Saves Your Energy

Polyester cabinets
Ensto Cubo N

Rugged non-metallic enclosure series
for challenging conditions

Polyester cabinets
for various applications

Ensto Cubo N wall cabinets are created by professionals to provide customer-specific enclosing solutions for demanding environments.

The cabinets are made of glass-reinforced polyester and are extremely durable. They can replace stainless steel enclosures in challenging conditions. The cost-effective polyester-enclosing solution used is UV-resistant, self-extinguishing and halogen-free. The cabinets can be used in various environments and application areas such as maritime, metering and control, renewable energies as well as water and waste water treatment.

Maritime – The cabinets are corrosion-resistant and do not absorb water. Ensto Cubo N does not require any finishing or maintenance. It is self-extinguishing, and it does not support combustion.

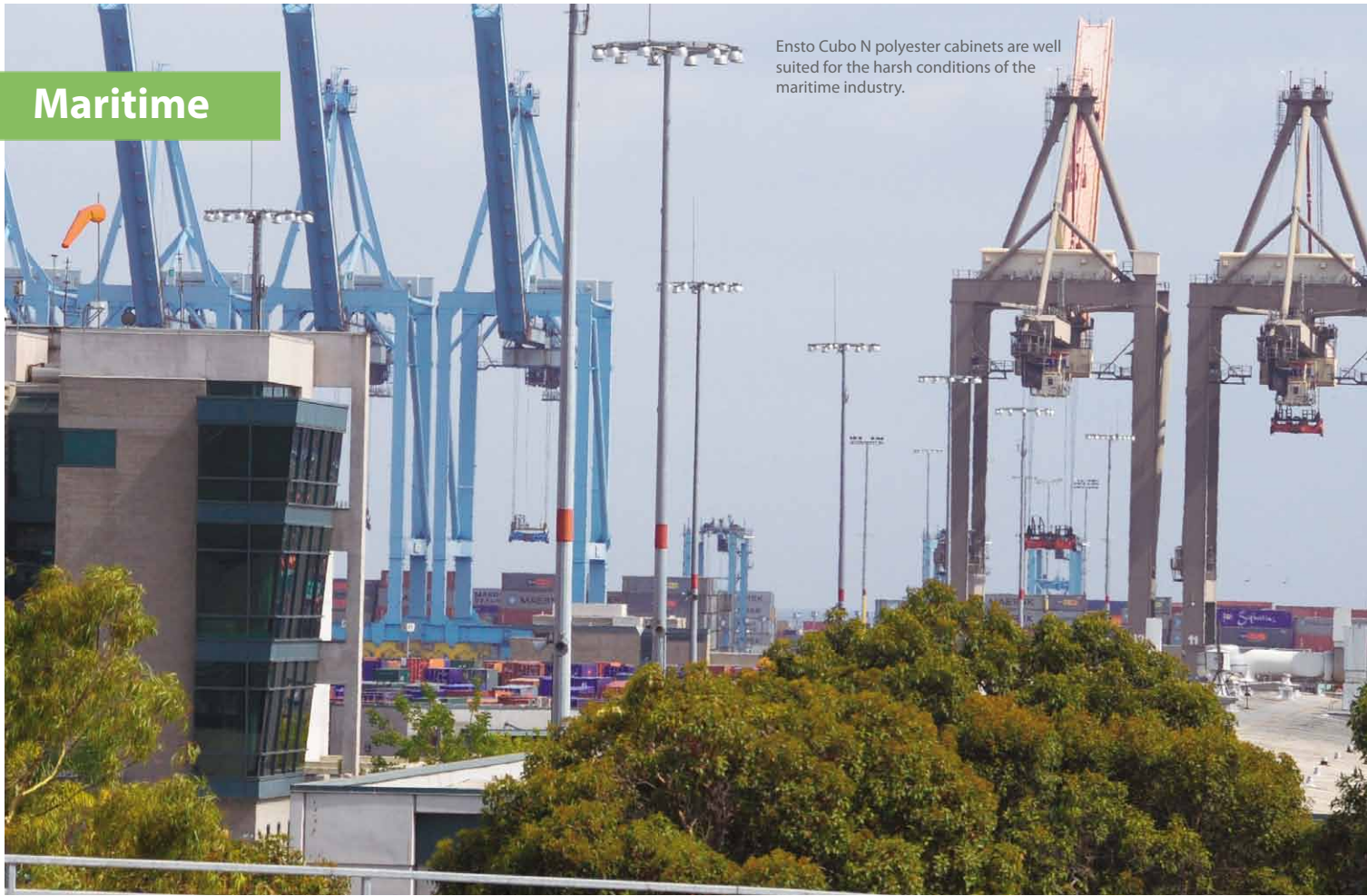**Metering and control** – Ensto Cubo N allows fast and easy fitting of, for example, remotely-read electricity meters. This cabinet can sustain impacts of up to 20 joules as it has a high impact-rating, IK10. The wall cabinets are also extremely durable, and thanks to their double isolation they provide excellent protection against electrical contacts.

Renewable energies – The fiberglass-reinforced polyester cabinet is resistant to outdoor environments: it is resistant to changes in climate and has high UV-resistance. An integrated protective edge prevents entry of water when opening the door.

Water and waste water treatment – Ensto Cubo N cabinets are corrosion and chemical resistant with a high IP66 class. The cabinets are easy to handle and install.
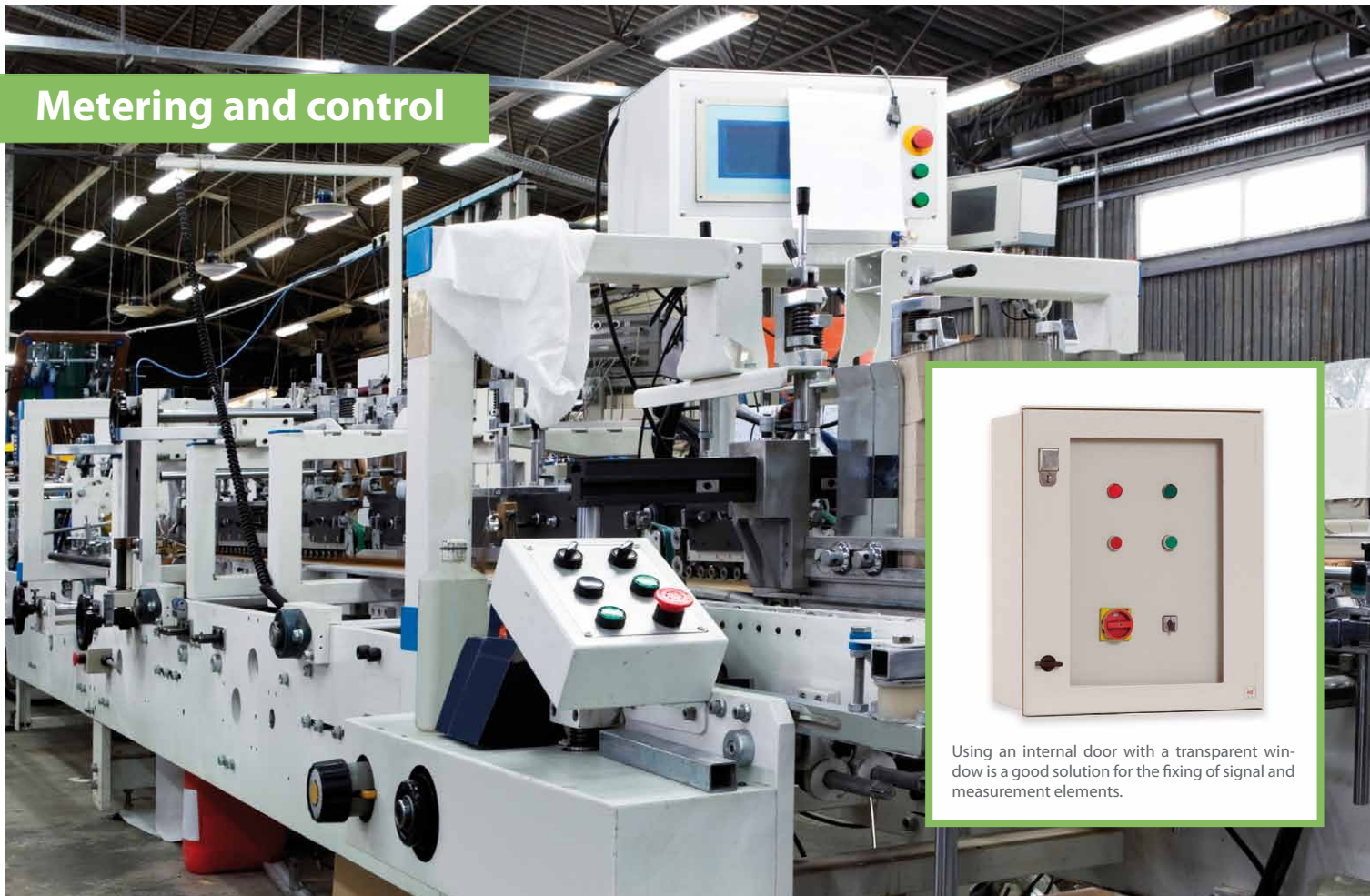
Ensto Cubo N polyester cabinets are well suited for the harsh conditions of the maritime industry.

Renewable energies

Metering and control

Water and waste water treatment

Using an internal door with a transparent window is a good solution for the fixing of signal and measurement elements.

Ensto Cubo N enclosures are weather resistant and are excellent option for all outdoor installations.

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Ensto Cubo N wall cabinets IP 66
Sizes 250 x 300 x 140 to 600 x 800 x 300 mm

Ensto Cubo N wall cabinets

Ensto Cubo N wall cabinets in brief:
- Available with plain sides or with a polycarbonate window
- Available in 7 sizes
- Superb temperature resistance
- Sturdy construction and high resistance to corrosion and solvents
- Suitable for highly demanding environments such as oil refineries and the petrochemical/chemical industries
- Quick fixture brackets at the back allow fitting without drilling
- Built-in protective edge allows you to open the door 180° in installations and also prevents entry of water when opening the door
- Vertical patterns on the inner side of the door enables correct fitting
- Difficult to machine, so ordering enclosures with ready-made cut-outs is recommended

Contents of the product package:
- Enclosure base
- Door
- Lock and DIN 3 keys (one for each lock)
- (or 3-point closing with swing handle)

Customising services available for this product:
- Machining
- Prints
- Assembly of components

Conformity	
	CE ✓RoHS
Technical information	
Degree of protection:	IP 66
Impact resistance:	IK 10, models with window IK 07
Flammability rating:	UL 746C 5V
Material	
Base/cover:	Fibreglass reinforced polyester
Lock:	Double bit DIN 3.0 mm
Gasket:	PUR (polyurethane)
Knockout alternatives	
	Plain sides / customer-spesific knockouts
Standard colour	
Base:	Grey RAL 7035
Cover:	Grey RAL 7035

Ensto Cubo N wall cabinets have a built-in protective edge that allows you to open the door 180° while protecting the cabinet from entry of water. The quick fixture brackets at the back of the cabinet allows fitting without drilling.

Product cards with technical drawings can be found at www.ensto.com.

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Ensto Cubo N wall cabinets with plain sides, polyester

PRODUCT CODE	DESCRIPTION	EXTERNAL DIMENSIONS (MM)			PACKAGE SIZE (PCS)	EAN 13 CODE
		WIDTH	HEIGHT	DEPTH		
NGRP253014		250	300	140	1	6438100123451
NGRP304020		300	400	200	1	6438100123468
NGRP404020		400	400	200	1	6438100123475
NGRP405020		400	500	200	1	6438100123482
NGRP406023		400	600	230	1	6438100123499
NGRP506023		500	600	230	1	6438100123505
NGRP608030		600	800	300	1	6438100123512

NGRP506023

Ensto Cubo N wall cabinets with plain sides, 3-point closing with swing handle / DIN3, polyester

PRODUCT CODE	DESCRIPTION	EXTERNAL DIMENSIONS (MM)			PACKAGE SIZE (PCS)	EAN 13 CODE
		WIDTH	HEIGHT	DEPTH		
NGRP304020P3SH		300	400	200	1	6438100123581
NGRP404020P3SH		400	400	200	1	6438100123598
NGRP405020P3SH		400	500	200	1	6438100123604
NGRP406023P3SH		400	600	230	1	6438100123611
NGRP506023P3SH		500	600	230	1	6438100123628
NGRP608030P3SH		600	800	300	1	6438100123635

NGRP404020P3SH

Ensto Cubo N wall cabinets with plain sides and polycarbonate window, polyester

PRODUCT CODE	DESCRIPTION	EXTERNAL DIMENSIONS (MM)			PACKAGE SIZE (PCS)	EAN 13 CODE
		WIDTH	HEIGHT	DEPTH		
NGRW253014	PC window: 115 x 220 mm	250	300	140	1	6438100123642
NGRW304020	PC window: 141 x 281 mm	300	400	200	1	6438100123659
NGRW404020	PC window: 221 x 281 mm	400	400	200	1	6438100123666
NGRW405020	PC window: 221 x 381 mm	400	500	200	1	6438100123673
NGRW406023	PC window: 221 x 481 mm	400	600	230	1	6438100123680
NGRW506023	PC window: 321 x 481 mm	500	600	230	1	6438100123697
NGRW608030	PC window: 421 x 681 mm	600	800	300	1	6438100123703

NGRW304020

Mounting plates

PRODUCT CODE	DESCRIPTION	DIMENSIONS (MM)	PACKAGE SIZE (PCS)	EAN 13 CODE
Mounting plates, GRP				
NGRMP2530		213 x 268 x 4	1	6438100123833
NGRMP3040		260 x 358 x 4	1	6438100123840
NGRMP4040		360 x 358 x 4	1	6438100123857
NGRMP4050		360 x 458 x 4	1	6438100123864
NGRMP4060		360 x 558 x 4	1	6438100123871
NGRMP5060		460 x 558 x 4	1	6438100123888
NGRMP6080		556 x 754 x 4	1	6438100123895
Mounting plates, galvanized steel				
NMP2530		207 x 268 x 2	1	6438100123970
NMP3040		254 x 358 x 2	1	6438100123987
NMP4040		354 x 358 x 2	1	6438100123994
NMP4050		354 x 458 x 2	1	6438100124007
NMP4060		354 x 558 x 2	1	6438100124014
NMP5060		454 x 558 x 2	1	6438100124021
NMP6080		558 x 754 x 2	1	6438100124038

NGRMP3040

NMP5060

Ensto Cubo N wall cabinets

Other accessories

PRODUCT CODE	DESCRIPTION	DIMENSIONS (MM)	PACKAGE SIZE (PCS)	EAN 13 CODE
Chassis for modular devices, IP20				
NMC3040.24	For 300 x 400 mm wall cabinets, 2 DIN openings for 12 modules	-	1	6438100124366
NMC4040.36	For 400 x 400 mm wall cabinets, 2 DIN openings for 18 modules	-	1	6438100124373
NMC4050.54	For 400 x 500 mm wall cabinets, 3 DIN openings for 18 modules	-	1	6438100124380
NMC4060.54	For 400 x 600 mm wall cabinets, 3 DIN openings for 18 modules	-	1	6438100124397
NMC5060.69	For 500 x 600 mm wall cabinets, 3 DIN openings for 23 modules	-	1	6438100124403
NMC6080.116	For 600 x 800 mm wall cabinets, 4 DIN openings for 29 modules	-		6438100124410
Internal door kit, GRP				
NID3040	For 300 x 400 mm wall cabinets	258 x 366	1	6438100124304
NID4040	For 400 x 400 mm wall cabinets	358 x 366	1	6438100124311
NID4050	For 400 x 500 mm wall cabinets	358 x 466	1	6438100124328
NID4060	For 400 x 600 mm wall cabinets	358 x 566	1	6438100124335
NID5060	For 500 x 600 mm wall cabinets	458 x 566	1	6438100124342
NID6080	For 600 x 800 mm wall cabinets	558 x 766	1	6438100124359
Wall mounting lugs				
NFL1	Set of 4 pcs, plastic	-	1	6438100124670
Locks				
NKL1	Key lock with a wrench	-	1	6438100124816
NPD3041	Padlocking accessory, AISI 304	-	1	6438100124854

Chassis for modular devices, NMC4060.54. The kit includes a metal frame with DIN rails and module cover plates.

Internal door kit, NID4060.

Wall mounting lugs, NFL1.

Key lock with a wrench, NKL1.

Padlocking accessory, NPD3041.

Technical drawings, Ensto Cubo N

Dimension in mm

Ensto Cubo N 250 x 300 x 140 mm

PRODUCT CODE	DESCRIPTION
NGRP253014	Plain sides, GRP
NGRP253014P3SH	Plain sides, 3-point closing with swing hangle, GRP
NGRW253014	Plain sides, PC window: 115 x 220 mm, GRP

Ensto Cubo N 300 x 400 x 200 mm

PRODUCT CODE	DESCRIPTION
NGRP304020	Plain sides, GRP
NGRP304020P3SH	Plain sides, 3-point closing with swing hangle, GRP
NGRW304020	Plain sides, PC window: 141 x 281 mm, GRP

Dimensions in mm

Ensto Cubo N 400 x 400 x 200 mm

PRODUCT CODE	DESCRIPTION
NGRP404020	Plain sides, GRP
NGRP404020P3SH	Plain sides, 3-point closing with swing hangle, GRP
NGRW404020	Plain sides, PC window: 221 x 281 mm, GRP

Ensto Cubo N 400 x 500 x 200 mm

PRODUCT CODE	DESCRIPTION
NGRP405020	Plain sides, GRP
NGRP405020P3SH	Plain sides, 3-point closing with swing hangle, GRP
NGRW405020	Plain sides, PC window: 221 x 381 mm, GRP

Ensto Cubo N 400 x 600 x 230 mm

PRODUCT CODE	DESCRIPTION
NGRP406023	Plain sides, GRP
NGRP406023P3SH	Plain sides, 3-point closing with swing hangle, GRP
NGRW406023	Plain sides, PC window: 221 x 481 mm, GRP

Ensto Cubo N 500 x 600 x 230 mm

PRODUCT CODE	DESCRIPTION
NGRP506023	Plain sides, GRP
NGRP506023P3SH	Plain sides, 3-point closing with swing hangle, GRP
NGRW506023	Plain sides, PC window: 321 x 481 mm, GRP

Ensto Cubo N 600 x 800 x 300 mm

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PRODUCT CODE	DESCRIPTION
NGRP608030	Plain sides, GRP
NGRP608030P3SH	Plain sides, 3-point closing with swing hangle, GRP
NGRW608030	Plain sides, PC window: 421 x 681 mm, GRP

Ensto Industrial Solutions
at your service

We are known in the industry for designing and manufacturing standard and customer-specific enclosing solutions and electromechanical products for demanding industrial environments.

We are professionals in providing customer-specific enclosing solutions targeted at demanding environments. We are a reliable partner with an experienced design department. We keep to schedule and offer excellent customer care. We also have sound knowledge of a wide range of materials.

Our service offering
Our service offering includes the customization of standard enclosures as well as the creation of tailor-made new enclosing solutions based on the customers' product projects. We also offer assembly services as well as the sourcing of third party components.

We are experts in product design and development and offer totally tailor-made solutions, including smooth technical documentation, 3D modelling and quick prototyping.

Solutions for high demands
Our solutions typically have a high degree of protection (IP66/67). We have also developed solutions meeting IP69K. We work closely with standardizing and testing bodies, when certifying products according to customer needs.

Standard products
Our standard product range includes thermoplastic, polyester, sheet steel and aluminium enclosures and the related accessories. These are supported by a broad selection of terminals and load break switches used by global manufacturers.

Why Ensto
- Highly experienced design department
- Innovative personnel with technical expertise
- Specialists in injection molded customer-specific solutions
- Cost-efficient mold modifications
- Modern production facilities
- Assembly service
- Sourcing of third party components
- Reliable and flexible deliveries with special packaging possibilities

Customer-spesific enclosing solutions

Customized enclosing solutions	Tailor-made enclosing solutions	Integration services
• Machining such as cutting, drilling and threading according to customer's drawings	• Feasibility studies	• Mechanical assembly
• Silk screen printing	• 3D modelling, prototyping & technical documentation	• Electromechanical assembly
• Color service	• Mold sourcing & maintenance	• Hardware and software integrations
• Mechanical assembly	• Manufacturing of customer-specific special tools	• Testing including e.g. environmental and functionality testing
• Customer-specific sizes	• Sub-assembly testing and certification	• Sourcing of third party components
• Offering an online tool for fast configuration and a short lead-time	• Quality documentation and coordination audits	• Logistics & quality assurance
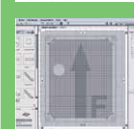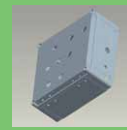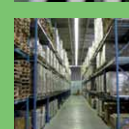
Legal notice

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