

FIG. 1

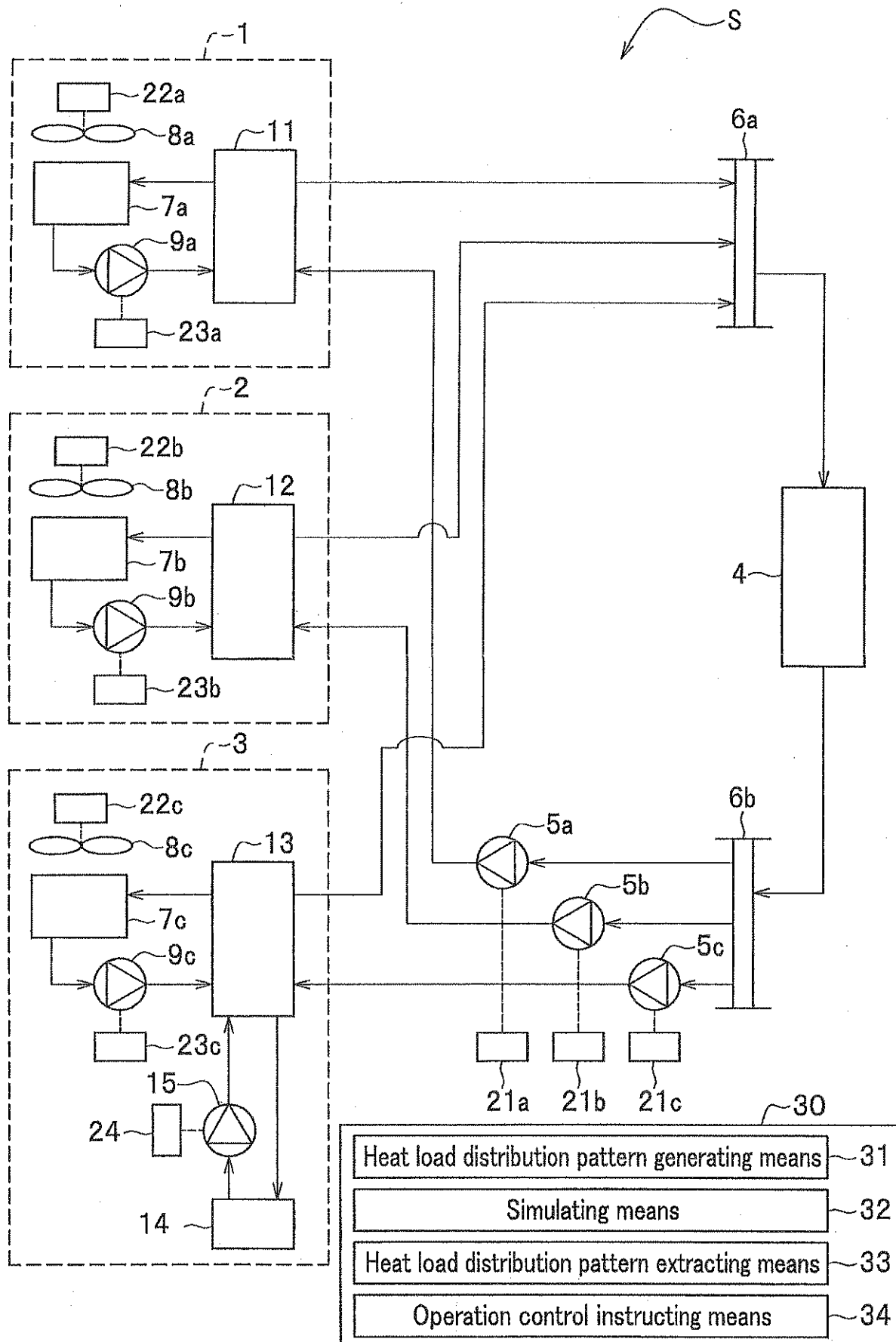


FIG. 2

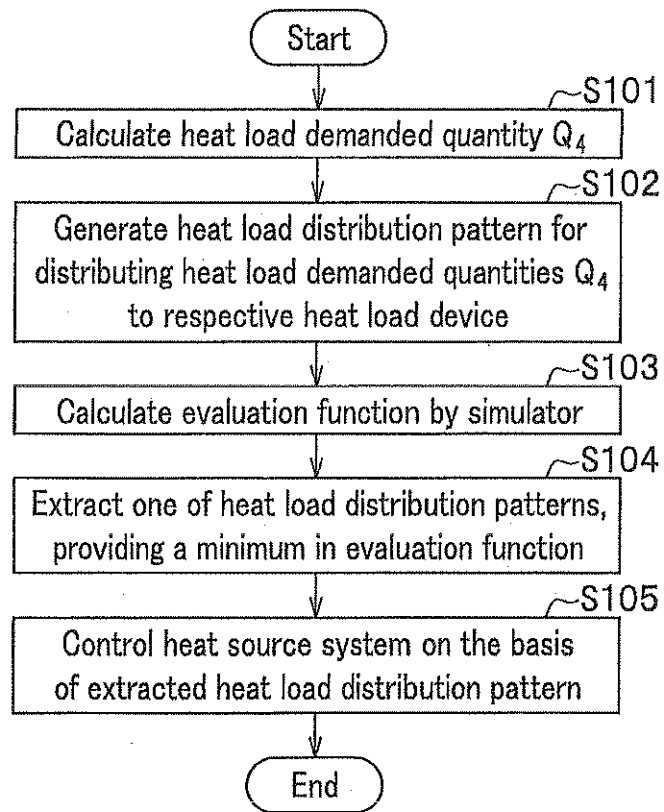


FIG. 3

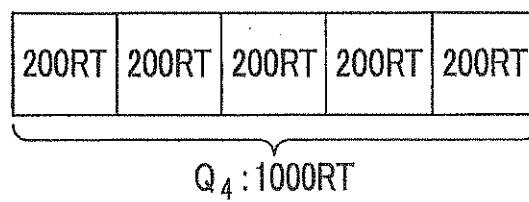


FIG.4

Pattern NO.	Distributed load of heat source device 11	Distributed load of heat source device 12	Distributed load of heat source device 13	Load factor of heat source device 11	Load factor of heat source device 12	Load factor of heat source device 13	Operation possible/impossible
1	1000RT	0RT	0RT	100%	0%	0%	○
2	800RT	200RT	0RT	80%	40%	0%	○
3	800RT	0RT	200RT	80%	0%	20%	×
4	600RT	400RT	0RT	60%	80%	0%	○
5	600RT	200RT	200RT	60%	40%	20%	×
6	600RT	0RT	400RT	60%	0%	40%	○
7	400RT	600RT	0RT	40%	120%	0%	×
8	400RT	400RT	200RT	40%	80%	20%	×
9	400RT	200RT	400RT	40%	40%	40%	○
10	400RT	0RT	600RT	40%	0%	60%	○
11	200RT	800RT	0RT	20%	160%	0%	×
12	200RT	600RT	200RT	20%	120%	20%	×
13	200RT	400RT	400RT	20%	80%	40%	×
14	200RT	200RT	600RT	20%	40%	60%	×
15	200RT	0RT	800RT	20%	0%	80%	×
16	0RT	1000RT	0RT	0%	200%	0%	×
17	0RT	800RT	200RT	0%	160%	20%	×
18	0RT	600RT	400RT	0%	120%	40%	×
19	0RT	400RT	600RT	0%	80%	60%	○
20	0RT	200RT	800RT	0%	40%	80%	○
21	0RT	0RT	1000RT	0%	0%	100%	○

401
402
403
404

FIG.5

Pattern NO.	Distributed load of heat source device 11	Distributed load of heat source device 12	Distributed load of heat source device 13	Load factor of heat source device 11	Load factor of heat source device 12	Load factor of heat source device 13	Evaluation function (Consumed energy)
1	1000RT	0RT	0RT	100%	0%	0%	...
2	800RT	200RT	0RT	80%	40%	0%	...
4	600RT	400RT	0RT	60%	80%	0%	...
6	600RT	0RT	400RT	60%	0%	40%	...
9	400RT	200RT	400RT	40%	40%	40%	...
10	400RT	0RT	600RT	40%	0%	60%	...
19	0RT	400RT	600RT	0%	80%	60%	...
20	0RT	200RT	800RT	0%	40%	80%	...
21	0RT	0RT	1000RT	0%	0%	100%	...

401 402 403 504

FIG.6

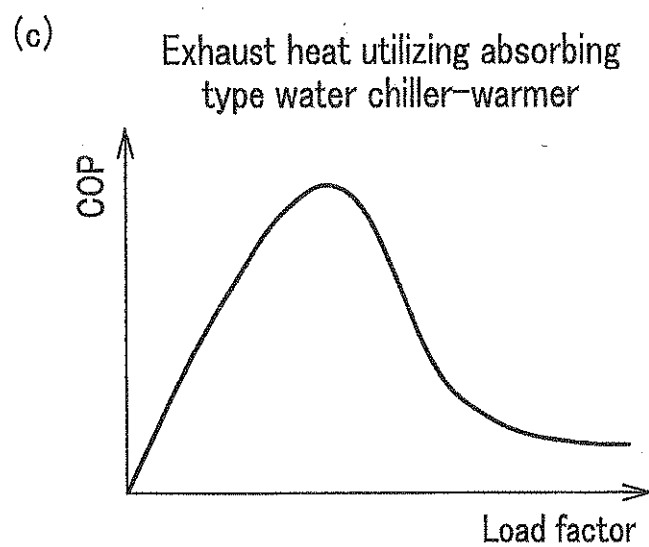
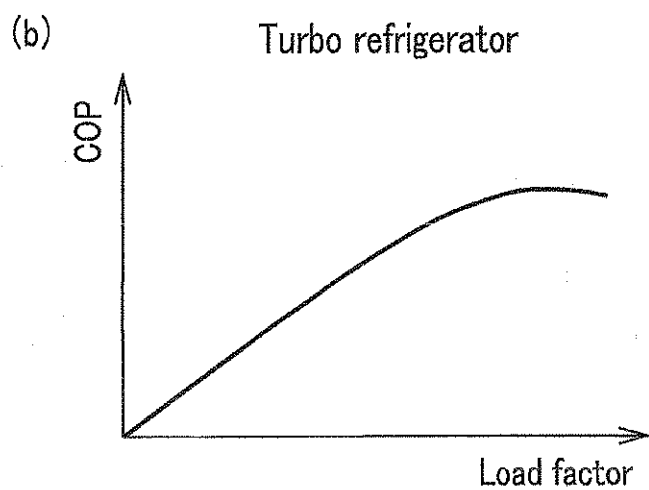
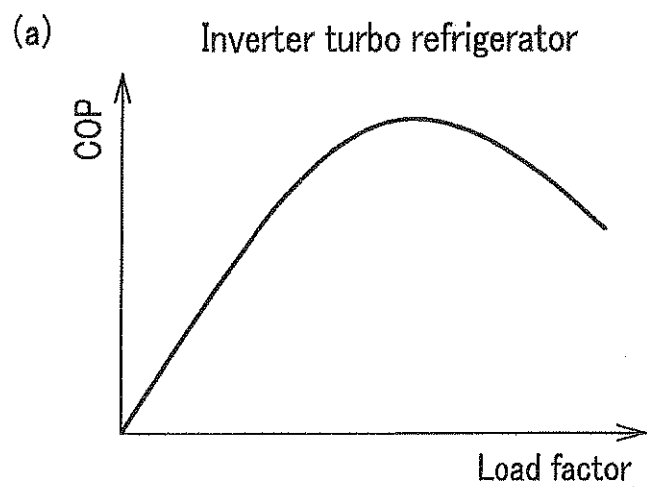


FIG.7

Pattern NO.	Load factor of heat source device 11	Load factor of heat source device 12	Load factor of heat source device 13	Operation possible/impossible
1	10%	0%	0%	×
2	20%	0%	0%	×
⋮	⋮	⋮	⋮	⋮
10	100%	0%	0%	○
11	0%	10%	0%	×
12	10%	10%	0%	×
⋮	⋮	⋮	⋮	⋮
110	0%	100%	0%	○
⋮	⋮	⋮	⋮	⋮
121	0%	0%	10%	×
122	10%	0%	10%	×
⋮	⋮	⋮	⋮	⋮
610	50%	0%	50%	○
⋮	⋮	⋮	⋮	⋮
701	702			703

FIG. 8

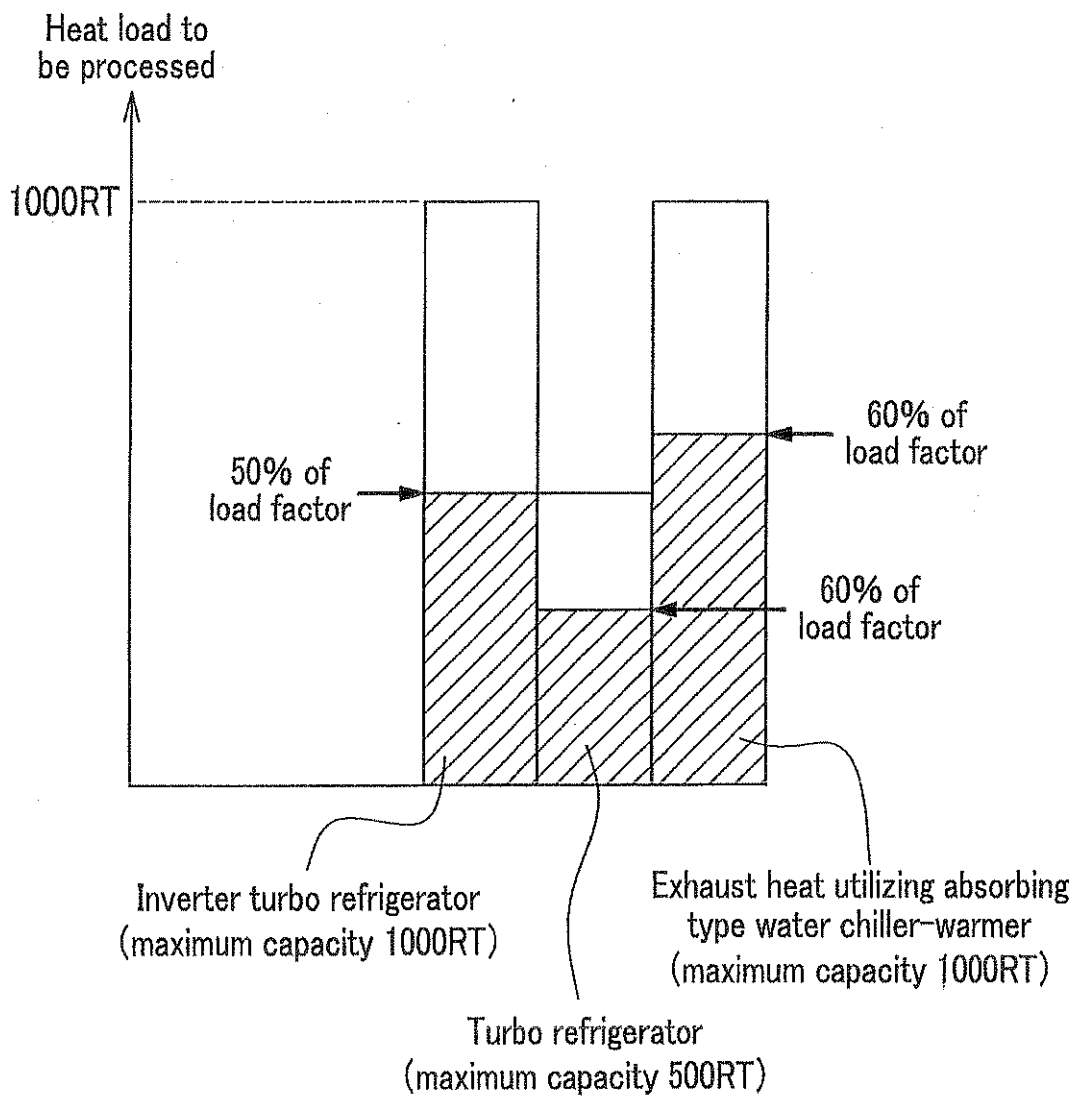


FIG.9

(a)

		Cooling water outlet port temperature				
		10°C	15°C	...	30°C	35°C
Load factor	10%	60kW	90kW	...	100kW	120kW
	20%	110kW	170kW	...	190kW	230kW
	⋮	⋮	⋮		⋮	⋮
	90%	230kW	300kW	...	520kW	620kW
	100%	300kW	400kW	...	600kW	700kW

(b)

		Cooling water outlet port temperature				
		10°C	15°C	...	30°C	35°C
Load factor	10%	3m ³ /h	4m ³ /h	...	11m ³ /h	12m ³ /h
	20%	24m ³ /h	25m ³ /h	...	24m ³ /h	25m ³ /h
	⋮	⋮	⋮		⋮	⋮
	90%	110m ³ /h	115m ³ /h	...	115m ³ /h	120m ³ /h
	100%	120m ³ /h	125m ³ /h	...	135m ³ /h	140m ³ /h