



proton
EUROPE

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DESCONGELADOR FUSION

BF-3215

BF-3229

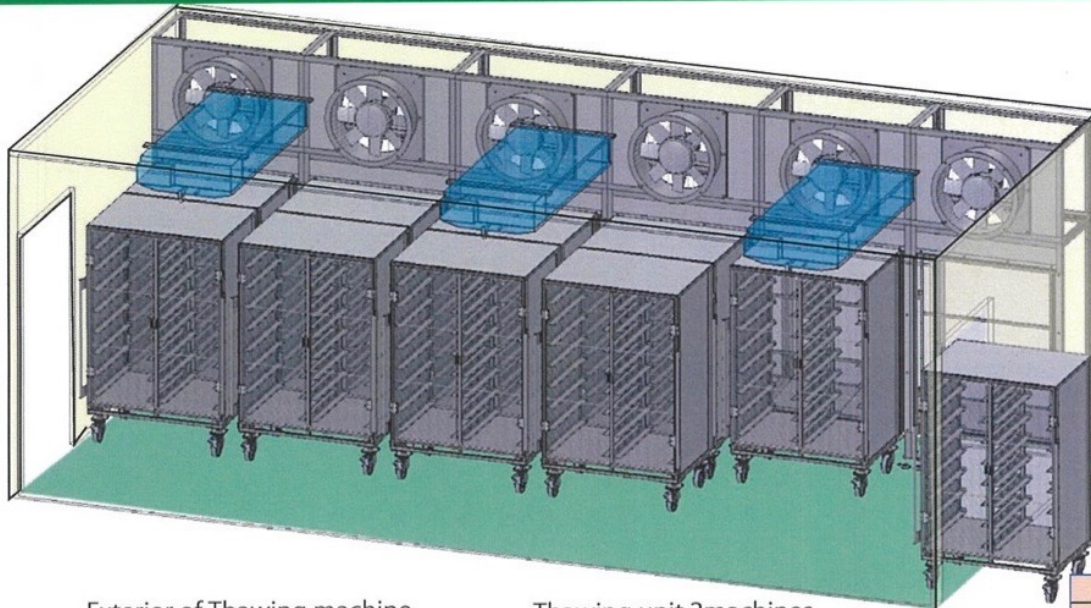
BF-3243

Proton Thawing Machine Truck type

Proton Thawing
Patent No 4535341

"Chunk of 60 pound meat" can also be thawed overnight!

Decompression scale
2 Trucks ~ large capacity



- High humidity of patented technology. The use of latent heat makes the thawing speed faster.
- Proton is the only thing Chunk of 60 pounds can be thawed overnight.
- The yield rate and profit improves.
- It is possible to set the temperature program suitable for the thawed product.
- After thawing, it can be used as a refrigerator.
- Outstanding cleaning capacity.

Thawing program know-how

- Process 1 : Frozen storage
- Process 2 : Thawing process
- Process 3 : Thawing process
- Process 4 : Refrigerated storage

Exterior of Thawing machine

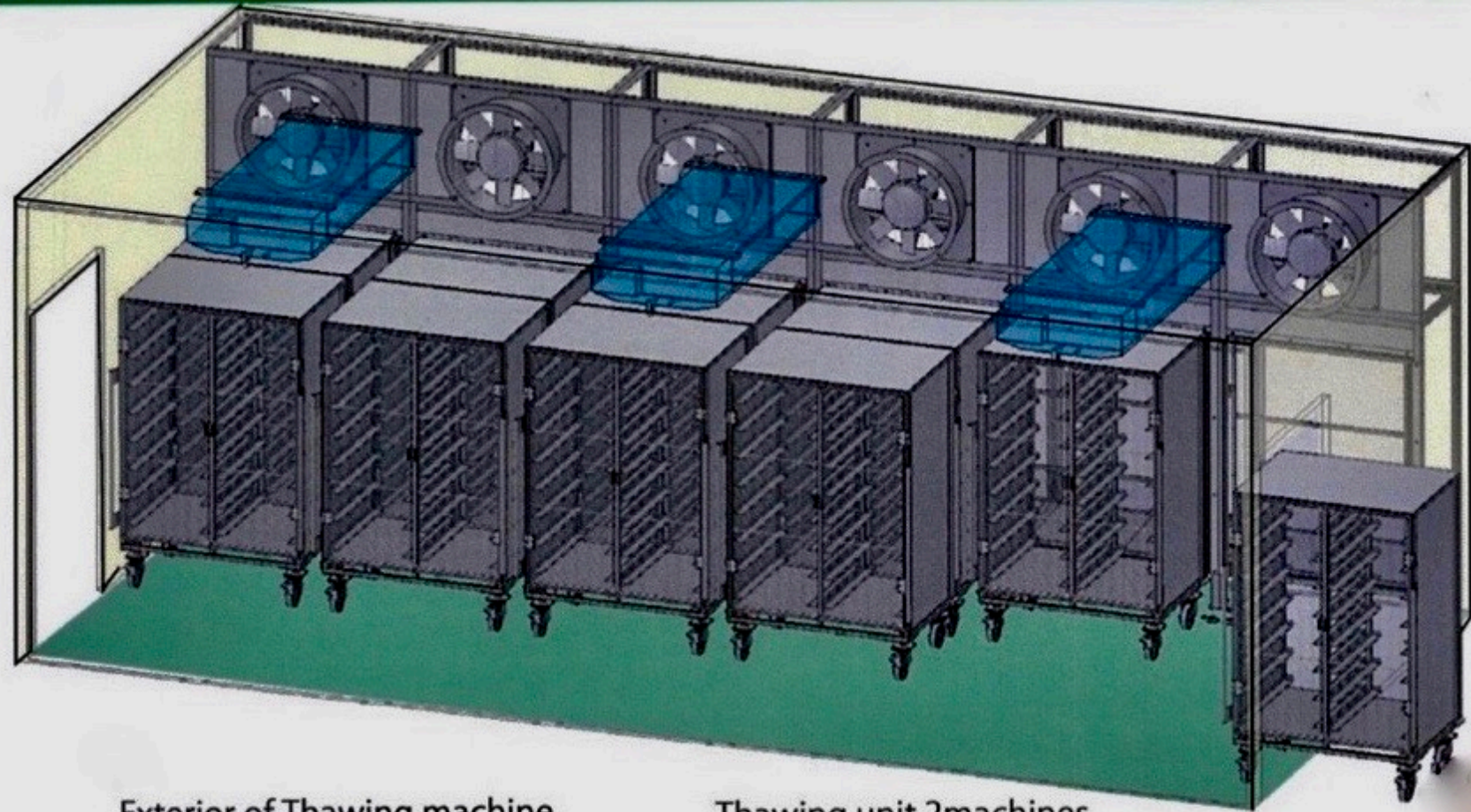


Thawing unit 2machines



Model	BF-3215(1U4carts)	BF-3229(2U8carts)	BF-3243(3U12carts)
Type	4carts,500kg/B	8carts,1000kg/B	12carts,1500kg/B
External dimensions	frontage	3200	3200
	Depth	1500	2900
	height	2500(500above the ceiling)	
Thawing process	The first step	Frozen storage:「0°C~-8°C+timer function」	
	The second step	Thawing process:「15°C~28°C+timer function」	
	The third step	Thawing process:「15°C~28°C+timer function」	
	The fourth step	Refrigerated storage:「-2°C~-5°C」	
Capacitance	Indoor	3 Φ 200v 4kW	3 Φ 200v 5kW
	Outdoor	3 Φ 200v 2.2kW	3 Φ 200v 2.2kW
Steam amount max , size		0.2MPa 40kg/h	0.2MPa 80kg/h
		25A	25A
		32A	
	With drainage inside the room		
Option	Exclusive cart	4 truck warehousing	8 truck warehousing
	Exclusive tray	64 sheets(16 sheets/cart)	128 sheets(16 sheets/cart)
	Steam filter	192 sheets(16 sheets/cart)	For rust or edible

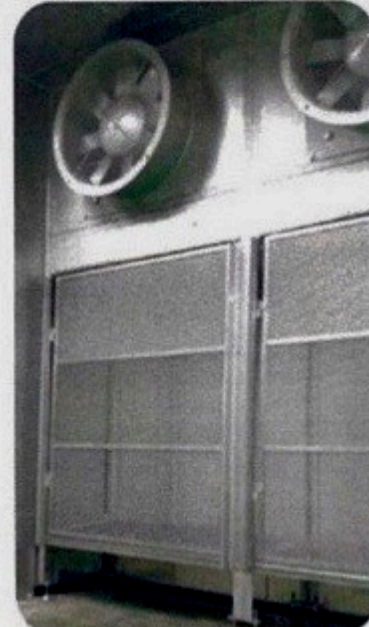
Model		BF-3215(1U4carts)	BF-3229(2U8carts)	BF-3243(3U12carts)
Type		4carts,500kg/B	8carts,1000kg/B	12carts,1500kg/B
External dimensions	frontage	3200	3200	3200
	Depth	1500	2900	4300
	height	2500(500above the ceiling)		
Thawing process	The first step	Frozen storage:「0°C~-8°C+timer function」		
	The second step	Thawing process:「15°C~28°C+timer function」		
	The third step	Thawing process:「15°C~28°C+timer function」		
	The fourth step	Refrigerated storage:「-2°C~-5°C」		
Capacitance	Indoor	3Φ200v 4kW	3Φ200v 5kW	3Φ200v 8kW
	Outdoor	3Φ200v 2.2kW	3Φ200v 2.2kW	3Φ200v 3kW
Steam amount max , size		0.2MPa 40kg/h	0.2MPa 80kg/h	0.2MPa 120kg/h
		25A	25A	32A
		With drainage inside the room		
Option	Exclusive cart	4 truck warehousing	8 truck warehousing	12 truck warehousing
	Exclusive tray	64 sheets(16 sheets/cart)	128 sheets(16 sheets/cart)	192 sheets(16 sheets/cart)
	Steam filter	For rust or edible		

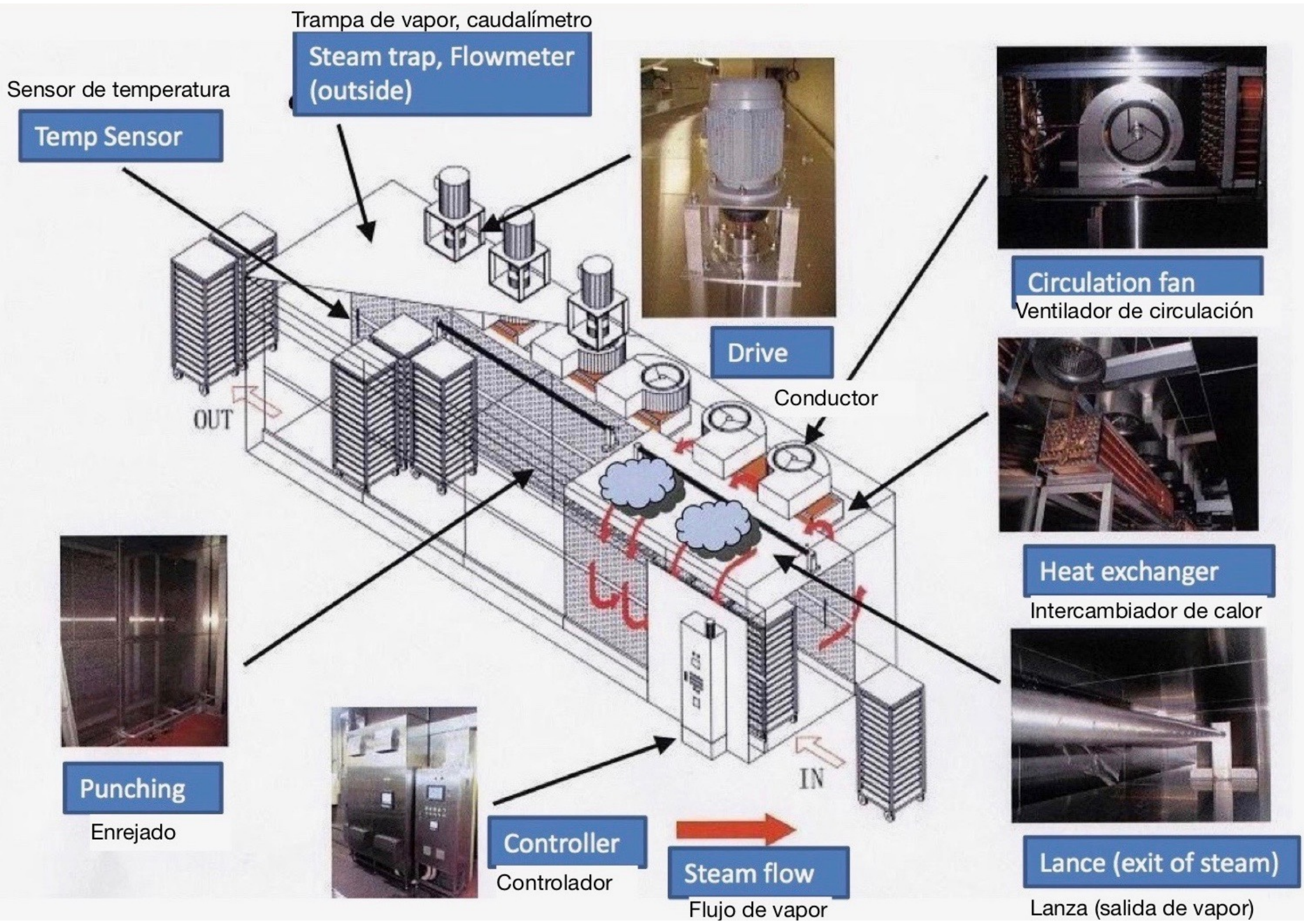


Exterior of Thawing machine



Thawing unit 2machines

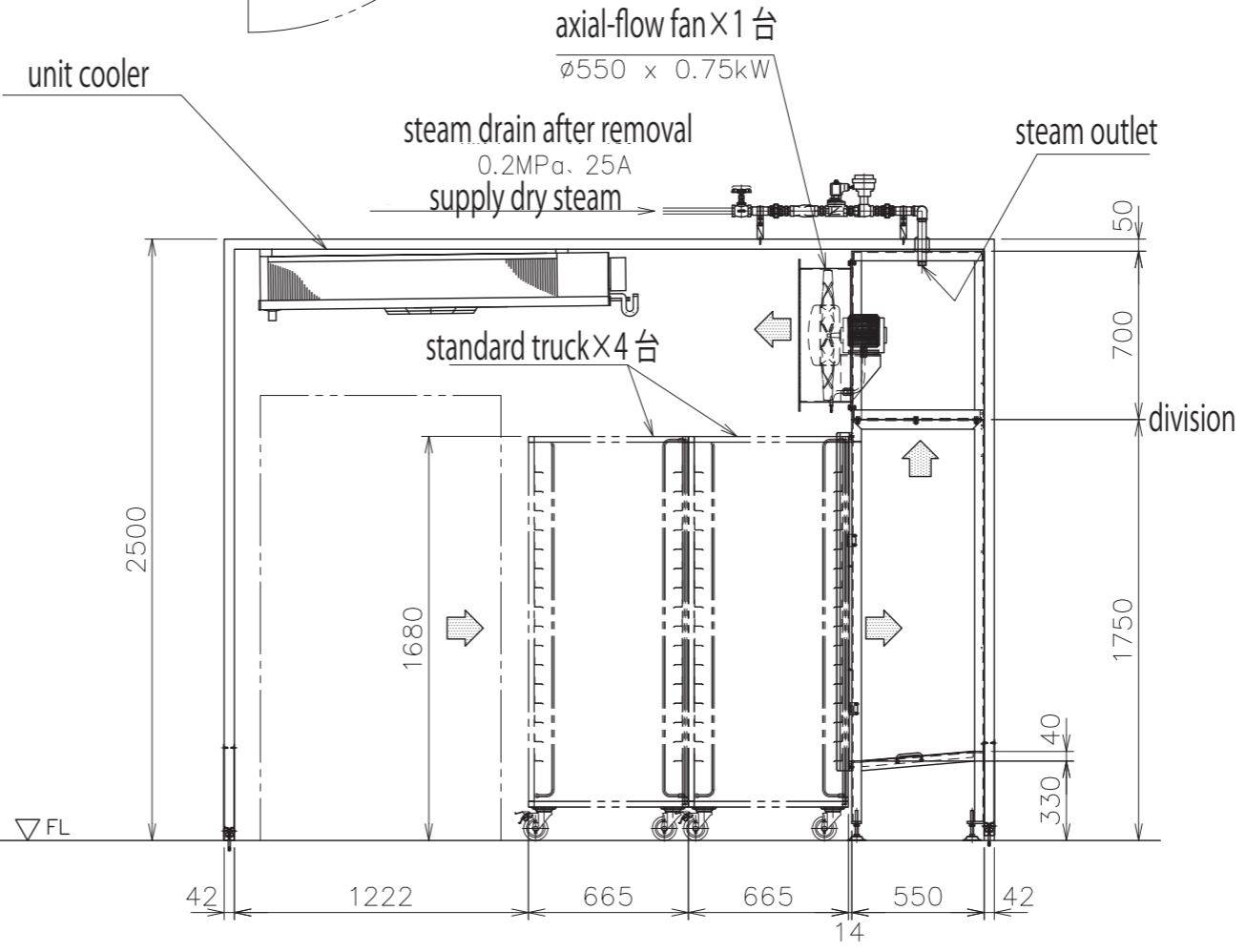
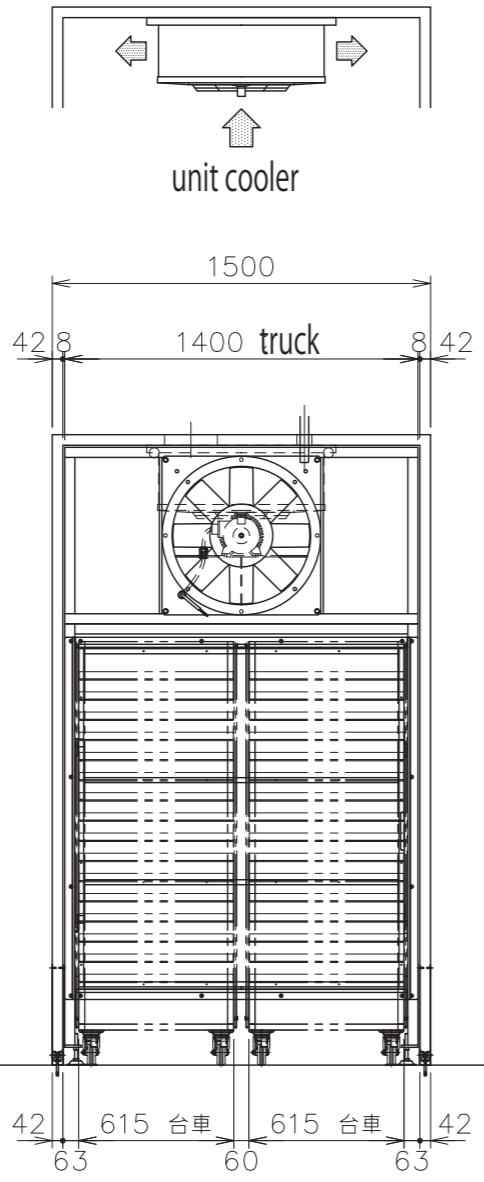
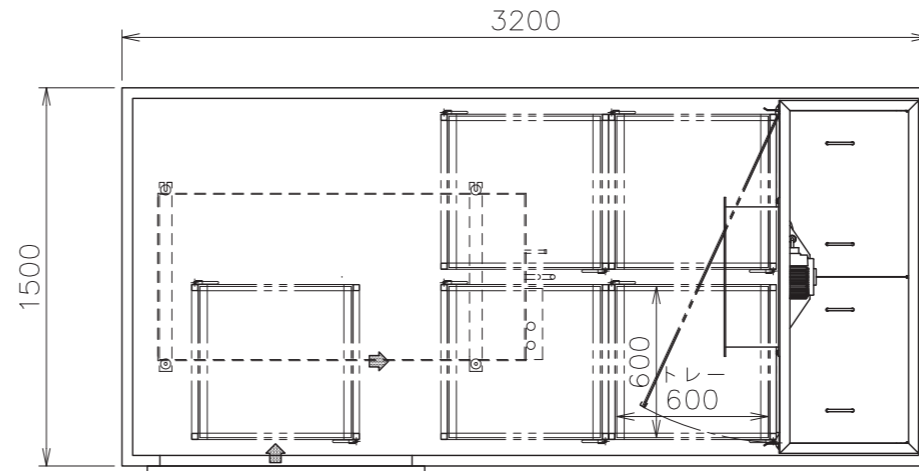




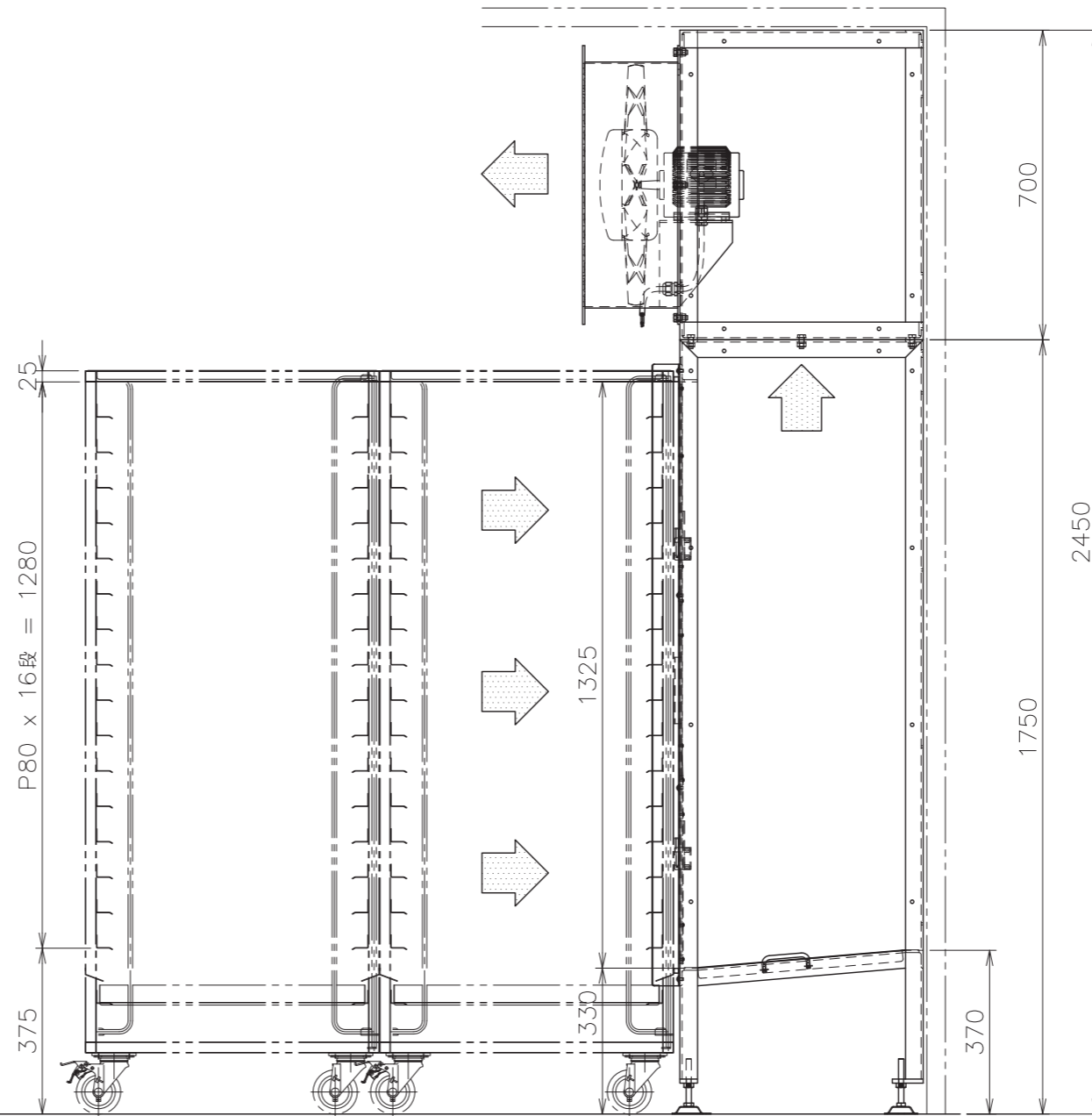
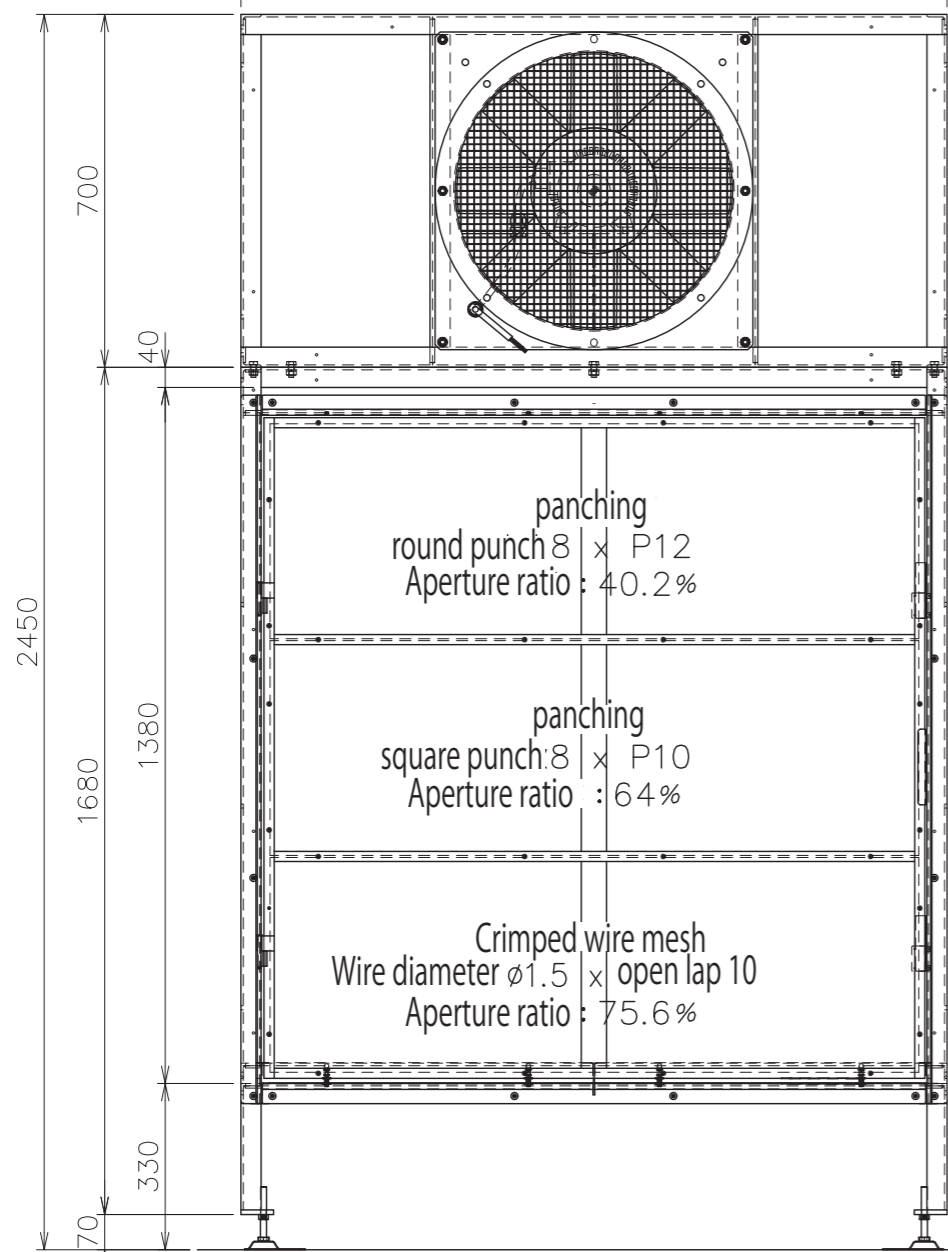
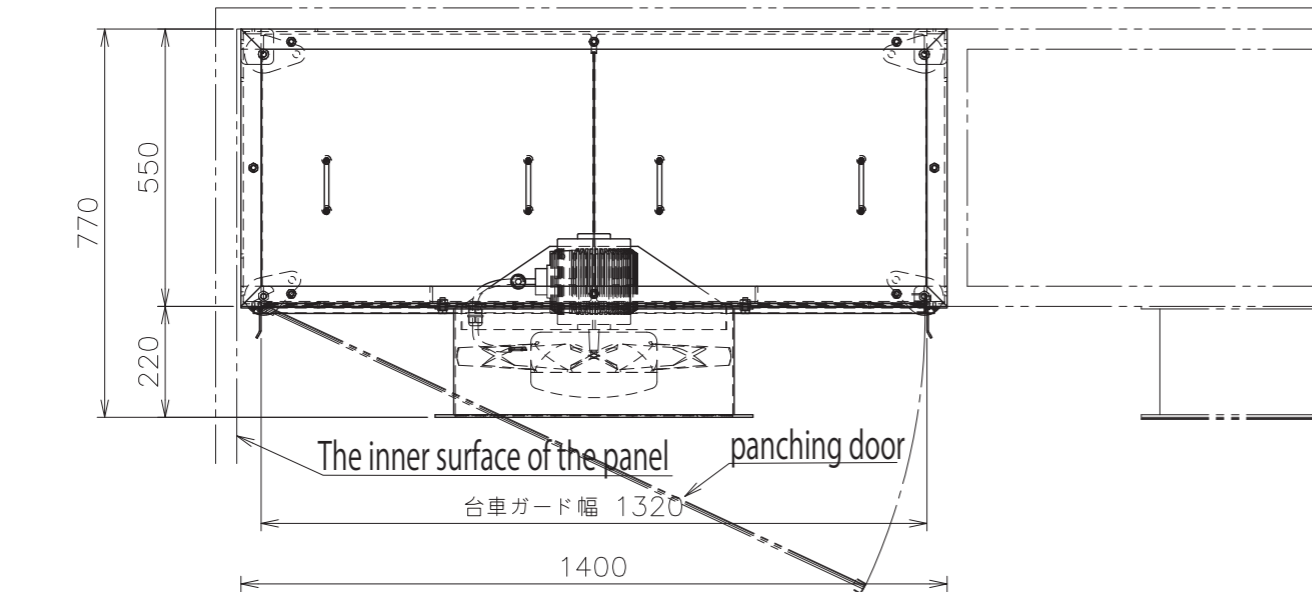




Device overview
 Scale : 4Truck about 500kg /batch
 Electrical: 3Φ 200v (out2.2+in4)kw
 Steam: 0.2MPa, 40kg/h
 Watering: steam drain inside



CLIENT NAME	DRAWING NAME	SCALE	DATE	DRAWING NO.
殿	Proton Defroster BF-3215(1U4truck) Standard drawing	1/30	2016/07/04	R160704-01



CLIENT NAME

殿

DRAWING NAME

Proton Thawing Machine

SCALE

1/15

DATE

2016/09/13

DRAWING NO.

R160913-01

Defrost Machine Specification

Items	Specification
Application	Thawing system 500kg/batch
	※ Maintain high humidity and condensate steam on the product surface.
Thawing program	First step: frozen storage "0 ° C to -8 ° C" + timer holding Second step: frozen storage "15 ° C to 28 ° C" + timer holding Third step: frozen storage "15 ° C to 28 ° C" + timer holding Fourth step: refrigerated storage "-2 ° C. to 5 ° C."
Defrost time	Defrost time varies depending on the product.
Machine configuration	Insulation panel + decompression unit + refrigeration unit + control panel
Operation overview	Temperature controller 4 types, timer switching "Frozen storage + thawing ① + thawing ② + refrigerated storage"
External dimensions	reference other document
Insulation Panel	Urethane panel for refrigeration, inner surface SUS / outer surface color steel plate
Defrost unit	Frame SUS 304, door type punching rectification version Axial flow FAN: case SUS, feather AL, motor SUS coat Steam control: PID control by freezing machine continuous operation and steam proportional valve
Refrigeration unit	Steam piping: SUS 304 Outdoor unit: Refrigerant R 410 A, integrated air cooling condensing unit Unit cooler: case AL, copper tube fin (cation specification)
Control panel	Wall-hanging type made of copper plate
Option	Cart, punching tray, steam filter
Power Supply	Electricity: Power supply to indoor control panel and outdoor unit Steam: dry steam connection to the main unit Drainage: condensate drainage in the storage