



ArcticStore™

User Manual for
Refrigerated Containers
Model: AB/AP/AS/CC/CE/DS

YOUR CONTAINER NUMBER

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1. Introduction

TITAN Containers (hereinafter TITAN) offers nationwide sale and rental of containers. In the following pages you will find the TITAN user manual for our ArcticStore™ refrigerated and freezer containers; model types AB/AP/AS/DS/CC/CE.

This user manual contains information regarding safety, the safe use of and safe working in TITAN refrigerated and freezer containers. Local regulations can vary. This manual is based upon meeting typical European health and safety working standards.

Our website, www.TITANcontainers.com/gb, has further information about the many container types and services offered by TITAN.

Please note that you can always find the most recent version of our ArcticStore™ user manual for refrigerated and freezer containers at TITANcontainers.com/gl/arcticstore-user-manuals

2. Contact details

Change all contact info to be local

Our contact details and office hours are indicated below.

CUSTOMER SERVICE

Mon-Fri 07:00-16:00

Phone (+44) 1375 396 456

Email GB@tcmail.eu

IN CASE OF OPERATING ISSUES OUTSIDE OF NORMAL BUSINESS HOURS

Refrigeration Technician

Phone 0000 0000

Additional contact details can be found on our website:

titancontainers.com/gb/contact

3. Unloading zone

It is your responsibility to:

- Ensure that the intended location for the container is suitable and that the area has been adequately prepared prior to delivery.
- Ensure that there are no overhanging power or phone cables, branches, signs, street lighting or any other hindrances which may hinder/impede the delivery of the container or cause a dangerous situation.
- Ensure the availability of a 380/440V electrical connection for 32AMP within max. 15 metres from the container refrigeration machine.

4. Delivery

Delivery normally takes place with either crane, tilt trailer or side loader.

During delivery it is your responsibility that:

- There is space for the delivery vehicle(s) to manoeuvre as required.
- Access ways are free both for unloading and loading, and that the surface is firm, level, and stable.
- There is adequate space for the driver to use safely deliver the container without hindrance, danger or delay.

5. About the container

Please make sure to notify your employees and all users of the containers of the following:

■ IMPORTANT

In case of break-down, keep the door closed! The container's insulation ensures that the temperature will be maintained for several hours, provided that the doors are kept closed throughout. This prevents large temperature fluctuations which may damage the goods stored.

Never resort to violence to open the doors!
Crow bars and the like must never be used.

In the unlikely event of problems please contact TITAN for assistance.

We draw your attention to:

- All dimensions are typical dimensions and these can vary.
- We show functionality, design and installations typical for the model type and some variance may occur.

■ CONTAINER NUMBER (ID)

The number is found on all sides of the container.



FIGURE 5.1 Container number on door.



FIGURE 5.2 Container number by machine.

5.1 Door(s)

Door types and designs

Whilst the vast majority of ArcticStore containers feature doors similar to fig. 5.1.1 below there are alternative door designs which are also shown below.

User information and illustrations have been applied to both the inside and outside of the doors, explaining the various safety and application functions.



FIGURE 5.1.1 CE Doors | closed

1. Door handle, left side.
2. Lock.
3. Door handle, right side.
4. General overview decal.
5. Safety chain for door mount.
6. Hook for door mount.
7. Ramp mounting rail.
8. Ramp with handle and safety edges, maximum loading capacity 500 kg.



FIGURE 5.1.2 CE Doors | open

1. Internal LED lights.
2. Light switch and trapped personnel alarm switch.
3. Emergency exit sign.
4. Internal emergency door release.
5. Fluorescent safety information and illustrations.
6. Information and general overview decal.
7. Sliding strip curtain.
8. Ramp with handle and safety edges, maximum loading capacity 500 kg.



FIGURE 5.1.3 CE Doors | closed, with safety hatch

1. Door handle, left side.
2. Lock.
3. Door handle, right side.
4. General overview decal.
5. Safety chain for door mount.
6. Hook for door mount.
7. Ramp mounting rail.
8. Ramp with handle and safety edges, maximum loading capacity 500 kg.
9. Safety hatch.



FIGURE 5.1.4 CE Doors | open, with safety hatch

1. Internal LED lights.
2. Light switch and trapped personnel alarm switch.
3. Emergency exit sign.
4. Internal emergency door release.
5. Fluorescent safety information and illustrations.
6. Information and general overview decal.
7. Sliding strip curtain.
8. Ramp with handle and safety edges, maximum loading capacity 500 kg.
9. Safety hatch.

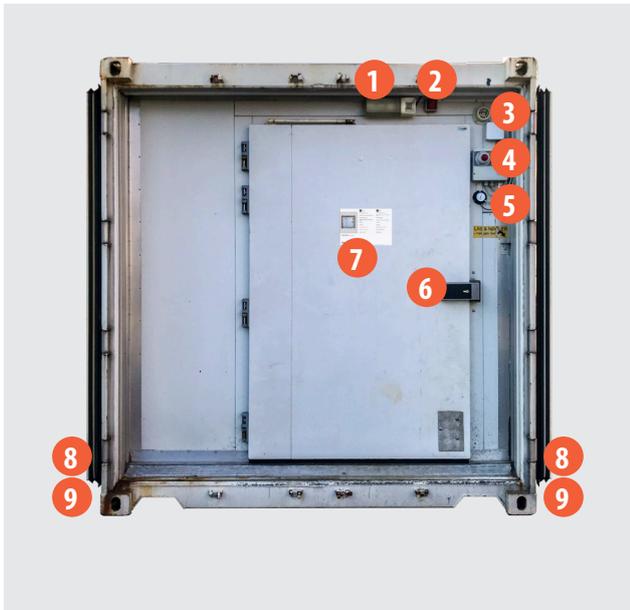


FIGURE 5.1.5 DS Doors | closed

1. External lighting with sensor.
2. Red lamp, turns on when internal lighting is on.
3. Pressure equalisation valve.
4. Trapped personnel alarm with siren and flash beacon.
5. Thermometer.
6. Door handle.
7. General overview decal.
8. Safety chain for door mount.
9. Hook for door mount.



FIGURE 5.1.6 DS Doors | open

1. Door opener ram.
2. Internal lights.
3. Fluorescent safety information and illustrations.
4. Trapped personnel alarm switch.
5. Light switch.
6. General overview decal.
7. Emergency exit sign.
8. Internal emergency door release.

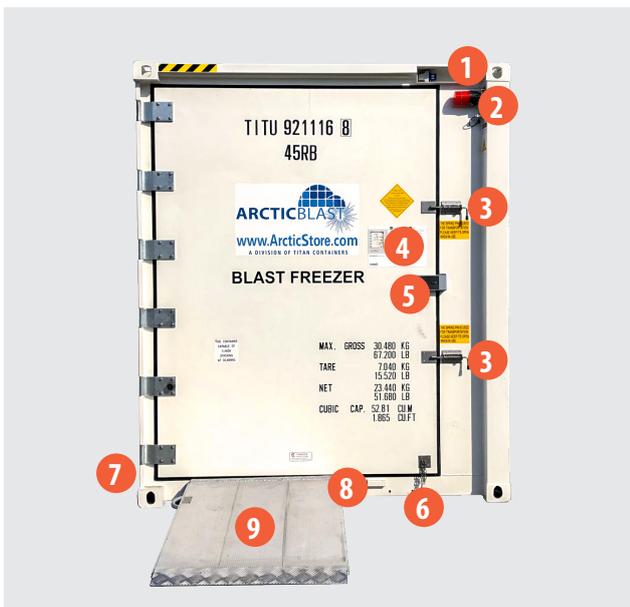


FIGURE 5.1.7 AB Doors | closed

1. 220V connection for external lights and alarm.
2. Trapped personnel alarm with siren and flash beacon.
3. Stabilizing door bolt - only to be used during transport!
4. General overview decal.
5. Door handle and lock.
6. Hook for door mount.
7. Safety chain for door mount.
8. Ramp mounting rail.
9. Ramp with handle and safety edges, maximum loading capacity 500 kg.



FIGURE 5.1.8 AB Doors | open

1. Trapped personnel alarm with siren and flash beacon.
2. Internal LED lights.
3. Light switch.
4. Trapped personnel alarm switch.
5. Fluorescent safety information, general overview decal and emergency exit sign.
6. Internal emergency door release.
7. Door handles.
8. Stabilizing door bolt - only to be used during transport!
9. Ramp with handle and safety edges, maximum loading capacity 500 kg.



FIGURE 5.1.9 CC Doors | open

1. Internal lights.
2. Light switch.
3. Trapped personnel alarm switch.
4. Fluorescent safety information and illustrations.
5. General overview decal.
6. Emergency exit signs and emergency hatch with push bar opening.
7. Door handles, left side.
8. Ramp with handle and safety edges, maximum loading capacity 500 kg.
9. Safety chain for door mount and hook for door mount.

Door types and designs | SuperStore

DOOR TYPES

Beside the CE door type, the following types are also available:



FIGURE 5.1.10 Butchers door



FIGURE 5.1.11 Full side access + CE door



FIGURE 5.1.12 Sliding door internal

If there is more than one emergency exit, the emergency exit signs will always be placed to indicate the route to the nearest emergency exit.

For more information please contact TITAN.

EXTRA EMERGENCY EXITS

SuperStores and other types of larger connected installations can be customised with an extra emergency exit of different types. See figure 5.1.13 and 5.1.14. All emergency exits are fitted with safety signage.

For further information, please contact TITAN.

The following emergency exit door types are available:

- Push bar door. See figure 5.1.13.
- Personnel door. See figure 5.1.14.



FIGURE 5.1.13 Push bar door



FIGURE 5.1.14 Personnel door

EXTERNAL

Emergency exits must never be blocked – regardless of the type or placement of the door.



FIGURE 5.1.15 Emergency exit (external)

5.2 Safety when using refrigerated and freezer containers

When using the container, it is important that you make sure that the door cannot slam shut and accidentally lock you in.

The various types of doors can all be secured to prevent the door from closing and locking while you are inside the container. (See also section 6 on shut-in alarm.)

The following safety procedure(s) must always be followed when using all types of refrigerated and freezer containers!

STEP 1)

The following procedure must always be followed for all containers of the CE type.

See figure 5.1.1.

Every time you use the container, follow the following procedure:

- Open the container door by pressing in the lock closing device and pulling the door handle towards you. See figures 5.1.16 - 5.1.17.
- Now open the container door enough for the lock rods to be completely free of the cam keepers at the top and bottom. See figures 5.1.18 - 5.1.20.
- Then press the handle all the way down until the lock closing device clicks and the lock rod can now no longer move into the cam keeper. Even if the door should now slam shut due to e.g. high winds or because you carefully close the door while you are inside the container, the container door cannot lock. See figures 5.1.21 - 5.1.24.



FIGURE 5.1.16 Press in the lock closing device.



FIGURE 5.1.17 Pull the door handle.



FIGURE 5.1.18 Open the door.



FIGURE 5.1.19 Lock rod top.



FIGURE 5.1.20 Lock rod bottom.



FIGURE 5.1.21 The closing device clicks.



FIGURE 5.1.22 Lock rod in secure position top.



FIGURE 5.1.23 Lock rod in secure position bottom.

STEP 2)

The following procedure must always be followed for all types of containers AB/AP/AS/CC/CE/DS. See figures 5.1.1, 5.1.3, 5.1.5, 5.1.7 and 5.1.9.

When the doors are fully opened, it is important that the doors are always secured by the chain on the door safety hooks on the side of the container. The purpose is to safeguard against unexpected accidents with swinging door(s), for example as the result of high winds.



FIGURE 5.1.24 Open the doors completely.



FIGURE 5.1.25 The safety chain is placed at the bottom of the doors.



FIGURE 5.1.26 The chain is secured to the hook on both sides of the container.

WORKING IN COLD STORE/ROOM ENVIRONMENTS



Local legislation and regulations for working in cold stores and cold room environments may apply.



It is the user's responsibility to follow and comply with all local safe working policies, procedures and practices, including but not limited to internal safety and maintenance procedures for the local workplace.

For more information, please see <http://bfff.co.uk/wp-content/uploads/2013/05/Working-in-a-Coldstore-Environment.pdf>

5.3 The machine and its accessories

All system functions are controlled via touch buttons on the control box.

All faults and damage to the machine and/or installation must immediately be reported to TITAN.

If strange sounds are heard from the container or there is a suspicion that something is wrong, this must also be immediately reported to TITAN.

Only TITAN and authorised partners are permitted to open the control box or other container components and/or accessories and to perform tests and/or repairs. On delivery, the container is set to the agreed temperature. If you need additional information about the machine control box and functions, please contact your local TITAN office.

For other types of machines, please contact TITAN for assistance.

Figures 5.2.1- 5.2.5 shows illustrations of machine functions.



FIGURE 5.2.1 Thermo King™ MAGNUM PLUS machine

1. 220V for internal electrical fittings.
 2. Fresh air valve.
 3. General overview decal.
 4. Control box with LCD screen.
Optional remote monitoring.
 5. On/off switch.
 6. 380/440V power cable with 32A CE plug.
 7. CE approval decal.
 8. Trapped personnel alarm with siren and flash beacon.
- Warning signs.

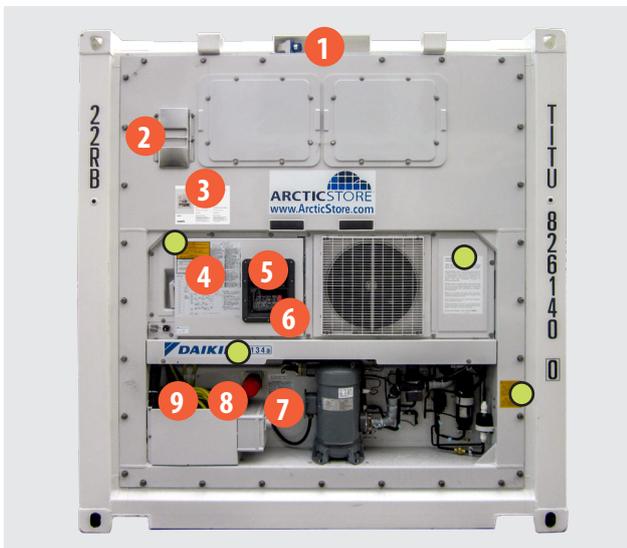


FIGURE 5.2.2 Daikin™ machine

1. 220V for internal electrical fittings.
 2. Fresh air valve.
 3. General overview decal.
 4. User Manual.
 5. Control box with LCD screen.
Optional remote monitoring.
 6. On/off switch.
 7. CE approval decal.
 8. Trapped personnel alarm with siren and flash beacon.
 9. 380/440V power cable with 32A CE plug.
- Warning signs.



FIGURE 5.2.3 Thermo King™ ULTRAFREEZER

1. General overview decal.
 2. Trapped personnel alarm with siren and flash beacon. Mobile flash beacon optional.
 3. Control box with LCD screen. Optional remote monitoring.
 4. On/off switch.
 5. 380/440V power cable with 32A CE plug.
 6. CE approval decal.
- Warning signs.

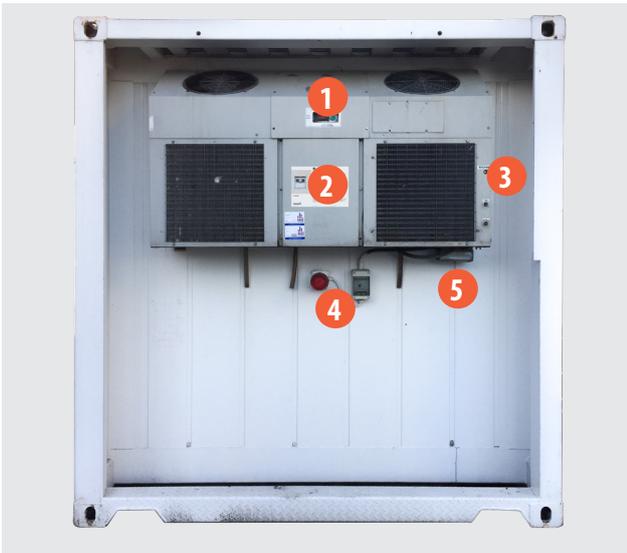


FIGURE 5.2.4 Hubbard machine

1. LCD screen control box.
2. General overview decal.
3. On/off switch.
4. Trapped personnel alarm with siren and flash beacon.
5. 380/440V power cable with 32A CE plug.



FIGURE 5.2.5 Zanotti machine

1. 380/440V power cable with 32A CE plug.
 2. General overview decal.
 3. LCD screen control box.
 4. CE approval decal.
 5. On/off switch.
 6. Trapped personnel alarm with siren and flash beacon.
- Warning signs.

The above figure 5.2.5 shows a Zanotti model 235.

Models 135 and 335 are also used. There may be minor variations between models.

5.4 Internal

- For your safety it is important to use suitable clothing, including correct footwear.
- If the container is set to a temperature of +10C or less, there is a risk of ice or frost accretion on the non-slip floor.
- The container features internal lighting which should always be on when working inside the container. It should also be turned off when the container is vacated. Defective light bulbs and/or fluorescent tubes should be immediately replaced. Remember to turn off the light when replacing light bulbs and fluorescent tubes.
- The container must be loaded in a responsible fashion. See below.
- The container should always be clean to maintain a satisfactory internal hygiene level.
- There are four drains - one in each corner - which should not be covered. See figure 5.3.1.



FIGURE 5.3.1 Drain.

THE FOLLOWING IS IMPORTANT TO AVOID ICE ACCRETION AND OPERATIONAL DOWN-TIME.

- Goods/cartons should be placed on pallets/in cages for better air circulation. See figure 5.3.2.
- Pallets must be placed at least 30 cm from the refrigeration unit. Do not pack too high - obey the maximum load height. See figure 5.3.3.
- Always check temperature and defrosting at the same time as the daily own check.
- Only open the container doors if needed while the system is in operation. Where longer-term access to the container is required, turn off the refrigeration.
- Defrosting is automatic. In the defrosting state, the ventilator fans is stopped and the container temperature is not affected. For optimum effect, all ice should be gone after defrosting. Manual defrosting can be selected, contact TITAN to agree this.

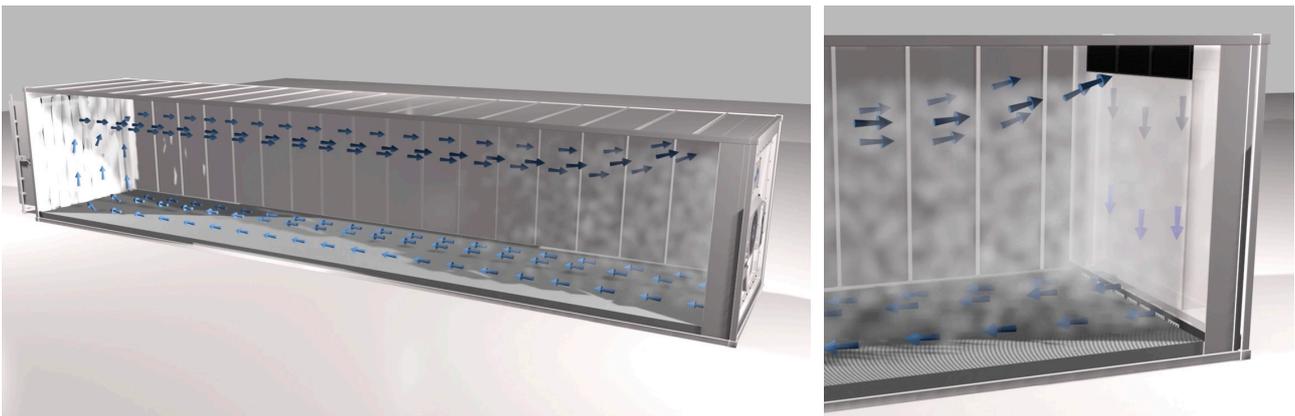


FIGURE 5.3.2 Air circulation.



FIGURE 5.3.3 Maximum loading height marking.

5.5 Accessories

■ RAMP

Our standard CE type ramps have a load maximum of 500 kg. If greater load ability is required, please contact TITAN to have a stronger ramp with greater load maximum delivered. Prior to use, always ensure that the ramp is correctly located in the rails for the purpose.

■ NOISE REDUCTION CABIN

When using a noise reduction cabin, the machine will be completely covered by this.

It must always be connected to electrical supply via the cable included to ensure the required air circulation, as it must be possible to direct the heat from the machine away from the noise reduction cabin.

Access to the control box is via an integrated hatch in the noise reduction cabin.

When using a noise reduction cabin, the rotating flasher and siren must be relocated. Please contact TITAN for further information.

■ SUPPORT LEGS

Containers placed on supporting legs require special safety measures and the installation should be checked daily before using the container.

Where the container is in an exposed location with particular risk, for example, of supporting legs being struck by traffic and/or trucks in connection with goods deliveries, supporting legs should be shielded with concrete blocks or the like.

5.6 Additional safety features

■ EMERGENCY HATCH

Since May 2019, an emergency hatch has been introduced on new containers of the CE type as an additional safety precaution.

For more information, please contact TITAN.



■ PAUSE FUNCTION

Some new models have an integrated 'pause' function. When the door to the container is opened, the system is paused. The system automatically starts again when the doors are closed. This option is currently only available for new CE units.

For further information, please contact TITAN.



■ SMARTARCTIC REMOTE MONITORING MODEM

Since June 2020, SmartArctic has been introduced on new containers of the CE type, as well as being fitting to most of our Global rental fleet of refrigerated containers.

With TITAN's SmartArctic Remote Monitoring and Control feature, you can access your ArcticStore via a secure, simple and user-friendly interface. Here you can monitor performance and status, view log files, change set points and even configure alarm notifications.

SmartArctic is a premium optional paid for service and for more information, please contact TITAN.

5.7 Special features

■ INTRODUCING DENBA+ INSIDE

Coming soon!

Keep your products fresher and for longer with ArcticStore and DENBA+. DENBA+ technology fills the storage area with electrical waves. These waves inter-act with all types of fresh produce including meats, fish and agricultural produce.

Please contact TITAN for more information.

6. Using the container

■ LOSS OF COOLING

To minimise loss of cooling and reducing electricity consumption, it should always be checked that the container door is shut tight.

■ LIGHTING

Defective light bulbs or fluorescent tubes must always be replaced.

■ ELECTRICAL CABLES

Any damage to an electrical cable or plug must be rectified, please contact TITAN. Do not use extension cords without prior approval from TITAN.

■ SHUT-IN ALARM

The container features a shut-in alarm with associated siren and rotating flasher. As standard, the rotating flasher and siren are installed on the machine. Alternative alarms or additional alarms are possible. Please contact TITAN to agree this.

The shut-in alarm must be tested on a regular basis and at least with the same interval as own/internal safety procedures. **It is your responsibility to ensure that the alarm is maintained on an ongoing basis and that it works.**

■ AIR CIRCULATION

For better storage of fresh fruit, flowers, and plants, the container air can be replaced on an on-going basis via the installation of an extra control module, please contact TITAN in this regard.

■ EXTRA SENSORS

Please contact TITAN for special instruction and guidance.

■ LOADING

The container must be loaded in a responsible fashion and as prescribed in section 5.3.

■ CLEANING

The container must always be clean to maintain a satisfactory internal hygiene level.

In case of damage and/or defects, TITAN must be immediately notified.

7. Control box and access

On delivery, the system is already pre-set for the agreed temperature and the container only needs to be connected to a power supply and turned on.

Remember: the control box must always be closed tight!

Only TITAN and authorised partners are permitted to open the control box or other container components and/or accessories and to perform tests and/or repairs.

The control box installation is intended for TITAN to be able to provide you with the best possible service.

In case of control box damage and/or defects, TITAN must be **immediately** notified.

■ IS THE SYSTEM RUNNING AS INTENDED?

On Thermo King systems, you can read the machine operating status directly on the LCD screen in the form of a smiley. See figure 7.1.

Happy smiley: The system works correctly, **no action required.**

Neutral smiley: The system is working, but **contact TITAN as soon as possible.**

Sad smiley: The system is not working and/or not working correctly.

Contact TITAN immediately!

Follow the break-down procedure in section 5, "About the container".



FIGURE 7.1 Happy smiley illustration on control box shows that everything works correctly.

8. Annual inspection

Current regulations require an annual machine inspection to be performed by authorised employees. TITAN will automatically perform this re-inspection unless otherwise notified or agreed.

9. Defects and damage

In case of damage and/or defects, TITAN must be **immediately** notified.

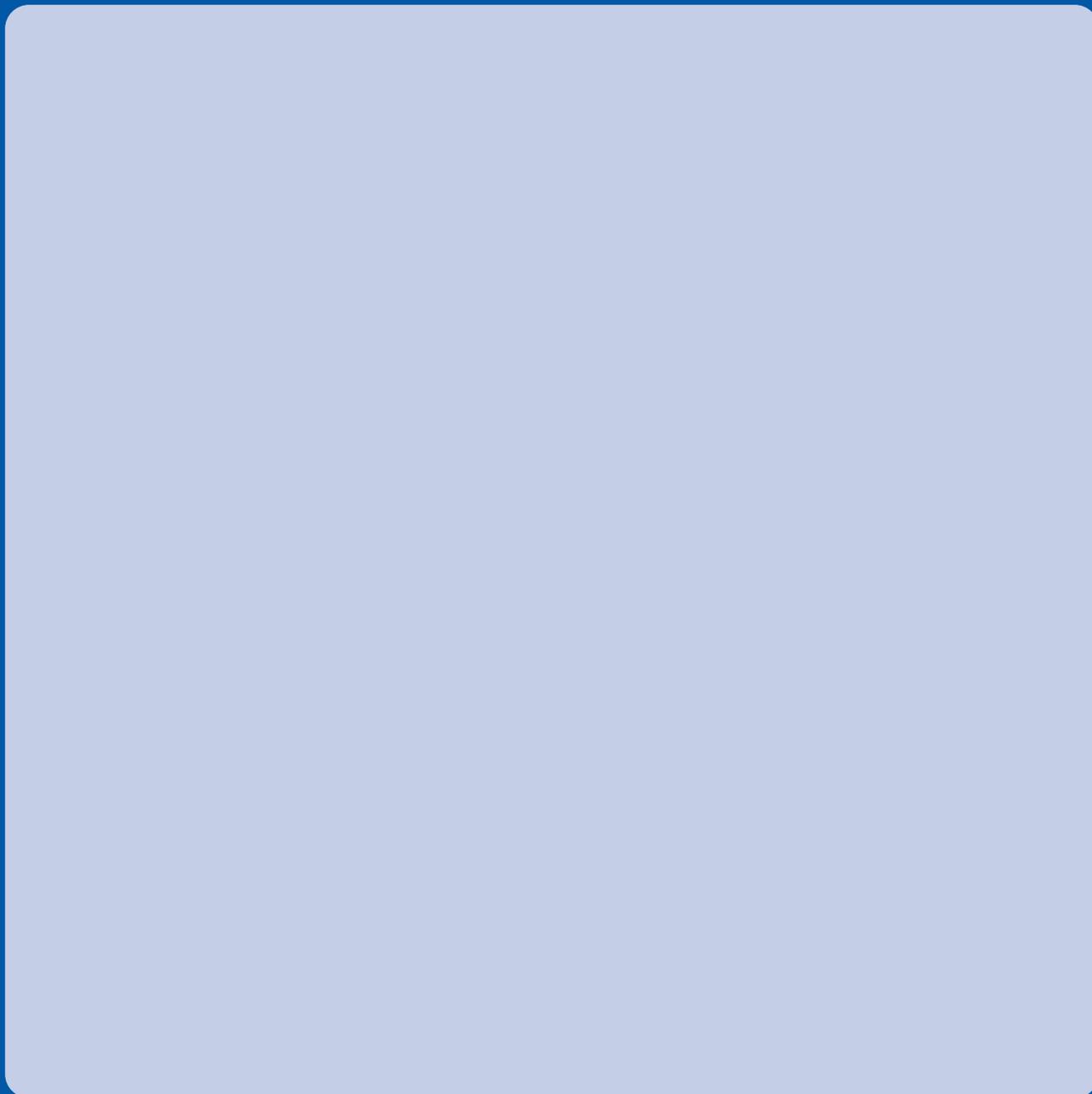
■ **REMEMBER TO HAVE THE CONTAINER NUMBER TO HAND.**

10. Collection

*Collection normally takes place with either crane lorry or side loader.
During collection it is your responsibility that:*

- There is space for the truck to move freely and go around corners where needed.
- Accessways are free for loading, and that the surface is firm, level, and stable.
- There is room for the driver to control crane etc. safely and without hindrance. It may be required that the area is blocked to all traffic during collection and loading of the container.

On collection, any lock and keys must be placed in the container together with any ramp. Container doors must be closed and the electrical cable must be correctly disconnected from your connection point, coiled up and placed next to the machine.



*Change all contact
info to be local*

■ **TITAN Containers**

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www.TITANcontainers.com/gb