



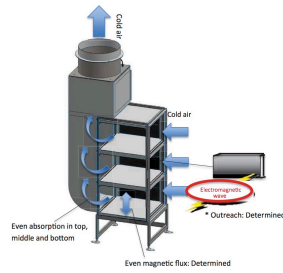
proton
EUROPE

www.proton-europe.com

CONGELADOR PROTON REBORN

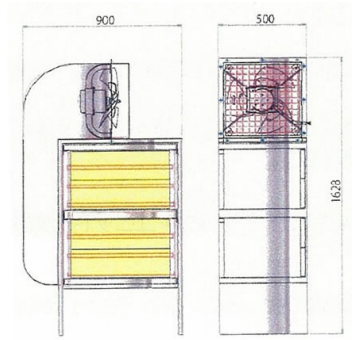
Producing even products : High quality

Various standards have been set for our proton freezer to produce stable food.



- (1) Maintains even and appropriate temperatures of cold air and economic wind velocity
- (2) Effective height to generate stable even magnetic flux is 350 mm or less.
- (3) Design for the outreach of electromagnetic wave.

Our proton freezer is patented.
Patent No. 4424963



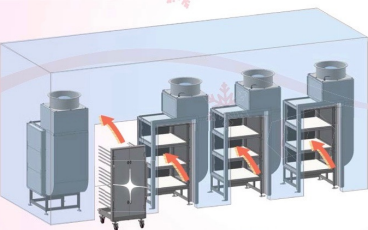
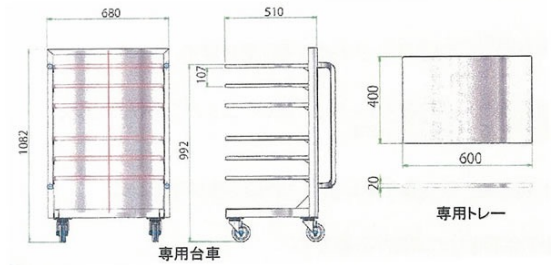
It is possible to utilize existing the refrigeration chamber.



Free space used for storage.



Effortless progress with special door



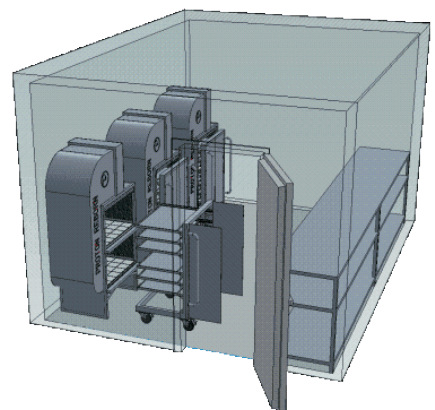
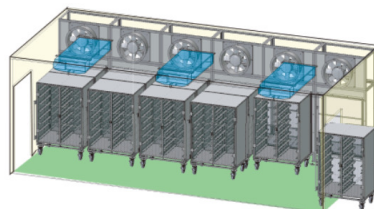
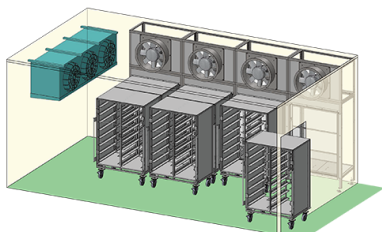
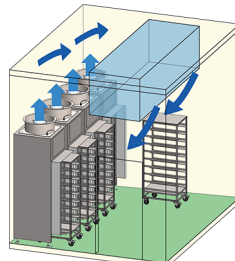
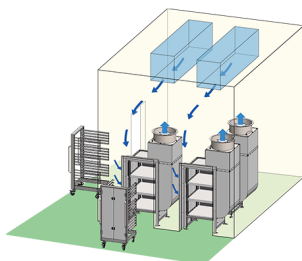
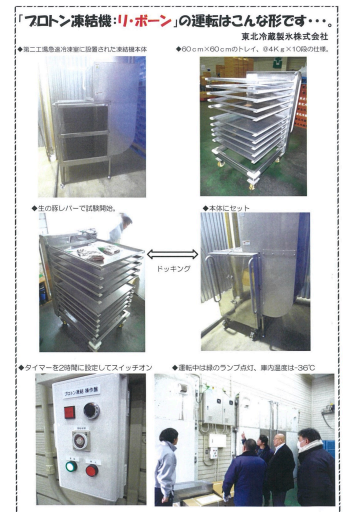
01 Mass freezing process is possible!

02 Low cost!

03 Trucks type makes operation easier!

Freezing capability is possible up to about 300 kg / h

Whether existing or new



Proton Machine

Re • Born

Regenerate your freezing device



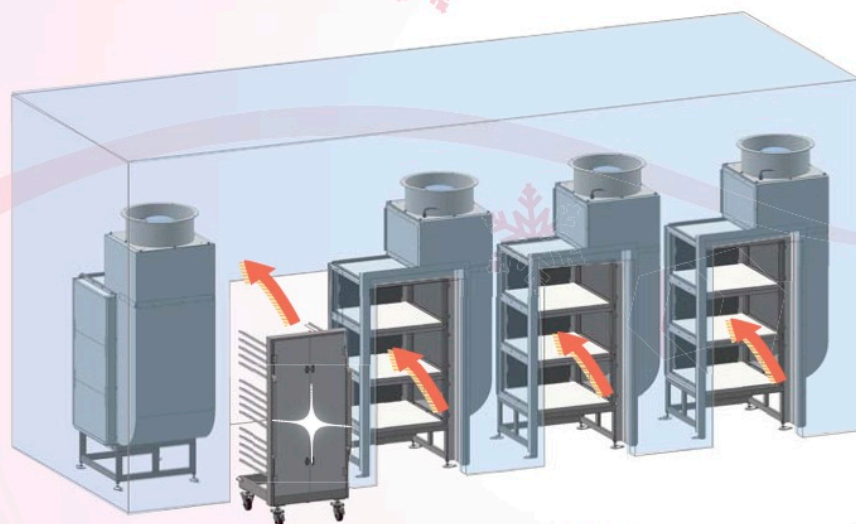
It is possible to utilize existing the refrigeration chamber.



Free space used for storage.



Effortless progress with special door



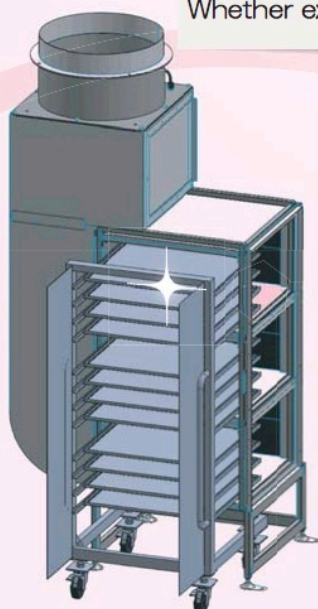
Whether existing or new

01 Mass freezing process is possible!

02 Low cost!

03 Trucks type makes operation easier!

Freezing capability is possible up to about 300 kg / h



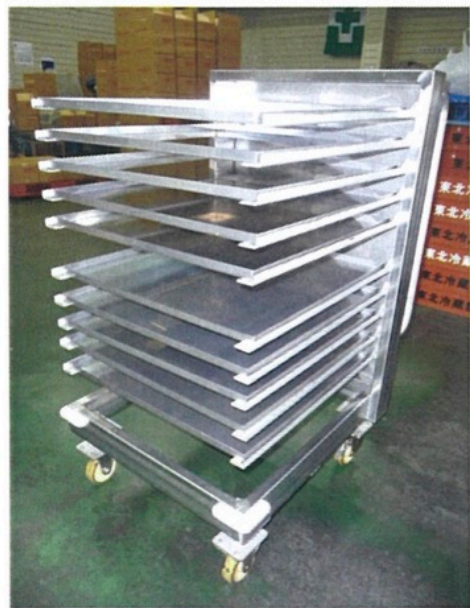
「フロン凍結機:リ・ボーン」の運転はこんな形です・・・。

東北冷蔵製氷株式会社

◆第二工場急速冷凍室に設置された凍結機本体



◆60cm×60cmのトレイ、@4Kg×10段の仕様。



◆生の豚レバーで試験開始。



◆本体にセット



ドッキング

◆タイマーを2時間に設定してスイッチオン

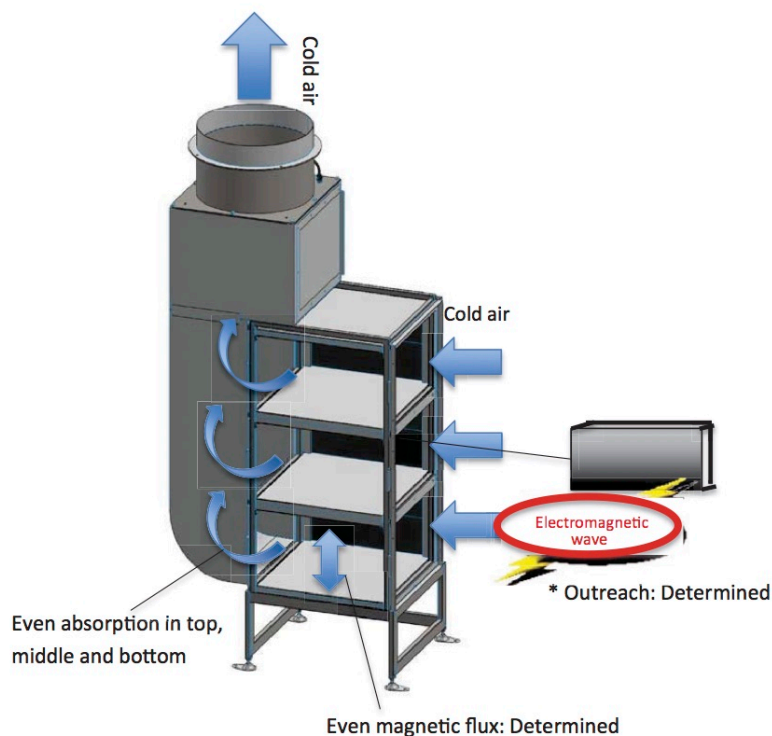


◆運転中は緑のランプ点灯、庫内温度は-36℃



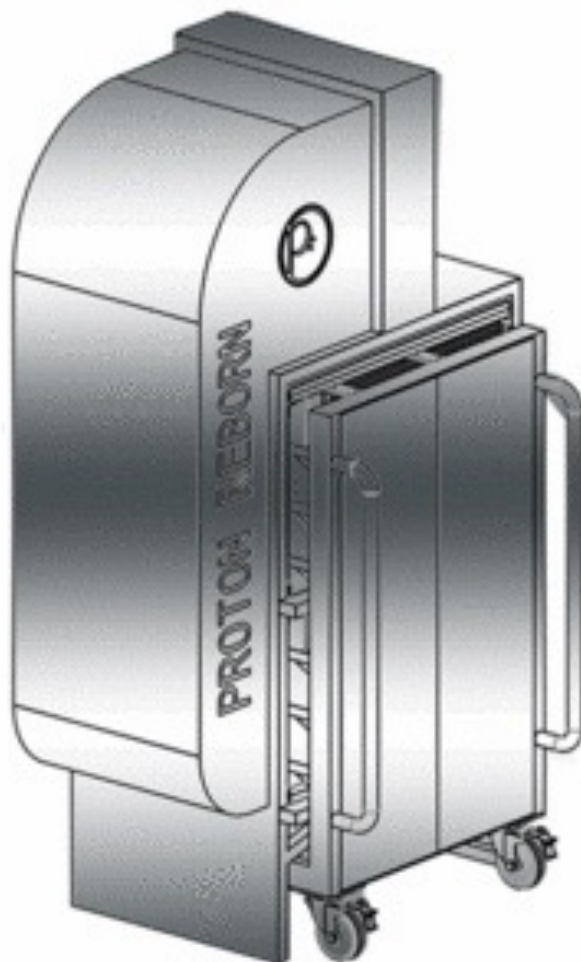
Producing even products : High quality

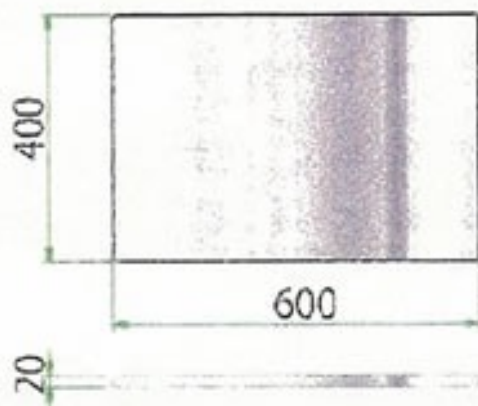
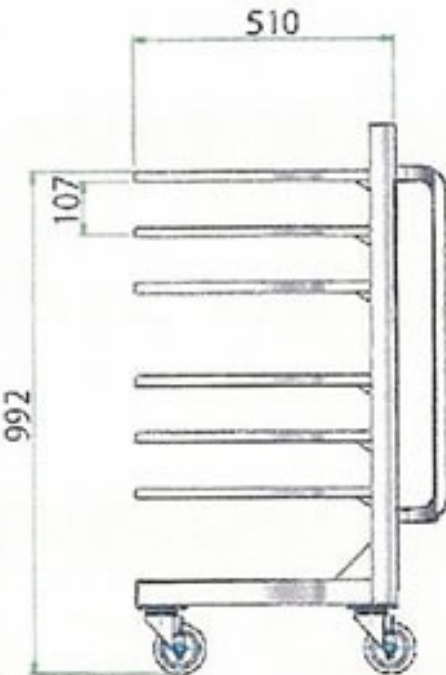
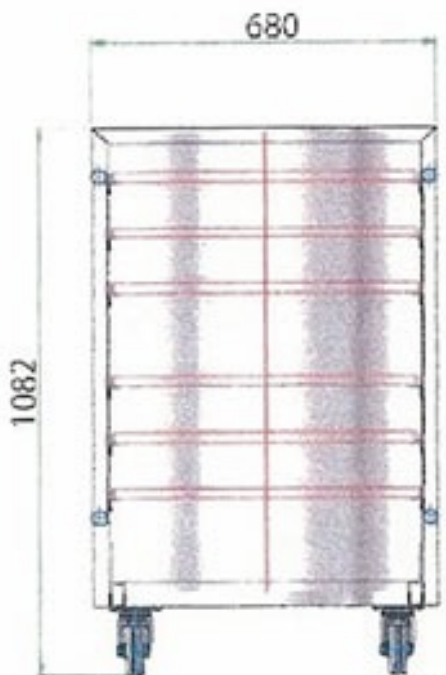
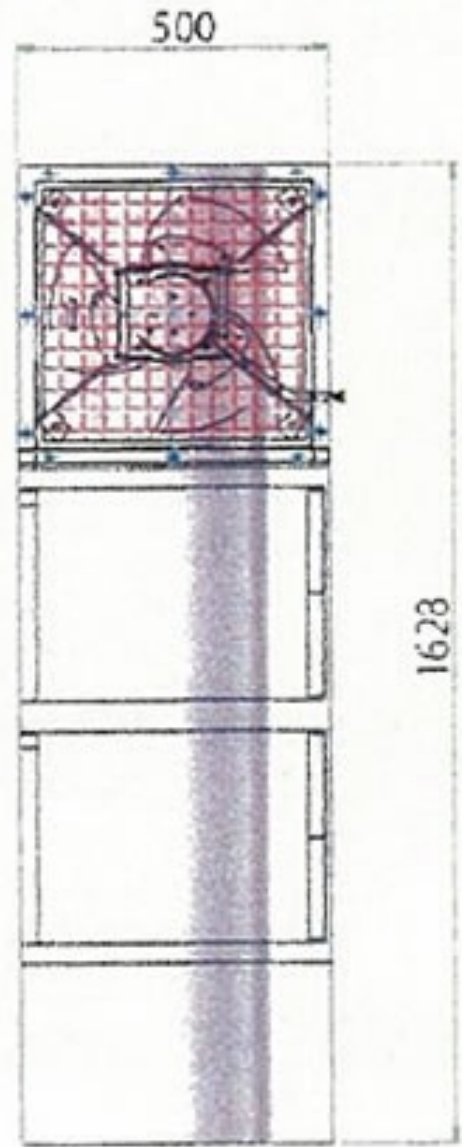
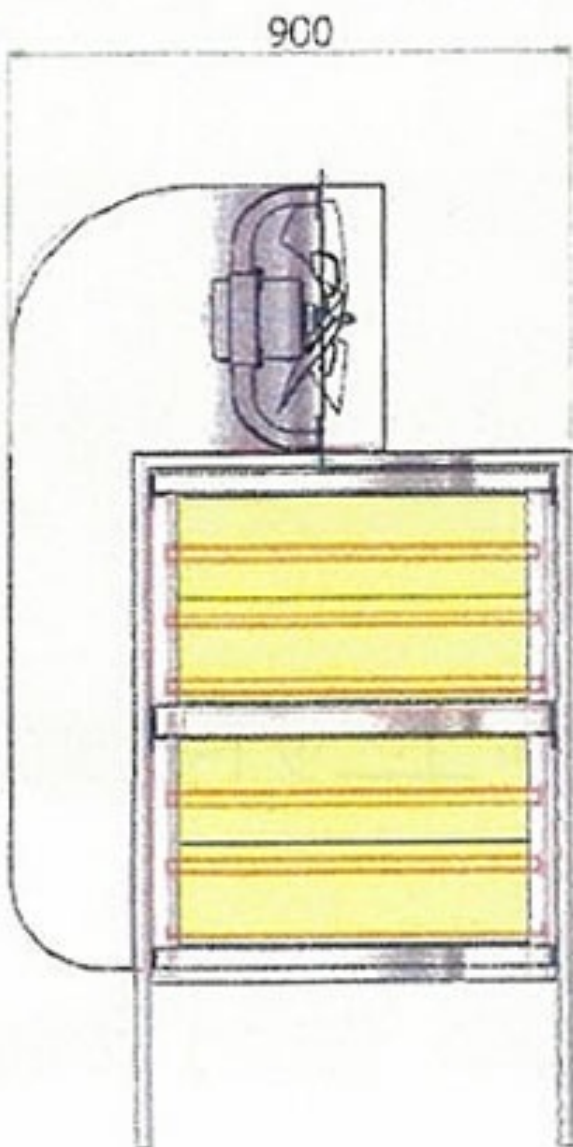
Various standards have been set for our proton freezer to produce stable food.



- (1) Maintains even and appropriate temperatures of cold air and economic wind velocity
- (2) Effective height to generate stable even magnetic flux is 350 mm or less.
- (3) Design for the outreach of electromagnetic wave.

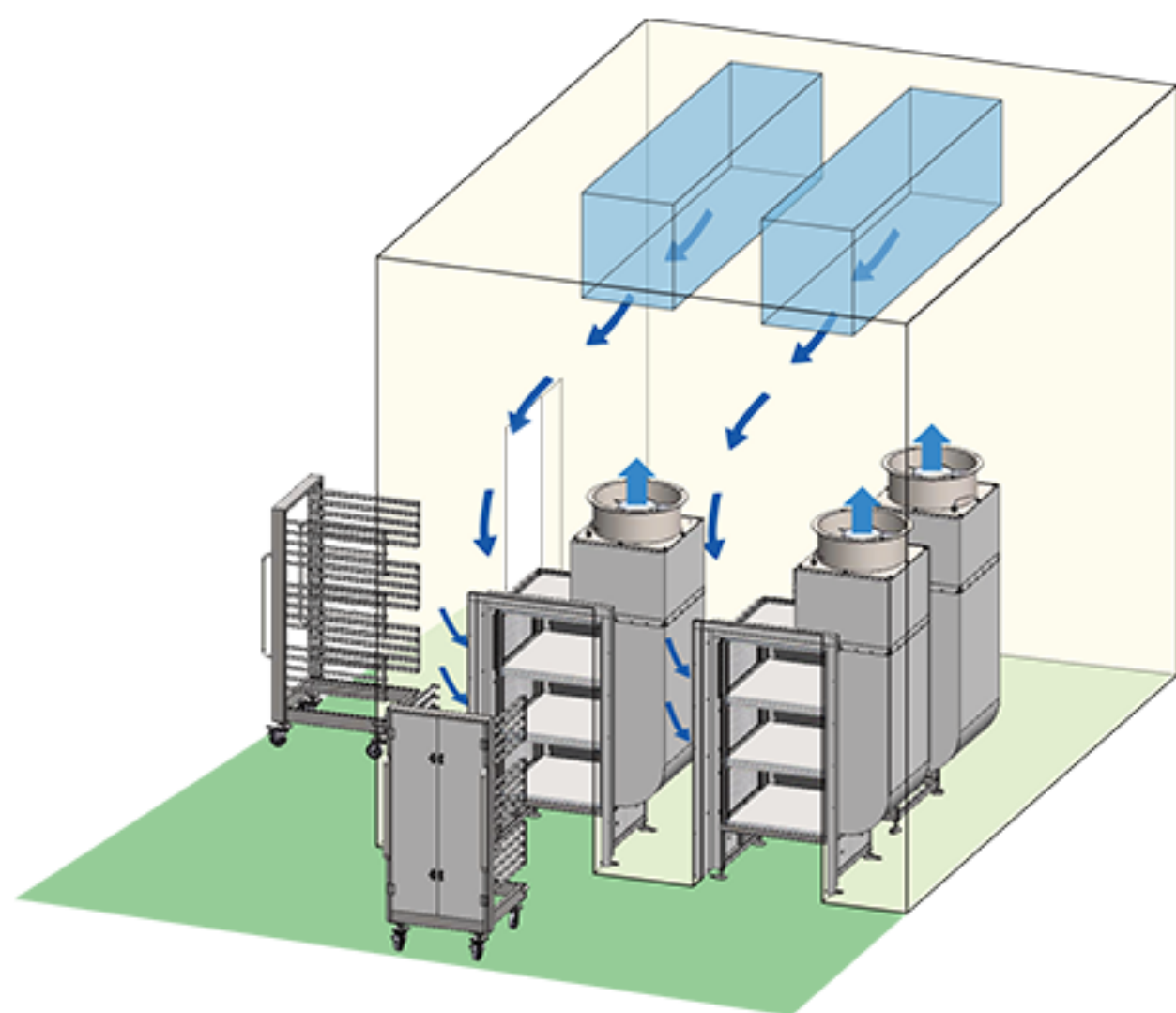
Our proton freezer is patented.
Patent No. 4424963

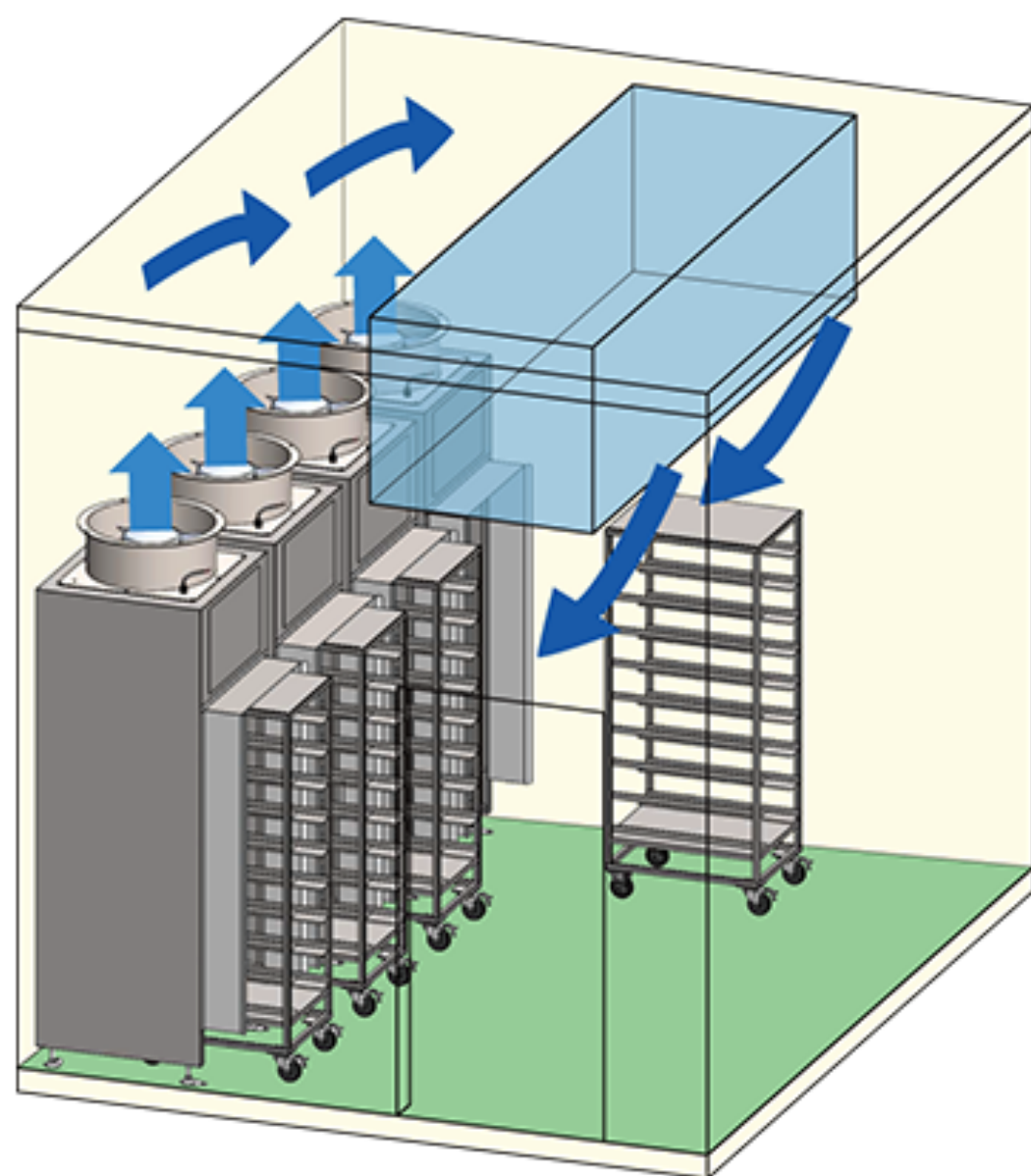


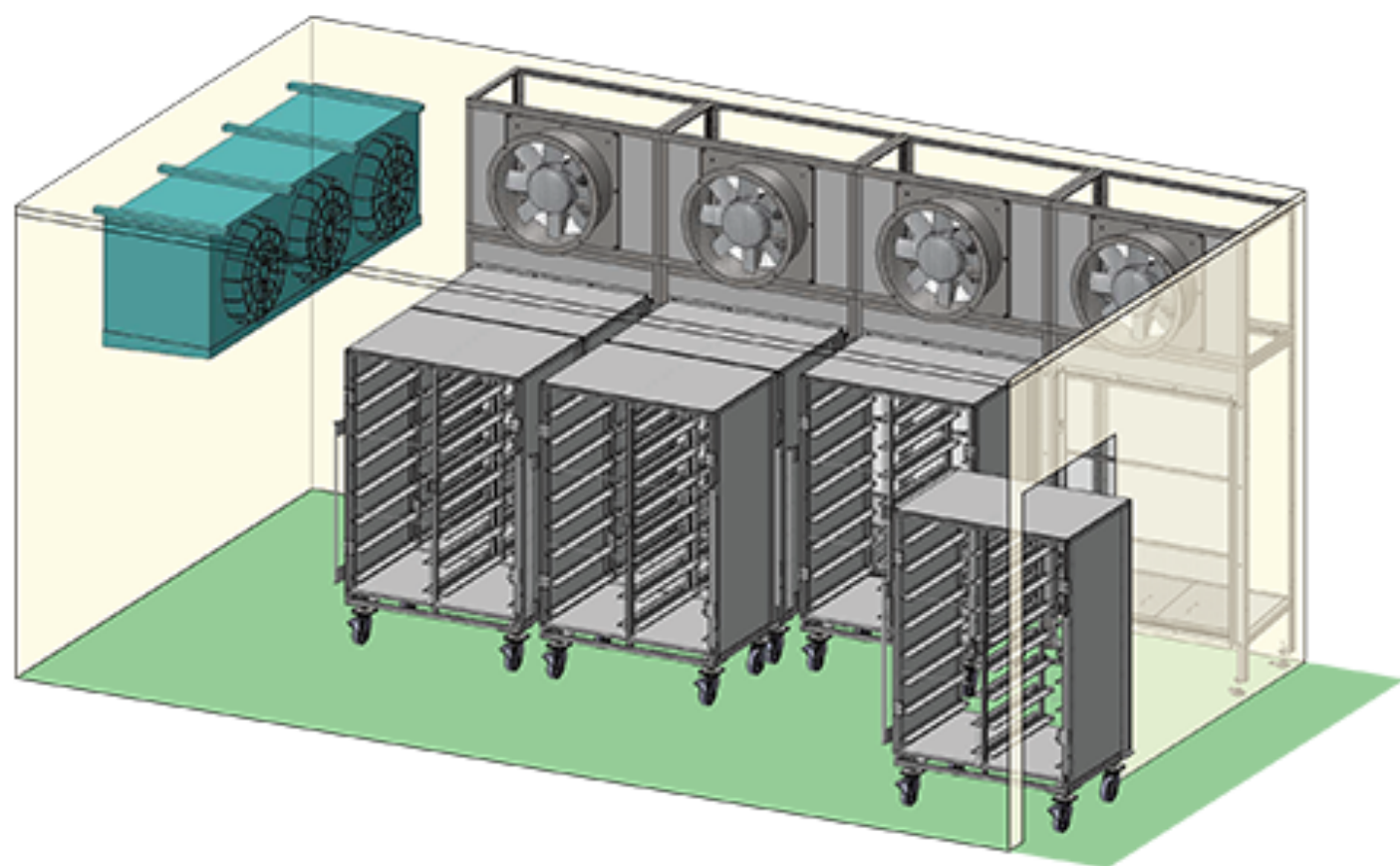


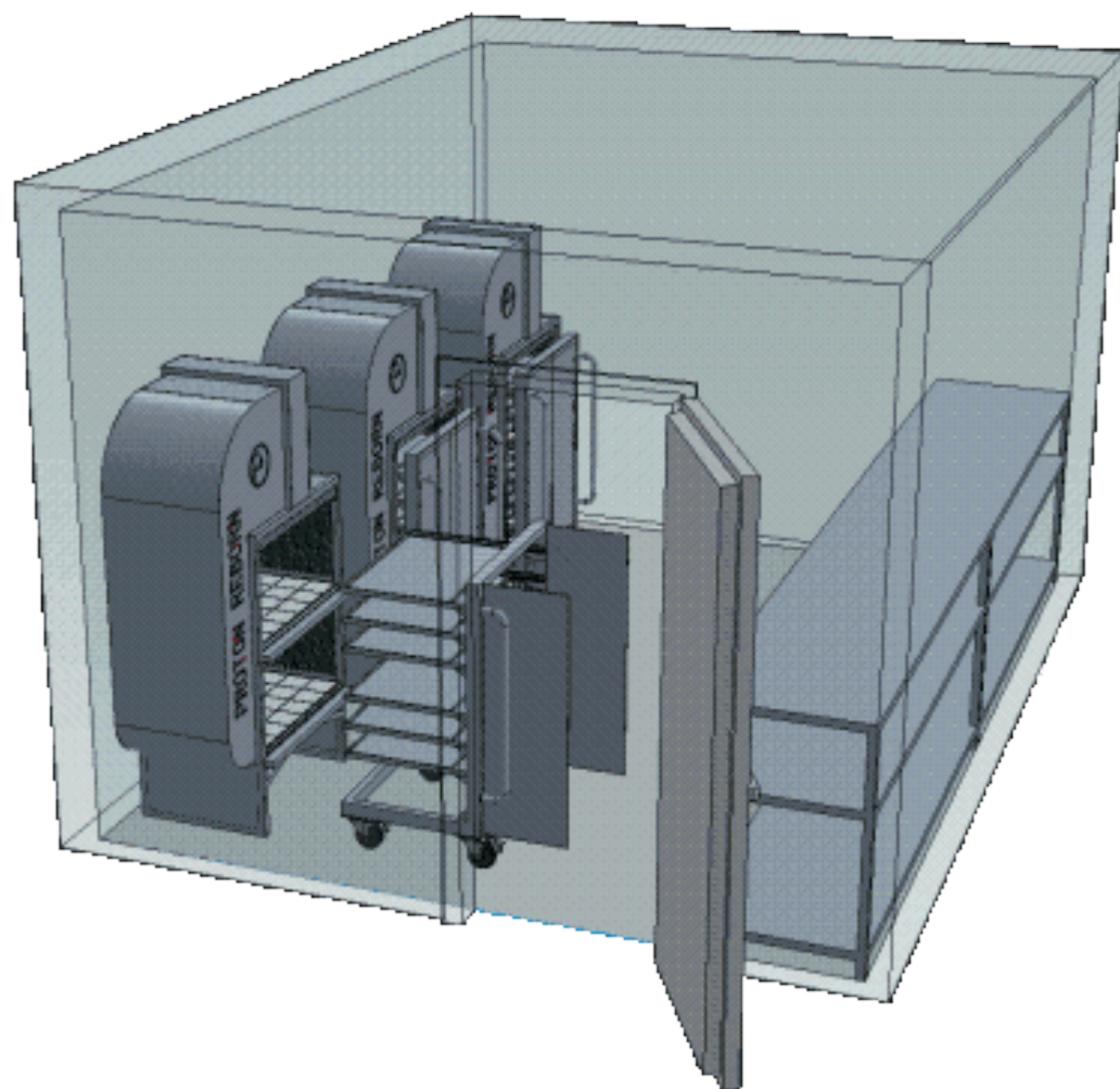
専用台車

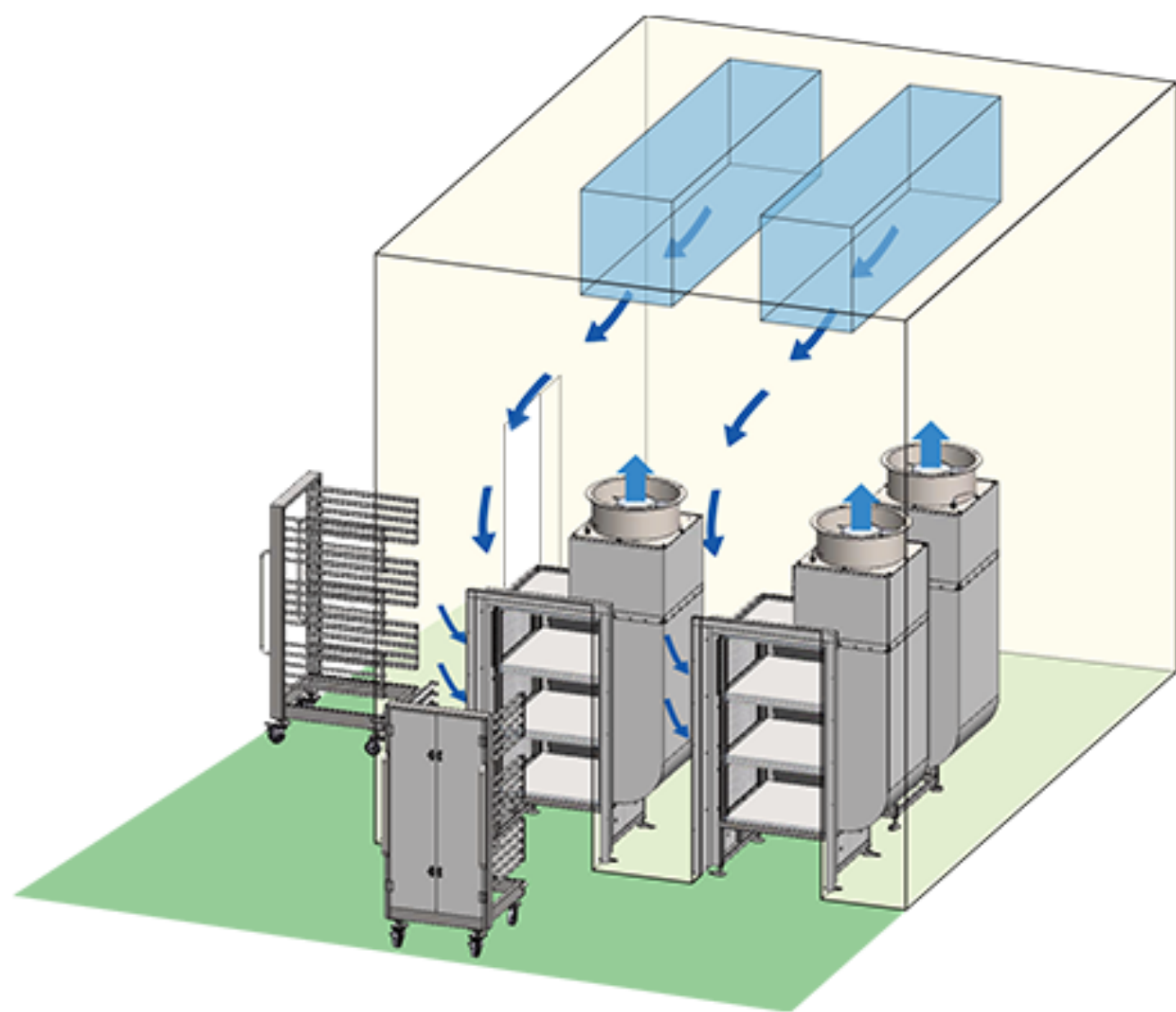
専用トレイ

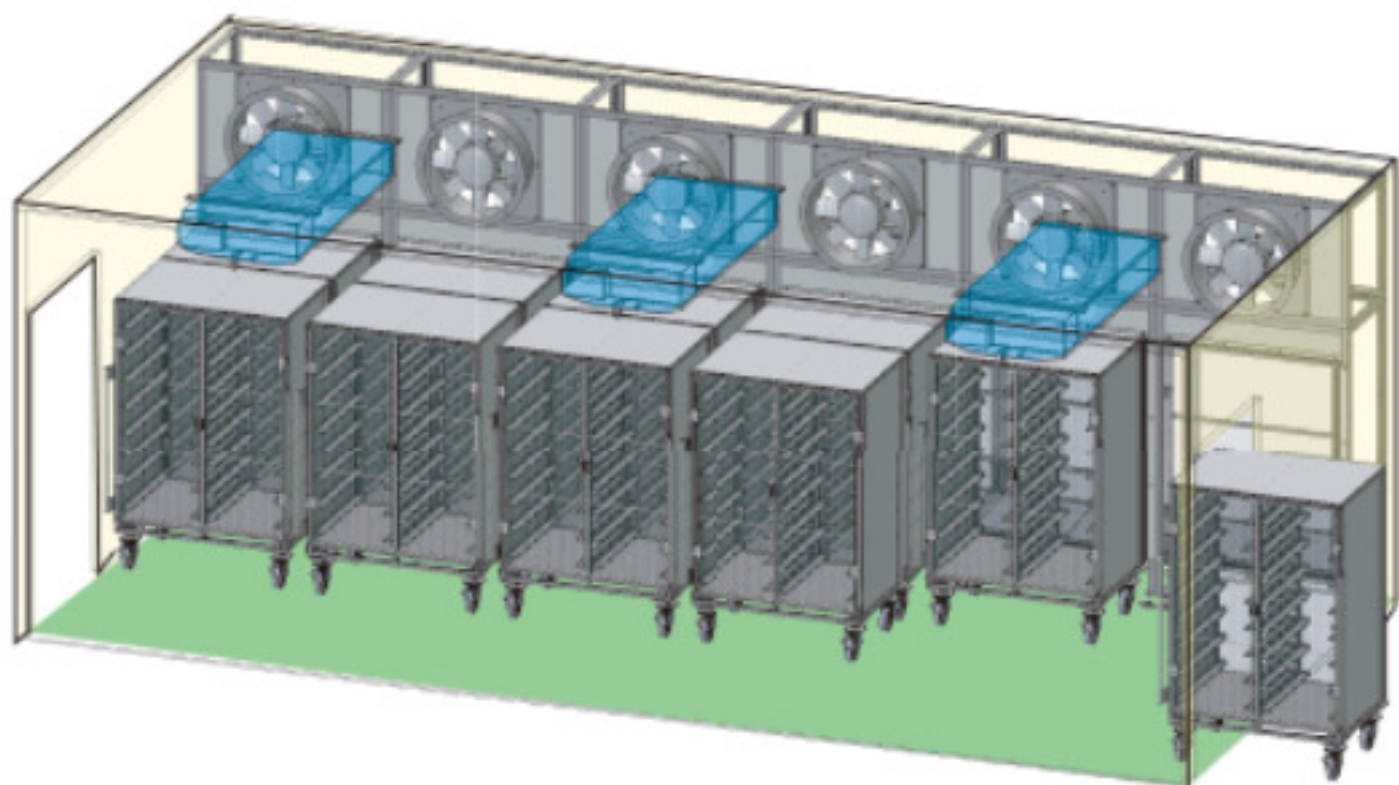


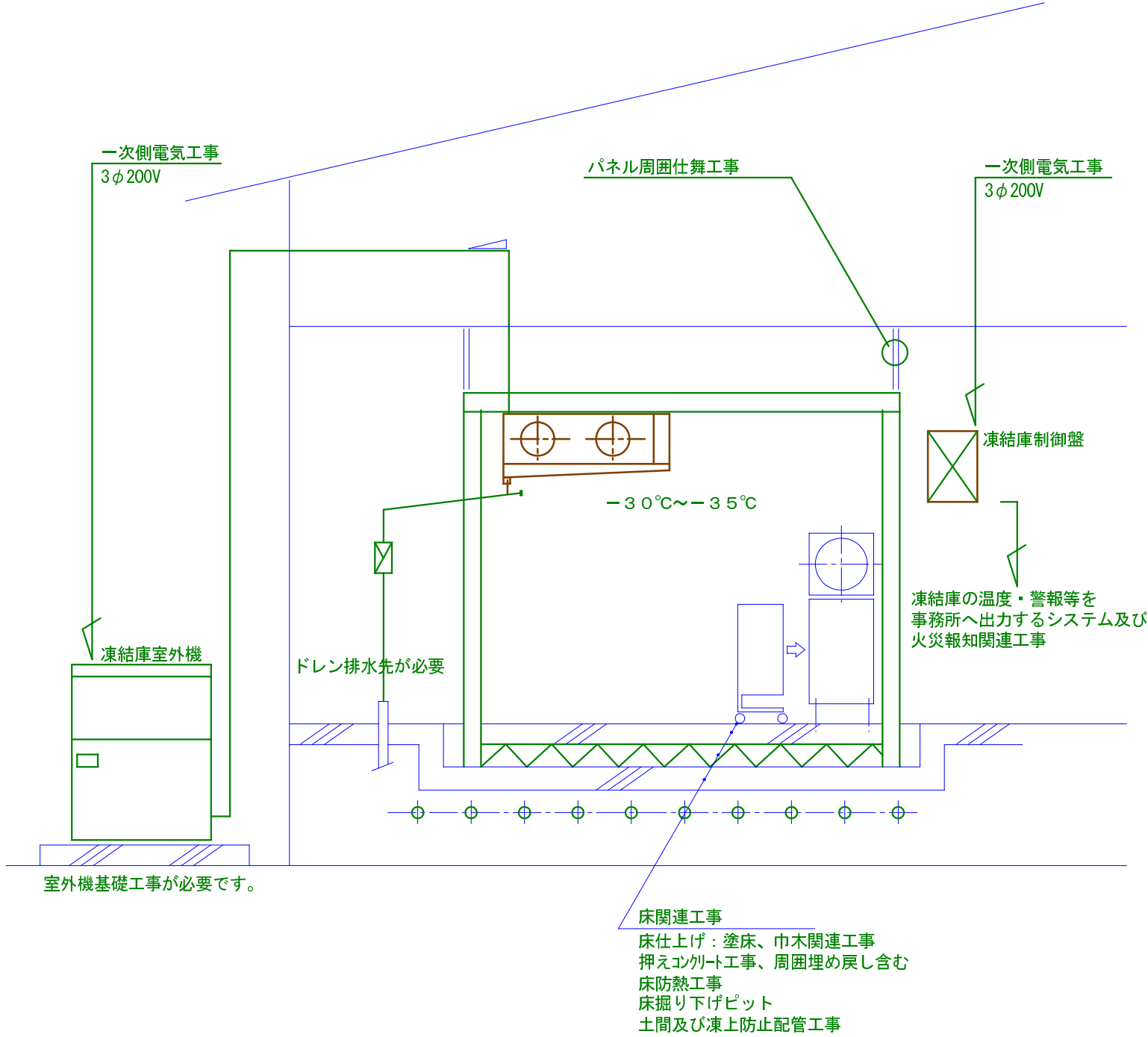






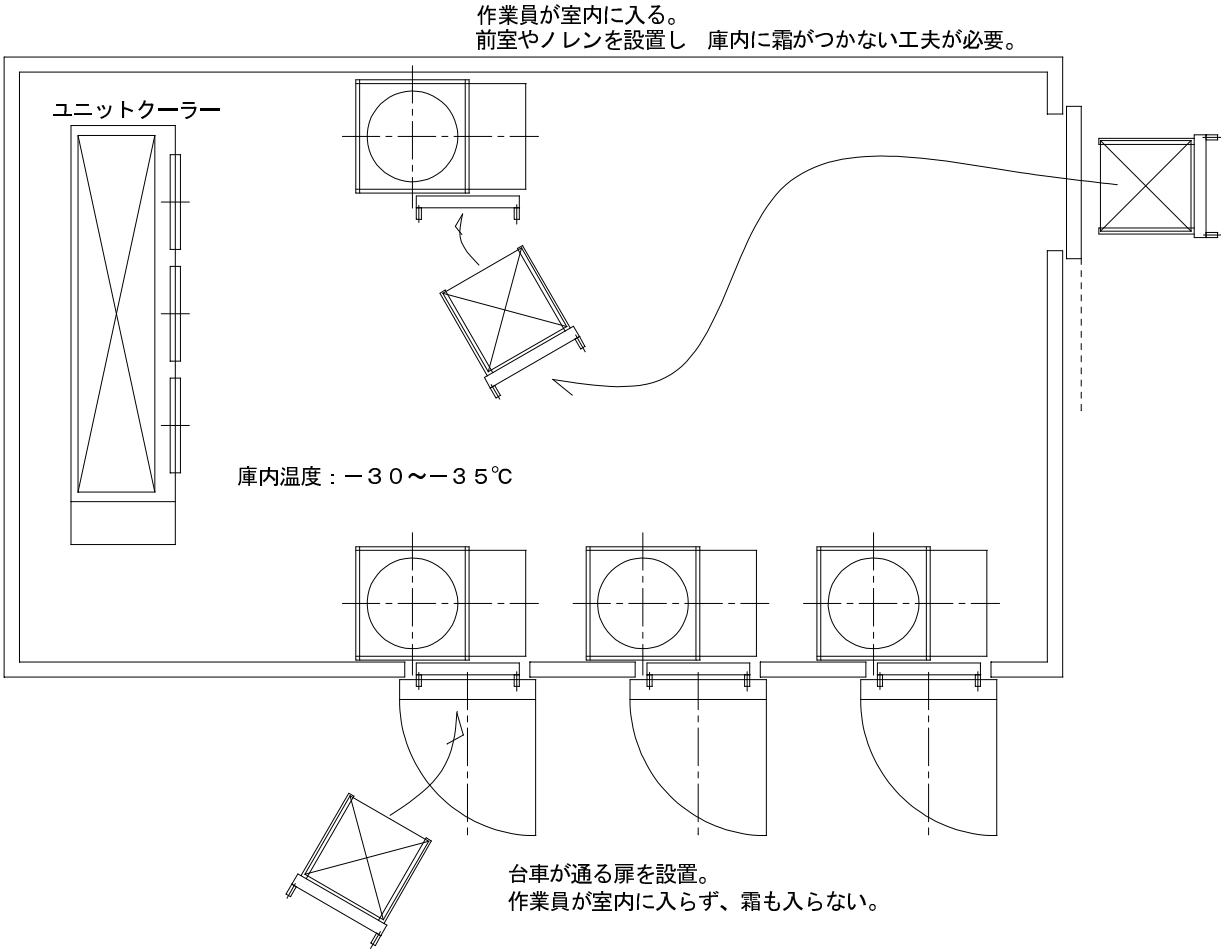






システム構成

ユニットクーラーの下にはリボーンを設置しないほうが良い。



配置案

※詳細設計時、仕様を変更する場合があります。

CLIENT NAME

打ち合わせ 資料

DRAWING NAME

プロトン凍結機 台車式 リボーン

SCALE

NTS

DATE

H25. 9. 29

DRAWING NO.

システム構成及び配置案

Re-born Specifications

Item	Specifications
Re-born Unit	<p>The inside temperature is managed by the "freezing panel unit".</p> <p>It circulates the wind to loading foods by the "Re-bone unit."</p> <p>The environment is a "uniform magnetic flux + electromagnetic waves" capable of high-quality frozen.</p>
Application	Rapid Freezing Equipment for Foodstuff
Inside Temperature of Freezer	<p>Air Blast Method -30 to -35 degreeC</p> <p>※ It is recommended to keep less than -30 degreeC in order to secure the proton freezing feature.</p>
Temperature of Foodstuff to be loaded	Approx 20 degreeC to -18 degreeC as criteria
Freezing time	<p>Varied according to dimension, allocation, characteristics.</p> <p>※ Freezing environment is guaranteed: suitable freezing condition for airflow and proton environment.</p> <p>※ It is recommended to confirm how long it takes to freeze and foods' quality at pre-testing.</p>
Capacity	<p>Nominal 77kg @ 1 loading cart</p> <p>※ Loadable amount is separately proposed based on reference food size and weight.</p> <p>Estimated freezing capacity is submitted with calculation as reference.</p> <p>※ Please discuss with contractors according to required capacity.</p>
Re-born Unit (quantity of unit to be installed)	Refer to the proposal for qty of Unit, Loading Cart, Tray
Proton Configuration (per unit)	<p>Core Spec : SUS304, 600W600D350H, Top/middle/bottom 3 stages</p> <p>Necessary amount of oscillation amplifier and Antenna included</p> <p>Average air flow at food-loading area : 2.5m/s</p> <p>Air blower : 3Φ200V 0.75kW ※ It is an axial flow fan.</p> <p>Specifications: wings aluminum, case SUS, motor SUS Coat</p>
Dedicated cart	"600W × 600D × (350H actual number specified separately)" × "2-stage or 3-stage", made by SUS304, Cantilevered dedicated cart
Control panel (steel plate)	<p>It divided the operation unit and distribution board.</p> <p>Re-born unit has ON / OFF switch per unit, ex timer / buzzer.</p>
Freezing panel unit	<p>Not included, please discuss with the contractors with consideration of thermal load.</p> <p>※ Attached please refer to a precaution at the time of Re-bone installation.</p>
Utility (Primary side)	Please prepare the power supply to the distribution board.
Electricity	<p>Re-born : 3Φ200V 1.5kW per unit.</p> <p>※ does not include for refrigeration unit.</p>
Water Supply	It is convenient if there is a hose for cleaning the equipment.
Drainage	<p>It is convenient if there is a drainage for cleanint the equipment cleaning.</p> <p>The drain for Refrigeration unit (additional) construction is required.</p>



