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 in 10 ft, 20 ft and 40 ft configurations for the installation, protection and operation of telecommunications, power and monitoring equipment in demanding outdoor environments. The container has a double-wall construction with 100 mm mineral-wool insulation and a magnesite-board internal lining, built around a fully welded structural steel frame with a reinforced base; each container can be configured with an air-conditioning system or a free-cooling system.

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



10 / 20 / 40 ft — CONTAINER SIZES

6 / 8 / 10 kW — COOLING CAPACITY

−40...+60 °C — AMBIENT RANGE

Up to 1000 kg — POINT FLOOR LOAD

IP54 / IP55 — PROTECTION

1 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

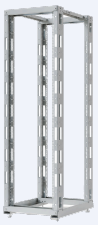
- Mobile Network Infrastructure
- Wireless Communication Systems
- Cable Television Networks
- Digital Transmission Networks
- Outdoor Telecommunications Nodes
- Remote Communication Sites

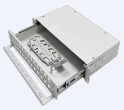
STANDARD SUPPLY

- 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

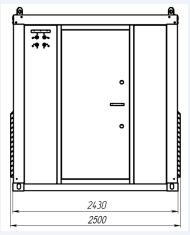
IP54 · IP55 · ISO 1161

2 Size & Configuration Matrix

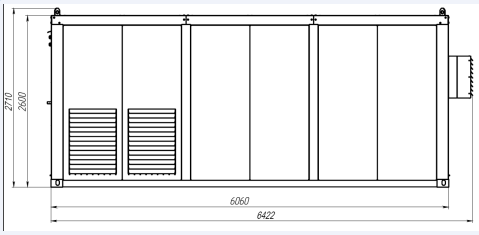
Model	External Dimensions (W × H × L) (mm)	Climate System	Cooling Capacity (kW)	Protection Rating	Net Weight (F / AC) (kg)
10 ft	2430 × 2600 × 3000 mm	Free Cooling / Air Conditioning	6 / 8 / 10 kW	IP54 / IP55	1780 / 1830 kg
20 ft	2430 × 2600 × 6060 mm	Free Cooling / Air Conditioning	6 / 8 / 10 kW	IP54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

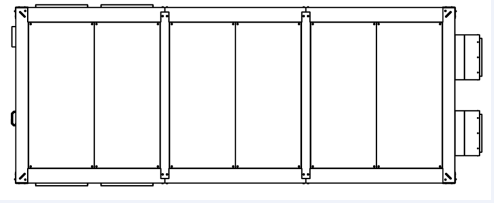
3 Technical Drawing



FRONT VIEW

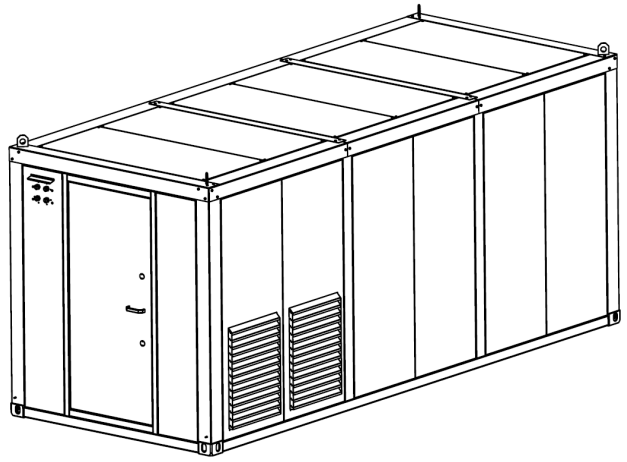


SIDE VIEW



TOP VIEW

The four views show the 20 ft free-cooling container: external width 2430 mm, height 2600 mm and length 6060 mm. The technical drawings show the container with a free-cooling system.



GENERAL VIEW

4 Standard Equipment

Factory-Installed Equipment

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
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

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

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

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
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

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Monitoring & Control System — Technical Specifications

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
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

5 Optional Equipment & Systems

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 & Ordering

RAL 7035
Light grey

ORDERING CODE PATTERN

`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.