Flaax INFINITY
Data center Network cabinets

H:42 W:800 D:1000

Heavy duty construction with welded front & rear frames, double layer vertical structure 3mm thickness total.

Side panels vertically divided.

Ready assembled or flat packed constructions are avaliable.

Vertical mounting rails are adjustable throughout the entire depth of the cabinet, multi folded 2mm thickness.

High-flow perforated single front curved door

High-flow perforated splited rear doors

High load carrying capacity (standard 1500kg 3307lbs)

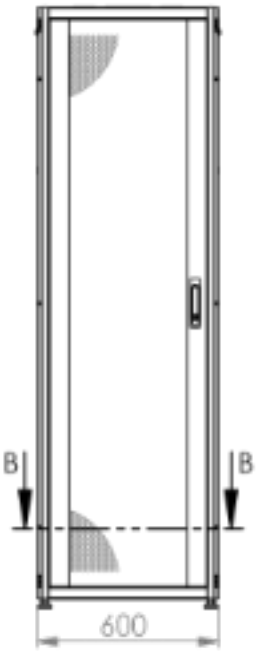
Optional fan-units into the roof or 19inch rack mount type fan unit or
Vertical fan-units for rear door (Fan Units not recommended for data center usage)

Technical Data

Height in U	42U
Material	Sheet Steel, DIN EN 10130-99 / DC-01 6112 / DC-7122
Colors	*RAL 9005 Black or 7035 L.gray*
Grounding countinuity	In accordance with the standard EN 61587-1: 2012 / EN 61010-1 / IEC 60917- IEC 60297
Standards	ISO9001-2015 IEC 61587-1 :2016 IEC 61587-2:2011 CE According the IEC/ISO 17050 – EN 62208:2011 & EN 60335-1 UL IEC 61587-1 - IEC 60068

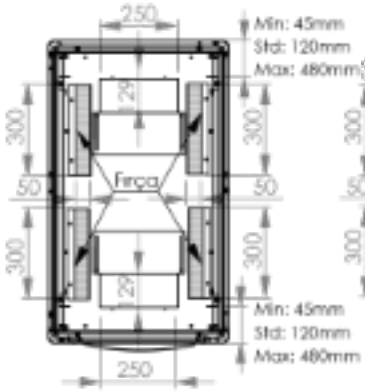
Rear view

Front view

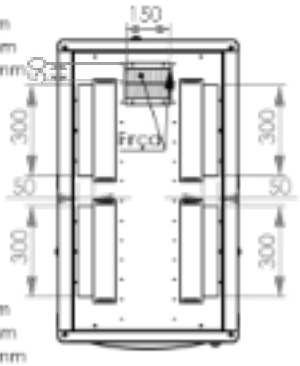


Side view

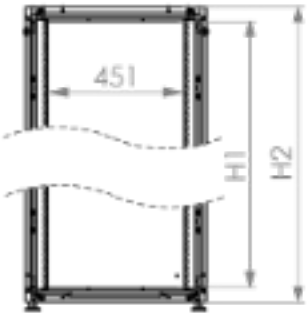
Bottom view



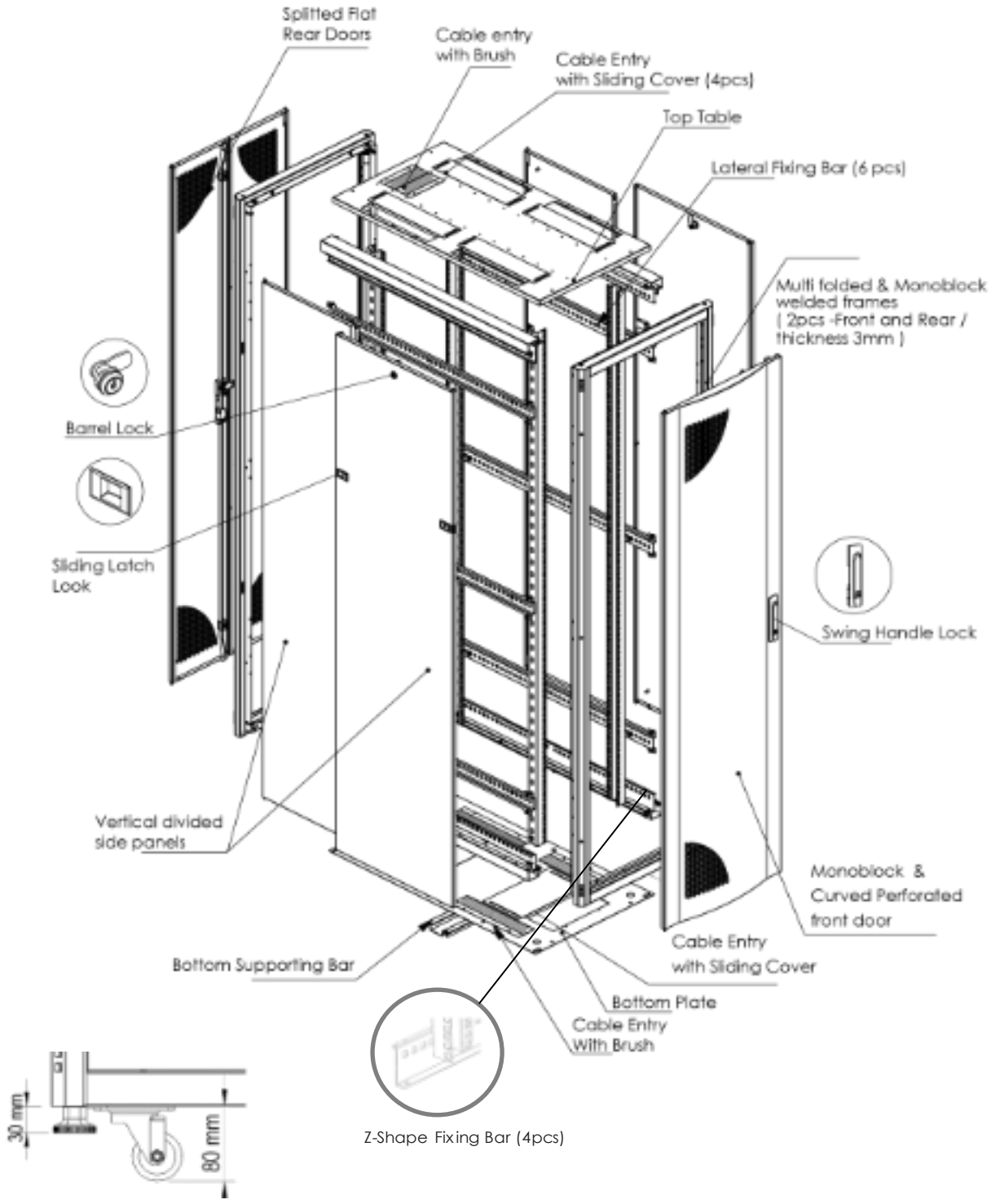
Top view



Inner view



Explode View



Standard : Levelling Feet Set 1 set: 4 qty
Optional: Wheel Set 1 Set: 4 qty (2 qty Brake, 2 qty Brakeless)

Packaging

TECHNICAL SPECIFICATIONS

PROTECTION INDEX

- IP20 According to IEC 61587-1 :2016 / IEC 61587-2:2011 / IEC 61587-3:2013
- IEC 60529
- IP20 :Rigid test rod diameter of 2.5 mm, 100 mm long (as specified by the standard) is pushed against any openings of the enclosure with the force of 3N

MECHANICAL PERFORAMANCE

- EN 61587-1 5.2.1 / 5.2.3
- Static mechanical load test (Performance level SL 12)
- Stiffness test (Performance level ST5)
- Dynamic mechanical load test (Performance level DL4V)
- Resonance point detection test Duration of lhe test at each frequency was 10 minutes
- Vibration test (Sinus-IEC 60068-2-6:Fc; 2007)
- Shock test (IEC 60068-2-27:Ea; 1987) Performance level DL4S
- Impact test (IEC 60068-2-75:Eh; 2014) (Performance level lK07)
- Permissible load carrying capacity : 1500kg

CLIMATIC TESTS (Performance level C2)

- Cold (IEC 60068-2-1 :2007;Ab) Temperature of the exposure: -25°C +/-3°C
- Dry heat (IEC 60068-2-2 :2007;Bd) Temperature of the exposure: +70°C +/-2°C
- Damp heat cyclic (IEC 60068-2-30:2005;Db ; (cyclic 2x), variant 2)

INDUSTRIAL ATMOSPHERE (Performance level A2)

- Salt mist test (IEC 60068-2-11 :1981 ;Ka)
- Sulphur dioxide test and hydrogen sulphide test (IEC 60068-2-42, IEC 60068-2-43 and IEC 60068-2-49

GROUNDING CONTINUITY

EN 61587-1 / EN 61010-1

- The continuity of the protection circuit is in accordance with the standard regulations. The measured resistance was less than 0.1 Ohm.

STANDARDS

1. **ISO9001-2008** Quality management system must be used in the production of 19" Rack cabinets
2. 19" Rack Cabinets must have a **TSE** Certificate **IEC 61587-1 :2016, IEC 61587-2:2011, IEC 61587-3:2013**
3. **IEC60917 – IEC 60297** standards
4. **CE** According the **IEC/ISO 17050 – EN 62208:2011 & EN 60335-1**
5. In addition, all of the main and auxiliary materials used in the manufacturing process must comply with the following standards

SHEET METAL: TS EN ISO 9001:2008; TS EN 10130 :2006; DIN EN 1030- EQV; BS EN 1030-EQV; NF A36-401.

ELECTROSTATIC POWDER PAINT: ISO 9001:2015 ASTM D523; ASTM D2794; DIN EN ISO 2811-1; ASTM D1186/D1400; Ral:9005 or Ral:7035.

VENTILATION UNITS (Fan Unit) "**EMC** EN55032:2015 & **LVD** IEC 62368-1 :2018

CONNECTION COMPONENTS (screw, nut, washer etc.)**"** TS EN ISO 7045; TS EN ISO 4032; RoHS IEC 62321 "

WHEEL SET **"** TS EN 12532 , TS EN 12533 , RoHS IEC 62321:2008"

LOCKS SYSTEMS **"**DIN-EN ISO 1043-1 PA6 GFR 30; DIN-EN 1774-ZnAl4Cu1.

TECHNICAL SPECIFICATIONS

1. Dimensions must comply with **IEC60297** standards. Cabinet height (42U- 45U- 47U)

- Width : 600mm
- Depth :1000mm

2. Main frame and profile structures must be manufactured and tested to provide axial (x, y, z) resistance that **meets EN 61587-1 / 5.2.1** and **5.2.2**, and external impact resistance that meets **EN 61587-1 / 5.3.3**. Dynamic load, vibration and mechanical impact **(IEC 60068-2-6 , IEC 60068-2-27)** test results must be certified by accredited laboratories..

3. Main profile structure must be a structure that would increase mechanical resistance with aesthetic appearance, folded with an angle of 45 degree and must consist of 6 bending. 2 front and rear frames must be with welded and framed monoblock structure and double layer structure, total thickness 3mm

4. Bottom plate must have cable access that would block dust inlet, bottom case must have 4pcs brush entry paths with dimensions 300x50mm & 2pcs cable entry point with sliding cover in the middle of bottom case with dimensions 250x129mm.

5. Rear door must be flat split type perforated (two wings) structure that allows High-flow performance for optimum front to rear airflow to keep equipment cool and support hot & cold aisle configurations in server room and data centers with it is 3 point locking mechanism.

6. Side panels must have a structure easy removable , it must provide ease of usage for users with it is lighweight and devided construction, it must provide, easy access to equipments for maintaining, replacing and managing cables , easy cable connection for side by side & must be compatible for in-row usage in Data center applications. Each side panel must have 1pcs barrel lock and 2pcs sliding latch locking mechanism.

7. Front door must be curved structure that allows High-flow performance for optimum front to rear airflow to keep equipment cool and support hot & cold aisle configurations in server room and data centers with it is 3 point locking mechanism.

8. To provide high resistance to impacts, cabinets must be coated by RAL 9005 or RAL 7035 Electrostatic powder coat to meet ISO 8130 and ASTM D 523 / 2794 standards and test result reports must be certificated. On flat metal surfaces, there must be 85±5 micron paint thickness and must be tested according to ASTM D2794; DIN EN ISO 2811-1; ASTM D1186/D1400 Ral:9005 or Ral:7035.

9. 4pcs lateral extension parts must have a structure that would increase resistance and strength of cabinet between front and rear monoblock frames.

10. 8pcs inner galvanize lateral connection parts must have a structure that would increase resistance and strength of cabinet between front and rear monoblock frames.

11. Solid top panel must be equipped with 4pcs cable entry paths with dimensions 300x50mm with sliding cover, and 1ea brush cable entry with the dimensions 150x100mm.

12.Vertical mounting rails must be adjustable throughout the entire depth of the cabinet and multi folded structurre high carrying high capacity with 2mm thickness Silk-screen mounting rails are providing ability to count U- Marking from top to down & down to up for easy device installation

13.Finger type and metal vertical organizers must be deployable in order to use for high-density cable management.

14.Cabinet locks: all locks used in cabinets must have the same coded-key and all covers of cabinets must have a lockable structure.

15.Fan units must be with the standards ISO 9001 :2015 , CE (89/336/EEC EMC EN55032:2015 LVD IEC 62368-1 :2018) , RoHS" , Noise 40/47dB , Air Flow M3/Hr 133/162 CFM 82/95 (***Fan Units not recommended for data center usage***).

16.All metal components in cabinets must be connected to one another electrically and grounding resistance must be maximum **0,1 ohm** according to **IEC 61010-1 / 6.5.1.3** standard. All proposed products must be tested to meet this standard and their results must be certificated by accredited laboratories.