



MICRO DATACENTER

H-42U W800 D1000





Technical Details

Features

19" Device Compatibility T-4000 Air Conditioning Electronic Swinghandle Water Sensor Heat Sensor Humidity Sensor Smoke Sensor Air Flow Sensor Switch PDU

Dimensions

Size: 42U Width: 800 mm Height: 2218 mm Depth: 1000 mm

Material

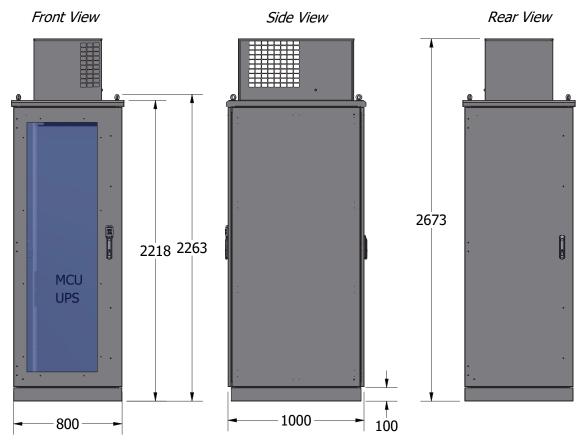
1.5 mm Galvanized

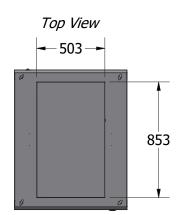
Appearance

Finish Surface : Powder Coating

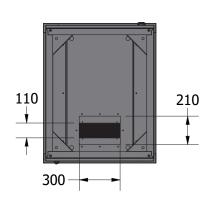
Color: RAL9005

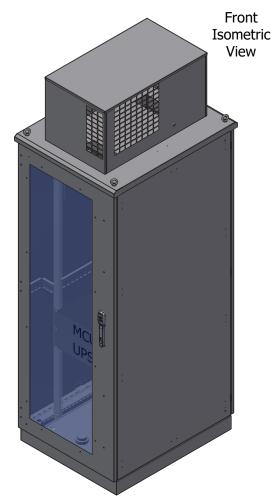




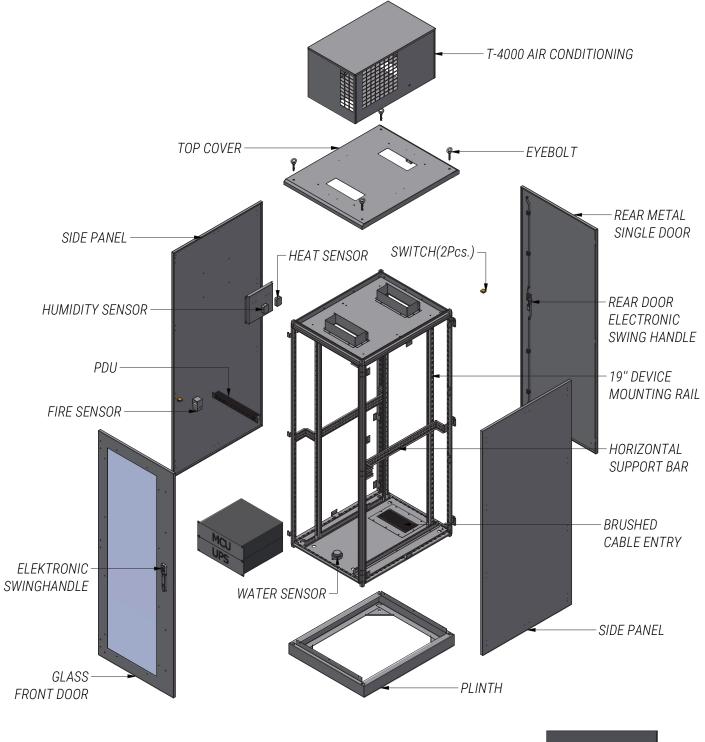


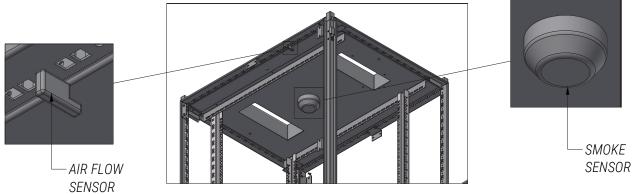
Bottom View





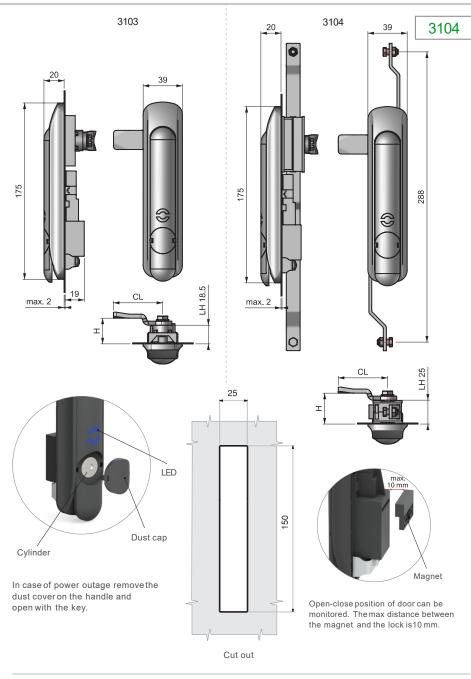








ELECTRONIC LOCKING SYSTEM





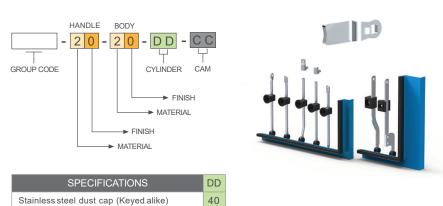
MATERIALS BODY:

DDY: Polyamide DIN-EN ISO 1043-1 PA6 GFR 30

HANDLE: Polyamide DIN-EN ISO

1043-1 PA6 GFR 30

CAM: Steel



32

Stainless steel dust cap (Keyed differ)





ELECTRONIC LOCKING SYSTEM

ELECTRONICSWINGHANDLE 3111





- Integrated RFIDreader.
- Ability to work mechanically in case of power outage
- · Capable to inform door and handle status
- · LEDindicators both on lock and reader
- · Supports RS485 protocol for other protocols please contact to
- · Can be control a swinghandle (3101,3102,3103 and 3104) other than itself
- 12VDCworking voltage
- LEDindicators

MATERIALS

HANDLE:

Polyamide DIN-EN ISO BODY:

1043-1 PA6 GFR 30 Polyamide DIN-EN ISO 1043-1 PA6 GFR 30

CAM: Steel



Electrical Specifications:

Operating Voltage: 12VDC Operating Temperature: +60/-10 C Nominal Operating Current:

Standby: 6mA Lock/ Unlock: 75mA Max. Curent: 400mA

PIN Connections;

PIN 1- GND

PIN 2- + 12V

PIN3- N/A

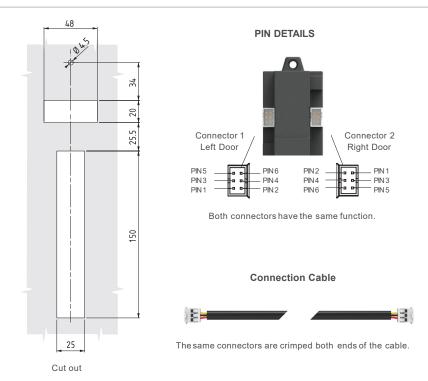
PIN 4- Door Position Sensor

PIN 5- Control Signal

PIN 6- Handle Position Sensor

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Lock Warning Signs			
Signal 1	S	While opening the lock	LED 1 blinks fast.
Signal 2		While closing the lock	LED 2 blinks fast.
Signal 3	C	When the lock is open	Both LEDs blink fast.
Signal 4		When the han- dle is open	Both LEDs not lit
Signal 5		Error	Both LEDs blink slow.
Signal 6		Ready	Both LEDs are lit.





Monitoring of Cabinet Door & Lock

Physical Security



Thanks to this solution of the CL series, we separate the security of the cabins with high importance from the authorization of the room and ensure that they are inaccessible without your knowledge and

With our solutions, it can be cabin-based authorization as well as door-based With the authorization method you prefer (card or password), you can instantly monitor and manage the status of the cabin doors in all your locations via the Sensawaycentral managem ent software.

CL 1004 / 1008 / 1016Control Modules



- It provides control and managem ent of cabin doors and locks
- The cabinet keeps key user authorizations and event logs in its memory
- · It communicates with Sensawayoverthe

Cabin Lock Solutions



- · It provides authorization and remote managem ent of cabinet doors
- There are two different options, keypad and Mifare card.
- Depending on the need, solutions are offered so that the front and back doors can be managed separatelyor together.

CL 1000 Cabinet Lock Interface



- · It provides the connection between the
- It provides energy to the locks over long distances and in case of insufficient energy.
- · One for each cabin is recomm ended

Monitoring of Cabinet Door & Lock

Physical Security



What can be done?

- You can authorize the cabinets separately located in the data center.
- You can ensure that the accessrights of the cabinets in the field can be managed centrally.
- · You can see the door open/closed status and lock lever positions of your cabinets instantly.
- By getting historical reports through Sensaway managem ent software; you can accessinformation such as who opened the
- cabinets, by what method and for how long. delete users).
- You can receive notifications for entries or vandalism attempts outside the time you
- · Optionally, you can open the door remotely



SENSORS

■ Climatic Sensors



TEMPERATURE SENSOR

measured the temperature he environment between -40 nd +80 °C with 0,5 °C precision



TEMPARATURE HUMIDITY SENSOR

It measures; the environment temperature between -40 °C and +80 °C with 0,5 °C precision and O.1 resolution; and measures the environment humidity between %0 and %100 RH with 1.8 % preci-sion and 1 resolution.



AIR FLOW SENSOR

Environmental Sensors



AIR QUALITY

[CO, H2, CH4, Ethanol, Isobutane, 1-10 ppm] It enables to evaluate the change of ambient air quality with the effect of smoke or pollutant gas-es with a sensitivity of 0-100. The recommended ideal range is rat-



MEDICAL GAS SENSORS



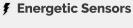
CARLETYPE WATER

the ground. Options for 1, 2, 5 meters are avail



POINT TYPE WATER

It is used for the detection of point water leaks that may occur on the floor of the environment.





VOLTAGE / FREQUENCY MEASUREMENT

Between 0 and 285 VAC interval 1% precision (Network/UPS)

Between 0 and 100 Hz interval, 1 Hz. precision (Network/UPS)

ENERGY AVAILABLE /

UNAVAILABLE SENSOR



MEASUREMENT OF GROUNDING VOLTAGE

It provides a reference value in terms of grounding quality, by measuring Earth - Neutral Volt-age between 0 and 30 VAC with 2% precision in the range.



ENERGY AVAILABLE/ UNAVAILABLE and SWITCH ON/OFF CONTROLLER

You may not only monitor instant available / unavailable situation of your energy but also you may switch on / off any device remotely, which was connected to the control unit.





SMOKE DETECTOR

t detects and informs the smoke caused by fire or cigarette in the



DRY CONTACT (YES/NO)



MOVEMENT SENSING (PIR)



EARTHQUAKE SENSOR

It detects earthquake motion in vibrations with acceleration val-ue that were specified in the TSE standards. During the earthquake, outputs can be taken for indoor gas and electricity cuts or for audio-visual siren.



IMPACT / SHOCK



TEOS+ 100RT 6-10kVA







Advanced DSP and 3-Level Technology

High Efficiency

PowerFactor 1.0













GENERAL SPECIFICATIONS

- Advanced DSP and 3-Leveltechnology
- Output power factor 1.0
- Active power factor correction (APFC),input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- •Wide input voltage range (110 288 Vac) and frequency range (40 70Hz)
- •50 / 60 Hz frequency auto sensing
- •Two modes of frequency conversion:50Hz input / 60Hz output or 60Hz input / 50Hz output
- Hot-swappable battery
- Flexible battery configuration (settable 16 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 12 A)
- Charging voltage and current configured by demands
- Linear debating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%

- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232,USB,RS485,SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust and self-diagnostic function, and abundant event log for check
- Available Options
- RS232and smart card slot included
- Optional parallel function, battery temperature compensation, SNMPcard, USB, RS485card, dry contacts, EMD, and SMS alarms



6-10kVA

TECHNICAL SPECIFICATIONS

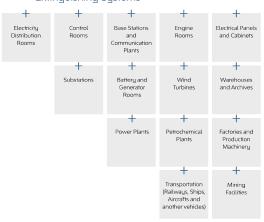
MODEL	Teos+ 106RT	Teos+110RT
Capacity	6 kVA / 6 kW	10 kVA / 10 kW
INPUT		
Input wiring	Single-phase three	e-wire (16+ N + PE)
Rated voltage	208/220/2	230 / 240 Vac
Voltage range	110 - 176 Vac (linear derating between 50%	and 100% load); 176 - 288 Vac (no derating)
Rated frequency	50/60Hz (al	uto-sensing)
Frequency range	40 -	70 Hz
Power factor	0.	99
Bypassvoltage range	- 40% ~ +15	5% (settable)
Total harmonic distortion (THDi)	≤!	5 %
OUTPUT		
Output wiring	Single-ph	nase (L-N)
Rated voltage	208 (PF= 0.9)/ 23	20 / 230 / 240 Vac
Voltage regulation	±	1%
Frequency	Synchronized to bypassin mainsmod	e;50/60 Hz + 0.1%Hzin battery mode
Waveform		soidal
Power factor	1.0	
Total harmonic distortion (THDv)	≤ 1%(linear load);≤ 4%(non-linear load);	
Crest factor	3:1	
Overload	105% -110% for 10 min, 110% - 12	25% for 1 min, 126% - 150% for 30 s
BATTERIES		
DC voltage	192 Vdc (192-2	240Vdc settable)
Number of battery	16 pcs (16 - 20 settable)	
Inbuilt battery (standard model)	12 V / 7 Ah x 16	12 V / 9 Ah x 16
Charging current	Standard model: 1 A; Long time model: 5 A (c	default),1 - 5 A settable, 12 A (optional; PF 0.9)
Recharge time	Standard model:90%capacity restored in 8 hours;Long time model:depend on the capacity of battery	
SYSTEM		
Efficiency	94% at 100% load, max. 94.5%	at 60% load, a 98% in ECO mode
Transfer time	0	ms
Protections	Short-circuit,overload,overtemperature,battery lo	w voltage, overvoltage, undervoltage and fan failure
Max.number of parallel connections		4
Communications	RS232(standard), USB/ RS485/ dry contacts/ SN	MP/battery temperature compensation (optional)
Display		+ LED
GENERAL		
Operating temperature	0°C	40°C
Storage temperature	-25°C~ 55°C (without battery)	
Relative humidity	0 - 95% (non-condensing)	
Altitude	≤ 1000 m, debating 1% for each additional 100 m	
IP rating		20
-		
Noise ievel at 1 m	≤ 55dB	≤ 58dB
Dimensions	88×440)	≤580B <580 (H) 0x660 (S)
Noise level at 1 m Dimensions (HxWxD) (mm) (*) Packaged dimensions (HxWxD) (mm) (*)	88x440) 176x440 168x514	x580 (H)
Dimensions (HxWxD) (mm) (*) Packaged dimensions	88x440) 176x440 168x514	x680 (H) 0x660 (S) x696 (H)
Dimensions (HxWxD) (mm) (*) Packaged dimensions (HxWxD) (mm) (*)	88x440) 176x440 168x514 418x554	x580 (H) 0x660 (S) x696 (H) 1x792 (S)

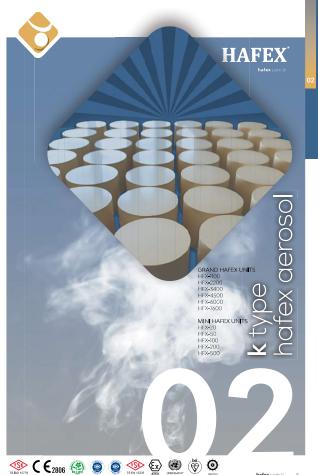


Types of Fires Which Aerosol Fire Extinguishers Are Effective

- + The aerosol fire extinguishers are used effectively in the following fire classes in a
- + Class A Fires: Fires of solid organic materials such as wood, coal, paper, grass, textile products, plastics and similar products.
- Class B Fires: Fires of liquid combustible materials such as gasoline, diesel oil, fuel oil, mineral oils, paint, varnish, thinner, alcohol, acetone, glue.
- Class C Fires: Fires of combustible gases such as LPG (liquefied petroleum gas), propane, natural gas, methane, hydrogen, acetylene and fires of gaseous material liquefied under pressure.
- Fires in electrical and electronic equipment, transformers, electrical distribution systems and panels, computer and data processing system cabinets, telecommunication devices.

Usage Areas of Aerosol Fire Extinguishing Systems

















GRAND HAFEX UNITS

MINI HAFEX UNITS

GRAND HAFEX UNITS

<u>HFX</u>1100

Model	HFX-1100
Compound	K (Potassium Nitrate Based)
Gross Weight	10300 gr. ±%3
Compound Weight	1100 gr.
Dimensions (mm)	210 (W) x 287 (L) x 200 (H)
Discharge Time	13-16 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment) EN 2: A, B, C, F

HFX2200



Model	HFX-2200
Compound	K (Potassium Nitrate Based)
Gross Weight	17600 gr. ±%3
Compound Weight	2200 gr.
Dimensions (mm)	287 (W) x 287 (L) x 240 (H)
Discharge Time	14-17 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment) EN 2: A, B, C, F

<u>HFX3400</u>



Mode	HFX-3400
Compound	K (Potassium Nitrate Based)
Gross Weight	20400 gr. ±%3
Compound Weight	3400 gr.
Dimensions (mm)	287 (W) x 287 (L) x 264 (H)
Discharge Time	14-17 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment) EN 2: A, B, C, F

<u>HFX**4500**</u>



Model	HFX-4500
Compound	K (Potassium Nitrate Based)
Gross Weight	28600 gr. ±%3
Compound Weight	4500 gr.
Dimensions (mm)	361 (W) x 361 (L) x 268 (H)
Discharge Time	15-18 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment) EN 2: A, B, C, F

<u>HFX</u>6000



Model	HFX-6000
Compound	K (Potassium Nitrate Based)
Gross Weight	33000 gr. ±%3
Compound Weight	6000 gr.
Dimensions (mm)	361 (W) x 361 (L) x 302 (H)
Discharge Time	16-19 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment)

<u>HFX</u>7600



Model	HFX-7600
Compound	K (Potassium Nitrate Based)
Gross Weight	39800 gr. ±%3
Compound Weight	7600 gr.
Dimensions (mm)	361 (W) x 361 (L) x 268 (H)
Discharge Time	17-20 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment) EN 2: A, B, C, F

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Model	HFX-20
Compound	K (Potassium Nitrate Based)
Gross Weight	500 gr. ±%2
Compound Weight	20 gr.
Dimensions (mm)	50 (W) x 50 (L) x 93 (H)
Discharge Time	3-5 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment) EN 2: A, B, C, F

<u>HFX</u>50

<u>HFX</u>20

Model	HFX-50
Compound	K (Potassium Nitrate Based)
Gross Weight	700 gr. ±%2
Compound Weight	50 gr.
Dimensions (mm)	50 (W) x 50 (L) x 130 (H)
Discharge Time	3-5 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment) EN 2: A, B, C, F

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MINI HAFEX UNITS

<u>HFX</u>100

Model	HFX-100
Compound	K (Potassium Nitrate Based)
Gross Weight	1330 gr. ±%4
Compound Weight	100 gr.
Dimensions (mm)	80 (W) x 80 (L) x 113 (H)
Discharge Time	4-6 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment) EN 2: A, B, C, F



<u>HFX</u>200

Model	HFX-200
Compound	K (Potassium Nitrate Based)
Gross Weight	1760 gr. ±%4
Compound Weight	200 gr.
Dimensions (mm)	80 (W) x 80 (L) x 147 (H)
Discharge Time	4-6 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment) EN 2: A, B, C, F





<u>HFX</u>500

Model	HFX-500
Compound	K (Potassium Nitrate Based)
Gross Weight	3980 gr. ±%3
Compound Weight	500 gr.
Dimensions (mm)	100 (W) x 100 (L) x 243 (H)
Discharge Time	5-7 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment) EN 2: A, B, C, F

















MINI HAFEX' UNITS

GRAND HAFEX UNITS



<u>HFX</u>1100S

Model	HFX-1100 S
Compound	S (Strontium Nitrate Based)
Gross Weight	10000 gr. ±%3
Compound Weight	1100 gr.
Dimensions (mm)	210 (W) x 287 (L) x 200 (H)
Discharge Time	16-19 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment)





Model	HFX-2200 S
Compound	S (Strontium Nitrate Based)
Gross Weight	16800 gr. ±%3
Compound Weight	2200 gr.
Dimensions (mm)	287 (W) x 287 (L) x 240 (H)
Discharge Time	20-23 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment) EN 2: A, B, C, F

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<u>HFX</u>20S

Model	HFX-20 S
Compound	S (Strontium Nitrate Based)
Gross Weight	495 gr. ±%2
Compound Weight	20 gr.
Dimensions (mm)	50 (W) x 50 (L) x 93 (H)
Discharge Time	4-6 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment) EN 2: A, B, C, F

HFX**50**S



Model	HFX-SD S
Compound	S (Strontium Nitrate Based)
Gross Weight	695 gr. ±%2
Compound Weight	50 gr.
Dimensions (mm)	50 (W) x 50 (L) x 130 (H)
Discharge Time	4-6 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment)

HFX**3400**S



Model	HFX-3400 S
Compound	S (Strontium Nitrate Based)
Gross Weight	19600 gr. ±%3
Compound Weight	3400 gr.
Dimensions (mm)	287 (W) x 287 (L) x 264 (H)
Discharge Time	25-28 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment) EN 2: A, B, C, F

<u>HFX</u>100S



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Model	HFX-100 S
Compound	S (Strontium Nitrate Based)
Gross Weight	1300 gr. ±%4
Compound Weight	100 gr.
Dimensions (mm)	80 (W) x 80 (L) x 113 (H)
Discharge Time	5-7 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment) EN 2: A, B, C, F



MINI HAFEX UNITS

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<u>HFX</u>200S

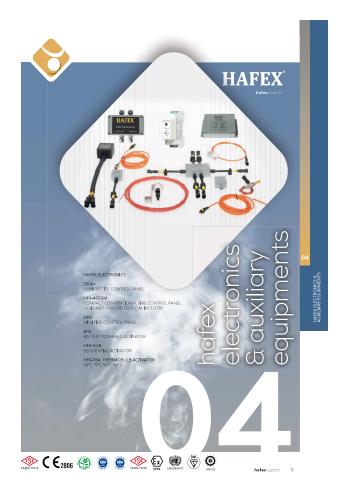


Model	HFX-200 S
Compound	S (Strontium Nitrate Based)
Gross Weight	1730 gr. ±%4
Compound Weight	200 gr.
Dimensions (mm)	80 (W) x 80 (L) x 147 (H)
Discharge Time	5-7 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A. B. C (Electrical Equipment)



<u>HFX</u>500S

Model	HFX-500 S
Compound	S (Strontium Nitrate Based)
Gross Weight	3930 gr. ±%3
Compound Weight	500 gr.
Dimensions (mm)	100 (W) x 100 (L) x 243 (H)
Discharge Time	6-8 Seconds
Activation Method	Electrical, Thermal (Optional)
Suitable Fire Classes	NFPA 10: A, B, C (Electrical Equipment) EN 2: A, B, C, F



16 **hafex**.com.tr