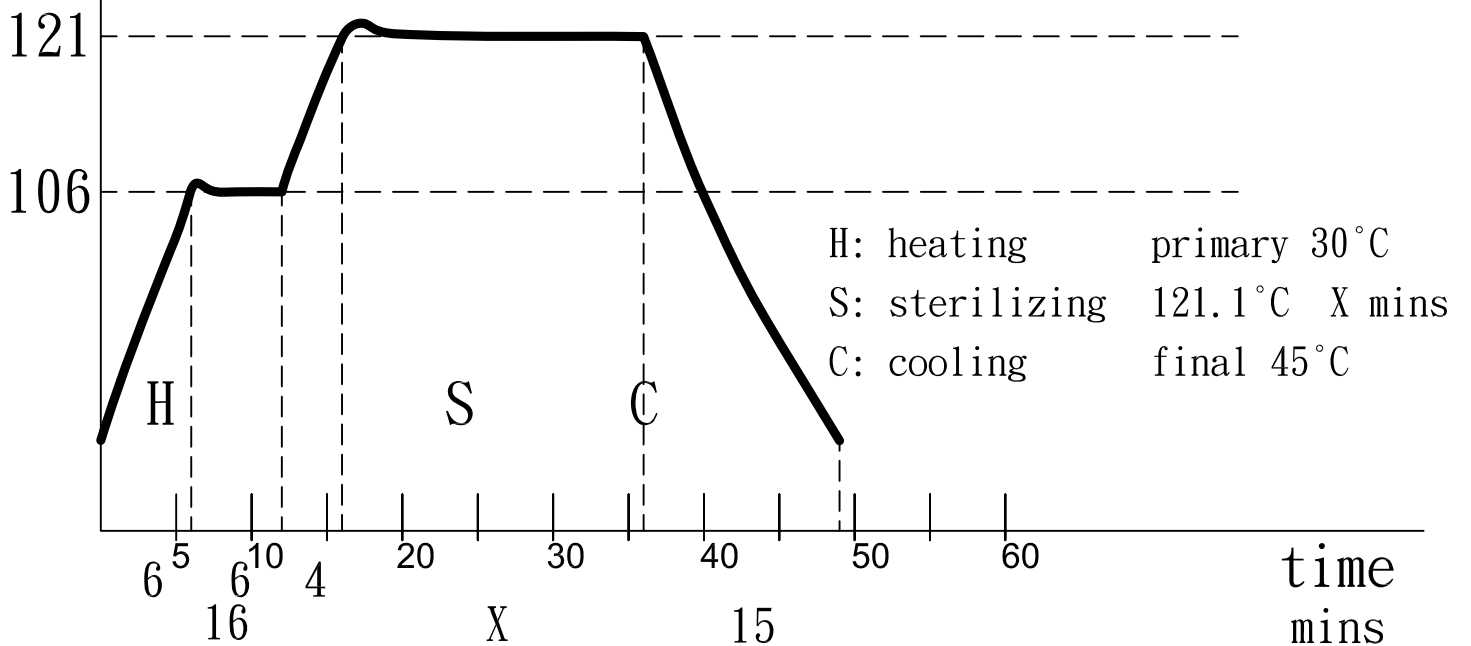
Heating: direct heating

Heating & Cooling speed adjustable



Heating: direct heating

Heating & Cooling speed adjustable

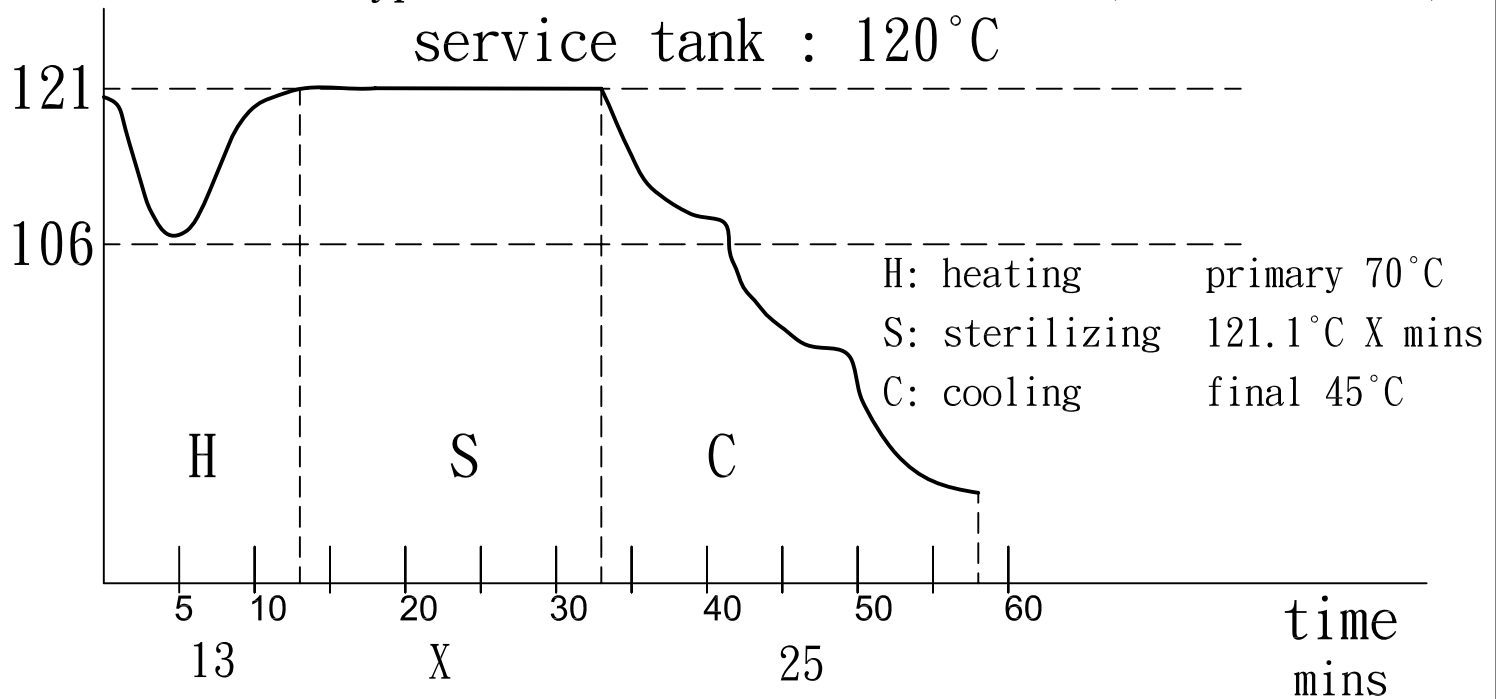


# Hot water immersion Thermal history

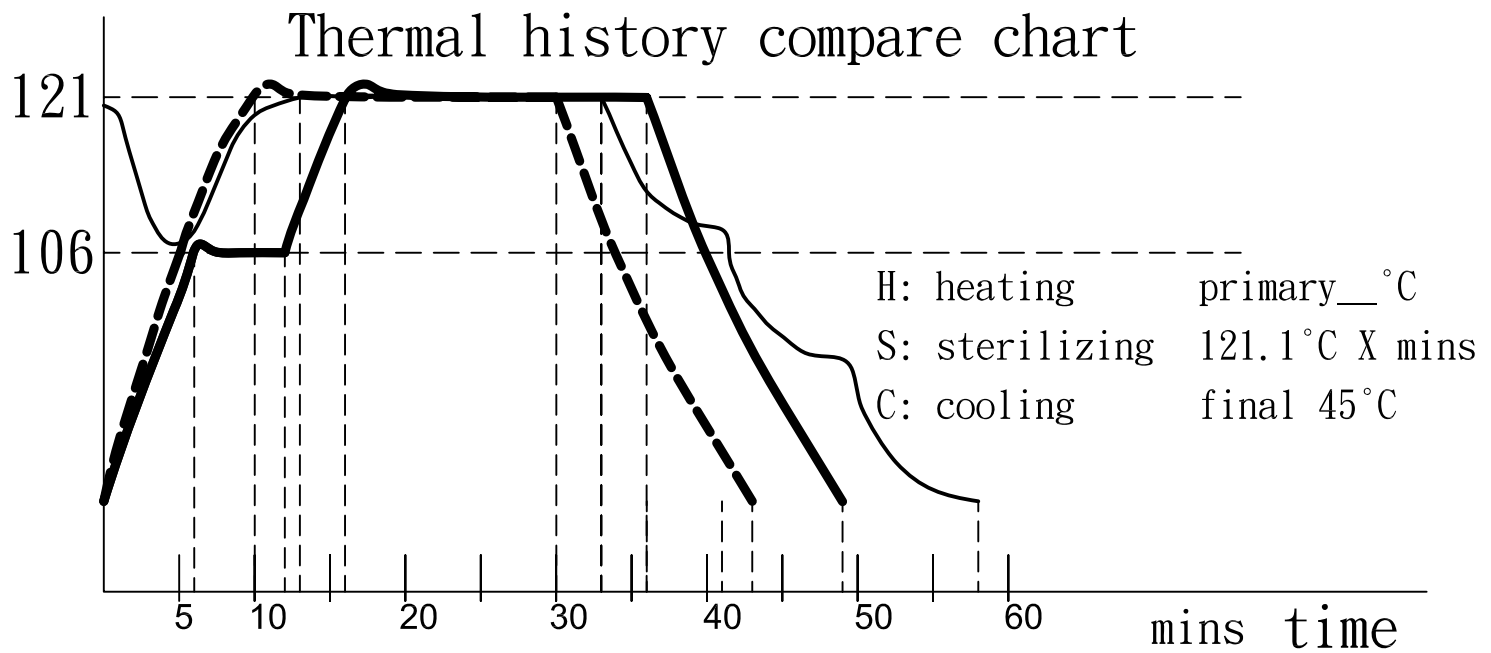
Made in Japan Type:RCS 120/40G

(out door 23°C)

service tank : 120°C



## Thermal history compare chart



## Thermal history compare chart (mins)

	heating	$\Delta$	sterilizing	$\Delta$	cooling	$\Delta$
CY-3000 direct heating	10	0.77	X	1.00	15	0.60
CY-3000 106°C equalize	16	1.23	X	1.00	15	0.60
hot water immersion	13	1.00	X	1.00	25	1.00