



proton
EUROPE

www.proton-europe.com

CONGELADOR PROTON TU-300



proton
プロトングループ



RYOHO
FREEZE
SYSTEMS



proton
+DINING



enrich
food manufacturers, inc.

PROTON CAR
全国巡回!! プロトン号



Continuous : PROTON STRAIGHT FREEZER

Proton Freeze
Patent No 424693

Efficient Straight Freezer With Proton freeze function

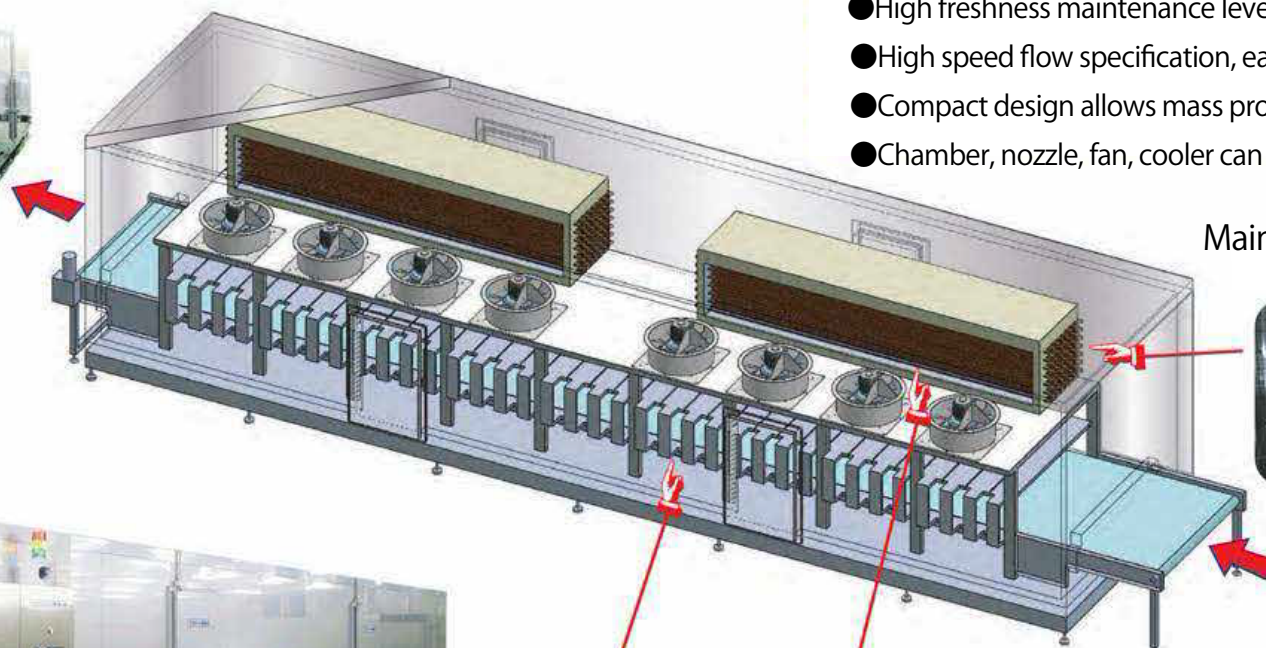
Freezing capacity
300kg/h ~

- High freshness maintenance level due to proton Freeze
- High speed flow specification, easy to clean design
- Compact design allows mass processing
- Chamber, nozzle, fan, cooler can be cleaned

Maintenance aisle
in the cabinet



Freezer exit



Freezer entrance



Blowout chamber



Cooler



300kg/h freezing Outline Specification

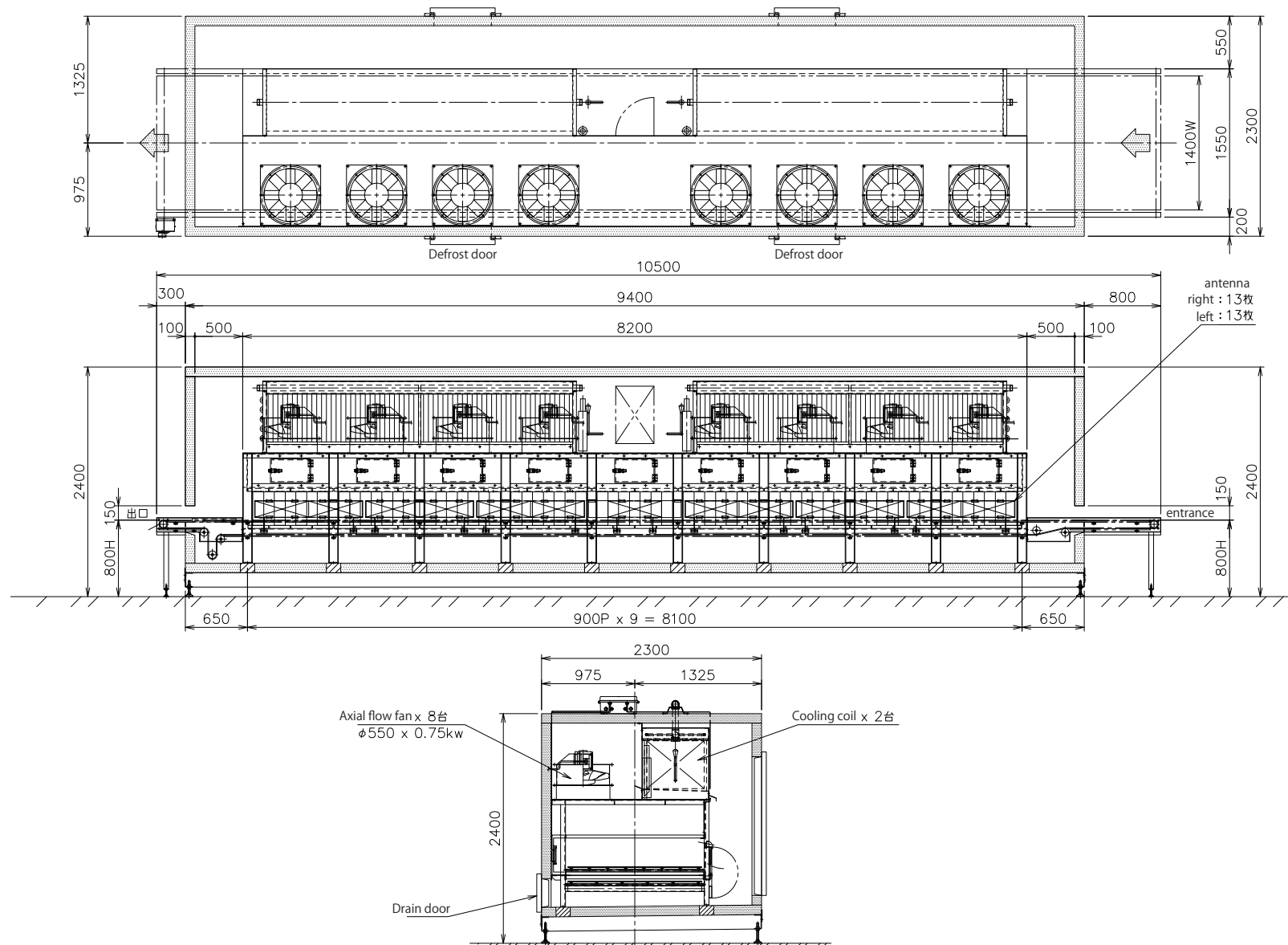
- External dimensions /
2300w*10500L*(2400+)H
- Electrical /
3 φ 200V Main body(10kW) Exterior Unit(37kW)
- Water supply / 40A Waste water required
- Net size / Effective dimension 1400W x 9400L

TU-300 specification Document

Chapter	Specification
Standard specification	
Use	foodstuffs Continuous rapid-freeze device
Inside temperature setting	air blast method -35℃~-38℃
A temperature of foodstuffs	Standard value at first about 20℃ → -18℃
Throughput	300kg/h freezing
	It has the capability to freeze 300 kg per hour of food.
	Standard value The amount of moisture in food is made into 60%.
Freezing time	depending on food ,foods size ,properties of matter
	Please check a standard by a prior test.
Standard capacity	Belt conveyor size 1400x9400
	(It is necessary to confirm whether the length of the conveyor is
	appropriate by setting the freezing time at the products.)
Dimensional outline drawing	Refer to attached sheet.
Conveyor spec	SUS304 1400W×9400L
	Speed adjustment 15 to 90 minutes
Transmitter sets	Transmitter amplifier and Antennas (complete set)
The set of "yoke unit mechanism"	Stainless steel cover structure
Main body	Main aggregate : SUS304
	heat insulator : Urethane panel facebar ; SUS304
Freezing machine	R404A、"integrated air cooled type condensing unit"
	(installed outdoors)
Coolig fan	SUS blower
Coolig machine	copper pipe , copper fin , Casing SUS , water spray defrost metho
Continuous operation hours	8 hours
Defroster system	watering method
Various standards	Safety standards and electricai atandards in Japan
Main body weight	about 12000kg
Equipment work	
Electrical equipment and water supply and drainage of factory structure	Electric supply to a main body and an exterior unit (freezer)
	※see annex flow sheet
Water supply	0.2MPa、200L/min Please connect
Electricity	Electric supply to a main body and an operator control panel
	rated power : 10kW (3Φ 200V)
	Electric supply to an exterior unit (freezer)
	rated power : 37kW (3Φ 200V)
Drainage	A watering defroster is performed from a front door of main body.



RYOHO FREEZE SYSTEMS. CO.



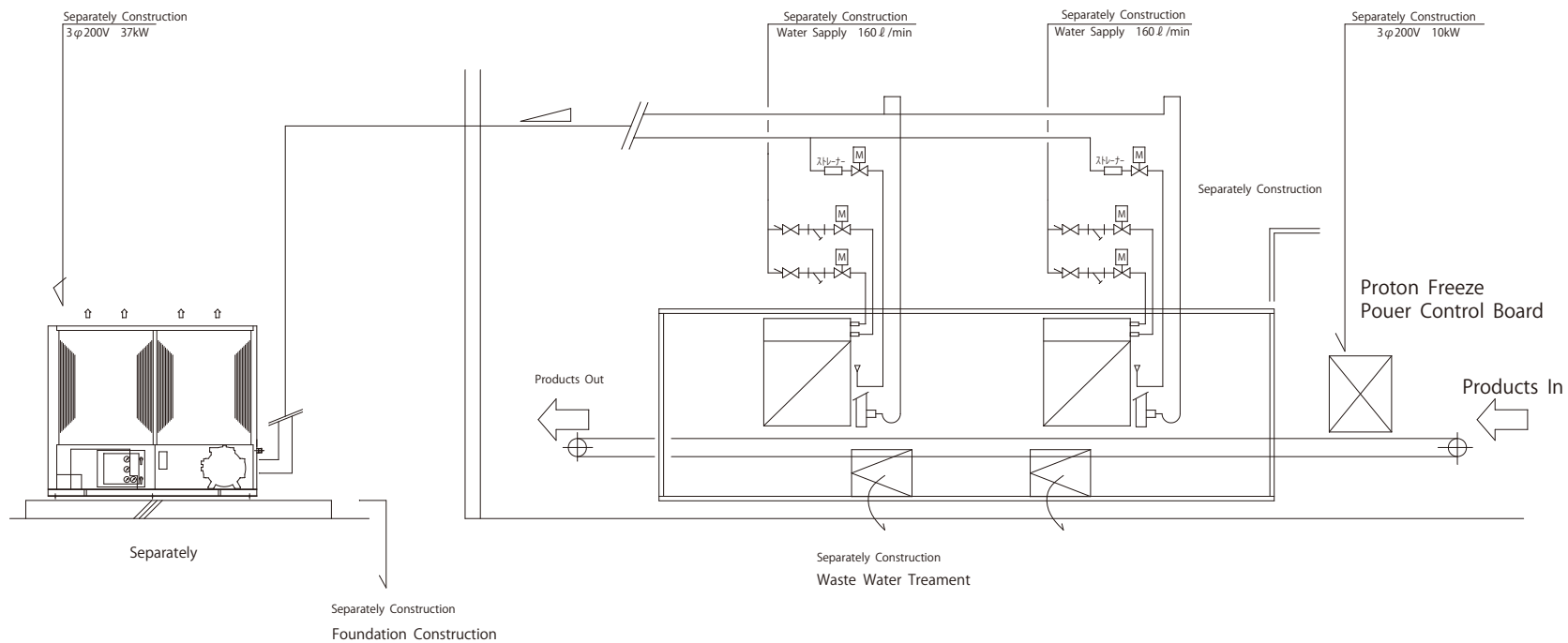
CLIENT NAME

DRAWING NAME
Proton Machine straight 300type Dimensions

SCALE
1/40

DATE
2015/05/23

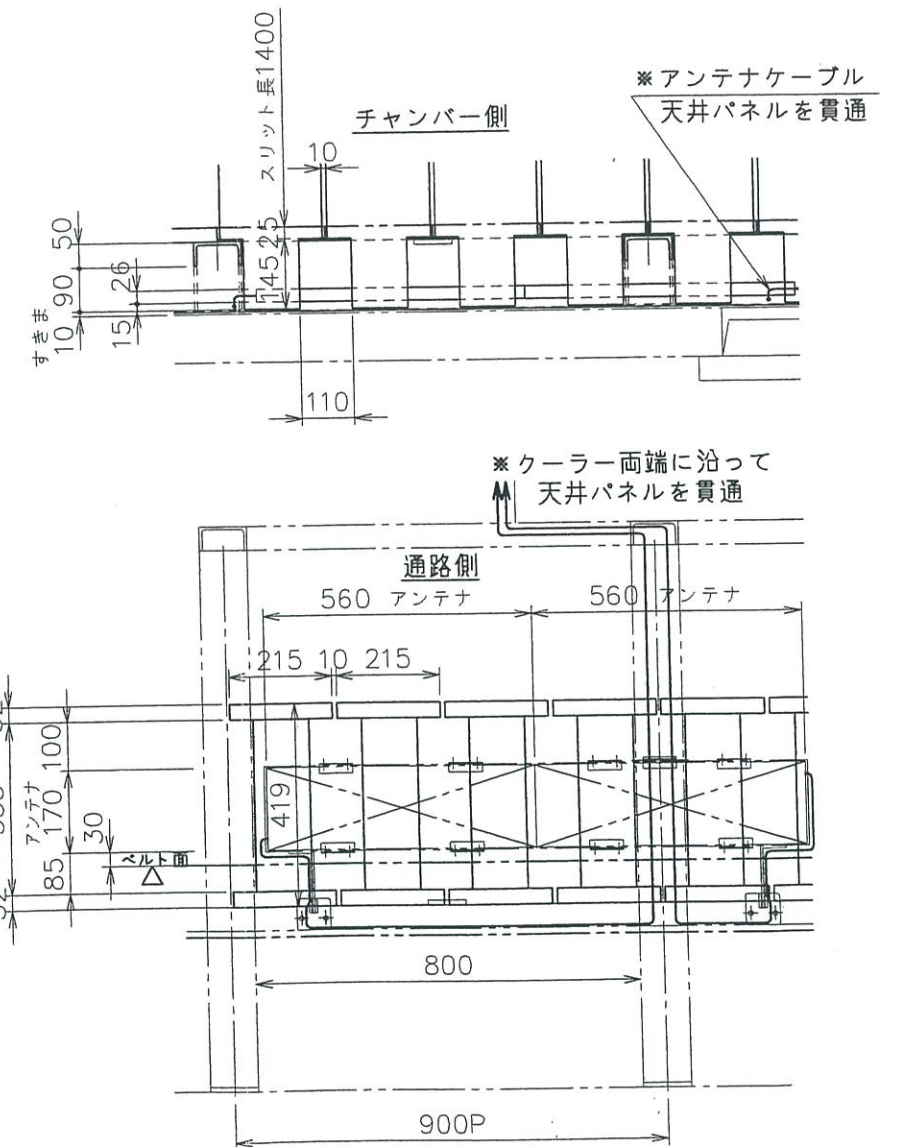
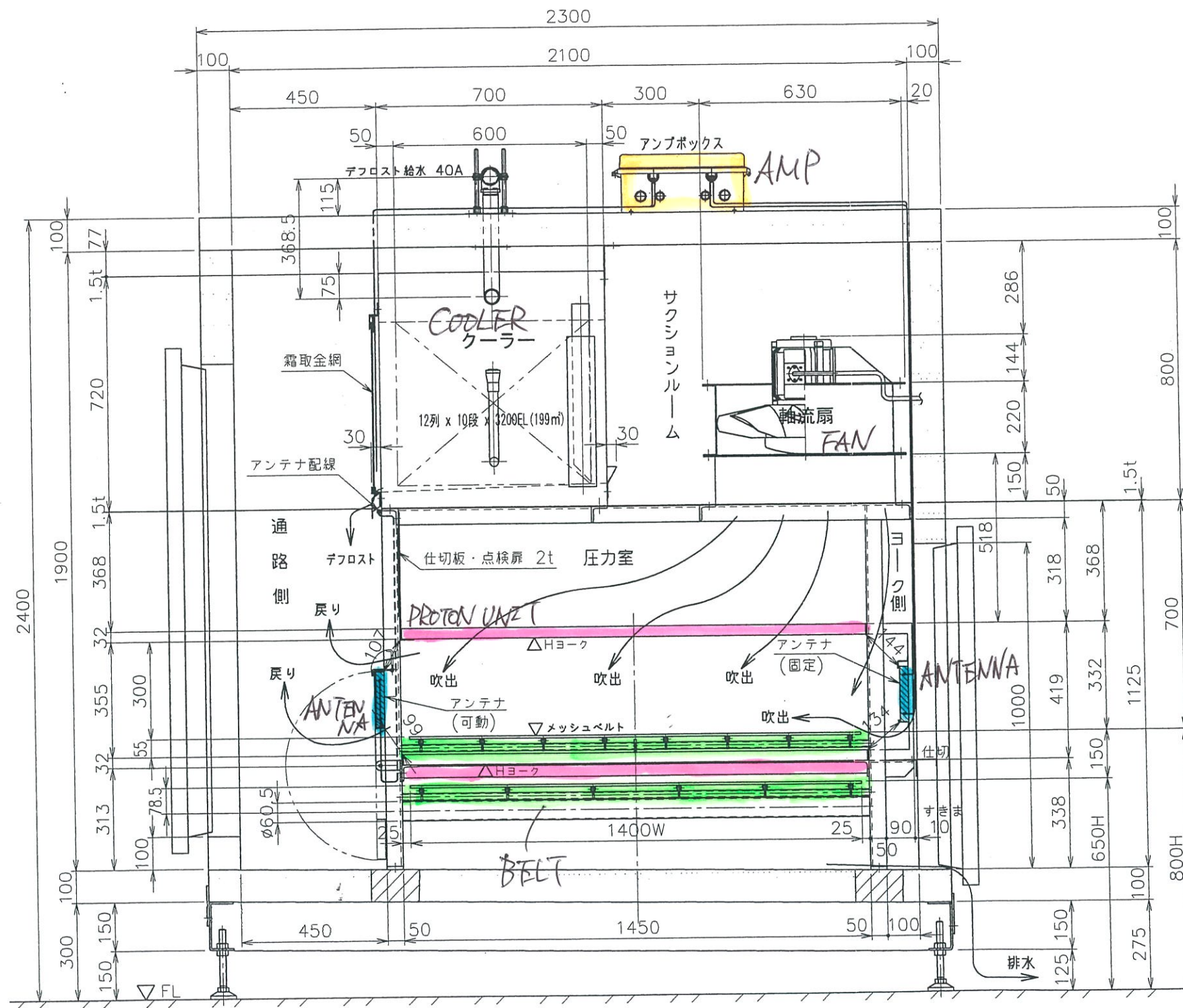
DRAWING NO.
PRT-14090M-300F-01



CLIENT NAME	DRAWING NAME	SCALE	DATE	DRAWING NO.
	Proton Freeze TU300type	N T S	H 2 8 . 1 . 3 0	

MAGNET UNIT
Belt

ELECTRO MAGNETIC WAVE ANTENNA
AMPLIFIER



CLIENT NAME

殿

DRAWING NAME

プロトン凍結トンネル PRT-300型 断面図

SCALE

1/15

DATE

2015/10/10

DRAWING NO.

PRT-14090M-300F-02C