

Section 28

Universal Enclosures



Spacial Steel Enclosures



Thalassa Polyester Enclosures



Ventilation Systems with Filters

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Spacial™ Steel Enclosures

Metal enclosures and boxes



From our small boxes to large modular floor-standing enclosures, with the Spacial range you can find the optimal fit for your applications. Our extensive range of easy-to-use accessories helps you save time during your projects.

Select between steel or stainless steel to better suit the installation environment. In our stainless-steel offer you can find the optimal solution where cleanliness or protection in highly corrosive environments are required.

Steel: Indoor non-clean industrial environment

The environment in industrial plants can subject electric and electronic components to dust, splashing oil, and impacts. Such environments require a range of enclosures that are suited to harsh conditions yet are easy to install.

- **Universal range**, for industry.
- **EMC (electromagnetic compatibility) range**, against electromagnetic disturbances (treated with Aluzinc).

304L - 316L stainless steel: Demanding industrial environment

Food and beverage, pharmaceutical, petrochemical, and infrastructure industries have particularly demanding hygiene and corrosion resistance requirements. Our Spacial range is available in two grades of stainless steel:

- **304L stainless steel**, for resistance to corrosion and ease of cleaning (often used in food production environments).
- **316L stainless steel, also known as "marine stainless steel,"** for very high resistance to corrosion (used in saline or chlorinated environments).
- **Range of ATEX enclosures**, for potentially explosive atmospheres.

Product family names:

Spacial S3DC: *Steel wall-mounting enclosures*

Spacial SM: *Compact metal enclosures*

Spacial SF: *Modular metal enclosures*

Spacial S3X: *Stainless-steel wall-mounting enclosures*

Spacial SMX: *Stainless-steel monobloc floor-standing enclosures*

Spacial SFX: *Stainless-steel modular enclosures*

Thalassa™ Polyester Enclosures

Insulated enclosures and boxes

Without the right protection, harsh environments can expose your installation to chemicals or other substances.

Developed to help protect your equipment in outdoor applications or harsh conditions, our Thalassa offer ranges from boxes to floor-standing enclosures made from fiberglass reinforced polyester.

Our Thalassa industrial boxes in ABS or polycarbonate are strong, easy to install, and designed to be used in highly demanding environments.

Insulating polyester and plastic materials (ABS, polycarbonate): Outdoor infrastructures and severe industrial environments

Outdoor infrastructures and electrical installations are exposed to direct sunlight, rain, saline mist, extreme temperatures, oil splashes, chemical and corrosive agents, and are in contact with the public.

- **Universal range**, for industry.
- **Range of ATEX enclosures**, for potentially explosive atmospheres.

Product family names:

Thalassa PLM: *Polyester wall-mounting enclosures*

Thalassa PLA: *Polyester floor-standing enclosures*



ClimaSys™ Thermal Management System
Thermal Management



Preserving and keeping the right temperature inside your enclosure is vital for maximizing the average service life of your installed devices. With our ClimaSys offer you can find the right solution, be it ventilation, cooling or heating, including control units for temperature, humidity and much more.

Product family names:

- ClimaSys CV: *Ventilation systems*
- ClimaSys CR: *Insulated resistance heaters*
- ClimaSys CC: *Thermal control*

Our Software Suite

Spacial.pro

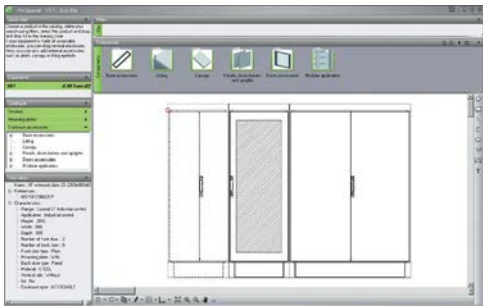
Spacial.pro allows you to make switchboard proposals based on the standard Spacial™ offer. A full project with several sets of switchboards is quoted in minutes, with automatic creation of the bill of material and 2D drawings for front and side views.

ProClima

Calculate the right choice for your thermal management requirements, according to the environment and the electrical/electronic devices installed inside the enclosure.

Spacial.ref and Thalassa.ref

These digital rules assist you in selecting the appropriate components for your application from our extensive product range. The tool automates product and accessory selection to help save you time and money.



NEMA and UL Enclosure Ratings

Table 28.1: NEMA and UL Enclosure and Component Ratings

Enclosures		Type of protection [1]												
		1	2	3	3R	3S	4	4X	5	6	6P	12	12K	13
Steel wall-mounting enclosures	S3DC	•	•	• [2]	• [2]		• [2]	• [2]				• [3]	• [3]	• [3]
	CRN	•	• [2]	• [2]	• [2]		• [2]		• [2]			•		•
Stainless-steel wall-mounting enclosures	S3X	•	• [2]	• [2]	• [2]		• [2]	• [2]	• [2]			•	• [3]	• [2]
Steel floor-standing enclosures	SM	•	• [2]	• [2]	• [2]		• [2]		• [2]			•	•	• [2]
Steel modular enclosures	SF	•										•	•	
Stainless-steel floor-standing enclosures	SMX	•	• [2]	• [2]	• [2]		• [2]	• [2]	• [2]			•	•	• [2]
Stainless-steel modular enclosures	SFX	•										•	•	
Thermoplastic boxes	TBS - TBP	•		•		•	•	•						
Polyester modular boxes	PLS	•	•	•	•	•	•	•				•		•
Polyester wall-mounting enclosures	PLM	•	•	•	•	•	•	•				•		•
Polyester floor-standing enclosures	PLA	•	•	• [2]	• [2]		• [2]	• [2]	• [2]			•		•

Components		Type of protection [1]												
		1	2	3	3R	3S	4	4X	5	6	6P	12	12K	13
Ventilation system	CV													
Thermal regulation system	CC											•	•	

UL Listing

Table 28.2: UL File Numbers for Enclosures



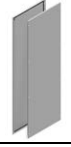




Standard Enclosure Type	UL File Number
NSYSM	E103582
NSYSF	E80264
NSYSMX	E103582
NSYSFX	UL Certification pending
NSYSCRN	E103582
NSYSCRNG	E80264
NSYS3DC	E80264
NSYS3X	E103582
NSYSPLA	E103582
NSYSPLM	E103582

[1] In some ranges the classification depends on the model and version. The detailed protection types are indicated in the UL certifications.

[2] 1 door
[3] 2 doors

Steel Floor-Standing Enclosures

Table 28.3: Spacial Steel Floor-Standing Enclosures

Height: mm (in)	Width: mm (in)	Depth: mm (in)	# Doors	NSYSM Welded [1]			NSYSF Modular [1]			Accessories, Floor-Standing Enclosures			
				Without mounting plate			Without mounting plate		2 Side panels	Mounting plate	Cable-gland plate, 1 entry	Plinth height 100 mm (3.9 in)	
												Front/back 	Sides 
1200 (47.2)	600 (23.6)	400 (15.7)	1	—	—	—	NSYSF12640	NSY2SP124	NSYMP126	NSYEC641	NSYSFP6100	NSYSPS4100	
1200 (47.2)	600 (23.6)	600 (23.6)	1	—	—	—	NSYSF12660	NSY2SP126	NSYMP126	NSYEC661	NSYSFP6100	NSYSPS6100	
1200 (47.2)	800 (31.5)	300 (11.8)	1	NSYSM12830	—	—	—	—	NSYMP128	—	NSYSFP8100	NSYSPS3100	
1200 (47.2)	800 (31.5)	400 (15.7)	1	—	—	—	NSYSF12840	NSY2SP124	NSYMP128	NSYEC841	NSYSFP8100	NSYSPS4100	
1200 (47.2)	800 (31.5)	600 (23.6)	1	—	—	—	NSYSF12860	NSY2SP126	NSYMP128	NSYEC861	NSYSFP8100	NSYSPS6100	
1200 (47.2)	1000 (39.4)	300 (11.8)	2	NSYSM1210302D	—	—	—	—	NSYMP1210	—	NSYSFP10100	NSYSPS3100	
1200 (47.2)	1200 (47.2)	400 (15.7)	2	NSYSM1212402D	—	—	—	—	NSYMP1212	—	NSYSFP12100	NSYSPS4100	
1400 (55.1)	600 (23.6)	300 (11.8)	1	NSYSM14630	—	—	—	—	NSYMP146	—	NSYSFP6100	NSYSPS3100	
1400 (55.1)	600 (23.6)	400 (15.7)	1	NSYSM14640	NSYSF14640	NSY2SP144	—	—	NSYMP146	NSYEC641	NSYSFP6100	NSYSPS4100	
1400 (55.1)	800 (31.5)	300 (11.8)	1	NSYSM14830	—	—	—	—	NSYMP148	—	NSYSFP8100	NSYSPS3100	
1400 (55.1)	800 (31.5)	400 (15.7)	1	NSYSM14840	NSYSF14840	NSY2SP144	—	—	NSYMP148	NSYEC841	NSYSFP8100	NSYSPS4100	
1400 (55.1)	1000 (39.4)	400 (15.7)	2	NSYSM1410402D	—	—	—	—	NSYMP1410	—	NSYSFP10100	NSYSPS4100	
1400 (55.1)	1200 (47.2)	400 (15.7)	2	NSYSM1412402D	—	—	—	—	NSYMP1412	—	NSYSFP12100	NSYSPS4100	
1600 (63.0)	600 (23.6)	300 (11.8)	1	NSYSM16630	—	—	—	—	NSYMP166	—	NSYSFP6100	NSYSPS3100	
1600 (63.0)	600 (23.6)	400 (15.7)	1	NSYSM16640	—	—	—	—	NSYMP166	—	NSYSFP6100	NSYSPS4100	
1600 (63.0)	600 (23.6)	600 (23.6)	1	—	NSYSF16660	NSY2SP166	—	—	NSYMP166	NSYEC661	NSYSFP6100	NSYSPS6100	
1600 (63.0)	600 (23.6)	800 (31.5)	1	—	NSYSF16680	NSY2SP168	—	—	NSYMP166	NSYEC681	NSYSFP6100	NSYSPS8100	
1600 (63.0)	800 (31.5)	300 (11.8)	1	NSYSM16830	—	—	—	—	NSYMP168	—	NSYSFP8100	NSYSPS3100	
1600 (63.0)	800 (31.5)	400 (15.7)	1	NSYSM16840	—	—	—	—	NSYMP168	—	NSYSFP8100	NSYSPS4100	
1600 (63.0)	800 (31.5)	600 (23.6)	1	—	NSYSF16860	NSY2SP166	—	—	NSYMP168	NSYEC861	NSYSFP8100	NSYSPS6100	
1600 (63.0)	800 (31.5)	800 (31.5)	1	—	NSYSF16880	NSY2SP168	—	—	NSYMP168	NSYEC881	NSYSFP8100	NSYSPS8100	
1600 (63.0)	1000 (39.4)	300 (11.8)	2	NSYSM1610302D	—	—	—	—	NSYMP1610	—	NSYSFP10100	NSYSPS3100	
1600 (63.0)	1000 (39.4)	400 (15.7)	2	NSYSM1610402D	—	—	—	—	NSYMP1610	—	NSYSFP10100	NSYSPS4100	
1600 (63.0)	1200 (47.2)	300 (11.8)	2	NSYSM1612302D	—	—	—	—	NSYMP1612	—	NSYSFP12100	NSYSPS3100	
1600 (63.0)	1200 (47.2)	400 (15.7)	2	NSYSM1612402D	—	—	—	—	NSYMP1612	—	NSYSFP12100	NSYSPS4100	
1800 (70.9)	400 (15.7)	400 (15.7)	1	—	NSYSF18440	NSY2SP184	—	—	—	NSYEC441	NSYSFP4100	NSYSPS4100	
1800 (70.9)	400 (15.7)	500 (19.7)	1	—	NSYSF18450	NSY2SP185	—	—	—	NSYEC451	NSYSFP4100	NSYSPS5100	
1800 (70.9)	400 (15.7)	600 (23.6)	1	—	NSYSF18460	NSY2SP186	—	—	—	NSYEC461	NSYSFP4100	NSYSPS6100	
1800 (70.9)	600 (23.6)	300 (11.8)	1	NSYSM18630	—	—	—	—	NSYMP186	—	NSYSFP6100	NSYSPS3100	
1800 (70.9)	600 (23.6)	400 (15.7)	1	NSYSM18640	NSYSF18640	NSY2SP184	—	—	NSYMP186	NSYEC641	NSYSFP6100	NSYSPS4100	
1800 (70.9)	600 (23.6)	500 (19.7)	1	NSYSM18650	NSYSF18650	NSY2SP185	—	—	NSYMP186	NSYEC651	NSYSFP6100	NSYSPS5100	
1800 (70.9)	600 (23.6)	600 (23.6)	1	—	NSYSF18660	NSY2SP186	—	—	NSYMP186	NSYEC661	NSYSFP6100	NSYSPS6100	
1800 (70.9)	600 (23.6)	800 (31.5)	1	—	—	NSY2SP188	—	—	NSYMP186	NSYEC681	NSYSFP6100	NSYSPS8100	
1800 (70.9)	800 (31.5)	300 (11.8)	1	NSYSM18830	—	—	—	—	NSYMP188	—	NSYSFP8100	NSYSPS3100	
1800 (70.9)	800 (31.5)	400 (15.7)	1	NSYSM18840	NSYSF18840	NSY2SP184	—	—	NSYMP188	NSYEC841	NSYSFP8100	NSYSPS4100	
1800 (70.9)	800 (31.5)	500 (19.7)	1	NSYSM18850	NSYSF18850	NSY2SP185	—	—	NSYMP188	NSYEC851	NSYSFP8100	NSYSPS5100	
1800 (70.9)	800 (31.5)	600 (23.6)	1	NSYSM18860	NSYSF18860	NSY2SP186	—	—	NSYMP188	NSYEC861	NSYSFP8100	NSYSPS6100	
1800 (70.9)	800 (31.5)	600 (23.6)	2	—	NSYSF188602D	NSY2SP186	—	—	NSYMP188	NSYEC861	NSYSFP8100	NSYSPS6100	
1800 (70.9)	1000 (39.4)	400 (15.7)	1	NSYSM181040	NSYSF181040	NSY2SP184	—	—	NSYMP1810	NSYEC1041	NSYSFP10100	NSYSPS4100	
1800 (70.9)	1000 (39.4)	400 (15.7)	2	NSYSM1810402D	NSYSF1810402D	NSY2SP184	—	—	NSYMP1810	NSYEC1041	NSYSFP10100	NSYSPS4100	
1800 (70.9)	1000 (39.4)	500 (19.7)	1	—	NSYSF181050	NSY2SP185	—	—	NSYMP1810	NSYEC1051	NSYSFP10100	NSYSPS5100	
1800 (70.9)	1000 (39.4)	500 (19.7)	2	NSYSM1810502D	—	—	—	—	NSYMP1810	—	NSYSFP10100	NSYSPS5100	
1800 (70.9)	1000 (39.4)	600 (23.6)	1	—	NSYSF181060	NSY2SP186	—	—	NSYMP1810	NSYEC1061	NSYSFP10100	NSYSPS6100	
1800 (70.9)	1000 (39.4)	600 (23.6)	2	—	NSYSF1810602D	NSY2SP186	—	—	NSYMP1810	NSYEC1061	NSYSFP10100	NSYSPS6100	
1800 (70.9)	1200 (47.2)	400 (15.7)	2	NSYSM1812402D	NSYSF1812402D	NSY2SP184	—	—	NSYMP1812	NSYEC1241	NSYSFP12100	NSYSPS4100	
1800 (70.9)	1200 (47.2)	500 (19.7)	2	NSYSM1812502D	NSYSF1812502D	NSY2SP185	—	—	NSYMP1812	NSYEC1251	NSYSFP12100	NSYSPS5100	
1800 (70.9)	1200 (47.2)	600 (23.6)	2	—	NSYSF1812602D	NSY2SP186	—	—	NSYMP1812	NSYEC1261	NSYSFP12100	NSYSPS6100	
1800 (70.9)	1600 (63.0)	400 (15.7)	2	NSYSM1816402D	—	—	—	—	NSYMP1816	—	NSYSFP16100	NSYSPS4100	
1800 (70.9)	1600 (63.0)	500 (19.7)	2	NSYSM1816502D	—	—	—	—	NSYMP1816	—	NSYSFP16100	NSYSPS5100	
2000 (78.7)	300 (11.8)	500 (19.7)	1	—	NSYSF20350	NSY2SP205	—	—	—	NSYEC351	NSYSFP3100	NSYSPS5100	
2000 (78.7)	300 (11.8)	600 (23.6)	1	—	NSYSF20360	NSY2SP206	—	—	—	NSYEC361	NSYSFP3100	NSYSPS6100	
2000 (78.7)	400 (15.7)	400 (15.7)	1	—	NSYSF20440	NSY2SP204	—	—	—	NSYEC441	NSYSFP4100	NSYSPS4100	
2000 (78.7)	400 (15.7)	500 (19.7)	1	—	NSYSF20450	NSY2SP205	—	—	—	NSYEC451	NSYSFP4100	NSYSPS5100	
2000 (78.7)	400 (15.7)	600 (23.6)	1	—	NSYSF20460	NSY2SP206	—	—	—	NSYEC461	NSYSFP4100	NSYSPS6100	
2000 (78.7)	400 (15.7)	800 (31.5)	1	—	NSYSF20480	NSY2SP208	—	—	—	NSYEC481	NSYSFP4100	NSYSPS8100	
2000 (78.7)	600 (23.6)	300 (11.8)	1	NSYSM20630	—	—	—	—	NSYMP206	—	NSYSFP6100	NSYSPS3100	
2000 (78.7)	600 (23.6)	400 (15.7)	1	NSYSM20640	NSYSF20640	NSY2SP204	—	—	NSYMP206	NSYEC641	NSYSFP6100	NSYSPS4100	
2000 (78.7)	600 (23.6)	500 (19.7)	1	NSYSM20650	NSYSF20650	NSY2SP205	—	—	NSYMP206	NSYEC651	NSYSFP6100	NSYSPS5100	
2000 (78.7)	600 (23.6)	600 (23.6)	1	—	NSYSF20660	NSY2SP206	—	—	NSYMP206	NSYEC661	NSYSFP6100	NSYSPS6100	
2000 (78.7)	600 (23.6)	800 (31.5)	1	—	NSYSF20680	NSY2SP208	—	—	NSYMP206	NSYEC681	NSYSFP6100	NSYSPS8100	
2000 (78.7)	800 (31.5)	300 (11.8)	1	NSYSM20830	—	—	—	—	NSYMP208	—	NSYSFP8100	NSYSPS3100	
2000 (78.7)	800 (31.5)	400 (15.7)	1	NSYSM20840	NSYSF20840	NSY2SP204	—	—	NSYMP208	NSYEC841	NSYSFP8100	NSYSPS4100	
2000 (78.7)	800 (31.5)	500 (19.7)	1	NSYSM20850	NSYSF20850	NSY2SP205	—	—	NSYMP208	NSYEC851	NSYSFP8100	NSYSPS5100	
2000 (78.7)	800 (31.5)	600 (23.6)	1	NSYSM20860	NSYSF20860	NSY2SP206	—	—	NSYMP208	NSYEC861	NSYSFP8100	NSYSPS6100	

[1] See Table 28.2 UL File Numbers for Enclosures, page 28-3.

Table 28.3 Spacial Steel Floor-Standing Enclosures (cont'd.)

Height: mm (in)	Width: mm (in)	Depth: mm (in)	# Doors	NSYSM Welded [2]		NSYSF Modular [2]		Accessories, Floor-Standing Enclosures			
				Without mounting plate	Without mounting plate	2 Side panels	Mounting plate	Cable-gland plate, 1 entry	Plinth height 100 mm (3.9 in)		
									Front/back	Sides	
2000 (78.7)	800 (31.5)	600 (23.6)	2	—	NSYSF208602D	NSY2SP206	NSYMP208	NSYEC861	NSYSPPF8100	NSYSPPS6100	
2000 (78.7)	800 (31.5)	800 (31.5)	1	—	NSYSF20880	NSY2SP208	NSYMP208	NSYEC881	NSYSPPF8100	NSYSPPS8100	
2000 (78.7)	1000 (39.4)	400 (15.7)	1	—	NSYSF201040	NSY2SP204	NSYMP2010	NSYEC1041	NSYSPPF10100	NSYSPPS4100	
2000 (78.7)	1000 (39.4)	400 (15.7)	2	NSYSM2010402D	NSYSF2010402D	NSY2SP204	NSYMP2010	NSYEC1041	NSYSPPF10100	NSYSPPS4100	
2000 (78.7)	1000 (39.4)	500 (19.7)	1	—	NSYSF201050	NSY2SP205	NSYMP2010	NSYEC1051	NSYSPPF10100	NSYSPPS5100	
2000 (78.7)	1000 (39.4)	500 (19.7)	2	NSYSM2010502D	NSYSF2010502D	NSY2SP205	NSYMP2010	NSYEC1051	NSYSPPF10100	NSYSPPS5100	
2000 (78.7)	1000 (39.4)	600 (23.6)	1	—	NSYSF201060	NSY2SP206	NSYMP2010	NSYEC1061	NSYSPPF10100	NSYSPPS6100	
2000 (78.7)	1000 (39.4)	600 (23.6)	2	—	NSYSF2010602D	NSY2SP206	NSYMP2010	NSYEC1061	NSYSPPF10100	NSYSPPS6100	
2000 (78.7)	1000 (39.4)	800 (31.5)	1	—	NSYSF201080	NSY2SP208	NSYMP2010	NSYEC1081	NSYSPPF10100	NSYSPPS8100	
2000 (78.7)	1200 (47.2)	400 (15.7)	2	NSYSM2012402D	NSYSF2012402D	NSY2SP204	NSYMP2012	NSYEC1241	NSYSPPF12100	NSYSPPS4100	
2000 (78.7)	1200 (47.2)	500 (19.7)	2	NSYSM2012502D	NSYSF2012502D	NSY2SP205	NSYMP2012	NSYEC1251	NSYSPPF12100	NSYSPPS5100	
2000 (78.7)	1200 (47.2)	600 (23.6)	2	NSYSM2012602D	NSYSF2012602D	NSY2SP206	NSYMP2012	NSYEC1261	NSYSPPF12100	NSYSPPS6100	
2000 (78.7)	1200 (47.2)	800 (31.5)	2	—	NSYSF2012802D	NSY2SP208	NSYMP2012	NSYEC1281	NSYSPPF12100	NSYSPPS8100	
2000 (78.7)	1600 (63.0)	400 (15.7)	2	NSYSM2016402D	NSYSF206402D	NSY2SP204	NSYMP2016	NSYEC1641	NSYSPPF16100	NSYSPPS4100	
2000 (78.7)	1600 (63.0)	500 (19.7)	2	NSYSM2016502D	NSYSF2016502D	NSY2SP205	NSYMP2016	NSYEC1651	NSYSPPF16100	NSYSPPS5100	
2000 (78.7)	1600 (63.0)	600 (23.6)	2	NSYSM2016602D	NSYSF2016602D	NSY2SP206	NSYMP2016	NSYEC1661	NSYSPPF16100	NSYSPPS6100	
2200 (86.6)	400 (15.7)	600 (23.6)	1	—	NSYSF22460	NSY2SP226	—	NSYEC461	NSYSPPF4100	NSYSPPS6100	
2200 (86.6)	600 (23.6)	600 (23.6)	1	—	NSYSF22660	NSY2SP226	NSYMP226	NSYEC661	NSYSPPF6100	NSYSPPS6100	
2200 (86.6)	600 (23.6)	800 (31.5)	1	—	NSYSF22680	NSY2SP228	NSYMP226	NSYEC681	NSYSPPF6100	NSYSPPS8100	
2200 (86.6)	800 (31.5)	600 (23.6)	1	—	NSYSF22860	NSY2SP226	NSYMP228	NSYEC861	NSYSPPF8100	NSYSPPS6100	
2200 (86.6)	800 (31.5)	800 (31.5)	1	—	NSYSF22880	NSY2SP228	NSYMP228	NSYEC881	NSYSPPF8100	NSYSPPS8100	
2200 (86.6)	1000 (39.4)	600 (23.6)	1	—	NSYSF221060	NSY2SP226	NSYMP2210	NSYEC1061	NSYSPPF10100	NSYSPPS6100	
2200 (86.6)	1200 (47.2)	600 (23.6)	2	—	NSYSF2212602D	NSY2SP226	NSYMP2212	NSYEC1261	NSYSPPF12100	NSYSPPS6100	
2200 (86.6)	1200 (47.2)	800 (31.5)	2	—	NSYSF2212802D	NSY2SP228	NSYMP2212	NSYEC1281	NSYSPPF12100	NSYSPPS8100	

[2] See Table 28.2 UL File Numbers for Enclosures, page 28-3.

Stainless Steel Floor-Standing Enclosures





Table 28.4: Spacial Stainless Steel Floor-Standing Enclosures

Height: mm (in)	Width: mm (in)	Depth: mm (in)	# Doors	NSYSMX [3]	NSYSFX Modular [3]		Accessories, Stainless Steel		
				Without mounting plate	Without mounting plate	2 Side panels	Mounting plate	Plinth height 100 mm (3.9 in)	
								Front/back	Sides
									
1400 (55.1)	1000 (39.4)	300 (11.8)	2	NSYSMX141030	—	—	NSYMP1410	NSYSPXF10100H	NSYSPXS3100H
1600 (63.0)	800 (31.5)	400 (15.7)	1	NSYSMX16840	—	—	NSYMP168	NSYSPXF8100H	NSYSPXS4100H
1800 (70.9)	600 (23.6)	400 (15.7)	1	NSYSMX18640	NSYSFX18640	NSY2SPX184	NSYMP186	NSYSPXF6100H	NSYSPXS4100H
1800 (70.9)	800 (31.5)	400 (15.7)	1	NSYSMX18840	NSYSFX18840	NSY2SPX184	NSYMP188	NSYSPXF8100H	NSYSPXS4100H
1800 (70.9)	1200 (47.2)	400 (15.7)	2	NSYSMX181240	NSYSFX181240	NSY2SPX184	NSYMP1812	NSYSPXF12100H	NSYSPXS4100H
1800 (70.9)	1600 (63.0)	400 (15.7)	2	NSYSMX181640	—	—	NSYMP1813	NSYSPXF16100H	NSYSPXS4100H
2000 (78.7)	600 (23.6)	500 (19.7)	1	—	NSYSFX20650	NSY2SPX205	NSYMP206	—	—
2000 (78.7)	800 (31.5)	400 (15.7)	1	—	NSYSFX20840	NSY2SPX204	NSYMP208	—	—
2000 (78.7)	800 (31.5)	500 (19.7)	1	NSYSMX20850	—	—	NSYMP208	NSYSPXF8100H	NSYSPXS5100H
2000 (78.7)	800 (31.5)	600 (23.6)	1	—	NSYSFX20860	NSY2SPX206	NSYMP208	—	—
2000 (78.7)	1000 (39.4)	400 (15.7)	2	NSYSMX201040	—	—	NSYMP2010	NSYSPXF10100H	NSYSPXS4100H
2000 (78.7)	1000 (39.4)	600 (23.6)	2	—	NSYSFX201060	NSY2SPX206	NSYMP2010	—	—
2000 (78.7)	1200 (47.2)	500 (19.7)	2	NSYSMX201250	—	—	NSYMP2012	NSYSPXF12100H	NSYSPXS5100H
2000 (78.7)	1200 (47.2)	600 (23.6)	2	—	NSYSFX201260	NSY2SPX206	NSYMP2012	—	—
2000 (78.7)	1600 (63.0)	600 (23.6)	2	NSYSMX201660	—	—	NSYMP2016	NSYSPXF16100H	NSYSPXS6100H

[3] See Table 28.2 UL File Numbers for Enclosures, page 28-3.

Steel Wall-Mounting Enclosures




Table 28.5: Spacial Steel Wall-Mounting Enclosures

	Height: mm (in)	Width: mm (in)	Depth: mm (in)	# Doors [4]	Spacial Steel Wall-Mounting Enclosures [5]			Mounting Plate
					CRN/CRNG	S3DC	S3X Stainless steel	
	200 (7.9)	200 (7.9)	150 (5.9)	1	NSYCRN22150 [6]	—	—	NSYMM22
	200 (7.9)	300 (11.8)	150 (5.9)	1	NSYCRN23150 [6]	—	—	NSYMM32
	250 (9.8)	200 (7.9)	150 (5.9)	1	NSYCRN252150	—	—	NSYMM2520
	300 (11.8)	200 (7.9)	150 (5.9)	1	—	NSYS3DC3215	NSYS3X3215	NSYMM32
	300 (11.8)	250 (9.8)	150 (5.9)	1	NSYCRN325150	—	NSYS3X302515	NSYMM3025
	300 (11.8)	250 (9.8)	200 (7.9)	1	NSYCRN325200	—	—	NSYMM3025
	300 (11.8)	300 (11.8)	150 (5.9)	1	NSYCRN33150	NSYS3DC3315	NSYS3X3315	NSYMM33
	300 (11.8)	300 (11.8)	200 (7.9)	1	NSYCRN33200	NSYS3DC3320	—	NSYMM33
	300 (11.8)	400 (15.7)	200 (7.9)	1	NSYCRN34200	—	—	NSYMM43
	300 (11.8)	450 (17.7)	150 (5.9)	1	NSYCRN345150 [6]	—	—	NSYMM3045
	400 (15.7)	300 (11.8)	150 (5.9)	1	NSYCRN43150	NSYS3DC4315	NSYS3X4315	NSYMM43
	400 (15.7)	300 (11.8)	200 (7.9)	1	NSYCRN43200	NSYS3DC4320	NSYS3X4320	NSYMM43
	400 (15.7)	400 (15.7)	200 (7.9)	1	NSYCRN44200	NSYS3DC4420	NSYS3X4420	NSYMM44
	400 (15.7)	600 (23.6)	200 (7.9)	—	—	—	NSYS3X4620	NSYMM46
	400 (15.7)	600 (23.6)	250 (9.8)	1	NSYCRN46250	—	—	NSYMM64
	400 (15.7)	600 (23.6)	300 (11.8)	1	NSYCRN46300	—	—	NSYMM64
	500 (19.7)	400 (15.7)	150 (5.9)	1	NSYCRN54150	—	—	NSYMM54
	500 (19.7)	400 (15.7)	200 (7.9)	1	NSYCRN54200	NSYS3DC5420	NSYS3X5420	NSYMM54
	500 (19.7)	400 (15.7)	250 (9.8)	1	NSYCRN54250	NSYS3DC5425	—	NSYMM54
	500 (19.7)	500 (19.7)	200 (7.9)	1	—	NSYS3DC5520	—	NSYMM55
	500 (19.7)	500 (19.7)	250 (9.8)	1	NSYCRN55250	NSYS3DC5525	—	NSYMM55
	600 (23.6)	400 (15.7)	150 (5.9)	1	NSYCRN64150	—	—	NSYMM64
	600 (23.6)	400 (15.7)	200 (7.9)	1	NSYCRN64200	NSYS3DC6420	NSYS3X6420	NSYMM64
	600 (23.6)	400 (15.7)	250 (9.8)	1	NSYCRN64250	NSYS3DC6425	—	NSYMM64
	600 (23.6)	500 (19.7)	150 (5.9)	1	NSYCRN65150	—	—	NSYMM65
	600 (23.6)	500 (19.7)	200 (7.9)	1	NSYCRN65200	—	—	NSYMM65
	600 (23.6)	500 (19.7)	250 (9.8)	1	NSYCRN65250	—	—	NSYMM65
	600 (23.6)	600 (23.6)	200 (7.9)	1	NSYCRN66200	NSYS3DC6620	—	NSYMM66
	600 (23.6)	600 (23.6)	250 (9.8)	1	NSYCRN66250	NSYS3DC6625	NSYS3X6625	NSYMM66
	600 (23.6)	600 (23.6)	300 (11.8)	1	NSYCRN66300	NSYS3DC6630	—	NSYMM66
	600 (23.6)	800 (31.5)	300 (11.8)	1	NSYCRN68300	—	—	NSYMM86
	700 (27.6)	500 (19.7)	200 (7.9)	1	NSYCRN75200	—	—	NSYMM75
	700 (27.6)	500 (19.7)	250 (9.8)	1	NSYCRN75250	NSYS3DC7525	NSYS3X7525	NSYMM75
	800 (31.5)	600 (23.6)	200 (7.9)	1	NSYCRN86200	NSYS3DC8620	—	NSYMM86
	800 (31.5)	600 (23.6)	250 (9.8)	1	NSYCRN86250	NSYS3DC8625	NSYS3X8625	NSYMM86
	800 (31.5)	600 (23.6)	300 (11.8)	1	NSYCRN86300	NSYS3DC8630	—	NSYMM86
	800 (31.5)	600 (23.6)	400 (15.7)	1	NSYCRNG86400	NSYS3DC8640	—	NSYMM86
	800 (31.5)	800 (31.5)	200 (7.9)	1	NSYCRN88200	—	—	NSYMM88
	800 (31.5)	800 (31.5)	250 (9.8)	1	—	NSYS3DC8825	—	NSYMM88
	800 (31.5)	800 (31.5)	300 (11.8)	1	NSYCRN88300	NSYS3DC8830	NSYS3X8830	NSYMM86
	800 (31.5)	1000 (39.4)	300 (11.8)	2	NSYCRNG810300D	—	—	NSYMM108
	800 (31.5)	1200 (47.2)	300 (11.8)	2	NSYCRNG812300D	—	—	NSYMM128
	1000 (39.4)	600 (23.6)	250 (9.8)	1	NSYCRN106250	NSYS3DC10625	—	NSYMM106
	1000 (39.4)	600 (23.6)	300 (11.8)	1	NSYCRN106300	—	—	NSYMM106
	1000 (39.4)	600 (23.6)	400 (15.7)	1	NSYCRNG106400	—	—	NSYMM106
	1000 (39.4)	800 (31.5)	250 (9.8)	1	NSYCRN108250	NSYS3DC10825	—	NSYMM108
	1000 (39.4)	800 (31.5)	300 (11.8)	1	NSYCRN108300	NSYS3DC10830	NSYS3X10830	NSYMM108
	1000 (39.4)	800 (31.5)	400 (15.7)	1	NSYCRNG108400	NSYS3DC10840	—	NSYMM108
	1000 (39.4)	1000 (39.4)	300 (11.8)	2	NSYCRNG1010300D	NSYS3DC101030	NSYS3X101030	NSYMM1010
	1000 (39.4)	1200 (47.2)	300 (11.8)	2	NSYCRNG1012300D	—	—	NSYMM1210
	1000 (39.4)	1200 (47.2)	400 (15.7)	2	NSYCRNG1012400D	—	—	NSYMM1210
	1200 (47.2)	600 (23.6)	300 (11.8)	1	NSYCRNG126300	—	—	NSYMM126
	1200 (47.2)	600 (23.6)	400 (15.7)	1	NSYCRNG126400	—	—	NSYMM126
	1200 (47.2)	800 (31.5)	300 (11.8)	1	NSYCRNG128300	NSYS3DC12830	NSYS3X12830	NSYMM128
	1200 (47.2)	800 (31.5)	400 (15.7)	1	NSYCRNG128400	NSYS3DC12840	—	NSYMM128
	1200 (47.2)	1000 (39.4)	300 (11.8)	2	NSYCRNG1210300D	NSYS3DC121030	NSYS3X121030	NSYMM1210
	1200 (47.2)	1000 (39.4)	400 (15.7)	2	NSYCRNG1210400D	—	—	NSYMM1210
	1200 (47.2)	1200 (47.2)	300 (11.8)	2	NSYCRNG1212300D	—	—	NSYMM1212
	1200 (47.2)	1200 (47.2)	400 (15.7)	2	NSYCRNG1212400D	—	—	NSYMM1212
	1400 (55.1)	1000 (39.4)	300 (11.8)	2	NSYCRNG1410300D	—	—	NSYMM1410

[4] IP66 with one door, IP55 with two doors
 [5] See Table 28.2 UL File Numbers for Enclosures, page 28-3.
 [6] Two cable gland plates, one on top and one on bottom.


Polyester Floor-Standing Enclosures

Table 28.6: Thalassa Polyester Floor-Standing Enclosures

	Height: mm (in)	Width: mm (in)	Depth: mm (in)	# Doors	Sealed Enclosure, IP65 [7]		Enclosures with Open Bottom, IP54 [7]
					Plain door	Transparent door	Plain door
	500 (19.7)	500 (19.7)	320 (12.6)	1	NSYPLA553	NSYPLA553T	NSYPLAZ553
	500 (19.7)	500 (19.7)	420 (16.5)	1	NSYPLA554	NSYPLA554T	NSYPLAZ554
	500 (19.7)	750 (29.5)	320 (12.6)	1	NSYPLA573	NSYPLA573T	NSYPLAZ573
	500 (19.7)	750 (29.5)	420 (16.5)	1	NSYPLA574	NSYPLA574T	NSYPLAZ574
	500 (19.7)	1000 (39.4)	320 (12.6)	2	NSYPLA5103	NSYPLA5103T	NSYPLAZ5103
	500 (19.7)	1000 (39.4)	420 (16.5)	2	NSYPLA5104	NSYPLA5104T	NSYPLAZ5104
	500 (19.7)	1250 (49.2)	320 (12.6)	2	NSYPLA5123	NSYPLA5123T	NSYPLAZ5123
	500 (19.7)	1250 (49.2)	420 (16.5)	2	NSYPLA5124	NSYPLA5124T	NSYPLAZ5124
	750 (29.5)	500 (19.7)	320 (12.6)	1	NSYPLA753	NSYPLA753T	NSYPLAZ753
	750 (29.5)	500 (19.7)	420 (16.5)	1	NSYPLA754	NSYPLA754T	NSYPLAZ754
	750 (29.5)	750 (29.5)	320 (12.6)	1	NSYPLA773	NSYPLA773T	NSYPLAZ773
	750 (29.5)	750 (29.5)	420 (16.5)	1	NSYPLA774	NSYPLA774T	NSYPLAZ774
	750 (29.5)	1000 (39.4)	320 (12.6)	2	NSYPLA7103	NSYPLA7103T	NSYPLAZ7103
	750 (29.5)	1000 (39.4)	420 (16.5)	2	NSYPLA7104	NSYPLA7104T	NSYPLAZ7104
	750 (29.5)	1250 (49.2)	320 (12.6)	2	NSYPLA7123	NSYPLA7123T	NSYPLAZ7123
	750 (29.5)	1250 (49.2)	420 (16.5)	2	NSYPLA7124	NSYPLA7124T	NSYPLAZ7124
	1000 (39.4)	500 (19.7)	320 (12.6)	1	NSYPLA1053	NSYPLA1053T	NSYPLAZ1053
	1000 (39.4)	500 (19.7)	420 (16.5)	1	NSYPLA1054	NSYPLA1054T	NSYPLAZ1054
	1000 (39.4)	750 (29.5)	320 (12.6)	1	NSYPLA1073	NSYPLA1073T	NSYPLAZ1073
	1000 (39.4)	750 (29.5)	420 (16.5)	1	NSYPLA1074	NSYPLA1074T	NSYPLAZ1074
	1000 (39.4)	1000 (39.4)	320 (12.6)	2	NSYPLA10103	NSYPLA10103T	NSYPLAZ10103
	1000 (39.4)	1000 (39.4)	420 (16.5)	2	NSYPLA10104	NSYPLA10104T	NSYPLAZ10104
	1000 (39.4)	1250 (49.2)	320 (12.6)	2	NSYPLA10123	NSYPLA10123T	NSYPLAZ10123
	1000 (39.4)	1250 (49.2)	420 (16.5)	2	NSYPLA10124	NSYPLA10124T	NSYPLAZ10124
	1250 (49.2)	500 (19.7)	320 (12.6)	1	NSYPLA1253	NSYPLA1253T	NSYPLAZ1253
	1250 (49.2)	500 (19.7)	420 (16.5)	1	NSYPLA1254	NSYPLA1254T	NSYPLAZ1254
	1250 (49.2)	750 (29.5)	320 (12.6)	1	NSYPLA1273	NSYPLA1273T	NSYPLAZ1273
	1250 (49.2)	750 (29.5)	420 (16.5)	1	NSYPLA1274	NSYPLA1274T	NSYPLAZ1274
	1250 (49.2)	1000 (39.4)	320 (12.6)	2	NSYPLA12103	NSYPLA12103T	NSYPLAZ12103
	1250 (49.2)	1000 (39.4)	420 (16.5)	2	NSYPLA12104	NSYPLA12104T	NSYPLAZ12104
1250 (49.2)	1250 (49.2)	320 (12.6)	2	NSYPLA12123	NSYPLA12123T	NSYPLAZ12123	
1250 (49.2)	1250 (49.2)	420 (16.5)	2	NSYPLA12124	NSYPLA12124T	NSYPLAZ12124	
1500 (59.1)	500 (19.7)	320 (12.6)	1	NSYPLA1553	NSYPLA1553T	NSYPLAZ1553	
1500 (59.1)	500 (19.7)	420 (16.5)	1	NSYPLA1554	NSYPLA1554T	NSYPLAZ1554	
1500 (59.1)	750 (29.5)	320 (12.6)	1	NSYPLA1573	NSYPLA1573T	NSYPLAZ1573	
1500 (59.1)	750 (29.5)	420 (16.5)	1	NSYPLA1574	NSYPLA1574T	NSYPLAZ1574	
1500 (59.1)	1000 (39.4)	320 (12.6)	2	NSYPLA15103	NSYPLA15103T	NSYPLAZ15103	
1500 (59.1)	1000 (39.4)	420 (16.5)	2	NSYPLA15104	NSYPLA15104T	NSYPLAZ15104	
1500 (59.1)	1250 (49.2)	320 (12.6)	2	NSYPLA15123	NSYPLA15123T	NSYPLAZ15123	
1500 (59.1)	1250 (49.2)	420 (16.5)	2	NSYPLA15124	NSYPLA15124T	NSYPLAZ15124	

Polyester Wall-Mounting Enclosures

Table 28.7: Thalassa Polyester Wall-Mounting Enclosures

	Height: mm (in)	Width: mm (in)	Depth: mm (in)	ABS/PC Wall-Mounting Enclosures IP66 [7]		Polyester Wall-Mounting Enclosures IP66 [7]				Polyester Wall-Mounting ATEX Enclosures [7]	Mounting Plate
				Plain door	Transparent door	Plain door	Transparent door	Plain door 3-point closure	Transparent door 3-point closure		
	310 (12.2)	215 (8.5)	160 (6.3)	NSYPLM32	NSYPLM32T	—	—	—	—	—	NSYMM32
	308 (12.1)	255 (10.0)	160 (6.3)	—	—	NSYPLM3025	NSYPLM3025T	—	—	NSYPLMEX3025	NSYMM3025
	430 (16.9)	330 (13.0)	200 (7.9)	—	—	NSYPLM43	NSYPLM43T	NSYPLM43V	NSYPLM43TV	NSYPLMEX43	NSYMM43
	530 (20.9)	430 (16.9)	200 (7.9)	—	—	NSYPLM54	NSYPLM54T	NSYPLM54V	NSYPLM54TV	NSYPLMEX54	NSYMM54
	647 (25.5)	436 (17.2)	250 (9.8)	—	—	NSYPLM64	NSYPLM64T	NSYPLM64V	NSYPLM64TV	NSYPLMEX64	NSYMM64
	747 (29.4)	536 (21.1)	300 (11.8)	—	—	NSYPLM75	NSYPLM75T	NSYPLM75V	NSYPLM75TV	NSYPLMEX75	NSYMM75
	847 (33.3)	636 (25.0)	300 (11.8)	—	—	NSYPLM86	NSYPLM86T	NSYPLM86V	NSYPLM86TV	NSYPLMEX86	NSYMM86
	1056 (41.6)	852 (33.5)	350 (13.8)	—	—	NSYPLM108	NSYPLM108T	—	—	NSYPLMEX108	NSYMM108

[7] See Table 28.2 UL File Numbers for Enclosures, page 28-3.

Ventilation Systems with Filters

Specially recommended for installations in which the ambient temperature is lower than the desired temperature inside the enclosure, a high protection rating is required: IP54 or IP55, and the surrounding environment is relatively clean, allowing air to enter the enclosure.

- 38 to 850 m³/h.
- Five input voltages: AC: 400/440 V, 230 V, 115 V (50/60 Hz), DC: 48 V and 24 V.
- Broad range of accessories (filters, IP55 and EMC covers, anti-vandalism kit).
- **UL Listing:** E80264



Table 28.8: Ventilation Systems with Filters

Fan flow rate (50 Hz)			Voltage	Catalog Number					
Free with filter	With 1 outlet grill	With 2 outlet grills		Fan with filter	Outlet grill	Color kit	IP55	IP55 stainless steel	EMC
				RAL 7035		RAL 7032			
38	25	33	230 V	NSYCVF38M230PF	NSYCAG92LPF	NSYCAG92LPC	—	—	—
38	27	35	115 V	NSYCVF38M115PF					
58	39	47	24 Vdc	NSYCVF38M24DPF					
44	34	41	48 Vdc	NSYCVF38M48DPF	NSYCAG125LPF	NSYCAG125LPC	NSYCAP125LZF	NSYCAG125LXF	NSYCAG125SLE
85	63	71	230 V	NSYCVF85M230PF					
79	65	73	115 V	NSYCVF85M115PF					
80	57	77	24 Vdc	NSYCVF85M24DPF	NSYCAG223LPF	NSYCAG223LPC	NSYCAP223LZF	NSYCAG223LXF	NSYCAP223LE
79	59	68	48 Vdc	NSYCVF85M48DPF					
165	153	161	230 V	NSYCVF165M230PF					
164	153	161	115 V	NSYCVF165M115PF	NSYCAG291LPF	NSYCAG291LPC	NSYCAP291LZF	NSYCAG291LXF	NSYCAP291LE
188	171	179	24 Vdc	NSYCVF165M24DPF					
193	171	179	48 Vdc	NSYCVF165M48DPF					
302	260	268	230 V	NSYCVF300M230PF	NSYCAG291LPC	NSYCAG291LPC	NSYCAP291LZF	NSYCAG291LXF	NSYCAP291LE
302	263	271	115 V	NSYCVF300M115PF					
262	221	229	24 Vdc	NSYCVF300M24DPF					
247	210	218	48 Vdc	NSYCVF300M48DPF	NSYCAG291LPC	NSYCAG291LPC	NSYCAP291LZF	NSYCAG291LXF	NSYCAP291LE
562	473	481	230 V	NSYCVF560M230PF					
582	485	494	115 V	NSYCVF560M115PF					
838	718	728	230 V	NSYCVF850M230PF	NSYCAG291LPC	NSYCAG291LPC	NSYCAP291LZF	NSYCAG291LXF	NSYCAP291LE
983	843	854	115 V	NSYCVF850M115PF					
931	798	809	400/440 V	NSYCVF850M400PF					

Thermal Control

Thermostats control the temperature inside the enclosure and send a signal when maximum or minimum temperature values have been reached.

- Temperature control: adjustable thermostats; single or double.
- Relative humidity control: adjustable humidistat.
- Temperature and relative humidity control: adjustable hygrotherm.



Table 28.9: Control temperature



N.C. thermostat

Control a resistance heater or an alarm	
Setting range	Catalog Number
0 to +60 °C	NSYCCOTH30VID
+32 to +140 °F	NSYCCOTH30VCF



N.O. thermostat

Control a fan or an alarm	
Setting range	Catalog Number
0 to +60 °C	NSYCCOTH30H
+32 to +140 °F	NSYCCOTH30HCF



Double thermostat

Control a resistance heater and a fan	
Setting range	Catalog Number
0 to +60 °C	NSYCCOTH30VD
+32 to +140 °F	NSYCCOTH30VDF



Thermostat with inverse contact

Control a resistance heater or a fan	
Setting range	Catalog Number
0 to +60 °C	NSYCCOTH30H
+32 to +140 °F	NSYCCOTH30HCF



Electronic thermostat

Control a resistance heater or a fan		
Setting range	Display	Catalog Number
+5 °C to +50 °C	°C or °F	NSYCCOHTH30VID
		NSYCCOHTH120VID
		NSYCCOHTH230VID

7 different operating modes.
Option of installing one or two external sensors.



Electronic hygrotherm

Control temperature and relative humidity		
Setting range	Display	Catalog Number
+5 °C to +50 °C	°C or °F	NSYCCOHTH30VID
		NSYCCOHTH120VID
		NSYCCOHTH230VID

3 different operating modes.
Option of installing an external sensor.



Electronic hygrosat

Control relative humidity		
Setting range	Display	Catalog Number
20% to 80%	% RH	NSYCCOHTH230VID

2 different operating modes.



Temperature sensor

PTC external temperature sensor (double insulation)	
Catalog Number	
NSYCCAST	

Table 28.10: Insulated resistance heaters



Insulated resistance heater with fan		
Power (W)	Voltage (V)	Catalog Number
100	120–240 AC	NSYCR100WU2C
10	120–240 AC	NSYCR10WU2C
147	120–240 AC	NSYCR150WU2C
20	120–240 AC	NSYCR20WU2C
55	120–240 AC	NSYCR50WU2C
177	230 AC	NSYCR170W230VVC

Table 28.11: Ultra-thin resistance heaters



Ultra-thin heaters		
Power (W)	Voltage (V)	Catalog Number
10	120	NSYCRS10W120V
10	240	NSYCRS10W240V
25	120	NSYCRS25W120V
25	240	NSYCRS25W240V
50	120	NSYCRS50W120V
50	240	NSYCRS50W240V
100	120	NSYCRS100W120V
100	240	NSYCRS100W240V
200	120	NSYCRS200W120V
200	240	NSYCRS200W240V

Table 28.12: Thermofans



Thermofans		
Power (W)	Voltage (V)	Catalog Number
400/550	230 AC	NSYCRP1W230VTV
400/550	120 AC	NSYCRP1W120VTV