

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.

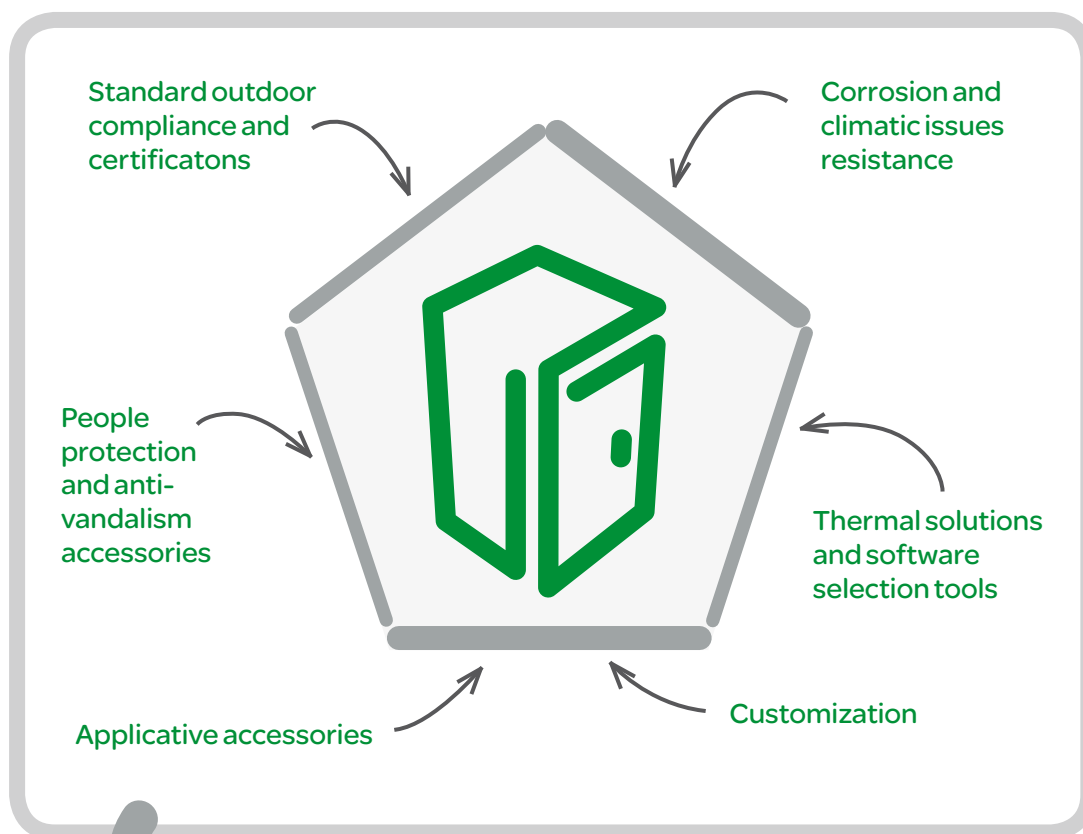
# 'Resist'

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!

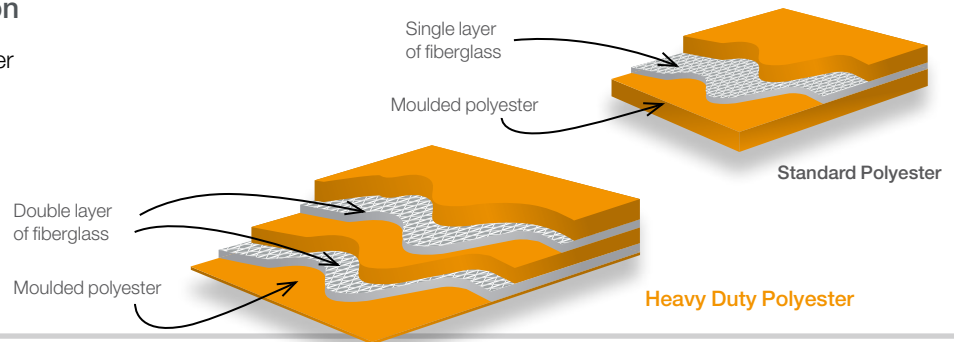
- A full Heavy Duty outdoor approach
- Enclosures tested and certified for toughest conditions
- Enclosures tested and certified for human interactions
- Continuity of service and long-lasting installation
- Energy efficiency solutions

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

## High resistance materials

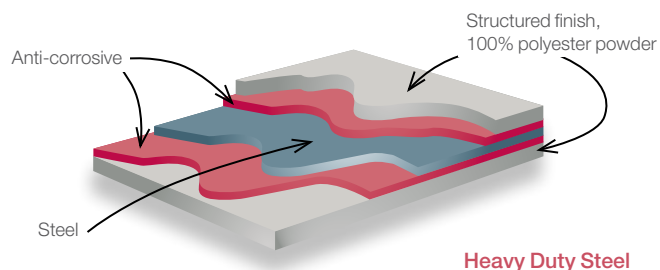
### Heavy Duty polyester solution

- > 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

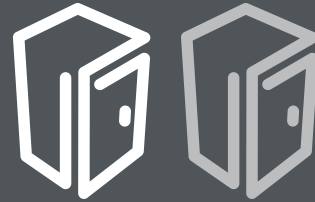
- > Minimal depth inside (100 mm):  
67% of installation space saving
- > Maximal flow rate with IP55 G3 filter
- > 230 V, 115 V and 48 VDC versions
- > UL approved
- > Centrifugal ventilation

### Slim IP55 HD Metal grille

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



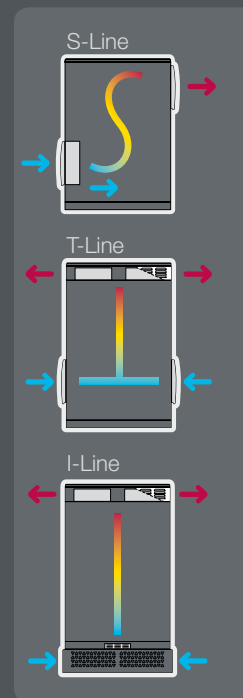
## Heavy duty multi-materials



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.



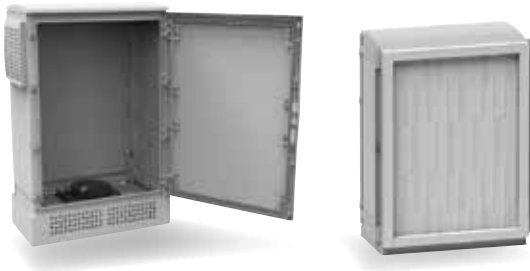
## Advanced configuration as standard

- > 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  $-45^{\circ}\text{C}$ )
- Heat (up to  $80^{\circ}\text{C}$ )
- 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)

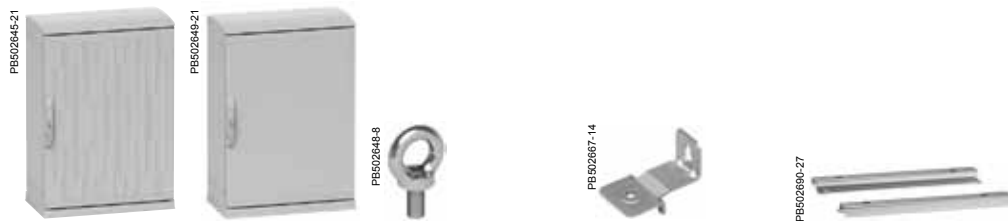




# Outdoor Heavy Duty enclosures

## 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          |                |               |                       |                  |
| <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        | 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                      | 750   | 1           | NSYPMM157                  | NSYPMR157             | -                          | NSYDLP297                    | NSYBRF26PLA + (2 x NSYSPLA150)       |
|                           | 1250  | 2           | NSYPMM1512                 | NSYPMR155 + NSYPMR127 | -                          | NSYDLP171 + NSYDLP297        | -                                    |
| 2093                      | 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           |

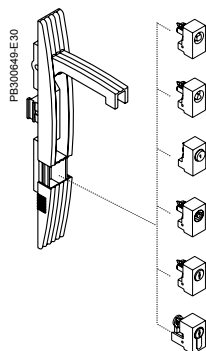
| Characteristics |              | Step slides  | Adapter plates * |
|-----------------|--------------|--------------|------------------|
| Depth (mm)      | No. of doors | References   |                  |
| 320             | 1            | NSYDPLA3     | NSYPTZ3          |
|                 | 2            | 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.

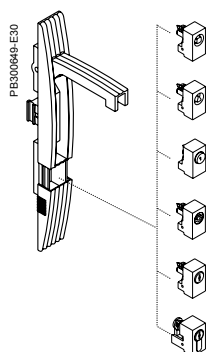
# Polyester outdoor Heavy Duty enclosures

## Mounting accessories



### Blocks with insert shapes

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



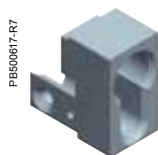
### Blocks with cylindrical barrels

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



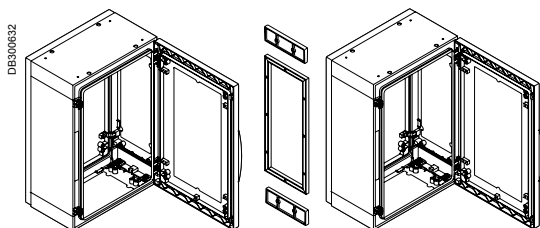
### Double bar

| Reference |
|-----------|
| NYINDB51  |



### Blocks with semi-cylindrical

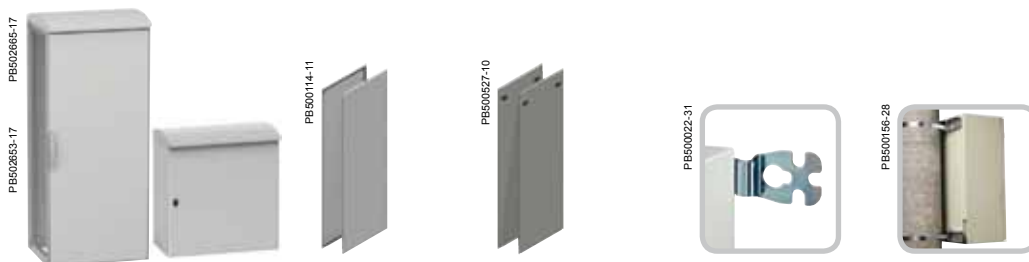
| Descriptions | Reference |
|--------------|-----------|
| DIN Adapter  | NSYINDIN2 |



### Coupling kits for PHD

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

# 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

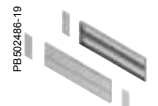
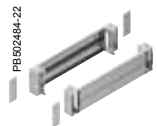


Painting



Machining

# 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



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

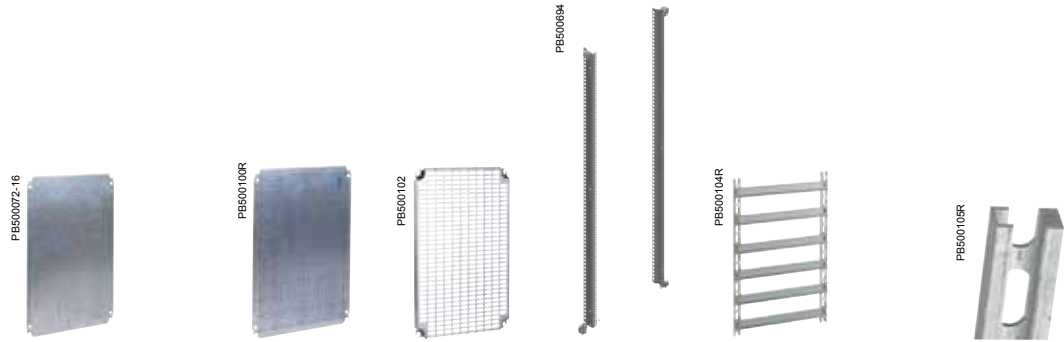
NSYSKAV

Key for anti-vandalism screws for stainless-steel plinth

NSYKSKAV

# Steel outdoor Heavy Duty enclosures

## Mounting accessories

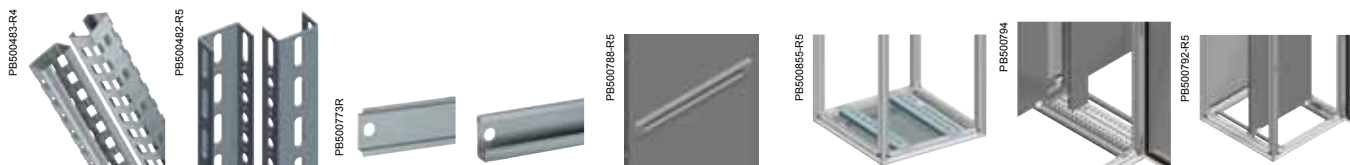


| Characteristics          |       |       | Spacial S3HD and SFHD |                  |                |                |                  |   |                         |
|--------------------------|-------|-------|-----------------------|------------------|----------------|----------------|------------------|---|-------------------------|
| Height                   | Width | Depth | Plain mounting plates | Plain silkscreen | Telequick      | 19" fixed rack | DIN-rail chassis |   | 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

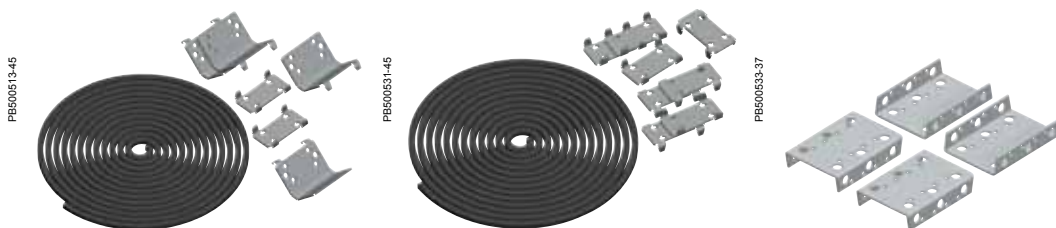


|  | Technical vertical upright | Standard vertical upright | DIN rails  |             | Reinforcements for mounting plates | Rails for heavy loads | Intermediate mounting plate | Mounting plate sliding rails |
|--|----------------------------|---------------------------|------------|-------------|------------------------------------|-----------------------|-----------------------------|------------------------------|
|  |                            |                           | 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                                    |

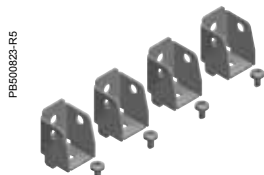
### Mounting accessories



#### Orthogonal brackets for Spacial SFHD

Reference

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                                     |                  |                  |                  |
|---|----------------|---|---|------------------|------------------|------------------|
|   | 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  | <b>NSYSFEB</b> | <b>NSYSFELB</b>                             | <b>NSYSFTB16</b>                                | <b>NSYSFTB18</b> | <b>NSYSFTB24</b> | <b>NSYSFTB32</b> |

## 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)         | 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                |
| <b>References</b>                       | <b>NSYCUHD400</b>    | <b>NSYCUHD600</b>    | <b>NSYCUHD800</b>    |

## 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                                  |            |
| <b>References</b> | <b>Voltage</b>          |                 |                        |  |  |            |
|                   | 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                                  |
|------------------------|---|---------------------------------------|---------------------------|--------------------------------------|---|
| <b>Characteristics</b> | 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             | NSYCCOTHC                               | NSYCCOTHD                             | NSYCCOTH0                 | NSYCCOTHI                            | Reference   |
| +32...+140 °F          | NSYCCOTHCF                              | NSYCCOTHDF                            | NSYCCOTH0F                | 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                |
| <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            |
|-----------|-------------|-----------------------|
| 250       | 115 AC      | <b>NSYCR250W115VV</b> |
|           | 230 AC      | <b>NSYCR250W230VV</b> |
| 400       | 115 AC      | <b>NSYCR400W115VV</b> |
|           | 230 AC      | <b>NSYCR400W230VV</b> |

## Resistance heaters



### Thermofans

| Power (W) | Voltage (V) | References              |
|-----------|-------------|-------------------------|
| 350       | 230 AC      | <b>NSYCR350W230VTVC</b> |
| 400/550   | 120 AC      | <b>NSYCRP1W120VTVC</b>  |
|           | 230 AC      | <b>NSYCRP1W230VTVC</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>NSYCRRS10W120V</b>  |
|           | 240         | 130         | 250        | 1.6        | <b>NSYCRRS10W240V</b>  |
| 25        | 120         | 130         | 250        | 1.6        | <b>NSYCRRS25W120V</b>  |
|           | 240         | 130         | 250        | 1.6        | <b>NSYCRRS25W240V</b>  |
| 50        | 120         | 200         | 320        | 1.6        | <b>NSYCRRS50W120V</b>  |
|           | 240         | 200         | 320        | 1.6        | <b>NSYCRRS50W240V</b>  |
| 100       | 120         | 280         | 450        | 1.6        | <b>NSYCRRS100W120V</b> |
|           | 240         | 280         | 450        | 1.6        | <b>NSYCRRS100W240V</b> |
| 200       | 120         | 400         | 650        | 1.6        | <b>NSYCRRS200W120V</b> |
|           | 240         | 400         | 650        | 1.6        | <b>NSYCRRS200W240V</b> |

\* 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



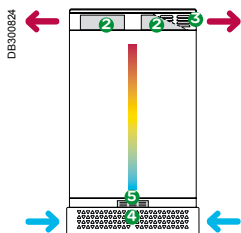
|                       | S-Line  |      |        |      | T-Line   |      |  |                         |
|-----------------------|---|------|--------|------|--|------|--|-------------------------|
| Architecture benefits | <ul style="list-style-type: none"> <li>■ Most common and competitive architecture</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<br>(1 filter 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 |



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**  
(NSYACAG223LPF +  
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 |
|---|-----------------------|--|---------------|-------------|
| <b>POLYESTER</b>  |                       |  |               |             |
| <b>Thalassa PHD</b>   |                       |  |               |             |
| IP55, IK10, lifting: 500 kg max.<br>(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<br>Part 1: general rules   | -             | ✓           |
| Vandalism:<br>pressure & choc   | IEC 61439-5: 2010     | Low-voltage switchgear and controlgear assemblies<br>Part 5: assemblies for power distribution in public networks  | ●             | -           |
| Corrosion resistance<br>C4H   | ISO 12.944: 1999      | Paints and varnishes-corrosion protection of steel structures by protective paint systems<br>Part 6: laboratory performance testing methods  | -             | ✓           |
| Climatic test, Biological Test,<br>Resistance against chemically<br>and mechanical active<br>substances.<br>Mechanical test, Dynamic tests,<br>Lifting and stiffness test | IEC 61969-3: 2011     | Electronic "Mechanical structures for electronic equipment - Outdoor enclosures"<br>Part 3: environmental requirements, tests and safety aspects   | ●             | -           |
| Space for electronics   | IEC 60297-3-100: 2009 | Mechanical structures for electronic equipment<br>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,<br>4X, 5, 12 & 13<br>Double door: 1, 2, 12 & 13  | UL 508 A: 2007        | Standard for Industrial Control Panels   | ●             | -           |
| <b>STEEL</b>  |                       |  |               |             |
| <b>Spacial SFHD</b>   |                       |  |               |             |
| IP55, IK10, lifting: 1000 kg max.   | IEC 62208: 2011       | Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements  | ●             | -           |
| Corrosion resistance<br>C4H   | ISO 12.944: 1999      | Paints and varnishes-corrosion protection of steel structures by protective paint systems<br>Part 6: laboratory performance testing methods  | ●             | -           |
| Climatic test, Biological Test,<br>Resistance against chemically<br>and mechanical active<br>substances.<br>Mechanical test, Dynamic tests,<br>Lifting and stiffness test | IEC 61969-3: 2011     | Electronic "Mechanical structures for electronic equipment - Outdoor enclosures"<br>Part 3: environmental requirements, tests and safety aspects   | ●             | -           |
| Space for electronics   | IEC 60297-3-100: 2009 | Mechanical structures for electronic equipment<br>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<br>Double door: Type 1, 3R, 12, 12K  | UL 508 A: 2007        | Standard for Industrial Control Panels   | ●             | -           |
| <b>Spacial S3HD</b>   |                       |  |               |             |
| IP66, IK10, lifting: 200 kg max.  | IEC 62208: 2011       | Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements  | ●             | -           |
| Corrosion resistance<br>C4H   | ISO 12.944: 1999      | Paints and varnishes-corrosion protection of steel structures by protective paint systems<br>Part 6: laboratory performance testing methods  | ●             | -           |
| Climatic test, Biological Test,<br>Resistance against chemically<br>and mechanical active<br>substances.<br>Mechanical test, Dynamic tests,<br>Lifting and stiffness test | IEC 61969-3: 2011     | Electronic "Mechanical structures for electronic equipment - Outdoor enclosures"<br>Part 3: environmental requirements, tests and safety aspects   | ●             | -           |
| Space for electronics   | IEC 60297-3-100: 2009 | Mechanical structures for electronic equipment<br>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,<br>4, 4X   | UL 508 A: 2007        | Standard for Industrial Control Panels   | ●             | -           |

| Test description  | Standard   | Standard title  | Certification | Declaration |
|---|--|---|---------------|-------------|
| <b>HD THERMAL MANAGEMENT</b>  |  |   |               |             |
| <b>Fanbox</b>   |  |   |               |             |
| Type 12 or 12K enclosure  | UL 508A<br>CAN/CSA-C22.2 No. 14,<br>CAN/CSA C22.2 No. 94-M91<br>CAN/CSA C22.2 No. 73 | IP55<br>Industrial Control Panels<br>Industrial Control Equipment<br>Special Purpose Enclosures<br>Electrically Equipped Machine Tools      | ●             | ✓           |
| <b>IP55 HD Metal grille and anti-burglary kit</b>   |  |   |               |             |
| 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  | ●             | -           |
| <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<br>Part 6: laboratory performance testing methods | ●             | -           |
| <b>HD ACCESSORIES</b>   |  |   |               |             |
| <b>Anti-burglary accessory</b>  |  |   |               |             |
| 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<br>Part 6: laboratory performance testing methods | ●             | -           |
| <b>ZZ plinths</b>   |  |   |               |             |
| ZZ Plinth: IP 44<br>(in conditions of use)<br>Ventilated ZZ Plinth: IP 43<br>(in conditions of use) | IEC 60529: 2013  | Degrees of protection provided by enclosures (IP Code)  | -             | ✓           |
| <b>Eyebolts</b>   |  |   |               |             |
| Maximum load 500Kg  | IEC 62208: 2011  | Empty enclosures for low-voltage switchgear and controlgear assemblies - General requirements   | -             | ✓           |
| <b>HD Polyester Canopy</b>  |  |   |               |             |
| IP55 (in conditions of use)   | IEC 60529: 2013  | Degrees of protection provided by enclosures (IP Code)  | -             | ✓           |
| Resistance to static load:<br>850 kg/m <sup>2</sup>   | IEC 61439-5: 2010  | Low-voltage switchgear and controlgear assemblies<br>Part 5: assemblies for power distribution in public networks                           | -             | ✓           |
| <b>PHD cable gland plate</b>  |  |   |               |             |
| IP55 (in conditions of use)   | IEC 60529: 2013  | Degrees of protection provided by enclosures (IP Code)  | -             | ✓           |
| <b>Stainless steel plinths</b>  |  |   |               |             |
| 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**



# Make the most of your energy™

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## Schneider Electric Industries SAS

35, rue Joseph Monier  
CS 30323  
F- 92506 Rueil Malmaison Cedex  
France

RCS Nanterre 954 503 439  
Capital social 896 313 776 €  
[www.schneider-electric.com](http://www.schneider-electric.com)

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