OUTDOOR ENCLOSURES

SN-THERMA
Air-Conditioned Series

Outdoor Floor-Standing Enclosure, IP55

SN-THERMA / SN-THERMA MAX Air-Conditioned Series is a range of double-wall steel outdoor floor-standing enclosures for the installation and protection of 19-inch telecommunications equipment. A door-mounted closed-loop climate unit — compressor air conditioning with an air-to-air heat exchanger and an integrated heater — provides active temperature control for reliable outdoor operation. Front and rear doors give access from both sides. Two pairs of adjustable 19-inch mounting rails. SN-THERMA MAX provides increased cabinet depth for installations requiring additional internal space.

Series	Air-Conditioned Series
Models	SN-THERMA-FS-WD-19-34U/38U/42U-083-083-1C SN-THERMA-MAX-FS-WD-19-34U/38U/42U-083-117-1C
Usable rack space	34U / 38U / 42U
Construction	Double-wall steel, A1 mineral-wool insulation
Access	Front and rear doors
Climate control	Closed-loop air conditioning + integrated heater
Mounting	Concrete foundation or support frame



34 / 38 / 42 U	830 mm	825 / 1175 mm	800 kg	IP55
HEIGHT	WIDTH	DEPTH	STATIC LOAD	PROTECTION

1 Key Features

Double-Wall Steel Construction
Inner and outer steel shells provide a robust insulated enclosure structure.

A1 Mineral-Wool Insulation
Non-combustible insulation reduces heat loss in cold weather and limits heating in summer.

Closed-Loop Air Conditioning
Integrated air-conditioning system provides compressor cooling and free-cooling operation without direct exchange of cabinet air with the environment.

Integrated Heater
Heater integrated into the air-conditioning unit supports operation at low ambient temperatures.

19" Mounting Rails
Two pairs of 19-inch mounting rails with depth adjustment in 25 mm increments.

Three-Point Locking System
Five-bolt lever lock with upper and lower locking rods secures the door at three points.

Floor Plinth with Fixing Holes
Fixing holes allow anchoring to a concrete foundation; removable access covers provide additional cable access through the plinth.

Front & Rear Access
Front and rear doors provide convenient access to installed equipment from both sides.

TYPICAL APPLICATIONS

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

WHAT'S IN THE BOX

- 19" Mounting Rails
- Mounting Rail Support Brackets
- Electrical Control Panel
- Air-Conditioning Unit
- Cable Entry Panels
- Door Opening Sensor
- Removable Roof
- Floor Plinth
- Protective Steel Cover for Air Conditioner
- Grounding Busbar
- 2 key sets — one set for each lock
- Set of Eye Bolts
- Technical Documentation

COMPATIBLE ACCESSORIES



Cable ring organizer | Shelf | 3U Electrical Distribution Panel

CE | IP55 | EN 60529 | 2014/35/EU

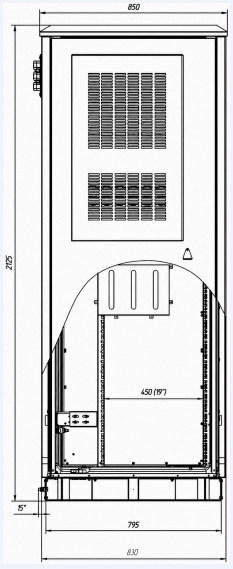
Powered by SteelNet

2 Size & Configuration Matrix

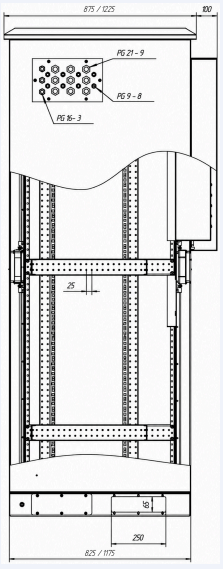
Model	Usable Rack Space (U)	Total Rack Capacity (U)	External Height (mm)	Cabinet Body Width (mm)	Cabinet Body Depth (mm)	Usable Mounting Depth (mm)	Net Weight (kg)
SN-THERMA-FS-WD-19-34U-083-083-1C	34 U	34 U	1769 mm	830 mm	825 mm	450 mm	270.0 kg
SN-THERMA-FS-WD-19-38U-083-083-1C	38 U	38 U	1947 mm	830 mm	825 mm	450 mm	278.0 kg
SN-THERMA-FS-WD-19-42U-083-083-1C	42 U	42 U	2125 mm	830 mm	825 mm	450 mm	286.0 kg
SN-THERMA-MAX-FS-WD-19-34U-083-117-1C	34 U	34 U	1769 mm	830 mm	1175 mm	800 mm	320.0 kg
SN-THERMA-MAX-FS-WD-19-38U-083-117-1C	38 U	38 U	1947 mm	830 mm	1175 mm	800 mm	328.0 kg
SN-THERMA-MAX-FS-WD-19-42U-083-117-1C	42 U	42 U	2125 mm	830 mm	1175 mm	800 mm	336.0 kg

The removable roof and the door-mounted air conditioner project beyond the cabinet body; overall dimensions including these external components are shown in the technical drawings. Net weight includes the removable roof. The removable roof is supplied separately from the enclosure body to reduce the risk of damage during transportation.

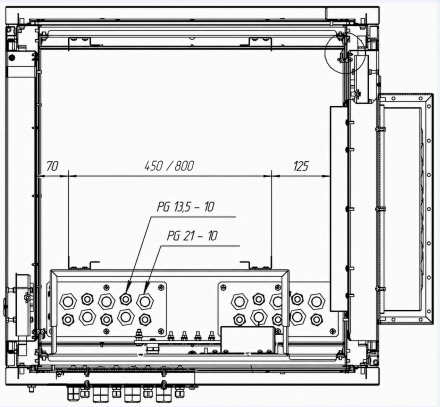
3 Technical Drawing



FRONT VIEW

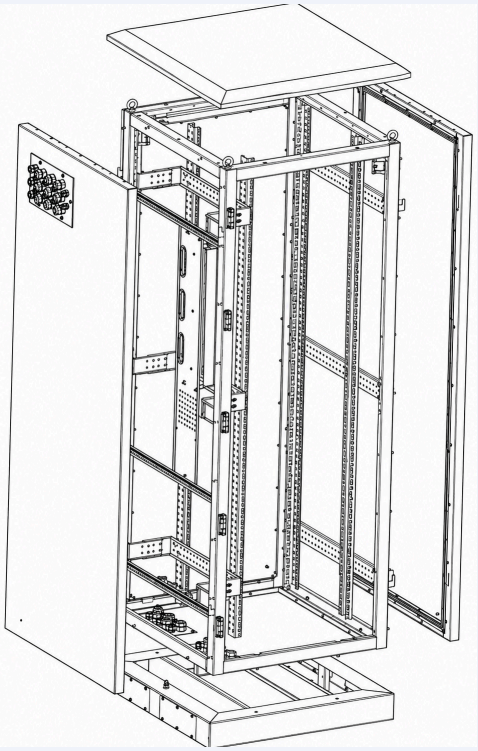


SIDE VIEW



TOP VIEW — ROOF REMOVED

The four views are generic for all six models; the external height changes with the rack height and the cabinet body depth changes between SN-THERMA and SN-THERMA MAX. The top view, with the roof removed, shows the base cable entry panel.



GENERAL VIEW

4 Standard Equipment

Factory-Installed Equipment

Item	Specification	Qty
Air-Conditioning Unit	1500 W @ L35/L35, 230 V AC	1 pc
Protective Steel Cover for Air Conditioner	External steel cover for additional mechanical protection of the air-conditioning unit	1 pc
Door Opening Sensors	Magnetic reed contact sensor	2 pcs
Side Cable Entry Panel	Fitted with 20 cable glands: 8 × PG9, 3 × PG16, 9 × PG21	1 pc
Base Cable Entry Panels	Each panel fitted with 20 cable glands: 10 × PG13.5, 10 × PG21	2 pcs
Electrical Control Panel	Side-mounted; does not occupy rack units	1 pc
Document Pocket	Metal document pocket mounted on the inside of the door; suitable for A4 documents	1 pc
Grounding Busbar	Copper grounding busbar with 6 connection points, mounted on 2 insulated supports	1 pc

Electrical Control Panel

Component	Specification	Qty
Circuit Breaker	3P, 32 A	1 pc
Circuit Breaker	1P, 16 A	1 pc
Residual Current Device	2P, 25 A, 30 mA	1 pc
Circuit Breaker	1P, 6 A	2 pcs
DIN-Rail Schuko Socket	16 A, 230 V AC	2 pcs
DIN-Rail Neutral Busbar	Insulated, 6 × 9 mm, 10 terminals	1 pc
DIN-Rail PE Busbar	Insulated, 6 × 9 mm, 10 terminals	1 pc

Air-Conditioning Unit — Technical Specifications

Parameter	Specification
Cooling Capacity	1500 W @ L35/L35
Cooling Capacity	1100 W @ L35/L55
Heat Exchange Capacity	80 W/K
Heater Power	1000 W
Internal Airflow	450 m^3/h
Air-Conditioning Power Supply	230 V AC, 50 Hz
Heat-Exchanger Power Supply	48 V DC
Cooling Operating Range	−15…+55 °C
Heat-Exchange External Temperature Range	−40…+55 °C
Communication Interface	RS485
Communication Protocol	Modbus RTU
Protection Rating	IP55
Refrigerant	R134a

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5 Optional Equipment & Systems

Group	Includes
Sensors & Monitoring	Flood sensors, smoke sensors, vibration sensors, monitoring systems
Safety Systems	Door status monitoring, alarm signalling devices
Power Distribution & Protection	Additional circuit breakers, surge protection modules, sockets, generator inlet connectors, PDUs
Backup Power	Power supply systems, batteries

6 Standards & Certification

- ✓ **2014/35/EU** — Low Voltage Directive
- ✓ **EN 60529:1991/A2:2013/AC:2019-02** — Degrees of protection provided by enclosures (IP code)
- ✓ **EN 61439-3:2012/AC:2019-04** — Distribution boards intended to be operated by ordinary persons
- ✓ **2014/30/EU** — Electromagnetic Compatibility Directive
- ✓ **EN 61439-1:2011** — Low-voltage switchgear and controlgear assemblies — general rules
- ✓ **EN 62368-1:2014/AC:2015** — Audio/video, information and communication technology equipment — safety

7 Colour & Ordering

RAL 7035
Light grey

ORDERING CODE PATTERN

`SN-THERMA[-MAX]-FS-WD-19-[U]U-083-[D]-1C`

SN-THERMA Series name · **FS** Floor-standing · **WD** Welded construction · **19** 19-inch rack standard · **083** Width code — 830 mm · **1C** One air-conditioning unit

`[-MAX]`	Omit for SN-THERMA (825 mm body depth); include for SN-THERMA MAX (1175 mm body depth, 800 mm usable mounting depth)	`[D]`	Depth code — 083 for SN-THERMA (825 mm body), 117 for SN-THERMA MAX (1175 mm body)
`[U]`	Rack height in rack units (usable space equals total capacity): 34, 38, 42		

EXAMPLE `SN-THERMA-MAX-FS-WD-19-42U-083-117-1C`

= Air-Conditioned Series outdoor floor-standing enclosure, MAX depth (1175 mm body, 800 mm usable mounting depth), 42 rack units, one air-conditioning unit, RAL 7035, IP55.

Width is fixed at 830 mm; SN-THERMA MAX differs only in body depth and usable mounting depth. There are no colour options.

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