

Outdoor Heavy Duty enclosures catalogue

Toughest outdoor environments get their dedicated enclosures





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.

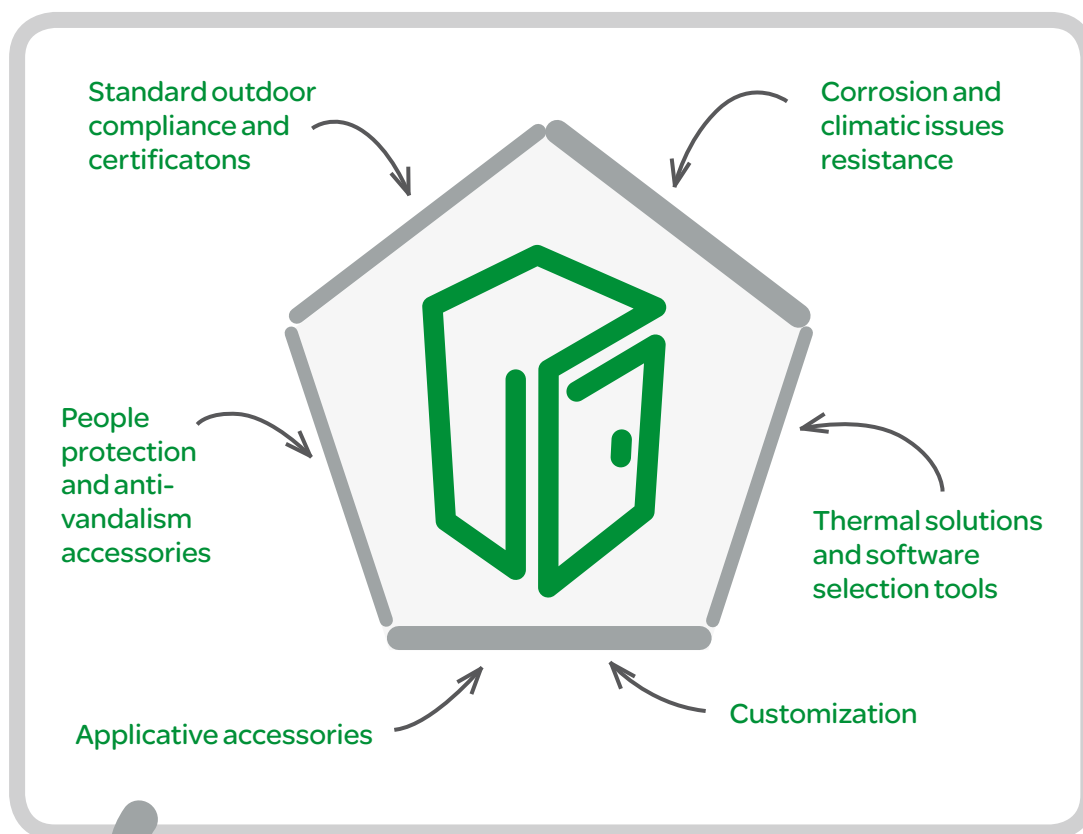
'Resist'

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!

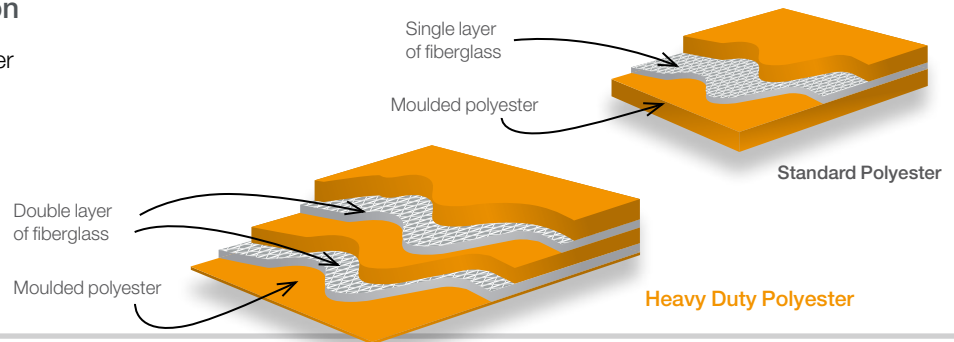
- A full Heavy Duty outdoor approach
- Enclosures tested and certified for toughest conditions
- Enclosures tested and certified for human interactions
- Continuity of service and long-lasting installation
- Energy efficiency solutions

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

High resistance materials

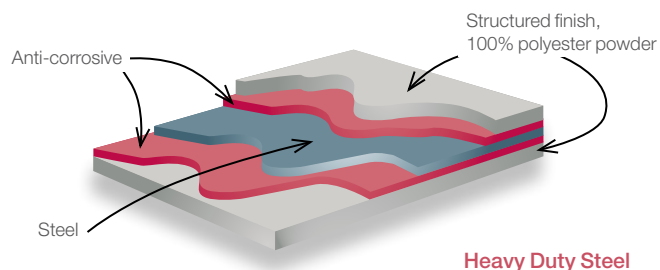
Heavy Duty polyester solution

- > 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

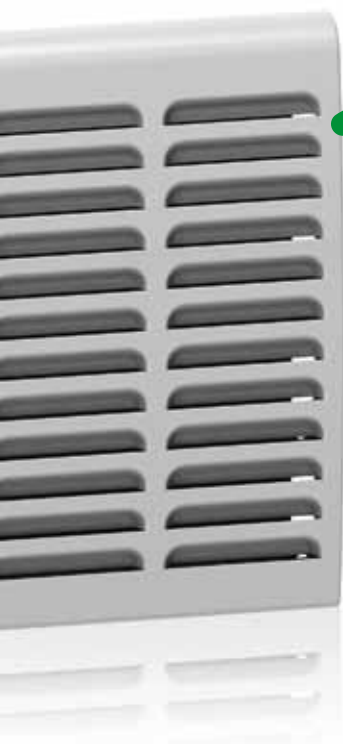


Slim ventilation Fanbox

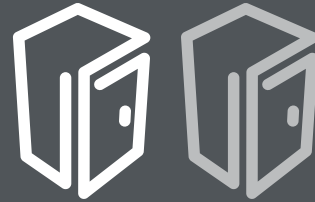
- > Minimal depth inside (100 mm):
67% of installation space saving
- > Maximal flow rate with IP55 G3 filter
- > 230 V, 115 V and 48 VDC versions
- > UL approved
- > Centrifugal ventilation

Slim IP55 HD Metal grille

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



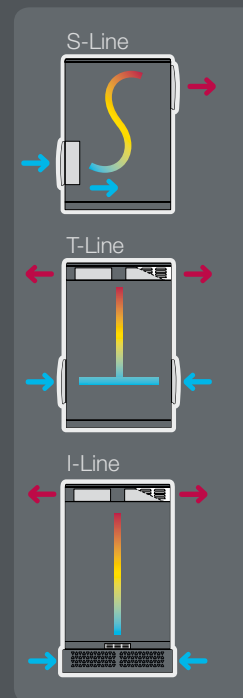
Heavy duty multi-materials



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.



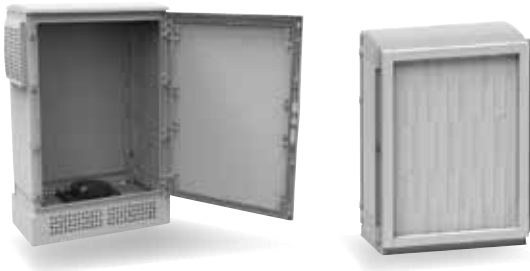
Advanced configuration as standard

- > 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)
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- Linked to people (billboarding, burglary, vandalism)
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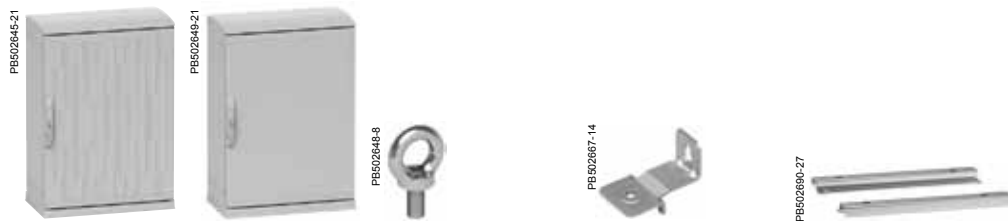




Outdoor Heavy Duty enclosures

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	-
1343	500	420	1	NSYPHDZT1254	NSYPHDZT1254P	NSYPLHD	-	NSYMF2PLAZ4
		750	420	1	NSYPHDZT1274	NSYPHDZT1274P	NSYPLHD	-
	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 different 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

PB500072



PB500102



PB500151



PB500174



PB50184-42



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)
1593	1250	2	NSYPMM1212	NSYPMR125 + NSYPMR127	NSYPMA1212	NSYDLP133 + NSYDLP231	-
	750	1	NSYPMM157	NSYPMR157	-	NSYDLP297	NSYBRF26PLA + (2 x NSYSPLA150)
2093	1250	2	NSYPMM1512	NSYPMR155 + NSYPMR157	-	NSYDLP171 + NSYDLP297	-
	750	2	NSYPMM207 or 2 x NSYPMM107	2 x NSYPMR107	-	-	2 x (NSYBRF17PLA + (2 x NSYSPLA100))

PB501384-14



PB50076-44



PB501375-26



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

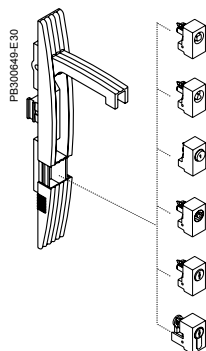
Characteristics		Step slides	Adapter plates *
Depth (mm)	No. of doors	References	
320	1	NSYDPLA3	NSYPTZ3
	2	2 x NSYDPLA3	NSYPTZ32P
420	1	NSYDPLA4	NSYPTZ4
	2	2 x NSYDPLA4	NSYPTZ42P
620	1	NSYDPLA6	NSYPTZ6
	2	-	NSYPTZ62P

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 and 19" chassis.

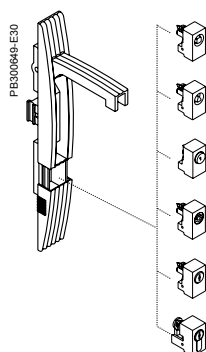
Polyester outdoor Heavy Duty enclosures

Mounting accessories



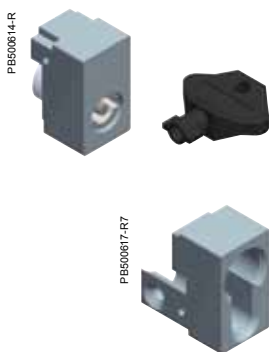
Blocks with insert shapes

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

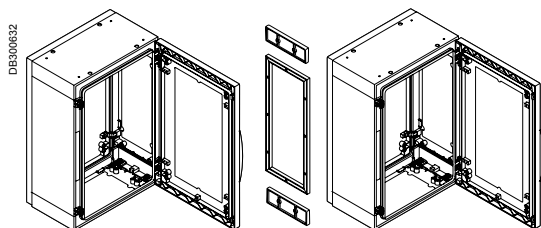


Double bar

Reference
NYINDB51

Blocks with semi-cylindrical

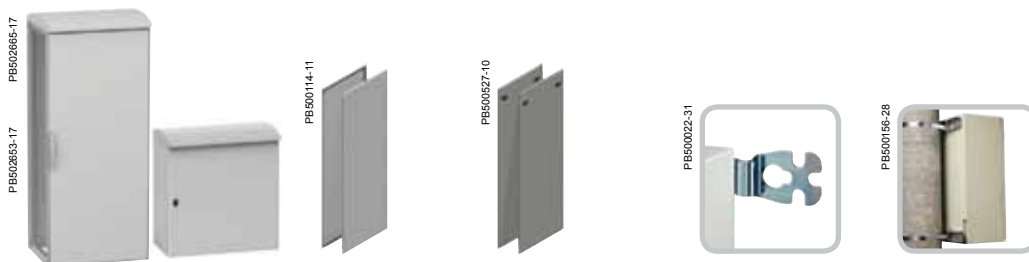
Descriptions	Reference
DIN Adapter	NSYINDIN2



Coupling kits for PHD

Height (mm)	Horizontal			Vertical	
	Depth (mm)	420	620		
538	320	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 different services available:



Assemble to order



Mounting of standard accessories

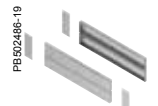
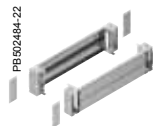


Painting



Machining

Steel outdoor Heavy Duty enclosures



Heavy duty padlock	Stainless-steel plinths 200 mm		Standard plinths		Roof ventilation module
	Ventilated 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	1
NSYAEDLPADS3DHD	-	-	-	-	-
NSYAEDLPADS3DHD	-	-	-	-	-
NSYAEDLPADS3DHD	-	-	-	-	-
NSYAEDLPADS3DHD	-	-	-	-	-
NSYAEDLPADS3DHD	NSYSFVX6200	NSYSPLVX3200	NSYSPSX6200	NSYSPSX3200	-
NSYAEDLPADS3DHD	-	-	-	-	-
NSYAEDLPADS3DHD	NSYSFVX6200	NSYSPLVX3200	NSYSPSX6200	NSYSPSX3200	-
NSYAEDLPADS3DHD	NSYSFVX8200	NSYSPLVX4200	NSYSPFX8200	NSYSPSX4200	NSYS3CVR84HD
NSYAEDLPADS3DHD	NSYSFVX6200	NSYSPLVX4200	NSYSPSX6200	NSYSPSX4200	NSYS3CVR64HD
NSYAEDLPADS3DHD	NSYSFVX8200	NSYSPLVX4200	NSYSPFX8200	NSYSPSX4200	NSYS3CVR84HD
-	-	-	NSYSPFX6200	NSYSPSX4200SF	NSYSFCVR64HD
-	NSYSFVX8200	NSYSPLVX4200SF	NSYSPFX8200	NSYSPSX4200SF	NSYSFCVR84HD
-	NSYSFVX12200	NSYSPLVX4200SF	NSYSPFX12200	NSYSPSX4200SF	NSYSFCVR124HD
-	NSYSFVX6200	NSYSPLVX6200SF	NSYSPFX6200	NSYSPSX6200SF	NSYSFCVR66HD
-	NSYSFVX8200	NSYSPLVX6200SF	NSYSPFX8200	NSYSPSX6200SF	NSYSFCVR86HD
-	NSYSFVX12200	NSYSPLVX6200SF	NSYSPFX12200	NSYSPSX6200SF	NSYSFCVR126HD
-	NSYSFVX8200	NSYSPLVX4200SF	NSYSPFX8200	NSYSPSX4200SF	NSYSFCVR84HD
-	NSYSFVX12200	NSYSPLVX4200SF	NSYSPFX12200	NSYSPSX4200SF	NSYSFCVR124HD
-	NSYSFVX6200	NSYSPLVX6200SF	NSYSPFX6200	NSYSPSX6200SF	NSYSFCVR66HD
-	NSYSFVX8200	NSYSPLVX6200SF	NSYSPFX8200	NSYSPSX6200SF	NSYSFCVR86HD
-	NSYSFVX12200	NSYSPLVX6200SF	NSYSPFX12200	NSYSPSX6200SF	NSYSFCVR126HD
-	NSYSFVX8200	NSYSPLVX4200SF	NSYSPFX8200	NSYSPSX4200SF	NSYSFCVR84HD

Anti-vandalism kit for plinths



NSYSKAV

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

■ **Material:** stainless-steel.



NSYKSKAV

References

8 anti-vandalism screws for stainless-steel plinth

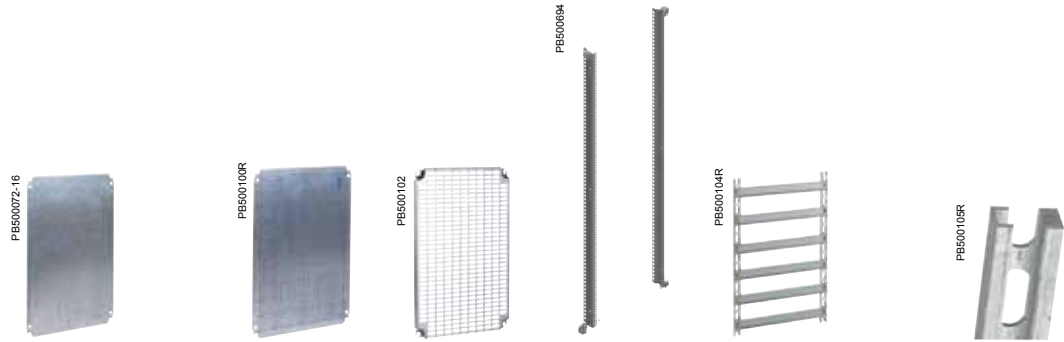
NSYSKAV

Key for anti-vandalism screws for stainless-steel plinth

NSYKSKAV

Steel outdoor Heavy Duty enclosures

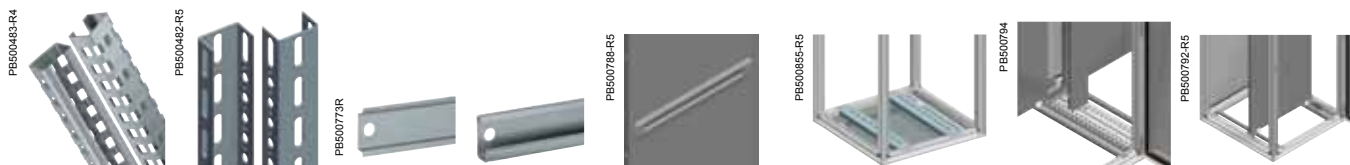
Mounting accessories



Characteristics			Spacial S3HD and SFHD						
Height	Width	Depth	Plain mounting plates	Plain silkscreen	Telequick	19" fixed rack	DIN-rail chassis		Aluminum vertical rails
							Type of rail		
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

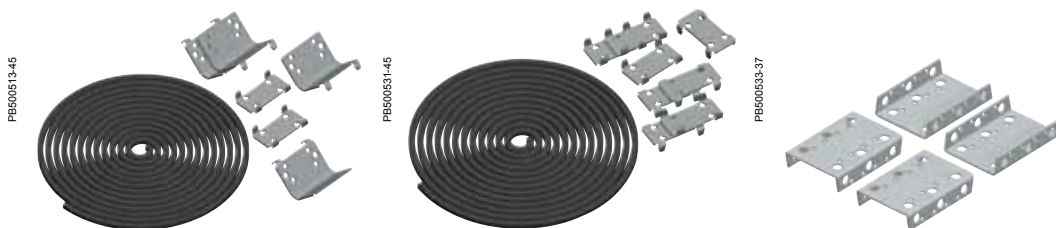


	Technical vertical upright	Standard vertical upright	DIN rails		Reinforcements for mounting plates	Rails for heavy loads	Intermediate mounting plate	Mounting plate sliding rails
			Symetrical	Asymetrical				
	-	-	-	-	-	-	-	-
	-	-	NSYSDR30B	NSYADR30W	-	-	-	-
	-	-	NSYSDR40B	NSYADR40W	-	-	-	-
	-	-	NSYSDR40B	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

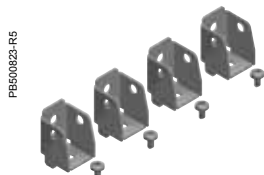
Mounting accessories



Orthogonal brackets for Spacial SFHD

Reference

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

References

NSYSFPB

Steel outdoor Heavy Duty enclosures

Accessories

Lifting accessories for SFHD



Characteristics	Eyebolts	Lifting brackets	Lifting bar			
	1	2	2	3	4	5
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

Outdoor Heavy Duty cooling units



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



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	NSYCAC223LFHD	NSYCAAPVHD
	115 V AC	NSYCVF550M115FB				
	230 V AC	NSYCVF550M230FB				

Temperature control



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)
References					
0...+60 °C	NSYCCOTHC	NSYCCOTHD	NSYCCOTHO	NSYCCOTHI	Reference
+32...+140 °F	NSYCCOTHCF	NSYCCOTHDF	NSYCCOTHOF	NSYCCOTHIF	NSYCCAST



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



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



Thermofans

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

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	NSYCRRS10W120V
	240	130	250	1.6	NSYCRRS10W240V
25	120	130	250	1.6	NSYCRRS25W120V
	240	130	250	1.6	NSYCRRS25W240V
50	120	200	320	1.6	NSYCRRS50W120V
	240	200	320	1.6	NSYCRRS50W240V
100	120	280	450	1.6	NSYCRRS100W120V
	240	280	450	1.6	NSYCRRS100W240V
200	120	400	650	1.6	NSYCRRS200W120V
	240	400	650	1.6	NSYCRRS200W240V

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

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



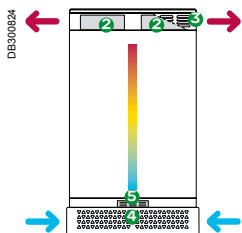
	S-Line				T-Line			
Architecture benefits	<ul style="list-style-type: none"> ■ Most common and competitive architecture ■ Maximum heat dissipation to extract 800 W-1000 W ■ ΔT° of 5°C ■ Easy access to mount-dismount fanbox ■ Air flow in horizontal axis 				<ul style="list-style-type: none"> ■ High capacity 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 NSYCAF190for 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



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
(NSYCA223LPF +
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	-
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	NSYSPLVX3200	-	-	-	-
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	-

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 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	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 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: 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 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: Type 1, 2, 3, 3R, 4, 4X	UL 508 A: 2007	Standard for Industrial Control Panels	●	-

Test description	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)	-	✓

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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...

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

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- 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

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Reliable thermal solutions database

Only solutions to match the characteristics of the installation are proposed

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