

ELETTO
NITTO KOGYO GROUP

Enclosure & Thermal Management



ELETTO (THAILAND) CO., LTD.
NITO NITTO KOGYO GROUP



Steel Enclosure with Dustproof Packing

Employment Of Catch For Smoother Door Opening/Closing!

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Made in Japan

Specification Dustproof Indoor Enclosure
 Paint Color Light Beige (Munsell : 5Y7/1)
 Handle Snap latch Made of stainless steel

PRODUCT MODEL	DIMENSION(mm)		
	WIDTH	HEIGHT	DEPTH
CH12-152	150	200	120
CH12-22	200	200	120
CH12-225	200	250	120
CH12-252	250	200	120
CH12-253	250	300	120
CH12-32	300	200	120
CH12-325	300	250	120
CH12-33	300	300	120
CH12-34	300	400	120
CH12-43	400	300	120
CH16-152	150	200	160
CH16-22	200	200	160
CH16-225	200	250	160
CH16-252	250	200	160
CH16-2525	250	250	160
CH16-253	250	300	160
CH16-32	300	200	160
CH16-325	300	250	160
CH16-33	300	300	160
CH16-34	300	400	160
CH16-3525	350	250	160

Mounting plate Steel mounting plate(1.6mm)
 Application / IP grade Indoor IP4X
 Thickness Steel Door: 1.6mm / body: 1.2mm

PRODUCT MODEL	DIMENSION(mm)		
	WIDTH	HEIGHT	DEPTH
CH16-43	400	300	160
CH16-44	400	400	160
CH16-45	400	500	160
CH16-53	500	300	160
CH16-54	500	400	160
CH16-55	500	500	160
CH20-33	300	300	200
CH20-34	300	400	200
CH20-43	400	300	200
CH20-44	400	400	200
CH20-45	400	500	200
CH20-54	500	400	200
CH20-55	500	500	200
CH20-66	600	600	200
CH25-34	300	400	250
CH25-44	400	400	250
CH25-45	400	500	250
CH25-54	500	400	250
CH25-65	600	500	250
CH25-66	600	600	250



Plastic Enclosure

Simple Design and Color Fit to Various Mounting Positions

NITO NITTO KOGYO GROUP

Made in Japan

Specification Dustproof /Waterproof Indoor&Outdoor Enclosure
 Paint Color Beige (Munsell : 5Y7.5/1.5)
 Mounting plate Wood hardboard(15mm)

PRODUCT MODEL	DIMENSION(mm)		
	WIDTH	HEIGHT	DEPTH
P12-1525B	150	250	120
P14-23B	200	300	140
P14-33B	300	300	140
P16-235B	200	350	160

Door type Single swing door
 Application / IP grade IP33D
 Thickness Body : 2.0mm - 4.0mm

PRODUCT MODEL	DIMENSION(mm)		
	WIDTH	HEIGHT	DEPTH
P16-254B	250	400	160
P18-43B	400	300	180
P18-54B	500	400	180
P20-45B	400	500	200



Steel Enclosure

Enclosure for Relay Purpose or Terminal Board Mounting with Clear and Neat Design

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Specification Dustproof Indoor Enclosure
 Paint color Light Beige : 5Y7/1
 Door cover screws

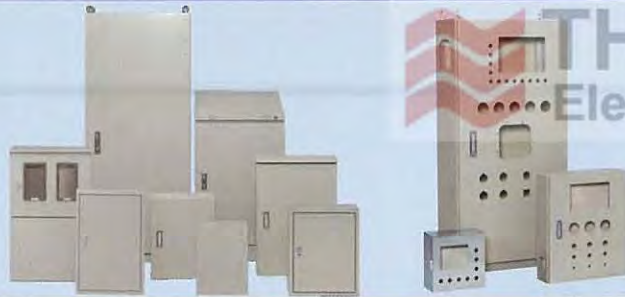
Mounting plate Application / IP grade
 Thickness

Steel mounting plate(1.6mm)
 Indoor IP3X
 Steel Door: 1.2mm / body: 1.2mm

PRODUCT MODEL	DIMENSION(mm)		
	WIDTH	HEIGHT	DEPTH
TE8-11	100	100	80
TE8-12	100	200	80
TE8-13	100	300	80
TE8-14	100	400	80
TE8-22	200	200	80
TE8-23	200	300	80
TE8-24	200	400	80
TE8-33	300	300	80

PRODUCT MODEL	DIMENSION(mm)		
	WIDTH	HEIGHT	DEPTH
TE12-11	100	100	120
TE12-12	100	200	120
TE12-13	100	300	120
TE12-14	100	400	120
TE12-22	200	200	120
TE12-23	200	300	120
TE12-24	200	400	120
TE12-33	300	300	120

MAKE TO ORDER CABINET



- Make to order cabinet.
- Re painting and punching service.
- Manufacture high quality product by focus on customer needs.



BP14-T Enclosure with terminal board

Reinforced PBT and nylon provide excellent resistances against environmental conditions and assault of oil.

Paint color Light Beige : 5Y7/1 Application / IP grade IP65 (IP67 for BP14-T401)
 Material Body : Nylon / Cover : Reinforced PBT



BP14-T4C BP14-T401 BP14-T1001

Product number	Outside dimensions mm			Intake port	Wire fit to connector	Terminal board specification				
	W	H	D			Rated insulation voltage	Rated current	Compatible wire mm	Terminal screw	Number of poles
BP 14-T4C	80	23.5	40	Φ1.27mm(0.051") Connector	φ 3.5 - φ 7.3	AC,DC 250	15	1.25	M3X8	4
BP 14-T6C	90	"	50	"	"					6
BP 14-T401	81	40.5	"	CTG16 (2pieces)	-----	AC,DC 600	20	2	M3.5X8	4
BP 14-T801	105	53	90	CTG22 (2pieces)	-----					8
BP 14-T1001	120	44.5	"	-----	-----	15	10			

PANEL DRYER

Peltier effect is defended against trouble by humidity in the enclosed cabinet equipment by a used electronic dehumidifier "Panel dryer"



PD-1C Image of dehumidifying process

- Feature**
- It is an energy saving type using Peltier element. It can be contributed to the global warming.
 - It will be dehumidified more effectively while installed in an enclosed cabinet.
 - It is compact and lightweight. So it can be save the space for install.
 - The built-in Peltier element can be used for a long time and maintenance free type.

Note It is only for the enclosed cabinets.

Specifications

Product No.	Dimensions(mm)(Note1)			Drying capacity (ml/h)(Note2)	Covered volume (m³)(Note3)	Weight [kg]	Rated voltage[V] (Single phase)	Rated power consumption[W]	Operational mode(Note6)
	W	H	D						
PD-02	63	194 (224)	54	1.5	0.2	0.8	AC100 (50/60Hz)	12/12	A
PD-08C				3.2	0.8			12/12(Note4) 14/14(Note5)	B
PD-1	75 (97.5)	224	45 (55)	5	1	1		10.5/10.5	C
PD-1C								249	1.2
PD-2CA	94	365 (399)	90	10	2	3.6		18/19(Note4) 24.5/24(Note5)	B

It is possible for custom-designed of 220V except PD-1G.

Thermal Management



Simplified installation for board ventilation

Efficient ventilation of board by natural draft. Equipped with stainless steel insect net.

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LP Round Louver



Application/IP Indoor IP4X
 Paint Color Light Beige : 5Y7/1
 Material AES resin
 Filter Filter is made of modacrylic/polyester, Dust prevention rate 70%

PRODUCT MODEL	DIMENSION(mm)		
	ØFRONT	ØINSTALLATION	DEPTH
LP-0F	Ø75	Ø63.6	20
LP-1F	Ø90	Ø75.6	20
LP-2F	Ø105	Ø88.8	22.5

SLP Square Louver



Application/IP Indoor IP4X
 Paint Color Light Beige : 5Y7/1
 Material AES resin
 Filter Filter is made of modacrylic/polyester, Dust prevention rate 50%

PRODUCT MODEL	DIMENSION(mm)		
	WIDTH	HEIGHT	DEPTH
SLP-0	100	100	15
SLP-1	120	120	24
SLP-21C	240	120	48

FILTER Cassette(Natural Ventilation for control board)



Application/IP Indoor IP4X
 Paint Color Light Beige : 5Y7/1
 Material Steel
 Filter Regenerative filter (Reused by cleaning filter) Dust prevention rate 80%

PRODUCT MODEL	DIMENSION(mm)		
	WIDTH	HEIGHT	DEPTH
RD43-51AB	155	155	11
RD43-52AB	250	155	11
RD43-81AB	180	180	11
RD43-82AB	305	180	11

Fan and Filter Unit



Application/IP Indoor IP4X
 Paint Color Light Beige : 5Y7/1
 Temperature -10°+70°C
 Filter Filter is 12mm thickness with Dust prevention rate 80%

PRODUCT MODEL	DIMENSION(mm)			Rate Voltage
	WIDTH	HEIGHT	DEPTH	
RD44-521NB	155	155	56	AC200V
RD44-522NB	250	155	56	AC200V
RD44-821AB	180	180	67	AC200V
RD44-822AB	305	180	67	AC200V

Ventilation FAN : Prevent motor fire burnt by IMPEDANCE PROTECTION



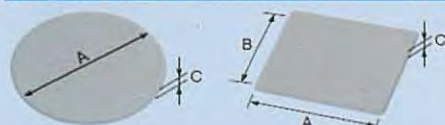
■ METAL FAN SERIES Frame: Aluminum Die Cast Fins: Steel Rated frequency: 50Hz

Part Code	Rated Voltage V(monophas)	Dimension mm			Max Output m³/min	Max Static Pressure Pa(mmHg)	Rated Current (A)	Power Supply W	Usage Temp. °C	Noise dB (A)	Input Terminals
		Width	Height	Depth							
RD45-122T	AC220	120	120	38	2.3	64(6.5)	0.11	16	-10 to+70	Approx. 40	2 terminals

■ PLASTIC FAN SERIES Frame: Aluminum Die Cast Fins: Plastic Rated frequency: 50Hz

Part Code	Rated Voltage V(monophas)	Dimension mm			Max Output m³/min	Max Static Pressure Pa(mmHg)	Rated Current (A)	Power Supply W	Usage Temp. °C	Noise dB (A)	Input Terminals
		Width	Height	Depth							
PF-120-2T	AC220	120	120	38	2.7	81(8.3)	0.10	13.5	-10 to +60	Approx. 43	3 terminals (incl. ground)

Spare Filter : Made of modacrylic/polyester,dust prevention rate-50-70-80% up to model.



Product Model		
LP-F1	SLP-F0	RD44-81
LP-F2	SLP-F1	RD44-82



Steel Enclosure Waterproof/Dustproof Structure

Corner Handle Type Highly Airtight Enclosure

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Specification Dustproof /Waterproof Indoor Enclosure
 Paint Color Light Beige (Munsell : 5Y7/1)
 Handle IP 65 handle, corner type

Mounting plate Steel mounting plate(1.6mm)
 Application/IP grade Indoor IP65
 Thickness Steel Door: 1.6mm / body: 1.6mm

PRODUCT MODEL	DIMENSION(mm)		
	WIDTH	HEIGHT	DEPTH
CL12-152	150	200	120
CL12-22	200	200	120
CL12-32	300	200	120
CL12-33	300	300	120
CL16-23	200	300	160
CL16-32	300	200	160
CL16-33	300	300	160
CL16-34	300	400	160
CL16-43	400	300	160
CL16-44	400	400	160

PRODUCT MODEL	DIMENSION(mm)		
	WIDTH	HEIGHT	DEPTH
CL16-53	500	300	160
CL16-54	500	400	160
CL20-22	200	200	200
CL20-33	300	300	200
CL20-34	300	400	200
CL20-43	400	300	200
CL20-44	400	400	200
CL20-45	400	500	200
CL20-55	500	500	200
CL25-43	400	300	250



Steel Enclosure with Waterproof and Dustproof

Enclosure with Cutwater and Waterproof/Dustproof Packing

NITTO NITTO KOBAYO GROUP

Made in Japan

Specification Dustproof /Waterproof Indoor&Outdoor Enclosure
 Paint color Light Beige (Munsell : 5Y7/1)
 Handle Zinc alloy flat waterproof handle (Key no. N200)

Mounting plate Steel mounting plate(2.3mm)
 Application/IP grade Indoor /Outdoor IP54
 Thickness Steel Door: 1.6mm / body: 1.6mm

PRODUCT MODEL	DIMENSION(mm)		
	WIDTH	HEIGHT	DEPTH
RA12-33	300	300	120
RA12-34	300	400	120
RA12-43	400	300	120
RA16-33	300	300	160
RA16-34	300	400	160
RA16-35	300	500	160
RA16-43	400	300	160
RA16-44	400	400	160
RA16-45	400	500	160
RA20-33	300	300	200
RA20-34	300	400	200
RA20-44	400	400	200
RA20-45	400	500	200
RA20-46	400	600	200
RA20-54	500	400	200
RA20-55	500	500	200

PRODUCT MODEL	DIMENSION(mm)		
	WIDTH	HEIGHT	DEPTH
RA20-56	500	600	200
RA20-57	500	700	200
RA20-65	600	500	200
RA20-66	600	600	200
RA20-68	600	800	200
RA25-45	400	500	250
RA25-55	500	500	250
RA25-58	500	800	250
RA25-65	600	500	250
RA25-66	600	600	250
RA25-68	600	800	250
RA25-75-1	700	500	250
RA25-78-1	700	800	250
RA30-710-1	700	1000	300
RA30-712-1	700	1200	300
RA30-714-1	700	1400	300

NITTO KOGYO GROUP

Network



บริษัท นิตโตโคเกียว (เจียงซิง) จำกัด
Nitto Kogyo(Jiangxing)Corporation

บริษัท นิตโตโคเกียว (เจียงซิง) จำกัด
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โรงงานนาโกย่า
Nagoya Plant



สำนักงานใหญ่ ศูนย์วิจัยและพัฒนา
Headquarters: Research and Development Center



สำนักงานใหญ่ โรงงานนาโกย่า
Headquarters: Nagoya Plant

ELETTO(THAILAND)CO.,LTD.
Amphur U-Thai, Ayutthaya, Thailand



ELETTO(THAILAND)CO.,LTD.

ภาพเมื่อเสร็จสมบูรณ์
A rendering

ได้รับใบรับรองISO9001ทางด้านระบบจัดการคุณภาพเรียบร้อยแล้ว Facilities earned ISO9001 Certification for the quality management system.

บริษัทเราซึ่งให้ความสำคัญกับคุณภาพของผลิตภัณฑ์ที่ผลิตเป็นอันดับหนึ่งได้รับใบรับรอง ISO9001 ทางด้านระบบจัดการคุณภาพ

Under the slogan of "Quality First", all Nitto Kogyo facilities earned ISO9001 Certification for the quality management system.



นโยบายด้านคุณภาพ / Quality Policy

นำเสนอสินค้าและบริการที่มีคุณภาพสูง ปลอดภัยและได้รับความไว้วางใจจากลูกค้า
Presentation of safe, reliable and higher quality products and services to customers



เครื่องมืออุปกรณ์ทดสอบและวิจัย / Test Research facilities



สำนักงานใหญ่ ศูนย์วิจัยและพัฒนา
Headquarters Research and Development Center



ห้องปฏิบัติการคิกุกาวา
Kikugawa Laboratory



เครื่องมือทดสอบการลัดวงจร
Short-circuit test system



ทดสอบการป้องกันฝุ่น
/Dust Proof Test



ทดสอบการป้องกันน้ำ
/Waterproof Test



ทดสอบความทนทานต่อการสั่นสะเทือน
/Vibration Resistance Test



ทดสอบด้วยหมอกเกลือ
/Salt Water Spray Test

การทดสอบอื่น ๆ /Other Test

ทดสอบซินอน ทดสอบการทนต่ออุณหภูมิร้อนเย็น ทดสอบความทนทานต่อคืนที่อากาศ ทดสอบการสะท้อนของแสง UV ภายในอาคาร ทดสอบความแข็งแรงทางกลศาสตร์ ทดสอบการทนไฟ ทดสอบแรงกระแทก ทดสอบการสั่นสะเทือน ทดสอบ EMC และเสียงรบกวน Xenon Test, Temperature Test, Accelerated Weathering Test, Indoor Sunlight Exposure Test, Mechanical Strength Test, Frame Resistance Test, Impact Test, Vibration Test, EMC and Noise Tests



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