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DATA SHEET
DE-STD · SN-TC · Rev. 2026

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OUTDOOR ENCLOSURES

SN-TC Telecom Container Series

Insulated Outdoor Telecommunications Container, IP54 / IP55



SN-TC Telecom Container Series is a range of insulated outdoor telecommunications containers available in 10 ft, 20 ft and 40 ft configurations, designed for the installation, protection and operation of telecommunications, power and monitoring equipment in demanding outdoor environments. The container features a double-wall construction with 100 mm mineral-wool insulation and an internal magnesite-board lining, reducing heat loss in cold weather and protecting the interior from excessive heating in summer. The container is built around a fully welded structural steel frame integrated with a reinforced base. The reinforced modular floor is designed to withstand a concentrated load of up to 1000 kg at any point and provides a stable foundation for installed equipment. ISO 1161 corner fittings built into the base allow transportation using equipment intended for standard ISO containers, while dedicated lifting points in the structural frame support crane lifting and rigging operations. Removable front doors with concealed hinges provide access to the interior. The doors are secured by heavy-duty vandal-resistant all-metal locks, with the locking mechanisms additionally protected by removable steel security covers. Depending on the required thermal load and operating conditions, the container can be configured with an air-conditioning system or a free-cooling system.

AT A GLANCE

Series	**Telecom Container Series**
Container Sizes	**10 / 20 / 40 ft**
Construction	**Double-wall steel construction**
Insulation & Lining	**100 mm mineral wool + magnesite board**
Climate System	**Free Cooling or Air Conditioning, 6 / 8 / 10 kW**
Access	**Front doors**
Mounting	**Concrete foundation or steel support frame**

NUMBERED DETAILS IN THE PHOTO

1. **Double-Wall Construction**
   Double-wall enclosure structure with mineral-wool insulation helps reduce heat loss in cold weather and limits excessive heating in summer.
2. **ISO Corner Fittings**
   ISO corner fittings built into the base support handling and transport using equipment intended for standard ISO containers.
3. **Lifting Points**
   Dedicated lifting points in the structural frame allow crane lifting and rigging operations.
4. **Vandal-Resistant Doors**
   Removable doors with concealed hinges and protected all-metal locking mechanisms provide increased resistance to unauthorised access.
5. **Free-Cooling Ventilation Grille**
   Ventilation grille forms part of the free-cooling air path, allowing outside air to be used for enclosure cooling when operating conditions permit.

1 Key figures

Container Sizes	**10 / 20 / 40 ft**
Cooling Capacity	**6 / 8 / 10 kW**
Ambient Range	**–40...+60 °C**
Point Floor Load	**Up to 1000 kg**
Protection	**IP54 / IP55**

2 Key features

Double-Wall Insulated Construction	100 mm mineral-wool insulation reduces heat loss in cold weather and limits excessive heating in summer.
Configurable Climate System	Available with free cooling or air conditioning, selected according to required heat dissipation and operating conditions.
Integrated Monitoring & Control	Monitoring system supports temperature, humidity, door, smoke, flood and impact sensors with local control interface.
Antivandal Door System	Concealed hinges, protected all-metal lock mechanisms and multi-point locking increase resistance to unauthorised access.
ISO 1161 Corner Fittings	Integrated corner fittings support handling and transport using equipment intended for standard ISO containers.
Dedicated Lifting Points	Structural lifting points allow crane lifting and rigging operations.
Thermally Isolated Cable Tray System	Perforated metal cable trays are mounted without direct contact with the external steel shell, helping reduce thermal bridging.
Antistatic Floor Finish	Antistatic industrial floor finish supports safe installation of telecommunications and electronic equipment.

TYPICAL APPLICATIONS

- Mobile Network Infrastructure
- Wireless Communication Systems
- Cable Television Networks
- Digital Transmission Networks
- Outdoor Telecommunications Nodes
- Remote Communication Sites

STANDARD SUPPLY

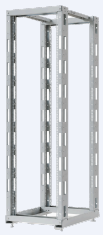
- Telecom Container Assembly
- Climate System
- Power Distribution Cabinet
- Metering Cabinet
- Lighting System
- Monitoring System

- Cable Tray System
- Key Set
- Technical Documentation

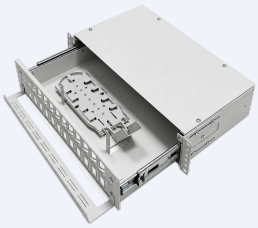
COMPATIBLE ACCESSORIES



Floor-Standing Cabinet



Open Rack



Fiber Optic Distribution Frame

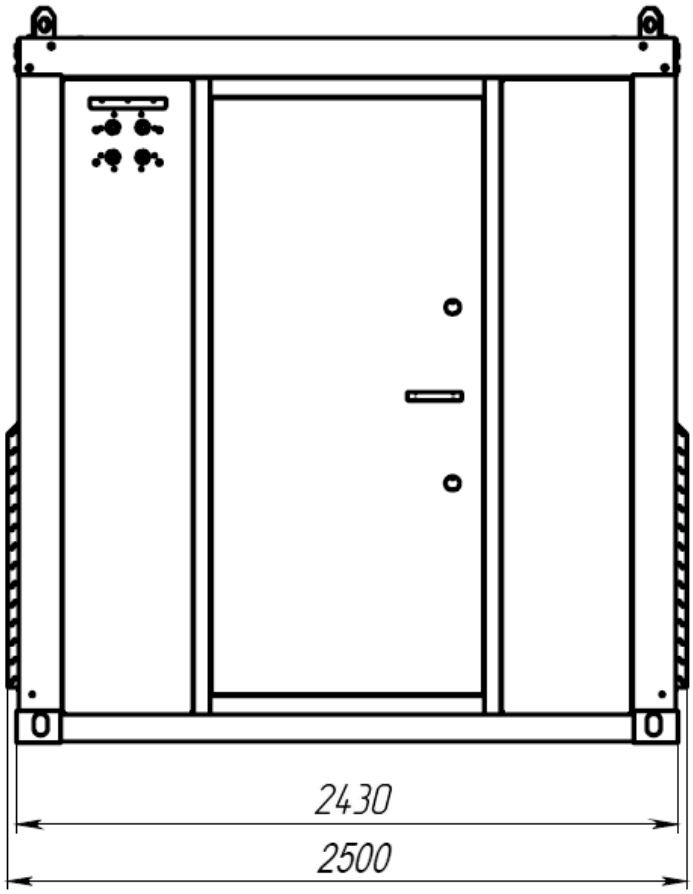
3 Size and configuration matrix

Rows list the three container sizes — 10 ft, 20 ft and 40 ft. The row header gives the container size. Columns give external dimensions (width × height × length), climate system, cooling capacity, protection rating and net weight. Net weight is shown as the free-cooling build, then the air-conditioning build.

Model	External Dimensions (W × H × L) (mm)	Climate System	Cooling Capacity (kW)	Protection Rating	Net Weight (F / AC) (kg)
10 ft	**2430 × 2600 × 3000** mm	**Free Cooling / Air Conditioning**	**6 / 8 / 10** kW	**IP54 / IP55**	1780 / 1830 kg
20 ft	**2430 × 2600 × 6060** mm	**Free Cooling / Air Conditioning**	**6 / 8 / 10** kW	**IP54 / IP55**	3650 / 3700 kg
40 ft	**2430 × 2600 × 12200** mm	**Free Cooling / Air Conditioning**	**6 / 8 / 10** kW	**IP54 / IP55**	7400 / 7450 kg

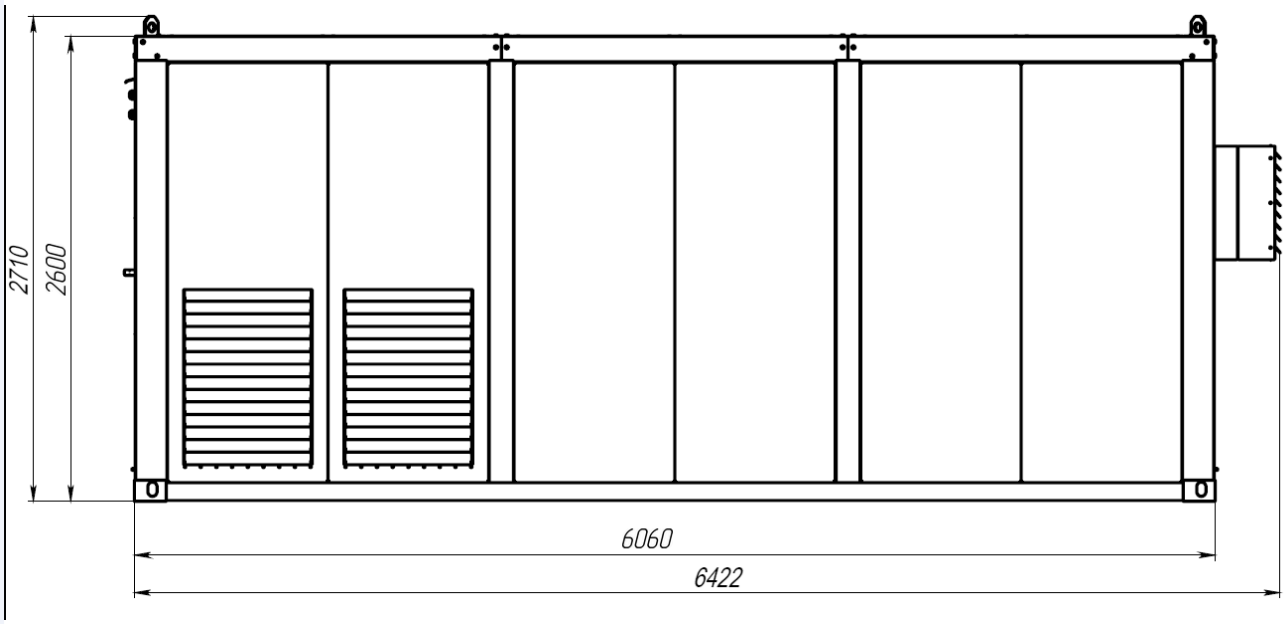
Overall dimensions include the projecting climate unit or free-cooling ventilation grille; see the technical drawings. Container lengths are the rounded ISO nominal values (3000 / 6060 / 12200 mm).

4 Technical drawings



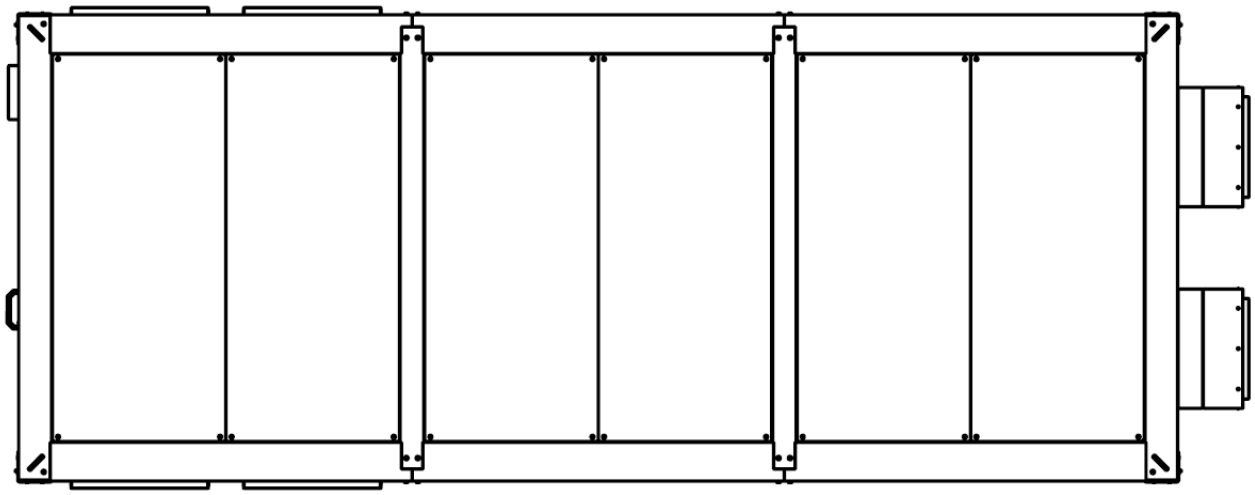
FRONT VIEW

Front elevation of the 20 ft free-cooling container. External width 2430 mm and external height 2600 mm. Removable front doors with concealed hinges.



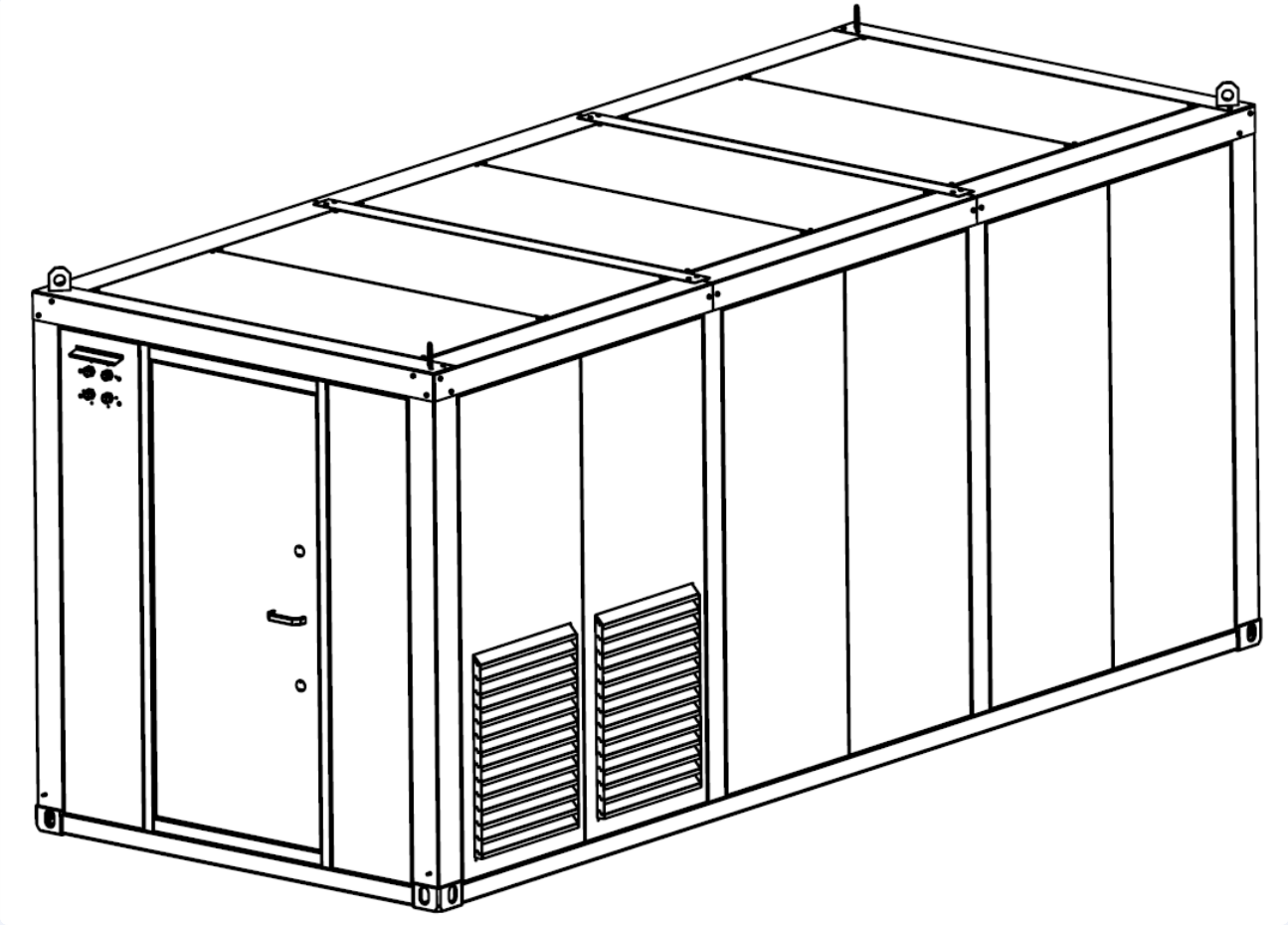
SIDE VIEW

Side elevation of the 20 ft free-cooling container. External length 6060 mm. The projecting free-cooling ventilation grille is shown on the side wall.



TOP VIEW

Roof and frame plan of the 20 ft free-cooling container, showing the ISO 1161 corner fittings at the four top corners and the structural lifting points.



GENERAL VIEW

General isometric view of the assembled 20 ft free-cooling container with the front doors, the ISO corner fittings and the side-wall free-cooling components.

5 Standard Equipment

Factory-installed equipment

Equipment fitted at the factory, with specification and quantity.

Item	Specification	Qty
Climate System	Air-conditioning or free-cooling system, 6 / 8 / 10 kW depending on configuration	1 set
Metering Cabinet	Factory-installed electrical metering assembly	1 pc

Item	Specification	Qty
Power Distribution Cabinet	Factory-installed power distribution and protection assembly	1 pc
Monitoring System	Integrated monitoring and control system with local display and remote communication interfaces	1 set
Sensor Set	Temperature, humidity, smoke, flood, door-opening and impact monitoring	1 set
Lighting System	Internal container lighting system	1 set
Cable Tray System	Perforated metal cable trays mounted on dedicated supports	1 set
Cable Entry System	Cable glands and cable-entry provisions; configuration depends on container size	1 set
Grounding System	Internal protective grounding and bonding system	1 set

Metering Cabinet — Components

Components of the factory-installed metering cabinet, with specification and quantity.

Component	Specification	Qty
Metering Box	Electrical enclosure for metering components	1 pc
Energy Meter	Electrical energy consumption metering	1 pc
Circuit Breaker	3P, 63 A	1 pc
Neutral Terminal	N	1 pc

Power Distribution Cabinet — Components

Components of the factory-fitted 3U electrical control panel, with specification and quantity.

Component	Specification	Qty
Power Distribution Cabinet Enclosure	DIN-rail distribution enclosure	1 pc
I-0-II Changeover Switch	3-position manual switch: I – 0 – II	1 pc
Phase Indicator	Three-phase voltage presence indication	1 pc
Circuit Breaker	3P, 63 A	2 pcs
Circuit Breaker	3P, 32 A	1 pc
Circuit Breaker	3P, 25 A	1 pc
Circuit Breaker	1P, 16 A	1 pc
Circuit Breaker	1P, 6 A	3 pcs
Circuit Breaker	1P, 4 A	1 pc
Residual Current Device (RCD)	2P, 16 A, 30 mA, 6 kA	1 pc
DIN-Rail Schuko Socket	16 A	1 pc
DIN-Rail Power Supply	Auxiliary DC power supply	1 pc
Feed-Through Terminal Blocks	For internal electrical connections	3 pc
Neutral Terminal Block	N	1 pc
PE Terminal Block	PE	1 pc

Climate System — Technical Specifications

Technical specifications of the free-cooling and air-conditioning climate systems, side by side.

Parameter	Free Cooling	Air Conditioning
Climate System Type	Open-type free cooling	Industrial-type air conditioning
Cooling Capacity	6 / 8 / 10 kW	6 / 8 / 10 kW
Power Supply	220–230 V AC	220–230 V AC

Parameter	Free Cooling	Air Conditioning
Maintained Internal Temperature	+5…+45 °C	+5…+35 °C
Ambient Operating Range	−40…+60 °C	−40…+60 °C
Maximum Relative Humidity	Up to 98% @ +35 °C, non-condensing	Up to 98% @ +35 °C, non-condensing
Cooling Principle	Outside-air cooling	Mechanical refrigeration cooling
Control System	Integrated climate controller	Integrated climate controller
Monitoring Integration	Temperature, humidity and alarm monitoring	Temperature, humidity and alarm monitoring

Monitoring & Control System — Technical Specifications

Technical specifications of the integrated monitoring and control system.

Parameter	Specification
System Functions	Remote monitoring, climate-system control, sensor data acquisition, alarm processing and event logging
Climate System Compatibility	Free Cooling / Air Conditioning
Local Interface	Touch display
Temperature Sensor Inputs	5
Humidity Sensor Inputs	5
Discrete Sensor Inputs	6
Discrete Sensor Configuration	Smoke, flood, door opening, impact + 2 reserve inputs
Sensor Interface	1-Wire
Digital Interfaces	2 × RS485
PWM Channels	2
Network Interface	Ethernet

Parameter	Specification
Web Interface	Built-in web server
Software Interface	REST
Network Protocols	HTTPS, HTTP, IPv4
Monitoring Protocols	SNMPv2c, SNMPv3
Alarm Notification	SNMP trap
Event Database	10,000 events

Optional equipment and systems

Optional equipment and systems available for this enclosure, grouped by function.

Group	Includes
Power Distribution & Protection	Additional circuit breakers, surge protection modules, sockets, generator inlet connectors, PDUs
Backup Power	UPS systems, DC power systems, battery systems
Safety & Fire Protection	Smoke detection expansion, fire alarm equipment, automatic fire suppression systems
Monitoring & Access Control	Additional sensors, remote I/O modules, access-control systems, additional door monitoring
Equipment Installation Systems	19-inch racks, mounting frames, equipment supports, additional cable-management systems

6 Reference Standards

- ✓ **ISO 1161:2016** Series 1 freight containers — Corner and intermediate fittings
- ✓ **ISO 668:2020** Series 1 freight containers — Classification, dimensions and ratings
- ✓ **EN 60529 / IEC 60529** Degrees of protection provided by enclosures (IP Code)

Standards are listed as design and application references and do not constitute third-party product certification unless explicitly stated.

7 Colour and ordering

Available finishes

RAL 7035
Light grey

Ordering code

`SN-TC-[SIZE]FT-[kW]-[CLIMATE]`

`[SIZE]FT`

Container size by external length in feet — 10FT, 20FT, 40FT

`[kW]`

Cooling capacity in kilowatts — 6, 8, 10

`[CLIMATE]`

Climate system: AC for the air-conditioning system, F for the free-cooling system — AC, F

EXAMPLE `SN-TC-20FT-10-AC`

20-foot Telecom Container Series enclosure, 10 kW cooling capacity, air-conditioning system, RAL 7035, IP55.

There are no colour options.

IP54 IP55 ISO 1161 Made in Europe

Powered by SteelNet

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