Outdoor Heavy Duty enclosures catalogue

Toughest outdoor environments get their dedicated enclosures



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.

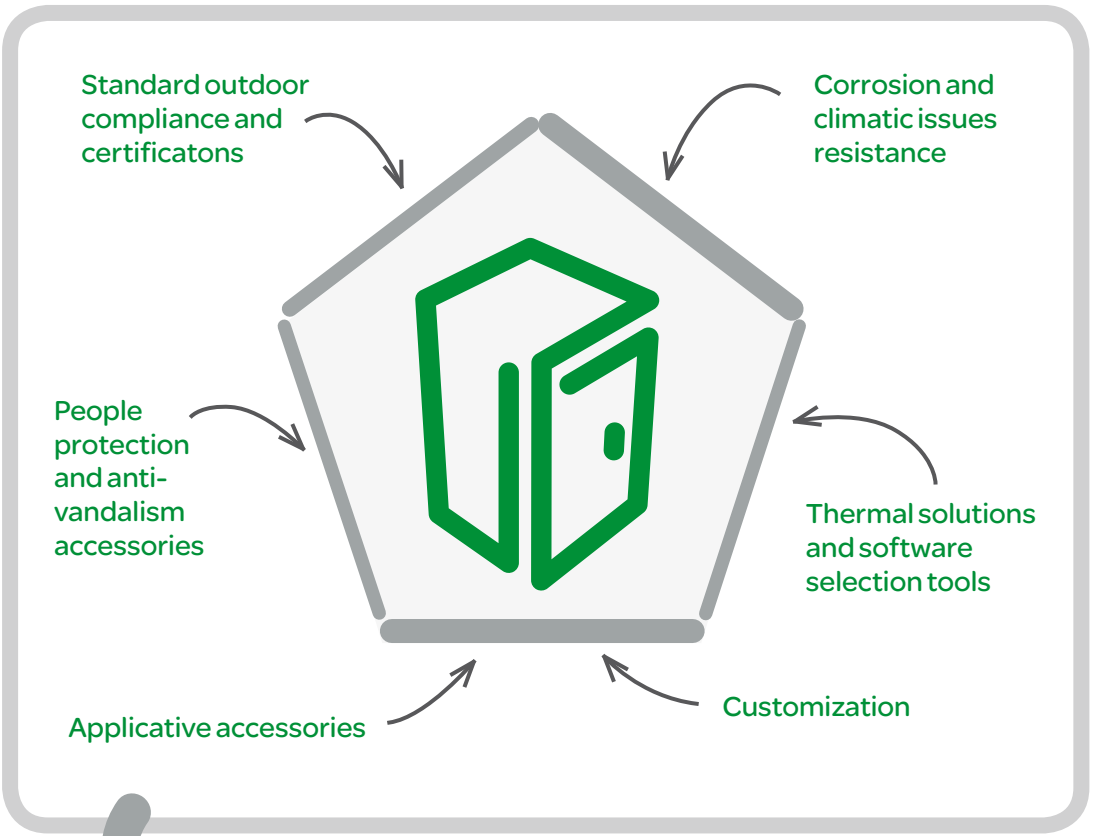
'Resist'

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!

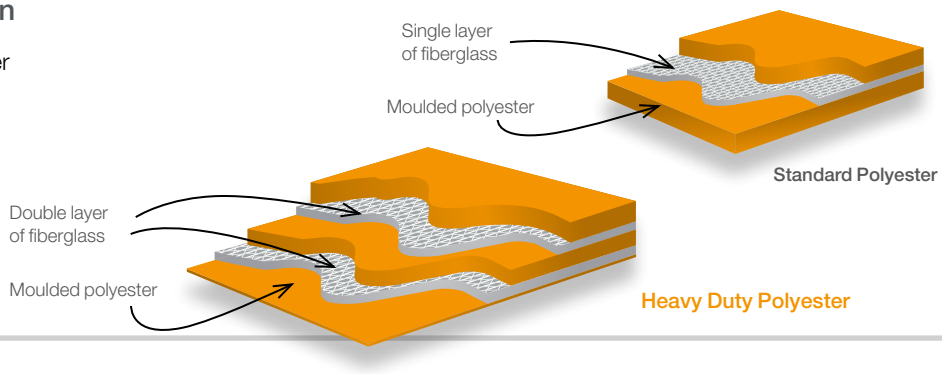
- A full Heavy Duty outdoor approach
- Enclosures tested and certified for toughest conditions
- Enclosures tested and certified for human interactions
- Continuity of service and long-lasting installation
- Energy efficiency solutions

Outdoor Heavy Duty enclosures offer:
Tailored for the harshest outdoor conditions!

High resistance materials

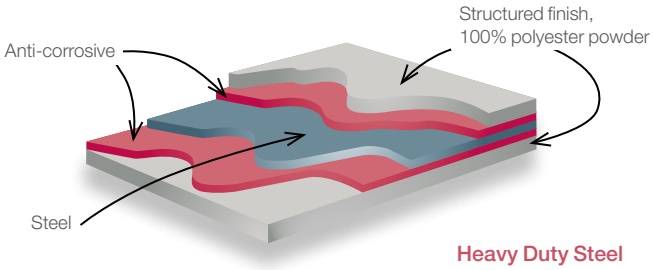
Heavy Duty polyester solution

- Multiple layers of fiberglass polyester
- RAL 7035 paint
- IP65 for wall-mounting and IP55 for floor-standing enclosures
- IK10 impact rating
- Fire resistant



Heavy Duty steel solution

- Heavy Duty Steel with anti-corrosive coating
- RAL 7035 paint
- IP66 for wall-mounting and IP55 for floor-standing enclosures
- IK10 impact rating
- Fire resistant



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 (IP protection)
- UL508

+

Anti-corrosion
ISO12944 C4H

Anti-vandalism
IEC 61439-5

Anti-burglary
ENV1627

People safety
Electrical protection Class II, according to IEC 61439-1



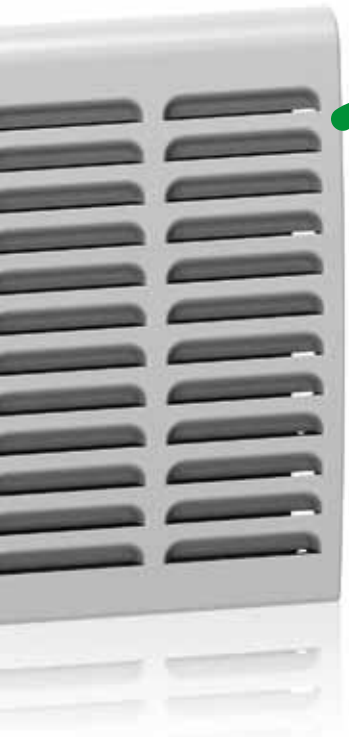
Innovative outdoor thermal solutions

Energy Efficiency



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



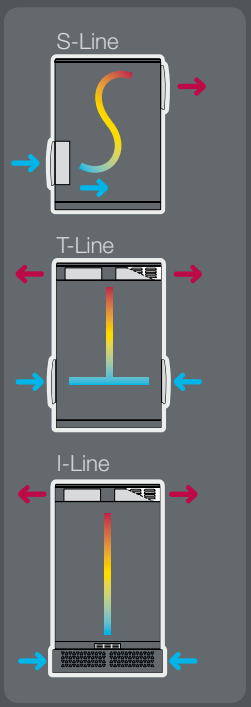
Slim IP55 HD Metal grille

> 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:
Lightness and extreme resistance gathered in a single skin

- Light material, easy to adapt
- Several colors available in customization
- High resistance and good behavior against water and wet ambient
- People immunity
- Anti-vandalism and anti-burglary solutions



High resistance

> Sun radiation protection (RAL 7035 paint)
> IP65 for wall-mounting & IP55 for floor-standing enclosures
> High impact resistance (IK 10)
> Fire resistant

High safety level

> High electrical hazard protection (strengthened insulation)
> 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-billboarding posting

Front door and plain door versions

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 ENV1627
> 19" support up to 2 m high
> Trays for batteries
> Ventilated plinths
> Roof ventilation module
> Lifting and fixing accessories

Ready to be lifted

> Maximum transportable load up to 500 kg





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: Best-in-class solution for the most corrosive environments

New protection coating

New Heavy Duty accessories

Single skin material

Extreme resistance against corrosive and wet atmospheres



High resistance

> HD steel with anti-corrosive coating (certified C4H ISO12944)
> Anti-corrosion coating for all external metal parts
> Sun radiation protection (RAL 7035 paint)
> IP66 for wall-mounting & IP55 for floor-standing enclosures
> High impact resistance (IK 10)
> Fire resistant

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
- Installation
- Maintenance operations

Potential human interactions

- 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**				
Wall-mounting enclosure								
538	500	320	1	**NSYPHDT553**	**NSYPHDT553P**	-	**NSYFMPHD**	-
788	500	320	1	**NSYPHDT753**	**NSYPHDT753P**	-	**NSYFMPHD**	-
Floor-standing enclosure								
843	750	420	1	**NSYPHDZT774**	**NSYPHDZT774P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
		620	1	**NSYPHDZT776**	**NSYPHDZT776P**	**NSYPLHD**	-	**NSYMF2PLAZ6**
1093	500	420	1	**NSYPHDZT1054**	**NSYPHDZT1054P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
	750	420	1	**NSYPHDZT1074**	**NSYPHDZT1074P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
1343	500	420	1	**NSYPHDZT1254**	**NSYPHDZT1254P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
	750	420	1	**NSYPHDZT1274**	**NSYPHDZT1274P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
		620	1	**NSYPHDZT1276**	**NSYPHDZT1276P**	**NSYPLHD**	-	**NSYMF2PLAZ6**
	1250	420	2	**NSYPHDZT12124**	**NSYPHDZT12124P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
		620	2	**NSYPHDZT12126**	**NSYPHDZT12126P**	**NSYPLHD**	-	**NSYMF2PLAZ6**
1593	750	420	1	**NSYPHDZT1574**	**NSYPHDZT1574P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
		620	1	**NSYPHDZT1576**	**NSYPHDZT1576P**	**NSYPLHD**	-	**NSYMF2PLAZ6**
	1250	420	2	**NSYPHDZT15124**	**NSYPHDZT15124P**	**NSYPLHD**	-	**NSYMF2PLAZ4**
		620	2	**NSYPHDZT15126**	**NSYPHDZT15126P**	**NSYPLHD**	-	**NSYMF2PLAZ6**
2093	750	420	2*	**NSYPHDZT2074**	**NSYPHDZT2074P**	**NSYPLHD**	-	**NSYMF2PLAZ4**







** Vertical doors.*

This range can be configured according to your needs

4 differents services available:

- Assemble to order
- Mounting of standard accessories
- Painting
- Machining

Polyester outdoor Heavy Duty enclosures











	Ventilated ZZ plinths 200 mm	ZZ plinth 200 mm	Roof ventilation module	Anti-burglary accessory	Internal door
	1	1	1	1	1
	-	-	-	-	**NSYPAPLA55**
	-	-	-	-	**NSYPAPLA75**
	NSYZZ274VHD	**NSYZZ274G**	**NSYPCVR74HD**	**NSYBGN774HD**	**NSYPAPLA77**
	NSYZZ276VHD	**NSYZZ276G**	**NSYPCVR76HD**	**NSYBGN776HD**	**NSYPAPLA77**
	NSYZZ254VHD	**NSYZZ254G**	**NSYPCVR54HD**	**NSYBGN1054HD**	**NSYPAPLA105**
	NSYZZ274VHD	**NSYZZ274G**	**NSYPCVR74HD**	**NSYBGN1074HD**	**NSYPAPLA107**
	NSYZZ254VHD	**NSYZZ254G**	**NSYPCVR54HD**	**NSYBGN1254HD**	**NSYPAPLA125**
	NSYZZ274VHD	**NSYZZ274G**	**NSYPCVR74HD**	**NSYBGN1274HD**	**NSYPAPLA127**
	NSYZZ276VHD	**NSYZZ276G**	**NSYPCVR76HD**	**NSYBGN1276HD**	**NSYPAPLA127**
	NSYZZ2124VHD	**NSYZZ2124G**	**NSYPCVR124HD**	**NSYBGN12124HD**	**NSYPAPLA125 + NSYPAPLA127**
	NSYZZ2126VHD	**NSYZZ2126G**	**NSYPCVR126HD**	**NSYBGN12126HD**	**NSYPAPLA125 + NSYPAPLA127**
	NSYZZ274VHD	**NSYZZ274G**	**NSYPCVR74HD**	**NSYBGN1574HD**	**NSYPAPLA157**
	NSYZZ276VHD	**NSYZZ276G**	**NSYPCVR76HD**	**NSYBGN1576HD**	**NSYPAPLA157**
	NSYZZ2124VHD	**NSYZZ2124G**	**NSYPCVR124HD**	**NSYBGN15124HD**	**NSYPAPLA155 + NSYPAPLA157**
	NSYZZ2126VHD	**NSYZZ2126G**	**NSYPCVR126HD**	**NSYBGN15126HD**	**NSYPAPLA155 + NSYPAPLA157**
	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	Width	No of doors	Plain steel	Telequick	Plain polyester		
Wall-mounting enclosures							
538	500	1	**NSYPMM55**	**NSYPMR55**	**NSYPMA55**	-	-
788	500	1	**NSYPMM75**	**NSYPMR75**	**NSYPMA75**	**NSYDLP76**	-
Floor-standing enclosures							
843	750	1	**NSYPMM77**	**NSYPMR77**	**NSYPMA77**	**NSYDLP132**	**NSYBRF12PLA** + (2 x **NSYSPLA75**)
1093	500	1	**NSYPMM105**	**NSYPMR105**	**NSYPMA105**	**NSYDLP114**	-
	750	1	**NSYPMM107**	**NSYPMR107**	**NSYPMA107**	**NSYDLP198**	**NSYBRF17PLA** + (2 x **NSYSPLA100**)
1343	500	1	**NSYPMM125**	**NSYPMR125**	**NSYPMA125**	**NSYDLP133**	-
	750	1	**NSYPMM127**	**NSYPMR127**	**NSYPMA127**	**NSYDLP231**	**NSYBRF21PLA** + (2 x **NSYSPLA125**)
	1250	2	**NSYPMM1212**	**NSYPMR125** + **NSYPMR127**	**NSYPMA1212**	**NSYDLP133** + **NSYDLP231**	-
1593	750	1	**NSYPMM157**	**NSYPMR157**	-	**NSYDLP297**	**NSYBRF26PLA** + (2 x **NSYSPLA150**)
	1250	2	**NSYPMM1512**	**NSYPMR155** + **NSYPMR157**	-	**NSYDLP171** + **NSYDLP297**	-
2093	750	2	**NSYPMM207** or 2 x **NSYPMM107**	2 x **NSYPMR107**	-	-	2 x (**NSYBRF17PLA** + (2 x **NSYSPLA100**))







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

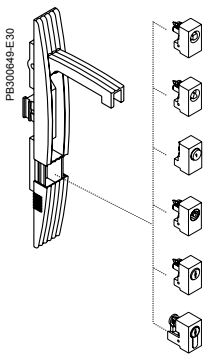
Note: enclosures with widths of 1000 and 1250 allow the installation of 4 uprights to integrate 2 mounting plates of 500 mm or of 500 and 750 mm.

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	-	**NSYPTZ62P**

** to mount internal door, step slides, modular and 19" chassis.*

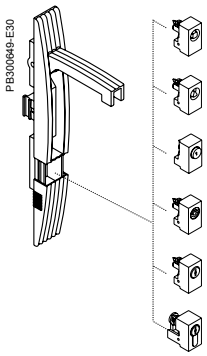
Polyester outdoor Heavy Duty enclosures

Mounting accessories



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**



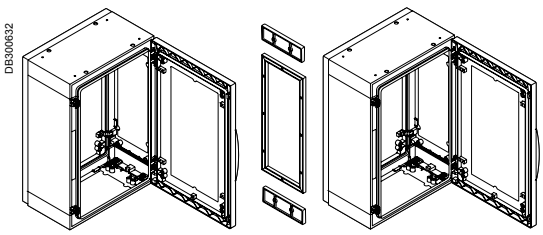
Double bar

Reference
NYYINDB51



Blocks with semi-cylindrical

Descriptions	Reference
DIN Adaptater	**NSYINDIN2**

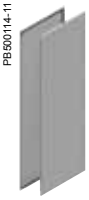


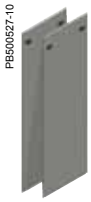
Coupling kits for PHD

	Horizontal			Vertical
Height (mm)	Depth (mm) 320	420	620	
538	**NSYMUPLA53**	**NSYMUPLA54**	-	**NSYUVPLA**
788	**NSYMUPLA73**	**NSYMUPLA74**	**NSYMUPLA76**	
843	**NSYMUPLA73**	**NSYMUPLA74**	**NSYMUPLA76**	
1093	**NSYMUPLA103**	**NSYMUPLA104**	-	
1343	**NSYMUPLA123**	**NSYMUPLA124**	**NSYMUPLA126**	
1593	**NSYMUPLA153**	**NSYMUPLA154**	**NSYMUPLA156**	
2093	-	-	**NSYMUPLA204**	

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		
Wall-mounting enclosure							
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**
Floor-standing enclosure							
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 differents services available:

- Assemble to order
- Mounting of standard accessories
- Painting
- Machining

Steel outdoor Heavy Duty enclosures


PB500461-13


PB502671-18


PB502672-13


PB502484-22


PB502486-19


PB502670-20

Heavy duty padlock	Stainless-steel plinths 200 mm Ventilated plinths		Standard plinths		Roof ventilation module
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	1
NSYAEDLPADS3DHD	-	-	-	-	-
NSYAEDLPADS3DHD	-	-	-	-	-
NSYAEDLPADS3DHD	-	-	-	-	-
NSYAEDLPADS3DHD	-	-	-	-	-
NSYAEDLPADS3DHD	**NSYSPFVX6200**	**NSYSPLVX3200**	**NSYSPSX6200**	**NSYSPSX3200**	-
NSYAEDLPADS3DHD	-	-	-	-	-
NSYAEDLPADS3DHD	**NSYSPFVX6200**	**NSYSPLVX3200**	**NSYSPSX6200**	**NSYSPSX3200**	-
NSYAEDLPADS3DHD	**NSYSPFVX8200**	**NSYSPLVX4200**	**NSYSPFX8200**	**NSYSPSX4200**	**NSYS3CVR84HD**
NSYAEDLPADS3DHD	**NSYSPFVX6200**	**NSYSPLVX4200**	**NSYSPSX6200**	**NSYSPSX4200**	**NSYS3CVR64HD**
NSYAEDLPADS3DHD	**NSYSPFVX8200**	**NSYSPLVX4200**	**NSYSPFX8200**	**NSYSPSX4200**	**NSYS3CVR84HD**
-	-	-	**NSYSPFX6200**	**NSYSPSX4200SF**	**NSYSFCVR64HD**
-	**NSYSPFVX8200**	**NSYSPLVX4200SF**	**NSYSPFX8200**	**NSYSPSX4200SF**	**NSYSFCVR84HD**
-	**NSYSPFVX12200**	**NSYSPLVX4200SF**	**NSYSPFX12200**	**NSYSPSX4200SF**	**NSYSFCVR124HD**
-	**NSYSPFVX6200**	**NSYSPLVX6200SF**	**NSYSPFX6200**	**NSYSPSX6200SF**	**NSYSFCVR66HD**
-	**NSYSPFVX8200**	**NSYSPLVX6200SF**	**NSYSPFX8200**	**NSYSPSX6200SF**	**NSYSFCVR86HD**
-	**NSYSPFVX12200**	**NSYSPLVX6200SF**	**NSYSPFX12200**	**NSYSPSX6200SF**	**NSYSFCVR126HD**
-	**NSYSPFVX8200**	**NSYSPLVX4200SF**	**NSYSPFX8200**	**NSYSPSX4200SF**	**NSYSFCVR84HD**
-	**NSYSPFVX12200**	**NSYSPLVX4200SF**	**NSYSPFX12200**	**NSYSPSX4200SF**	**NSYSFCVR124HD**
-	**NSYSPFVX6200**	**NSYSPLVX6200SF**	**NSYSPFX6200**	**NSYSPSX6200SF**	**NSYSFCVR66HD**
-	**NSYSPFVX8200**	**NSYSPLVX6200SF**	**NSYSPFX8200**	**NSYSPSX6200SF**	**NSYSFCVR86HD**
-	**NSYSPFVX12200**	**NSYSPLVX6200SF**	**NSYSPFX12200**	**NSYSPSX6200SF**	**NSYSFCVR126HD**
-	**NSYSPFVX8200**	**NSYSPLVX4200SF**	**NSYSPFX8200**	**NSYSPSX4200SF**	**NSYSFCVR84HD**

Anti-vandalism kit for plinths


PB502687-7

NSYSKAV


PB502689-29

NSYKSKAV

Fixings that help to prevent to open the plinths from the outside with standard tools.
- **Material:** stainless-steel.

References	
8 anti-vandalism screws for stainless-steel plinth	**NSYSKAV**
Key for anti-vandalism screws for stainless-steel plinth	**NSYKSKAV**

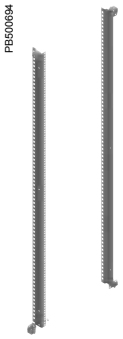
Steel outdoor Heavy Duty enclosures

Mounting accessories













Characteristics			Spacial S3HD and SFHD						
Height	Width	Depth	Plain mounting plates	Plain silkscreen	Telequick	19" fixed rack	DIN-rail chassis	Type of rail	Aluminum vertical rails
Wall-mounting enclosure									
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**
Floor-standing enclosure									
1262	600	430	**NSYMP126**	**-**	**NSYSTMP series**	**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**	**-**	-	**-**

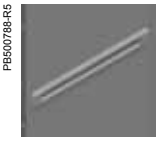
Steel outdoor Heavy Duty enclosures

Mounting accessories for

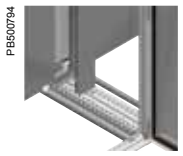


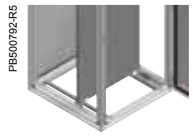










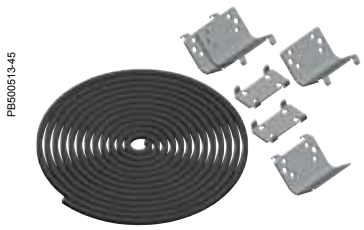


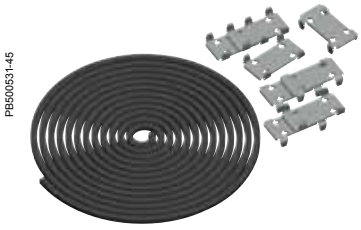
	Technical vertical upright	Standard vertical upright	DIN rails		Reinforcements for mounting plates	Rails for heavy loads	Intermediate mounting plate	Mounting plate sliding rails
			Symetrical	Asymetrical				
	-	-	-	-	-	-	-	-
	-	-	NSYSDR30B	NSYADR30W	-	-	-	-
	-	-	NSYSDR40B	NSYADR40W	-	-	-	-
	-	-	NSYSDR40B	NSYADR40W	-	-	-	-
	-	-	NSYSDR60A	NSYADR60W	-	-	-	-
	-	-	NSYSDR50A	NSYADR50W	-	-	-	-
	-	-	NSYSDR60A	NSYADR60W	-	-	-	-
	-	-	NSYSDR80A	NSYADR80W	-	-	-	-
	-	-	NSYSDR60A	NSYADR60W	-	-	-	-
	-	-	NSYSDR80A	NSYADR80W	-	-	-	-
	NSYTVR12	-	NSYSDR60	NSYADR60	NSYMPRK6	NSYHLCR40	NSYSIMP12	NSYSMPS4
	NSYTVR12	-	NSYSDR80	NSYADR80	NSYMPRK8	NSYHLCR40	NSYSIMP12	NSYSMPS4
	NSYTVR12	-	NSYSDR120	NSYADR120	NSYMPRK12	NSYHLCR40	NSYSIMP12	NSYSMPS4
	NSYTVR12	-	NSYSDR60	NSYADR60	NSYMPRK6	NSYHLCR60	NSYSIMP12	NSYSMPS6
	NSYTVR12	-	NSYSDR80	NSYADR80	NSYMPRK8	NSYHLCR60	NSYSIMP12	NSYSMPS6
	NSYTVR12	-	NSYSDR120	NSYADR120	NSYMPRK12	NSYHLCR60	NSYSIMP12	NSYSMPS6
	NSYTVR16	-	NSYSDR80	NSYADR80	NSYMPRK8	NSYHLCR40	NSYSIMP16	NSYSMPS4
	NSYTVR16	-	NSYSDR120	NSYADR120	NSYMPRK12	NSYHLCR40	NSYSIMP16	NSYSMPS4
	NSYTVR16	-	NSYSDR60	NSYADR60	NSYMPRK6	NSYHLCR60	NSYSIMP16	NSYSMPS6
	NSYTVR16	-	NSYSDR80	NSYADR80	NSYMPRK8	NSYHLCR60	NSYSIMP16	NSYSMPS6
	NSYTVR16	-	NSYSDR120	NSYADR120	NSYMPRK12	NSYHLCR60	NSYSIMP16	NSYSMPS6
	NSYTVR20	NSYVR20	NSYSDR80	NSYADR80	NSYMPRK8	NSYHLCR40	NSYSIMP20	NSYSMPS4

Steel outdoor Heavy Duty enclosures

Accessories

Coupling accessories for SFHD







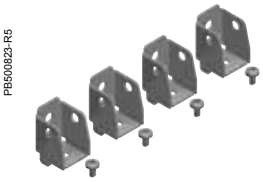
Characteristics	Standard coupling Kit	19" rack coupling Kit	Reinforced coupling
Supply	4 brackets, 2 flat connectors, sealing gasket and fixing elements	8 flat connectors, sealing gasket and fixing elements	4 reinforced connectors and fixing elements
References	**NSYSFBK**	**NSYSFBK19**	**NSYSFBKR**

Mounting accessories



Orthogonal brackets for Spacial SFHD

Reference
NSYSMPSB



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

References
NSYSFPB

Steel outdoor Heavy Duty enclosures

Accessories

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

Coming soon (beginning 2015)


PB502678-14


PB502679-15


PB502680-17

Characteristics	Side-mounting models		
Cooling characteristics			
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)
Electric characteristics			
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
Physical characteristics			
External dimensions (H x W x D)	460 x 285 x 180 mm	606 x 316 x 212 mm	783 x 348 x 215 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
References			
	NSYCUHD400	**NSYCUHD600**	**NSYCUHD800**

Outdoor Heavy Duty ventilation


PB502668-22


PB502675-22


PB502676-22


PB502683-22


PB502688-21

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
References	**Voltage**					
	24 V DC	**NSYCVF550M24FB**	**NSYCAF223T**	**NSYCAF190**	**NSYCAG223LFHD**	**NSYCAAPVHD**
	115 V AC	**NSYCVF550M115FB**				
	230 V AC	**NSYCVF550M230FB**				

Temperature control


PB501160


PB501162


PB501158


PB501172



Types	NC thermostat	Double thermostat	NO thermostat	Thermostat with inverse contact
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**
References				
0...+60 °C	**NSYCCOTHC**	**NSYCCOTHD**	**NSYCCOTHO**	**NSYCCOTHI**
+32...+140 °F	**NSYCCOTHCF**	**NSYCCOTHDF**	**NSYCCOTHOF**	**NSYCCOTHIF**

Temperature sensor
PTC external temperature sensor (double insulation)
Reference
NSYCCAST

Thermal Management

PB502680-17



PB502677-19



1000 W (3412 Btu/h)	1000 W (3412 Btu/h)	1600 W (5459 Btu/h)	1600 W (5459 Btu/h)	2000 W (6824 Btu/h)	2900 W (9895 Btu/h)	3850 W (13137 Btu/h)
790 W (2696 Btu/h)	790 W (2696 Btu/h)	1230 W (4197 Btu/h)	1230 W (4197 Btu/h)	1510 W (5152 Btu/h)	2250 W (7677 Btu/h)	2870 W (9793 Btu/h)
1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60Hz	1 x 230 V / 50-60 Hz	2 x 400-440V / 50-60Hz	3 x 400 V / 50-60 Hz	3 x 400 V / 50-60 Hz	3 x 400 V / 50-60 Hz
10.5 A / 3 A	8 A / 2 A	18 A / 5.4 A	11 A / 2.9 A	10 A / 2.5 A	14 A / 2.6 A	18 A / 3.6 A
783 x 348 x 215 mm	783 x 348 x 215 (+58) mm	999 x 405 x 237 mm	999 x 405 x 237 mm	999 x 405 x 237 mm	1270 x 500 x 336 mm	1270 x 500 x 336 mm
IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34	IP55 / IP34
65 dB	65 dB	65 dB	65 dB	65 dB	70 dB	70 dB
28 kg	29 kg	40 kg	42 kg	54 kg	84 kg	85 kg
NSYCUHD1K	**NSYCUHD1K2P4**	**NSYCUHD1K6**	**NSYCUHD1K62P4**	**NSYCUHD2K3P4**	**NSYCUHD3K3P4**	**NSYCUHD4K3P4**

Aluminium resistance heaters

PB501025
PB501140



Resistance heaters with fan

Power (W)	Voltage (V)	References
250	115 AC	**NSYCR250W115VV**
	230 AC	**NSYCR250W230VV**
400	115 AC	**NSYCR400W115VV**
	230 AC	**NSYCR400W230VV**

Resistance heaters

PB501153
PB501154



Thermofans

Power (W)	Voltage (V)	References
350	230 AC	**NSYCR350W230VTVC**
400/550	120 AC	**NSYCRP1W120VTVC**
	230 AC	**NSYCRP1W230VTVC**

Ultra thin resistance heaters

PB502042



Ultra thin resistance heaters*

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

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

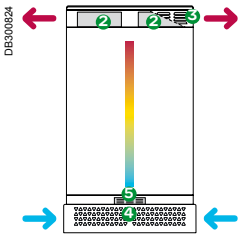
Outdoor Heavy Duty enclosures
Ventilation architectures



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

	S-Line				**T**-Line				
Architecture benefits	■ Most common and competitive architecture ■ Maximum heat dissipation to extract 800 W-1000 W ■ ΔT° of 5°C ■ Easy access to mount-dismount fanbox ■ Air flow in horizontal axis				■ High capacity of extraction calories up to 1500 W ■ Noise level with 1 fan: 55 dB when installed inside the upper ventilation module ■ ΔT° of 5°C ■ Air flow in vertical axis				
	IP55 metal grille		**Fanbox**		**IP55 metal grille**		**Fanbox** (1filter**NSYCAF190**for each Fanbox)	**Roof ventilation module**	
	Door	**Side**	**Door**	**Side**	**Door**	**Side**			
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	-	-	-	-
NSYPHDZT774	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT774P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT776	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT776P	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1054	-	1	-	1	-	1	1	1	**NSYPCVR54HD**
NSYPHDZT1054P	1 to 2	1	1 to 2	1	1 to 2	1	1	1	**NSYPCVR54HD**
NSYPHDZT1074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1074P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT12124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT12124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT12126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT12126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT1254	-	1	-	1	-	1	1	1	**NSYPCVR54HD**
NSYPHDZT1254P	1 to 3	1	1 to 3	1	1 to 3	1	1	1	**NSYPCVR54HD**
NSYPHDZT1274	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1274P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1276	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1276P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT15124	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT15124P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR124HD**
NSYPHDZT15126	-	1 to 3	-	1 to 3	-	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT15126P	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 3	1	**NSYPCVR126HD**
NSYPHDZT1574	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1574P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT1576	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT1576P	1 to 4	1 to 2	1 to 4	1 to 2	1 to 4	1 to 2	1 to 2	1	**NSYPCVR76HD**
NSYPHDZT2074	-	1 to 2	-	1 to 2	-	1 to 2	1 to 2	1	**NSYPCVR74HD**
NSYPHDZT2074P	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	**NSYS3CVR84HD**
NSYSFHD12860	1 to 4	1 to 3	1 to 4	1 to 3	1 to 4	1 to 3	1 to 2	1	**NSYSFCVR86HD**
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	**NSYS3CVR84HD**
NSYSFHD16860	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	**NSYSFCVR86HD**
NSYSFHD20840	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 4	1 to 2	1	**NSYS3CVR84HD**
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**

Outdoor Heavy Duty enclosures
Ventilation architectures





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

IP54 outlet grille (**NSYCAG223LPF** + G3 filter **NSYCAF223T**)		**Ventilated plinths**		**Fanbox** (1 filter **NSYCAF190** for each Fanbox)		**Roof ventilation module**
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	**NSYS3CVR84HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX6200**	1 to 2	1	**NSYSFCVR86HD**
1	1	**NSYSPFVX6200**	**NSYSPLVX6200**	1	1	**NSYSFCVR66HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYS3CVR84HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX6200**	1 to 2	1	**NSYSFCVR86HD**
1 to 2	1	**NSYSPFVX8200**	**NSYSPLVX4200**	1 to 2	1	**NSYS3CVR84HD**
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
POLYESTER				
Thalassa PHD				
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	-	✓
Vandalism: pressure & choc	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, Dynamic tests, Lifting and stifness 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 structires 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	IEC 61439-5: 2010	Vandalism: fire resistance	-	✓
Posting	IEC 61439-5: 2010	Door antiposting	-	✓
Single door: 1, 2, 3, 3X, 3S, 4, 4X, 5, 12 & 13 Double door: 1, 2, 12 & 13	UL 508 A: 2007	Standard for Industrial Control Panels	●	-
STEEL				
Spacial SFHD				
IP55, IK10, lifting: 1000 kg max.	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	-
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, Dynamic tests, Lifting and stifness 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 structires 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: Type 1, 3R, 12, 12K Double door: Type 1, 3R, 12, 12K	UL 508 A: 2007	Standard for Industrial Control Panels	●	-
Spacial S3HD				
IP66, IK10, lifting: 200 kg max.	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	●	
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, Dynamic tests, Lifting and stifness 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 structires 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: Type 1, 2, 3, 3R, 4, 4X	UL 508 A: 2007	Standard for Industrial Control Panels	●	-

Outdoor Heavy Duty enclosures
Certifications

Test desription	Standard	Standard title	Certification	Declaration
HD THERMAL MANAGEMENT				
Fanbox				
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	IP55 Industrial Control Panels Industrial Control Equipment Special Purpose Enclosures Electrically Equipped Machine Tools	●	✓
IP55 HD Metal grille and anti-burglary kit				
IP55 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Burglary - Class 2	EN 1627: 2000	Burglar resistance - Requirements and classification	●	-
Upper ventilation module (PHD / SFHD / S3HD)				
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	●	-
HD ACCESSORIES				
Anti-burglary accessory				
Burglary - Class 2	EN 1627: 2000	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	●	-
ZZ plinths				
ZZ Plinth: IP 44 (in conditions of use) Ventilated ZZ Plinth: IP 43 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Eyebolts				
Maximum load 500Kg	IEC 62208: 2011	Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements	-	✓
HD Polyester Canopy				
IP55 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Resistance to static load: 850 kg/m^2	IEC 61439-5: 2010	Low-voltage switchgear and controlgear assemblies Part 5: assemblies for power distribution in public networks	-	✓
PHD cable gland plate				
IP55 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓
Stainless steel plinths				
IP30 (in conditions of use)	IEC 60529: 2013	Degrees of protection provided by enclosures (IP Code)	-	✓

Expert's tools available

ProClima V 6.0 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:
CPGT006_EN



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