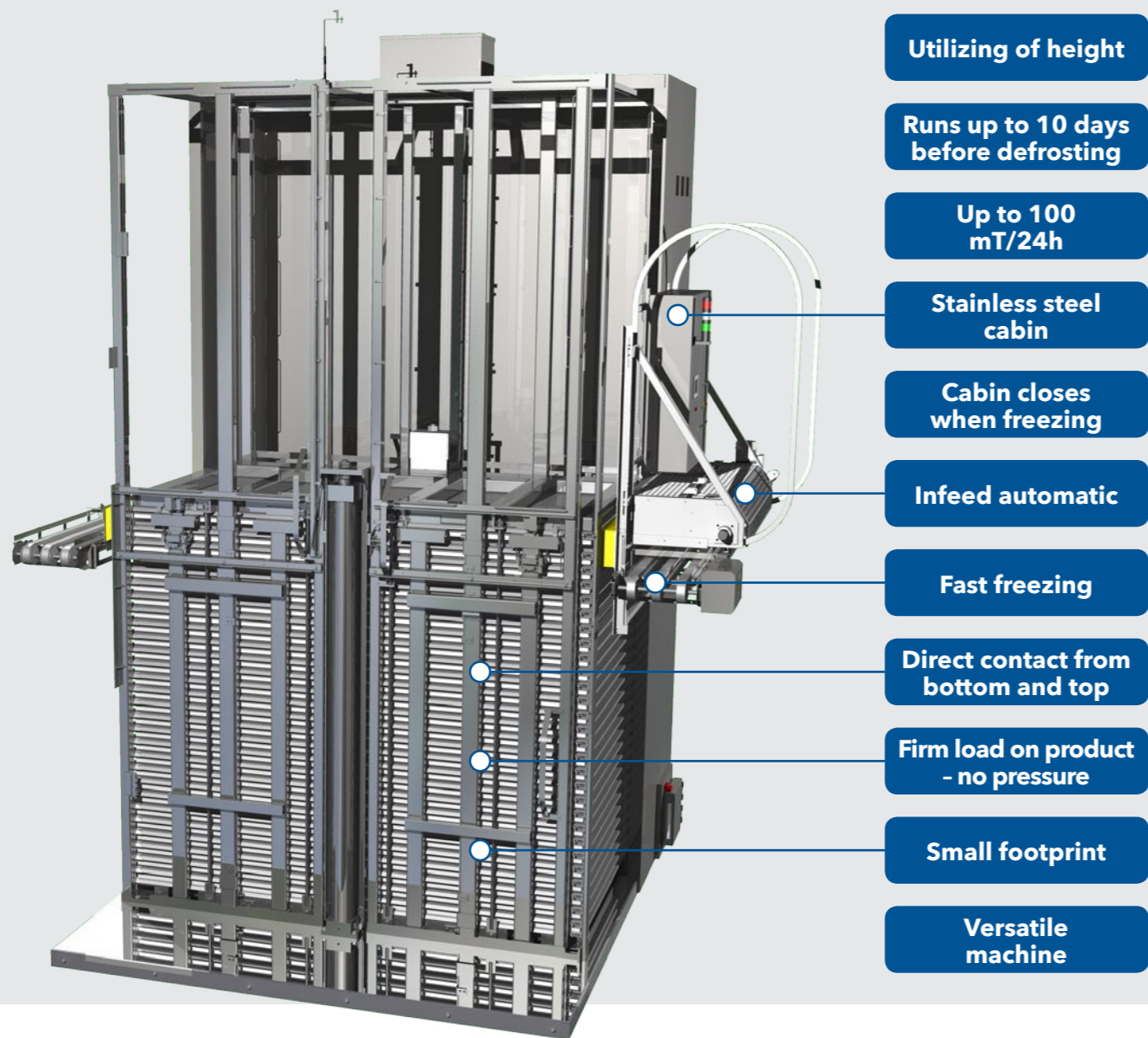


# Automatic Contact Freezer

- No need for a forklift
- Minimizes manual labour
- Increases production
- Reduces floor space usage
- Utilizes factory height

 SKAGINN 3X





- Utilizing of height
- Runs up to 10 days before defrosting
- Up to 100 mT/24h
- Stainless steel cabin
- Cabin closes when freezing
- Infeed automatic
- Fast freezing
- Direct contact from bottom and top
- Firm load on product - no pressure
- Small footprint
- Versatile machine

**Plastic tray with lid and ID tag**  
Product thickness varies

**Solid board products**  
Product thickness: 100 mm  
Freezing time around 360 minutes

**Ready meals**  
Frozen without pressure  
Freezing time from 20 minutes

**Minced products**  
Product thickness: 64 mm  
Freezing time around 240 minutes

**Packed products**  
Product thickness: 75 mm  
Freezing time around 200 minutes

**Thin cardboard packed products**  
Product thickness: 64 mm  
Freezing time around 240 minutes

**Efficient freezing**  
The Skaginn 3X contact freezer keeps a subtle load without pressure on the product. When the product expands, the plate gap increases enabling the product to freeze simultaneously from the bottom and the top. This maximizes the product quality with minimal freezing time.

**Capacity**  
An individual freezer can freeze up to 100 mT of fully frozen product at -18°C. This means that large capacities can be serviced by only a few automatic platefreezers from Skaginn 3X.

**Save electricity**  
Fully closed cabin, fast freezing and direct contact to the product increase refrigeration systems efficiency. Skaginn 3X has maximised those features and provides probably the most efficient freezer on the market.

**Floorspace**  
The Skaginn 3X contact freezer utilizes the floorspace and height efficiently. The contact freezer can be tailor-made to fit into small spaces and therefore optimizing the factory facility. The contact freezer is also ideal for trawlers and other vessels due to the relatively small footprint and usage of height.

Choose your standard size for land\*

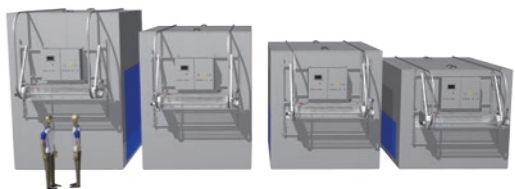
|                        | 5XL         | 4XL  | 3XL  | 2XL  | XL   | L    | M    | S    |
|------------------------|-------------|------|------|------|------|------|------|------|
| Height                 | 6150        | 5650 | 5150 | 4650 | 4150 | 3650 | 3150 | 2650 |
| Standard width for all | 4290        |      |      |      |      |      |      |      |
| Standard depth for all | 4820 (3705) |      |      |      |      |      |      |      |

\* Skaginn 3X can supply other sizes

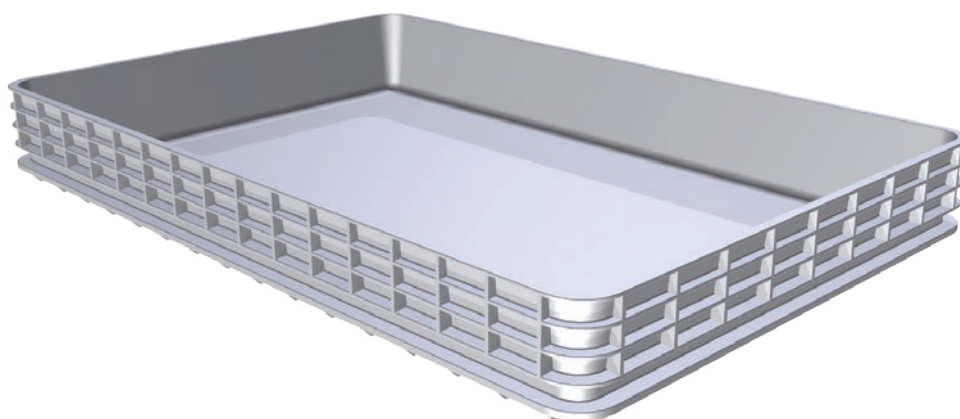
Choose your standard size for vessels\*

|                        | XL          | L    | M    | S    |
|------------------------|-------------|------|------|------|
| Height                 | 4150        | 3650 | 3150 | 2650 |
| Standard width for all | 2902        |      |      |      |
| Standard depth for all | 4820 (3705) |      |      |      |

\* Skaginn 3X can supply other sizes

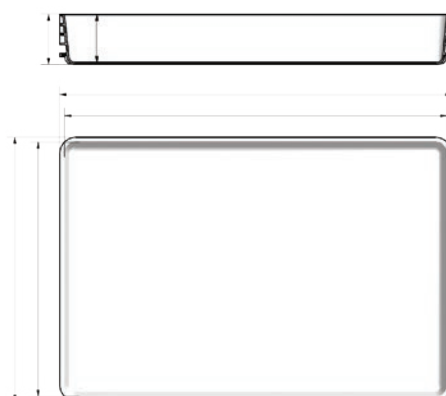



## Trays for soft and difficult products



### Standard trays


| Volume | A   | B   | C   | D   | E   | F   |
|--------|-----|-----|-----|-----|-----|-----|
| 9,5    | 462 | 448 | 375 | 361 | 63  | 60  |
| 9,7    | 535 | 520 | 335 | 320 | 63  | 60  |
| 13,8   | 560 | 545 | 435 | 420 | 65  | 62  |
| 14,3   | 590 | 583 | 440 | 423 | 62  | 59  |
| 14,3   | 570 | 561 | 450 | 435 | 63  | 60  |
| 17,1   | 610 | 595 | 410 | 395 | 78  | 75  |
| 22,7   | 610 | 595 | 410 | 395 | 103 | 100 |
| 25,0   | 598 | 584 | 404 | 390 | 116 | 113 |



 The designers, engineers and service personnel at Skaginn 3X have been very resourceful, professional and helpful throughout the entire process, from design phase, installation and commissioning of processing equipment ensuring full operation of all equipment and processes. SVN has a long relationship with Skaginn 3X and chooses to work with them because they provide unique solutions and high quality equipment, and possess professional and knowledgeable service personnel.



- Jón Már Jónsson, Manager for land based operations SVN

 Their reputation for standing behind their solutions and commitments made them the ideal partner for developing this process solution. The automatic box freezer is an interesting solution for the pelagic fish industry. The box freezer has higher heat transfer compared to a traditional air blast freezer. The main difference between the new automatic box freezer and traditional plate freezers is that the pressure on the product is minimised, which eliminates the risk of formation of



- Sigurjón Arason, Chief Engineer Matis