



# Outdoor Heavy duty enclosures catalogue

Toughest outdoor environments get their dedicated enclosures



[schneider-electric.com](https://schneider-electric.com)

Life Is On

**Schneider**  
Electric

*More and more projects of electrical switchboards and control panels involve an installation outdoor. Sometimes in the toughest outdoor environments.*

# Outdoor installation: enclosure's choice is crucial!

Choosing the right outdoor enclosure is a real stake for panel builders, installers and their customers.

**This is a crucial and a complex choice that involves much more than only weather conditions.**

Many other essential parameters like potential human interactions, risk of vandalism, installation, ability of the enclosure to be discreet... must be taken into account.

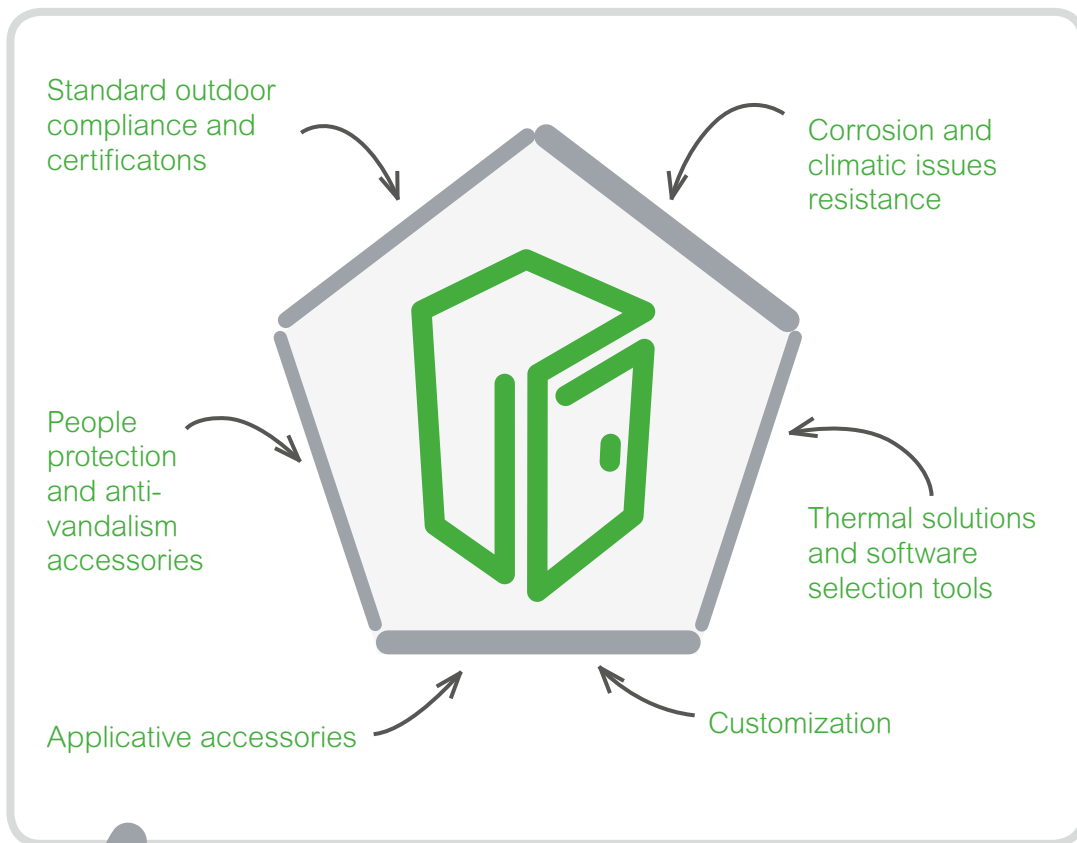
# 'Resist'

Concept by Schneider Electric:

## No outdoor parameter has been forgotten!

To make easier and safer the selection of the outdoor enclosure system, Schneider Electric has developed an outdoor Heavy Duty enclosures offer based on a global and unique design: the "Resist" concept.

The "Resist" concept gathers all parameters that must take into account in the selection of an outdoor enclosure system. Even those we sometimes forget.



## 'Resist':

The best way to avoid errors during enclosure's choice!

- A full Heavy Duty outdoor approach
- Enclosures tested and certified for toughest conditions
- Enclosures tested and certified for human interactions
- Continuity of service and long-lasting installation
- Energy efficiency solutions

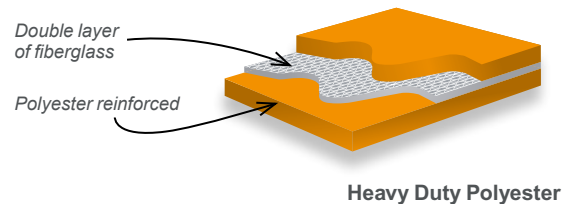
# Outdoor Heavy Duty enclosures offer

Tailored for the harshest outdoor conditions

## High resistance materials

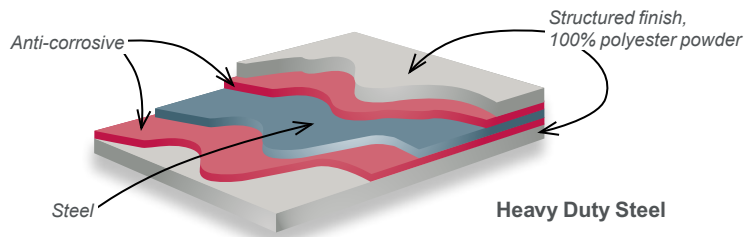
### Heavy Duty polyester solution

- Polyester reinforced with a double layer of fiberglass
- RAL 7035 grey
- Ingress protection rating according to IEC 60529:
  - IP65 for wall-mounting enclosures
  - IP55 for floor-standing enclosures
- Mechanical protection rating according to IEC 62262: IK10
- Pressure and shock resistant according to IEC 61439-5
- Fire resistant according to EN 1794-2



### Heavy Duty steel solution

- Heavy Duty Steel with anti-corrosive coating
- RAL 7035 grey
- Ingress protection rating according to IEC 60529:
  - IP66 for wall-mounting enclosures
  - IP55 for floor-standing enclosures
- Mechanical protection rating according to IEC 62262: IK10



## Extended tests and standards approach

Outdoor Heavy Duty enclosures offer has been tested and certified for:

### Outdoor enclosure standards

- IEC 61969-3 (climatic, biological and chemical tests)
- IEC 60297-3-100 (installation of electronic equipment)
- IEC 62208 (empty enclosures)
- UL508



### Anti-corrosion

ISO12944 C4H

### Anti-vandalism

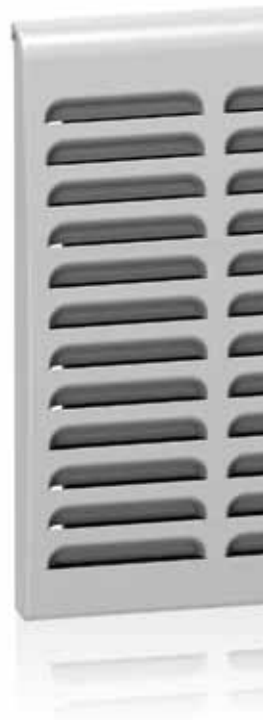
IEC 61439-5

### Anti-burglary

ENV 1627

### People safety

Electrical protection Class II, according to IEC 61439-1



## Innovative outdoor thermal solutions

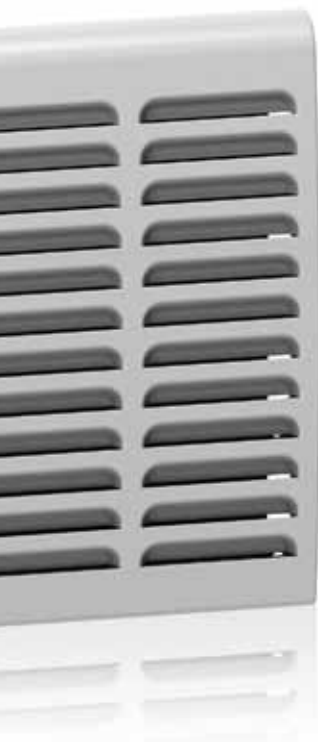


### Slim ventilation Fanbox

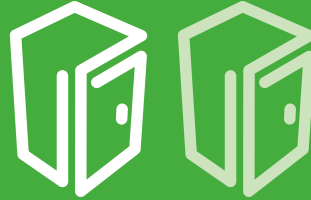
- Minimal depth inside (100 mm): 67% of installation space saving
- Maximal flow rate with IP55 G3 filter
- 230 V, 115 V and 48 VDC versions
- UL approved
- Centrifugal ventilation

### Slim IP55 HD Metal grille

- Minimal depth (35 mm)
- Optimised flow rate
- Anti-burglary accessory kit available (option)



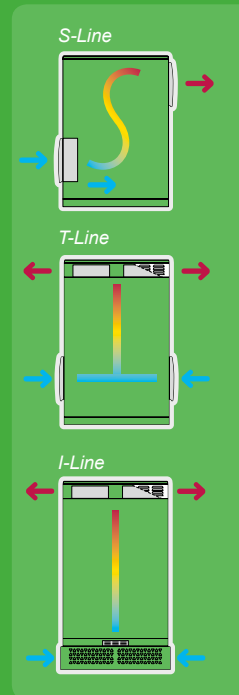
## Heavy duty multi-materials



Tested and certified to resist the toughest conditions



3 cooling architectures designed for your needs




Dedicated accessories to resist outdoor environments





# Polyester outdoor Heavy Duty enclosures

For public areas. Brings electrical safety, mechanical and chemical extreme resistance.



**+**

- Light material, easy to adapt
- Several colors available in customization
- High resistance and good behavior against weather elements
- People safety
- Anti-vandalism and anti-burglary solutions

### High resistance

- Protection against sharp-edge objects impacts - IEC 61439-1
- IP65 for wall-mounting & IP55 for floor-standing enclosures
- High impact resistance (IK10)
- Fire resistant according to EN 1794-2

### High safety level

- Electrical protection Class II, according to IEC 60950-1

### Anti-vandalism

Internal fiber-glass ultra reinforced polyester (pressure and shock tests according to IEC 61439-5)

### Anti-posting

Two versions as standard

- Plain door + plain back panel
- Anti-posting door + anti-posting back panel

**Suitable for... Public areas**  
*Road, rail transportation, harbours, Electricity public distribution, Telecom, Video control, Drinking water pumping.*



## Advanced configuration as standard

- Curved canopy to avoid water stagnation
- Metal parts protected against corrosion
- Locking system with key (1242E type) and padlock possibility
- Aluminium cable gland plate to easily drill holes and avoid corrosion (not on wall-mounting)
- Door retainer to keep the door open even with strong wind or when a vehicle passes by
- Document pocket to stock your documents in a practical place

## Flexible thermal architectures

- Ventilation can be integrated in roof or side
- 3 predesigned outdoor cooling architectures

## A full range of dedicated accessories



- Anti-burglary accessory tested and certified according to ENV 1627
- 19" support
- Ventilated plinths
- Roof ventilation module
- Lifting and fixing accessories

## Ready to be lifted

- Maximum transportable load up to 500 kg

*Prolonged exposure to UV radiation, wind and rain can cause changes in the enclosure without affecting the technical properties according to IEC 62208.*

*For long exposure applications, it is recommended to use coloured enclosures available through the P & S offer.*



# How to choose the right outdoor Heavy Duty enclosures:

Let the experts drive you through!

## Take into account...

### Weather conditions

- Rain
- Cold (up to -45°C)
- Heat (up to 80°C)
- Sun radiation (UV)
- Climatic event (storm, snow, freeze...)
- Humidity (up to 95%)
- ...



### Installation constraints

- Equipment
- Installation
- Maintenance operations



### Potential human interactions

- Linked to people (billboarding, burglary, vandalism)
- Linked to installation (aesthetics, access control, noise pollutions)

## Do not forget...

Polyester is a better heat insulating material than metal or aluminium, which conduct heat.

Efficient thermal management maximizes the performance and the service life of the electrical and electronic equipment.

# Steel outdoor Heavy Duty enclosures

For private areas. Best-in-class solution for the most corrosive environments



**Special protection coating**

**Heavy Duty accessories**

**Extreme resistance against corrosive and wet atmospheres**

## High resistance

- Anti-corrosive coating (certified C4H ISO12944)
- Anti-corrosion coating for all external metal parts
- Sun radiation protection (Colour: RAL 7035 grey)
- IP66 for wall-mounting & IP55 for floor-standing enclosures
- High impact resistance (IK10)

## Flexible thermal architectures

- Ventilation can be integrated in roof or side
- 3 predesigned outdoor cooling architectures

### Suitable for... Private areas

*Tunnels, Airports,  
Renewables (Solar farms...)  
Mining, Oil & gas...  
Water distribution & treatment...*





## Advanced configuration as standard

### Spacial SF Heavy Duty range

- Curved canopy to avoid water stagnation
- Metal parts protected against corrosion
- Locking system with key (1242E type) and padlock possibility
- Aluminium cable gland plate to easily drill holes and avoid corrosion
- Door retainer to keep the door open even with strong wind or when a vehicle passes by
- Document pocket to stock your documents in a practical place

### Spacial S3D Heavy Duty range

- Curved canopy to avoid water stagnation
- Locking system with metal key in 3-mm double bar lock
- Aluminium cable gland plate to easily drill holes and avoid corrosion
- Door retainer to keep the door open even with strong wind or when a vehicle passes by
- Document pocket to stock your documents in a practical place



### Range of accessories compatible with standard offer

- 19" support up to 2 m high
- Ventilated stainless-steel plinths
- Roof ventilation module
- Lifting and fixing accessories

## Ready to be lifted

- Maximum transportable load up to 1000 kg (for SFHD)



# How to choose the right outdoor Heavy Duty enclosures:

Let the experts drive you through!

## Take into account...

### Weather conditions

- Rain
- Cold (up to -45°C)
- Heat (up to 80°C)
- Sun radiation (UV)
- Climatic event (storm, snow, freeze...)
- Humidity (up to 95%)
- ...



### Installation constraints

- Equipment
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- Linked to people (billboarding, burglary, vandalism)
- Linked to installation (aesthetics, access control, noise pollutions)

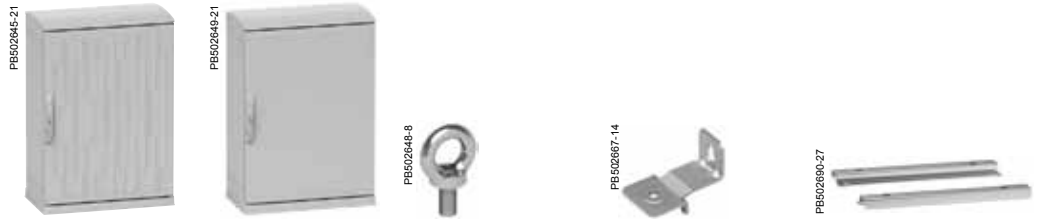




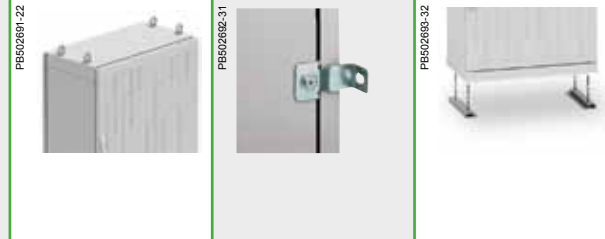
# Outdoor Heavy Duty enclosures

## References

# Polyester outdoor Heavy Duty enclosures



Characteristics					Polyester enclosure		Eyebolts	Wall fixing accessory	Floor fixing kit	
					Anti-posting door	Plain door				
Supply					-	-	4	4	1	
Height (mm)	Width (mm)	Depth (mm)	No. of doors	References						
<b>Wall-mounting enclosure</b>										
538	500	320	1	NSYPHDT553	NSYPHDT553P	-	NSYFMPHD	-	-	
788	500	320	1	NSYPHDT753	NSYPHDT753P	-	NSYFMPHD	-	-	
<b>Floor-standing enclosure</b>										
843	750	420	1	NSYPHDZT774	NSYPHDZT774P	NSYPLHD	-	NSYMF2PLAZ4		
		620	1	NSYPHDZT776	NSYPHDZT776P	NSYPLHD	-	NSYMF2PLAZ6		
1093	500	420	1	NSYPHDZT1054	NSYPHDZT1054P	NSYPLHD	-	NSYMF2PLAZ4		
		750	1	NSYPHDZT1074	NSYPHDZT1074P	NSYPLHD	-	NSYMF2PLAZ4		
1343	500	420	1	NSYPHDZT1254	NSYPHDZT1254P	NSYPLHD	-	NSYMF2PLAZ4		
		750	1	NSYPHDZT1274	NSYPHDZT1274P	NSYPLHD	-	NSYMF2PLAZ4		
	1250	620	1	NSYPHDZT1276	NSYPHDZT1276P	NSYPLHD	-	NSYMF2PLAZ6		
		420	2	NSYPHDZT12124	NSYPHDZT12124P	NSYPLHD	-	NSYMF2PLAZ4		
1593	750	620	2	NSYPHDZT12126	NSYPHDZT12126P	NSYPLHD	-	NSYMF2PLAZ6		
		420	1	NSYPHDZT1574	NSYPHDZT1574P	NSYPLHD	-	NSYMF2PLAZ4		
	1250	620	1	NSYPHDZT1576	NSYPHDZT1576P	NSYPLHD	-	NSYMF2PLAZ6		
		420	2	NSYPHDZT15124	NSYPHDZT15124P	NSYPLHD	-	NSYMF2PLAZ4		
2093	750	620	2	NSYPHDZT15126	NSYPHDZT15126P	NSYPLHD	-	NSYMF2PLAZ6		
		420	2 (1)	NSYPHDZT2074	NSYPHDZT2074P	NSYPLHD	-	NSYMF2PLAZ4		



(1) Vertical doors.

**Note:** the accessories of the Thalassa PLA enclosure can be installed in the Thalassa PHD enclosure.

## This range can be configured according to your needs

4 different services available:



**Assemble to order**



**Mounting of standard accessories**



**Painting**







**Machining**

The customized solutions Configured or Specific types use existing ranges from Universal Enclosures standard offer as a base for its development.

Depending on the modifications made on the enclosures or accessories, they could affect the certification or declarations of conformity existing in the standard ranges.

The certifications and declarations of conformity needed for the solution must be defined early in the process as part of the offer specifications.



Ventilated ZZ plinths 200 mm	ZZ plinth 200 mm	Roof ventilation module	Anti-burglary accessory	Internal door
1	1	1	1	1
-	-	-	-	NSYPAPLA55G
-	-	-	-	NSYPAPLA75G
NSYZZ274VHD	NSYZZ274G	NSYPCVR74HD	NSYBGN774HD	NSYPAPLA77G
NSYZZ276VHD	NSYZZ276G	NSYPCVR76HD	NSYBGN776HD	NSYPAPLA77G
NSYZZ254VHD	NSYZZ254G	NSYPCVR54HD	NSYBGN1054HD	NSYPAPLA105G
NSYZZ274VHD	NSYZZ274G	NSYPCVR74HD	NSYBGN1074HD	NSYPAPLA107G
NSYZZ254VHD	NSYZZ254G	NSYPCVR54HD	NSYBGN1254HD	NSYPAPLA125G
NSYZZ274VHD	NSYZZ274G	NSYPCVR74HD	NSYBGN1274HD	NSYPAPLA127G
NSYZZ276VHD	NSYZZ276G	NSYPCVR76HD	NSYBGN1276HD	NSYPAPLA127G
NSYZZ2124VHD	NSYZZ2124G	NSYPCVR124HD	NSYBGN12124HD	NSYPAPLA125G + NSYPAPLA127G
NSYZZ2126VHD	NSYZZ2126G	NSYPCVR126HD	NSYBGN12126HD	NSYPAPLA125G + NSYPAPLA127G
NSYZZ274VHD	NSYZZ274G	NSYPCVR74HD	NSYBGN1574HD	NSYPAPLA157G
NSYZZ276VHD	NSYZZ276G	NSYPCVR76HD	NSYBGN1576HD	NSYPAPLA157G
NSYZZ2124VHD	NSYZZ2124G	NSYPCVR124HD	NSYBGN15124HD	NSYPAPLA155G + NSYPAPLA157G
NSYZZ2126VHD	NSYZZ2126G	NSYPCVR126HD	NSYBGN15126HD	NSYPAPLA155G + NSYPAPLA157G
NSYZZ274VHD	NSYZZ274G	NSYPCVR74HD	NSYBGN2074HD	-
				



**Advantages of the configured offer:**

- Possibility to choose the color to better be in harmony with the landscape
- Pre-installed thermal management devices
- Receive ready-to-be-installed, coupled enclosures.



# Polyester outdoor Heavy Duty enclosures

## Mounting accessories



Characteristics			Metallic mounting plates		Insulating mounting plates	Modular distribution chassis	19" fixed chassis
Height (mm)	Width (mm)	No. of doors	Plain steel	Telequick	Plain polyester		
<b>Wall-mounting enclosure</b>							
538	500	1	NSYPMM55	NSYPMR55	NSYPMA55	-	-
788	500	1	NSYPMM75	NSYPMR75	NSYPMA75	NSYDLP76G	-
<b>Floor-standing enclosure</b>							
843	750	1	NSYPMM77	NSYPMR77	NSYPMA77	NSYDLP132G <sup>(2)</sup>	NSYBRF12PLAG + NSYSPLA75
1093	500	1	NSYPMM105	NSYPMR105	NSYPMA105	NSYDLP114G <sup>(2)</sup>	-
	750	1	NSYPMM107	NSYPMR107	NSYPMA107	NSYDLP198G <sup>(2)</sup>	NSYBRF17PLAG + NSYSPLA100
1343	500	1	NSYPMM125	NSYPMR125	NSYPMA125	NSYDLP133G <sup>(2)</sup>	-
	750	1	NSYPMM127	NSYPMR127	NSYPMA127	NSYDLP231G <sup>(2)</sup>	NSYBRF21PLAG + NSYSPLA125
1593	1250	2	NSYPMM1212	NSYPMR125 + NSYPMR127	NSYPMA1212	NSYDLP133G + NSYDLP231G <sup>(2)</sup>	NSYBRF21PLAG + NSYSPLA125 + NSYSBPLA <sup>(1)</sup>
	750	1	NSYPMM157	NSYPMR157	-	NSYDLP297G <sup>(2)</sup>	NSYBRF26PLAG + NSYSPLA150
2093	1250	2	NSYPMM1512	NSYPMR155 + NSYPMR157	-	NSYDLP171G + NSYDLP297G <sup>(2)</sup>	NSYBRF26PLAG + NSYSPLA150 + NSYSBPLA <sup>(1)</sup>
	750	2	NSYPMM207 or 2 x NSYPMM107	2 x NSYPMR107	-	-	2 x NSYBRF17PLAG + 2 x NSYSPLA100 + NSYPTZ44

(1) Enclosures of 1250 mm width allow 19" rack on the 750mm width door side.  
 (2) Needs the adapters plates NSYPTZ\*\*\*. See table below.

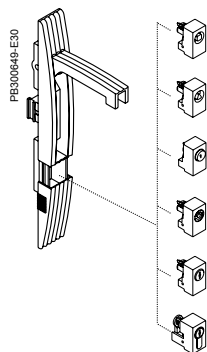


Characteristics		Technical uprights
Height (mm)	Dimensions	References
788	625	NSYTVR7
843	625	NSYTVR7
1093	875	NSYTVR10
1343	1125	NSYTVR125
2093	1375	NSYTVR15
	1875	2 x NSYTVR20

Characteristics		Step slides	Adapter plates*
Depth (mm)	No. of doors	References	
320	1	NSYDPLA3	NSYPTZ3
	2	2 x NSYDPLA3	NSYPTZ32P
420	1	NSYDPLA4	NSYPTZ4
	2	2 x NSYDPLA4	NSYPTZ42P
620	1	NSYDPLA6	NSYPTZ6
	2	2 x NSYDPLA6	NSYPTZ62P

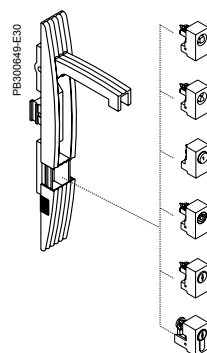
**Note:** enclosures with widths of 1000 and 1250 allow the installation of 4 uprights to integrate 2 mounting plates of 500 mm or of 500 and 750 mm.

\* To mount internal door, step slides, modular chassis.



### Blocks with insert shapes

Descriptions	References
Square 6 mm	NSYINS61
Triangular 6.5 mm	NSYINT61
Triangular 8 mm	NSYINT81



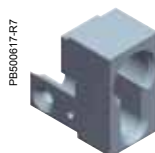
### Blocks with cylindrical barrels

Descriptions	References
Key 405 E	NSYIN405E1
Key 455	NSYIN4551
Key 1242 E	NSYIN1242E1



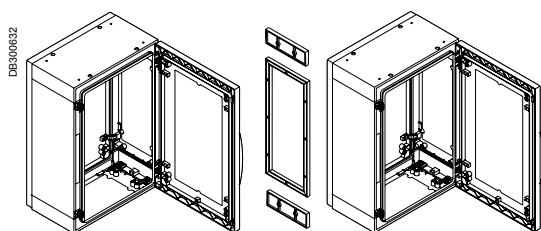
### Double bar

Reference
NSYINDB51



### Blocks with semi-cylindrical

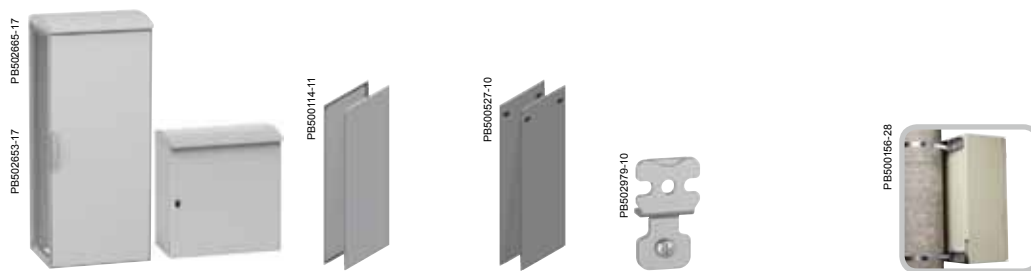
Descriptions	References
DIN Adapter	NSYINDIN2



### Coupling kits for PHD

Height (mm)	Horizontal			Vertical
	Depth (mm)			
	320	420	620	
538	NSYMUPLA53G	NSYMUPLA54G	-	NSYUVPLA
788	NSYMUPLA73G	NSYMUPLA74G	NSYMUPLA76G	
843	NSYMUPLA73G	NSYMUPLA74G	NSYMUPLA76G	
1093	NSYMUPLA103G	NSYMUPLA104G	-	
1343	NSYMUPLA123G	NSYMUPLA124G	NSYMUPLA126G	
1593	NSYMUPLA153G	NSYMUPLA154G	NSYMUPLA156G	
2093	-	NSYMUPLA204G	-	

# Steel outdoor Heavy Duty enclosures



Characteristics			Steel enclosure	Side panels		Stainless steel wall fixing lugs	Heavy duty post-fixing device
				For floor-standing enclosures		For wall-mounting enclosures	
Supply			-	2 side panels with fixing elements and sealing gasket		Set of 4 wall-fixing lugs with fixings and gasket	1
Height (mm)	Width (mm)	Depth (mm)		External fixing	Internal fixing		
<b>Wall-mounting enclosure</b>							
343	200	180	NSYS3HD3215	-	-	NSYAEFPFXSC	-
448	300	230	NSYS3HD4320	-	-	NSYAEFPFXSC	NSYSFPSC30HD
548	400	230	NSYS3HD5420	-	-	NSYAEFPFXSC	NSYSFPSC40HD
653	400	280	NSYS3HD6425	-	-	NSYAEFPFXSC	NSYSFPSC40HD
658	600	330	NSYS3HD6630	-	-	NSYAEFPFXSC	NSYSFPSC60HD
753	500	280	NSYS3HD7525	-	-	NSYAEFPFXSC	NSYSFPSC50HD
858	600	330	NSYS3HD8630	-	-	NSYAEFPFXSC	NSYSFPSC60HD
862	800	430	NSYS3HD8840	-	-	NSYAEFPFXSC	NSYSFPSC80HD
1062	600	430	NSYS3HD10640	-	-	NSYAEFPFXSC	NSYSFPSC60HD
	800	430	NSYS3HD10840	-	-	NSYAEFPFXSC	NSYSFPSC80HD
<b>Floor-standing enclosure</b>							
1262	600	430	NSYSFHD12640	NSY2SPHD124	NSY2SPIHD124	-	-
	800	430	NSYSFHD12840	NSY2SPHD124	NSY2SPIHD124	-	-
	1200	430	NSYSFHD1212402D	NSY2SPHD124	NSY2SPIHD124	-	-
1281	600	630	NSYSFHD12660	NSY2SPHD126	NSY2SPIHD126	-	-
	800	630	NSYSFHD12860	NSY2SPHD126	NSY2SPIHD126	-	-
	1200	630	NSYSFHD1212602D	NSY2SPHD126	NSY2SPIHD126	-	-
1662	800	430	NSYSFHD16840	NSY2SPHD164	NSY2SPIHD164	-	-
	1200	430	NSYSFHD1612402D	NSY2SPHD164	NSY2SPIHD164	-	-
1681	600	630	NSYSFHD16660	NSY2SPHD166	NSY2SPIHD166	-	-
	800	630	NSYSFHD16860	NSY2SPHD166	NSY2SPIHD166	-	-
	1200	630	NSYSFHD1612602D	NSY2SPHD166	NSY2SPIHD166	-	-
2062	800	430	NSYSFHD20840	NSY2SPHD204	NSY2SPIHD204	-	-

This range can be configured according to your needs

4 different services available:



Assemble to order



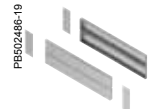
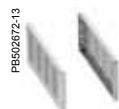
Mounting of standard accessories



Painting



Machining



	Heavy duty padlock	Stainless-steel plinths 200 mm			Roof ventilation
		Ventilated plinths		Standard plinths	
	For wall-mounting enclosures	Front and rear kit	Lateral kit	Front and rear kit	Lateral kit
	1	1 kit	1 kit	1 kit	1 kit
	NSYAEDLPADS3DHD	-	-	-	-
	NSYAEDLPADS3DHD	-	-	-	-
	NSYAEDLPADS3DHD	-	-	-	-
	NSYAEDLPADS3DHD	-	-	-	-
	NSYAEDLPADS3DHD	NSYSFVX6200	NSYSPLVX3200	NSYSFVX6200	NSYSPSX3200
	NSYAEDLPADS3DHD	-	-	-	-
	NSYAEDLPADS3DHD	NSYSFVX6200	NSYSPLVX3200	NSYSFVX6200	NSYSPSX3200
	NSYAEDLPADS3DHD	NSYSFVX8200	NSYSPLVX4200	NSYSFVX8200	NSYSPSX4200
	NSYAEDLPADS3DHD	NSYSFVX6200	NSYSPLVX4200	NSYSFVX6200	NSYSPSX4200
	NSYAEDLPADS3DHD	NSYSFVX8200	NSYSPLVX4200	NSYSFVX8200	NSYSPSX4200
	-	-	-	NSYSFVX6200	NSYSPSX4200SF
	-	NSYSFVX8200	NSYSPLVX4200SF	NSYSFVX8200	NSYSPSX4200SF
	-	NSYSFVX12200	NSYSPLVX4200SF	NSYSFVX12200	NSYSPSX4200SF
	-	NSYSFVX6200	NSYSPLVX6200SF	NSYSFVX6200	NSYSPSX6200SF
	-	NSYSFVX8200	NSYSPLVX6200SF	NSYSFVX8200	NSYSPSX6200SF
	-	NSYSFVX12200	NSYSPLVX6200SF	NSYSFVX12200	NSYSPSX6200SF
	-	NSYSFVX8200	NSYSPLVX4200SF	NSYSFVX8200	NSYSPSX4200SF
	-	NSYSFVX12200	NSYSPLVX4200SF	NSYSFVX12200	NSYSPSX4200SF
	-	NSYSFVX6200	NSYSPLVX6200SF	NSYSFVX6200	NSYSPSX6200SF
	-	NSYSFVX8200	NSYSPLVX6200SF	NSYSFVX8200	NSYSPSX6200SF
	-	NSYSFVX12200	NSYSPLVX6200SF	NSYSFVX12200	NSYSPSX6200SF
	-	NSYSFVX8200	NSYSPLVX4200SF	NSYSFVX8200	NSYSPSX4200SF

### Coupling kits for PHD



NSYSKAV



NSYKSKAV

Fixings that help to prevent to open the plinths from the outside with standard tools.

■ **Material:** stainless-steel.

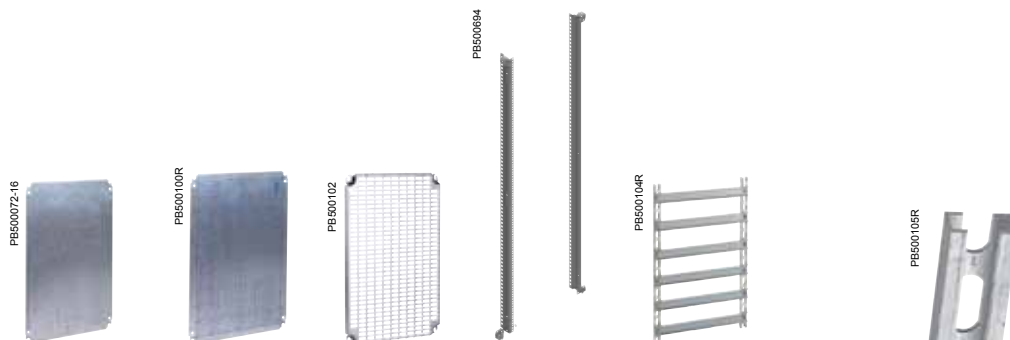
#### References

16 anti-vandalism screws for stainless-steel plinth  
Key for anti-vandalism screws for stainless-steel plinth

NSYSKAV  
NSYKSKAV

# Steel outdoor Heavy Duty enclosures

## Mounting accessories



Characteristics			Spacial S3HD and SFHD						
Height (mm)	Width (mm)	Depth (mm)	Plain mounting plates	Plain silkscreen	Telequick	19" fixed rack	DIN-rail chassis		Aluminum vertical rails
								Type of rail	
<b>Wall-mounting enclosure</b>									
343	200	180	NSYMM32	-	NSYMR32	-	-	-	NSYMDVR3
448	300	230	NSYMM43	NSYMS43	NSYMR43	-	NSYMD43	B	NSYMDVR4
548	400	230	NSYMM54	NSYMS54	NSYMR54	-	NSYMD54	B	NSYMDVR5
653	400	280	NSYMM64	NSYMS64	NSYMR64	-	NSYMD64	B	NSYMDVR6
658	600	330	NSYMM66	NSYMS66	NSYMR66	-	NSYMD66	A	NSYMDVR6
753	500	280	NSYMM75	NSYMS75	NSYMR75	-	NSYMD75	B	NSYMDVR7
858	600	330	NSYMM86	NSYMS86	-	NSYVDM17UF	NSYMD86	A	NSYMDVR8
862	800	430	NSYMM88	-	-	-	-	-	NSYMDVR8
1062	600	430	NSYMM106	-	NSYMR106	NSYVDM21UF	-	-	NSYMDVR10
	800	430	NSYMM108	-	NSYMR108	-	NSYMD108	A	NSYMDVR10
<b>Floor-standing enclosure</b>									
1262	600	430	NSYMP126	-	NSYSTMP...	NSYRCK24	-	-	-
	800	430	NSYMP128	-		NSYRCK24	-	-	-
	1200	430	NSYMP1212	-		NSYRCK24	-	-	-
1281	600	630	NSYMP126	-		NSYRCK24	-	-	-
	800	630	NSYMP128	-		NSYRCK24	-	-	-
	1200	630	NSYMP1212	-		NSYRCK24	-	-	-
1662	800	430	NSYMP128	-		NSYRCK33	-	-	-
	1200	430	NSYMP1612	-		NSYRCK33	-	-	-
1681	600	630	NSYMP126	-		NSYRCK33	-	-	-
	800	630	NSYMP128	-		NSYRCK33	-	-	-
	1200	630	NSYMP1612	-		NSYRCK33	-	-	-
2062	800	430	NSYMP208	-		NSYRCK42	-	-	-





Vertical upright		DIN rails		Reinforcements for mounting plates	Rails for heavy loads	Intermediate mounting plate	Mounting plate sliding rails
Technical	Standard	Symetrical	Asymetrical				
-	-	-	-	-	-	-	-
-	-	<b>NSYSDR30B</b>	-	-	-	-	-
-	-	<b>NSYSDR40B</b>	-	-	-	-	-
-	-	<b>NSYSDR40B</b>	-	-	-	-	-
-	-	<b>NSYSDR60A</b>	-	-	-	-	-
-	-	<b>NSYSDR50A</b>	-	-	-	-	-
-	-	<b>NSYSDR60A</b>	-	-	-	-	-
-	-	<b>NSYSDR80A</b>	-	-	-	-	-
-	-	<b>NSYSDR60A</b>	-	-	-	-	-
-	-	<b>NSYSDR80A</b>	-	-	-	-	-
<b>NSYTVR12</b>	-	<b>NSYSDR60</b>	<b>NSYADR60</b>	<b>NSYMPRK6</b>	<b>NSYHLCR40</b>	<b>NSYSIMP12</b>	<b>NSYSMPS4</b>
<b>NSYTVR12</b>	-	<b>NSYSDR80</b>	<b>NSYADR80</b>	<b>NSYMPRK8</b>	<b>NSYHLCR40</b>	<b>NSYSIMP12</b>	<b>NSYSMPS4</b>
<b>NSYTVR12</b>	-	<b>NSYSDR120</b>	<b>NSYADR120</b>	<b>NSYMPRK12</b>	<b>NSYHLCR40</b>	<b>NSYSIMP12</b>	<b>NSYSMPS4</b>
<b>NSYTVR12</b>	-	<b>NSYSDR60</b>	<b>NSYADR60</b>	<b>NSYMPRK6</b>	<b>NSYHLCR60</b>	<b>NSYSIMP12</b>	<b>NSYSMPS6</b>
<b>NSYTVR12</b>	-	<b>NSYSDR80</b>	<b>NSYADR80</b>	<b>NSYMPRK8</b>	<b>NSYHLCR60</b>	<b>NSYSIMP12</b>	<b>NSYSMPS6</b>
<b>NSYTVR12</b>	-	<b>NSYSDR120</b>	<b>NSYADR120</b>	<b>NSYMPRK12</b>	<b>NSYHLCR60</b>	<b>NSYSIMP12</b>	<b>NSYSMPS6</b>
<b>NSYTVR16</b>	-	<b>NSYSDR80</b>	<b>NSYADR80</b>	<b>NSYMPRK8</b>	<b>NSYHLCR40</b>	<b>NSYSIMP16</b>	<b>NSYSMPS4</b>
<b>NSYTVR16</b>	-	<b>NSYSDR120</b>	<b>NSYADR120</b>	<b>NSYMPRK12</b>	<b>NSYHLCR40</b>	<b>NSYSIMP16</b>	<b>NSYSMPS4</b>
<b>NSYTVR16</b>	-	<b>NSYSDR60</b>	<b>NSYADR60</b>	<b>NSYMPRK6</b>	<b>NSYHLCR60</b>	<b>NSYSIMP16</b>	<b>NSYSMPS6</b>
<b>NSYTVR16</b>	-	<b>NSYSDR80</b>	<b>NSYADR80</b>	<b>NSYMPRK8</b>	<b>NSYHLCR60</b>	<b>NSYSIMP16</b>	<b>NSYSMPS6</b>
<b>NSYTVR16</b>	-	<b>NSYSDR120</b>	<b>NSYADR120</b>	<b>NSYMPRK12</b>	<b>NSYHLCR60</b>	<b>NSYSIMP16</b>	<b>NSYSMPS6</b>
<b>NSYTVR20</b>	<b>NSYVR20</b>	<b>NSYSDR80</b>	<b>NSYADR80</b>	<b>NSYMPRK8</b>	<b>NSYHLCR40</b>	<b>NSYSIMP20</b>	<b>NSYSMPS4</b>

# Steel outdoor Heavy Duty enclosures

## Accessories

### High resistance materials

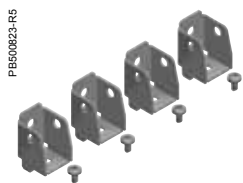


Characteristics	Standard coupling kit	19" rack coupling kit	Reinforced coupling
Supply	4 brackets, 2 flat connectors, sealing gasket and fixing elements	8 flat connectors, sealing gasket and fixing elements	4 reinforced connectors and fixing elements
References	NSYSFBK	NSYSFBK19	NSYSFBKR

### Mounting accessories



**Orthogonal brackets for Spacial SFHD**  
**Reference**  
 NSYSMP5B



**Bracket for fixing uprights for Spacial SFHD**  
**Reference**  
 NSYMFB



**Brackets for fixing mounting plates in back-to-back position for Spacial SFHD**  
**Reference**  
 NSYSBTB



**Brackets for fixing intermediate mounting plates in back-to-back position for Spacial SFHD**  
**Reference**  
 NSYSIBTB



**Mounting plate fixing brackets for Spacial SFHD**  
**Reference**  
 NSYSFPB

## Lifting accessories for SFHD



Characteristics	Eyebolts	Lifting brackets	Lifting bar			
Maximum amount of assembled enclosures to be lifted	1	2	2	3	4	5
Supply	4 eyebolts	4 brackets and fixing elements (M12 screws)	2 lifting bars and fixing elements (M12 screws)			
References	NSYSFEB	NSYSFELB	NSYSFTB16	NSYSFTB18	NSYSFTB24	NSYSFTB32

# Thermal Management

## Outdoor Heavy Duty cooling units



Characteristics	Side-mounting models		
<b>Cooling characteristics</b>			
Cooling power L35-L35	380 W (1297 Btu/h)	640 W (2184 Btu/h)	820 W (2798 Btu/h)
Cooling power L35-L50	240 W (819 Btu/h)	470 W (1604 Btu/h)	680 W (2320 Btu/h)
<b>Electric characteristics</b>			
Input voltage	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz	1 x 230 V / 50-60 Hz
Starting / Rated Intensity	6.0 A / 1.6 A	8.1 A / 2.1 A	10.8 A / 2.6 A
<b>Physical characteristics</b>			
External dimensions (H x W x D)	573 x 300 x 205 mm	718 x 331 x 235 mm	875 x 363 x 239 mm
Protection degree IP internal /external	IP55 / IP34	IP55 / IP34	IP55 / IP34
Noise level	60 dB	65 dB	65 dB
Weight of unit	17 kg	21 kg	27 kg
<b>References</b>			
	<b>NSYCUHD400</b>	<b>NSYCUHD600</b>	<b>NSYCUHD800</b>

## Outdoor Heavy Duty cooling units

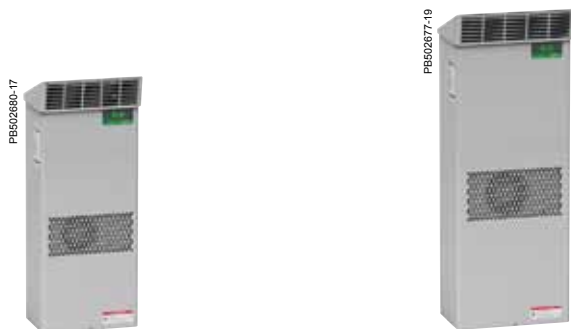


Characteristics	Fanbox	Filter	Roof filter for fanbox	IP55 HD Metal Grille	Anti-vandalism kit for HD metal grille	
Supply	1 (grille not included)	5	1	1 grille delivered with G3 M1 type synthetic filter (223 x 223 mm) and fixings	1 kit	
<b>References</b>						
	<b>Voltage</b>					
	24 V DC	<b>NSYCVF550M24FB</b>	<b>NSYCAF223T</b>	<b>NSYCAF190</b>	<b>NSYAG223LFHD</b>	<b>NSYCAAPVHD</b>
	48 V DC	<b>NSYCVF550M48FB</b>				
	115 V AC	<b>NSYCVF550M115FB</b>				
	230 V AC	<b>NSYCVF550M230FB</b>				

## Outdoor Heavy Duty cooling units



Types	NC thermostat	Double thermostat	NO thermostat	Thermostat with inverse contact	Temperature sensor
Characteristics	Control a resistance heater or an alarm	Control a resistance heater and a fan	Control a fan or an alarm	Control a resistance heater or a fan	PTC external temperature sensor (double insulation)
<b>References</b>					
0...+60 °C	<b>NSYCCOTHC</b>	<b>NSYCCOTHDF</b>	<b>NSYCCOTHDF</b>	<b>NSYCCOTHDF</b>	<b>NSYCCASTH</b>
+32...+140 °F	<b>NSYCCOTHCF</b>	<b>NSYCCOTHDF</b>	<b>NSYCCOTHDF</b>	<b>NSYCCOTHDF</b>	<b>NSYCCASTE</b>



	1000 W (3412 Btu/h) 790 W (2696 Btu/h)	1000 W (3412 Btu/h) 790 W (2696 Btu/h)	1600 W (5459 Btu/h) 1230 W (4197 Btu/h)	1600 W (5459 Btu/h) 1230 W (4197 Btu/h)	2000 W (6824 Btu/h) 1510 W (5152 Btu/h)	2900 W (9895 Btu/h) 2250 W (7677 Btu/h)	3850 W (13137 Btu/h) 2870 W (9793 Btu/h)
	1 x 230 V / 50-60 Hz 10.5 A / 3 A	2 x 400-440V / 50-60Hz 8 A / 2 A	1 x 230 V / 50-60 Hz 18 A / 5.3 A	2 x 400-440V / 50-60Hz 11 A / 2.9 A	3 x 400 V / 50-60 Hz 10 A / 2.5 A	3 x 400 V / 50-60 Hz 14 A / 2.6 A	3 x 400 V / 50-60 Hz 18 A / 3.6 A
	895 x 363 x 239 mm IP55 / IP34 65 dB 28 kg	895 x 363 x 239 (+58) mm IP55 / IP34 65 dB 29 kg	1009 x 415 x 261 mm IP55 / IP34 65 dB 40 kg	1009 x 415 x 261 mm IP55 / IP34 65 dB 42 kg	1009 x 415 x 261 mm IP55 / IP34 65 dB 54 kg	1416 x 512 x 365 mm IP55 / IP34 70 dB 84 kg	1416 x 512 x 365 mm IP55 / IP34 70 dB 85 kg
	<b>NSYCUHD1K</b>	<b>NSYCUHD1K2P4</b>	<b>NSYCUHD1K6</b>	<b>NSYCUHD1K62P4</b>	<b>NSYCUHD2K3P4</b>	<b>NSYCUHD3K3P4</b>	<b>NSYCUHD4K3P4</b>

## Aluminium resistance heaters



Resistance heaters with fan		
Power (W)	Voltage (V)	References
200	115 AC	<b>NSYCRS200W115V</b>
	230 AC	<b>NSYCRS200W230V</b>
250	115 AC	<b>NSYCR250W115VV</b>
	230 AC	<b>NSYCR250W230VV</b>
400	115 AC	<b>NSYCR400W115VV</b>
	230 AC	<b>NSYCR400W230VV</b>

## Ultra thin resistance heaters



Ultra thin resistance heaters*					
Power (W)	Voltage (V)	Height (mm)	Width (mm)	Depth (mm)	References
10	120	130	250	1.6	<b>NSYCRS10W120V</b>
	240	130	250	1.6	<b>NSYCRS10W240V</b>
25	120	130	250	1.6	<b>NSYCRS25W120V</b>
	240	130	250	1.6	<b>NSYCRS25W240V</b>
50	120	200	320	1.6	<b>NSYCRS50W120V</b>
	240	200	320	1.6	<b>NSYCRS50W240V</b>
100	120	280	450	1.6	<b>NSYCRS100W120V</b>
	240	280	450	1.6	<b>NSYCRS100W240V</b>
200	120	400	650	1.6	<b>NSYCRS200W120V</b>
	240	400	650	1.6	<b>NSYCRS200W240V</b>

\* Ultra thin resistance heaters can be manufactured with different dimensions and power ratings than those indicated above. Please contact us.

## Resistance heaters



Thermofans		
Power (W)	Voltage (V)	References
400/550	120 AC	<b>NSYCRP1W120VTVC</b>
	230 AC	<b>NSYCRP1W230VTVC</b>

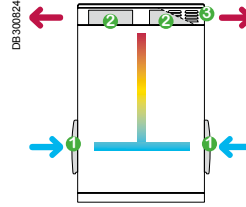
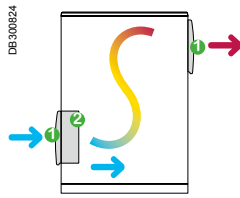


# Outdoor Heavy Duty enclosures

## Ventilation architectures

**New**

- ① IP55 metal grille
- ② Fanbox
- ③ Roof ventilated module
- ④ Ventilated plinths
- ⑤ IP54 grille



	S-Line	T-Line
Architecture benefits	<ul style="list-style-type: none"> <li>■ Most common and competitive architecture</li> <li>■ Maximum heat dissipation to extract 800 W-1000 W</li> <li>■ <math>\Delta T^\circ</math> of 5°C</li> <li>■ Easy access to mount-dismount fanbox</li> <li>■ Air flow in horizontal axis</li> </ul>	<ul style="list-style-type: none"> <li>■ High capacity of extraction calories up to 1500 W</li> <li>■ Noise level with 1 fan: 55 dB when installed inside the upper ventilation module</li> <li>■ <math>\Delta T^\circ</math> of 5°C</li> <li>■ Air flow in vertical axis</li> </ul>

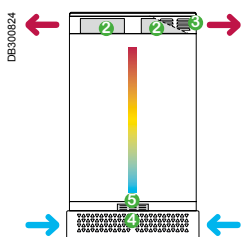
	IP55 metal grille		Fanbox		IP55 metal grille		Fanbox	Roof ventilation module
	Door	Side	Door	Side	Door	Side	(1 filter NSYCAF190 for each Fanbox)	


**Polyester outdoor HD enclosure**

References	Amount to be installed				Amount to be installed				References
NSYPHDT553	-	-	-	-	-	-	-	-	-
NSYPHDT553P	-	-	-	-	-	-	-	-	-
NSYPHDT753	-	-	-	-	-	-	-	-	-
NSYPHDT753P	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYPHDT774	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDT774P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDT776	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDT776P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDT1054	-	1	-	1	-	1	1	1	NSYPCVR54HD
NSYPHDT1054P	1 to 2	1	1 to 2	1	1 to 2	1	1	1	NSYPCVR54HD
NSYPHDT1074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDT1074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDT12124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDT12124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDT12126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDT12126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDT1254	-	1	-	1	-	1	1	1	NSYPCVR54HD
NSYPHDT1254P	1 to 3	1	1 to 3	1	1 to 3	1	1	1	NSYPCVR54HD
NSYPHDT1274	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDT1274P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDT1276	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDT1276P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDT15124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDT15124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR124HD
NSYPHDT15126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDT15126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYPCVR126HD
NSYPHDT1574	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDT1574P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDT1576	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDT1576P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR76HD
NSYPHDT2074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	NSYPCVR74HD
NSYPHDT2074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYPCVR74HD

**Steel outdoor HD enclosure**

References	Amount to be installed				Amount to be installed				References
NSYS3HD8630	1 to 2	-	1 to 2	-	1 to 2	-	-	-	-
NSYS3HD8840	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	NSYS3CVR84HD
NSYS3HD10640	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	1	NSYS3CVR64HD
NSYS3HD10840	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	NSYS3CVR84HD
NSYSFHD12640	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	NSYSFCVR64HD
NSYSFHD12660	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1 to 3	1	1	NSYSFCVR66HD
NSYSFHD12840	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	NSYSFCVR84HD
NSYSFHD12860	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	NSYSFECA66HD
NSYSFHD16660	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1	1	NSYSFCVR66HD
NSYSFHD16840	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	NSYSFCVR84HD
NSYSFHD16860	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	NSYSFECA66HD
NSYSFHD20840	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	NSYSFCVR84HD
NSYSFHD1212402D	1 to 4	1 to 3	1 to 4	1 to 2	1 to 4	1 to 2	1 to 3	1	NSYSFCVR124HD
NSYSFHD1212602D	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 2	1 to 3	1	NSYSFCVR126HD
NSYSFHD1612402D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYSFCVR124HD
NSYSFHD1612602D	1 to 4	1 to 4	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	NSYSFCVR126HD



 This table helps to configure thermal architectures, but it is highly recommended to use ProClima Software to ensure the right thermal solution according to the selected architecture.

**I-Line**

- Integrated architecture particularly suitable for public areas
- High capacity of extraction calories up to 1500 W
- Noise level with 1 fan: 55 dB when installed inside the upper ventilation module
- Good extraction flow rate power
- Air flow in vertical axis

<b>IP54 outlet grille</b> (NSYCAG223LPF + G3 filter NSYCAF223T)	<b>Ventilated plinths</b>	<b>Fanbox</b> (1 filter NSYCAF190 for each Fanbox)	<b>Roof ventilation module</b>
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Amount to be installed		References		Amount to be installed		References	
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1	1	NSYZZ254VHD	-	1	1	NSYPCVR54HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2124VHD	-	1 to 3	1	NSYPCVR124HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1 to 3	1	NSYZZ2126VHD	-	1 to 3	1	NSYPCVR126HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ276VHD	-	1 to 2	1	NSYPCVR76HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-
1 to 2	1	NSYZZ274VHD	-	1 to 2	1	NSYPCVR74HD	-

Amount to be installed		References		Amount to be installed		References	
1	1	NSYSPFVX6200	NSYSPSX3200	-	-	-	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYS3CVR84HD	-
1	1	NSYSPFVX6200	NSYSPLVX4200	1	1	NSYS3CVR64HD	-
1	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYS3CVR84HD	-
1	1	NSYSPFVX6200	NSYSPLVX4200	1	1	NSYSFCVR64HD	-
1	1	NSYSPFVX6200	NSYSPLVX6200	1	1	NSYSFCVR66HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX6200	1 to 2	1	NSYSFECA66HD	-
1	1	NSYSPFVX6200	NSYSPLVX6200	1	1	NSYSFCVR66HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX6200	1 to 2	1	NSYSFECA66HD	-
1 to 2	1	NSYSPFVX8200	NSYSPLVX4200	1 to 2	1	NSYSFCVR84HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX4200	1 to 3	1	NSYSFCVR124HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX6200	1 to 3	1	NSYSFCVR126HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX4200	1 to 3	1	NSYSFCVR124HD	-
1 to 3	1	NSYSPFVX12200	NSYSPLVX6200	1 to 3	1	NSYSFCVR126HD	-

# Outdoor Heavy Duty enclosures

## Certifications

Test description	Standard	Standard title	Certification	Declaration
<b>POLYESTER</b>				
<b>Thalassa PHD</b>				
IP55, IK10, lifting: 500 kg max. (IP65 for wall-mounting)	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Class II Insulation	IEC 61439-1: 2011	Low-voltage switchgear and controlgear assemblies Part 1: general rules	-	✓
Strength of materials and parts	IEC 61439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: assemblies for power distribution in public networks	●	-
Corrosion resistance C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	-	✓
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stiffness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: environmental requirements, tests and safety aspects	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Fire resistance	EN 1794-2: 2011	Vandalism: fire resistance	-	✓
Posting	Internal test	Door antiposting internal test	-	✓
Single door: types 1, 2, 3, 3R, 4, 4X, 5, 12 & 13 Double door: types 1, 2, 3, 3R, 5, 12 & 13	UL 508 A: 2007	Standard for Industrial Control Panels	●	-
<b>STEEL</b>				
<b>Spacial SFHD (floor-standing enclosures)</b>				
IP55, IK10, lifting: 1000 kg max.	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Strength of materials and parts	IEC 61.439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: Assemblies for power distribution in public networks	●	-
Corrosion resistance C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stiffness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: environmental requirements, tests and safety aspects	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Single door: types 1, 3R, 12, 12K Double door: types 1, 3R, 12, 12K	UL 508 A: 2007	Standard for Industrial Control Panels	●	-
<b>Spacial S3HD (wall-mounting enclosures)</b>				
IP66, IK10, lifting: 200 kg max.	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
Strength of materials and parts	IEC 61.439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: Assemblies for power distribution in public networks	●	-
Corrosion resistance C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
Climatic test, Biological Test, Resistance against chemically and mechanical active substances. Mechanical test, Lifting and stiffness test	IEC 61969-3: 2011	Electronic "Mechanical structures for electronic equipment - Outdoor enclosures" Part 3: environmental requirements, tests and safety aspects	●	-
Space for electronics	IEC 60297-3-100: 2009	Mechanical structures for electronic equipment Dimensions of mechanical structures of the 482.6 mm (19 in) series - Part 3-100: basic dimensions of front panels, subracks, chassis, racks and cabinets	-	✓
Dimensional	EIA-310-E	Cabinets, Racks, Panels, and associated equipment	-	✓
Single door: types 1, 2, 3, 3R, 4, 4X, 5, 12 & 13	UL 508 A: 2007	Standard for Industrial Control Panels	●	-

Test description	Standard	Standard title	Certification	Declaration
<b>HD ACCESSORIES</b>				
<b>HD THERMAL MANAGEMENT</b>				
<b>Fanbox</b>				
NSYCVF Series are intended for mounting on the flat surface of a Type 12 or 12K enclosure	UL 508A CAN/CSA-C22.2 No. 14, CAN/CSA C22.2 No. 94-M91 CAN/CSA C22.2 No. 73	Industrial Control Panels Industrial Control Equipment Special Purpose Enclosures Electrically Equipped Machine Tools	●	-
<b>IP55 HD Metal grille (NSYCAG223LFHD)</b>				
IP55 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Corrosion resistance C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems - part 6: laboratory performance testing methods	●	-
<b>Anti-vandalism kit for HD metal grille (NSYCAAPVHD)</b>				
Resistance Class 2	ENV 1627: 2011	Burglar resistance - Requirements and classification	●	-
<b>Upper ventilation module (PHD / SFHD / S3HD)</b>				
IP55 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Corrosion resistance at level C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
<b>HD POLYESTER ENCLOSURES</b>				
<b>Anti-burglary accessory (NSYBGN***HD)</b>				
Resistance Class 2	ENV 1627: 2011	Burglar resistance - Requirements and classification	●	-
Corrosion resistance at level C4H	ISO 12.944: 1999	Paints and varnishes-corrosion protection of steel structures by protective paint systems Part 6: laboratory performance testing methods	●	-
<b>ZZ plinths (NSYZZ*** &amp; NSYZZ***VHD)</b>				
ZZ Plinth: IP44 (in conditions of use) Ventilated ZZ Plinth: IP43 (in conditions of use)	IEC 60.529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓
<b>Eyebolts (NSYPLHD)</b>				
Maximum load 500Kg	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	-	✓
<b>HD STEEL ENCLOSURES</b>				
<b>Stainless steel plinths (NSYSPFVX*** / NSYSPLVX*** / NSYSPSX*** / NSYSPSX***)</b>				
Ventilated plinth: IP20 (in conditions of use) Standard plinth: IP30 (in conditions of use)	IEC 60.529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓

# Expert's tools available

## ProClima software



This indispensable tool for all installers has recently been updated:

### Offer updating

- Complete outdoor Heavy Duty enclosures offer
- New thermal management solutions: airing, ventilation, control, exchangers and cooling...

### Outdoor data source file and formulas

- Outdoor algorithm
- Other variables can be taken into account (temperature/humidity/radiation)

### Output data

- Google Maps function to measure the temperature is included now
- Free weather data access for more than 10.000 weather station (Heat, Cold, Humidity, Sun radiation, Wind...)
- Energy efficiency criteria
- Iterations with same enclosure and different high to reduce thermal solution

### Outdoor technical support information

## ProClima software

- 1st free-of-charge thermal software dedicated to outdoor calculations
- User-friendly and easy to use
- Reliable thermal solutions database
- Only solutions to match the characteristics of the installation are proposed
- Optimized thermal solutions versus equipment

## Spacial.conf



Get your enclosure pre-engineered for your special needs

Spacial.conf software gives you total autonomy to configure and quote your outdoor Heavy Duty enclosures with services (cut-outs, painting, accessory mounting) in less than 3 minutes. Spacial.conf is designed for convenient, error-free, and time-saving orders.

For more information, please consult our guide: CPTG006\_EN



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