



Universal NI - 316 Stainless Steel General Purpose Enclosure - IP66

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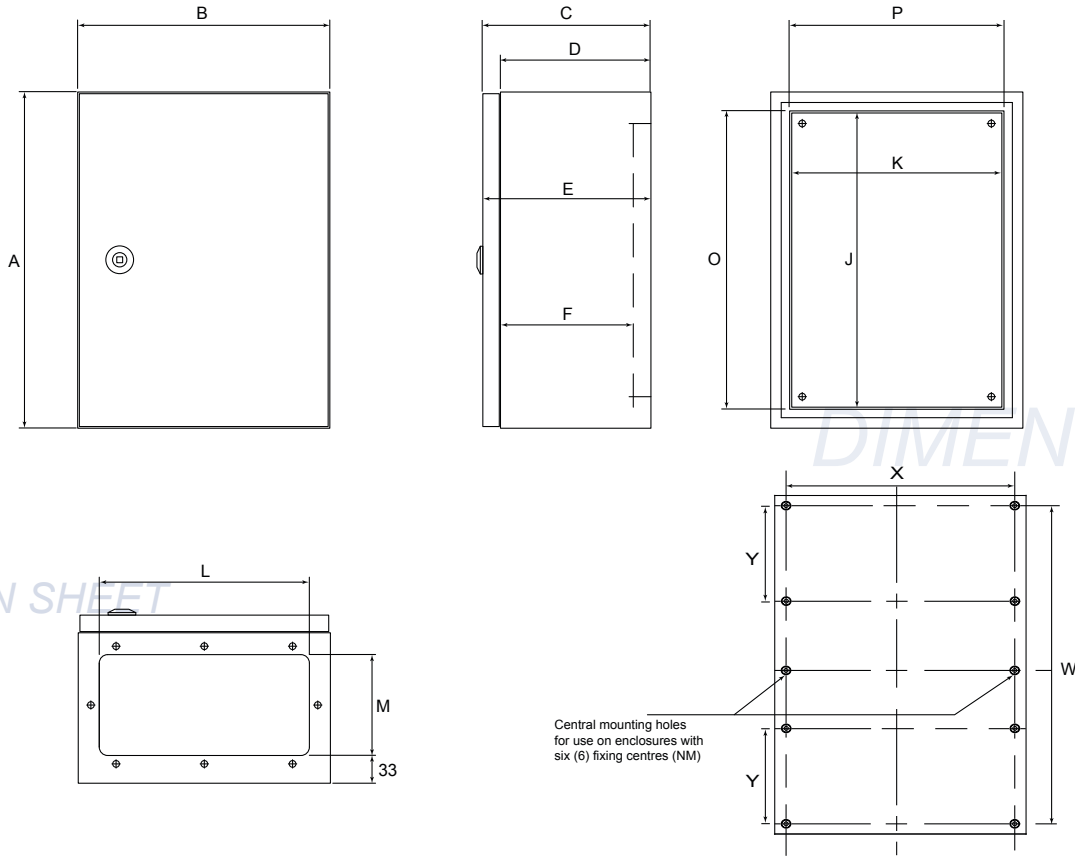
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UNIVERSAL NI



Stainless Steel Enclosures

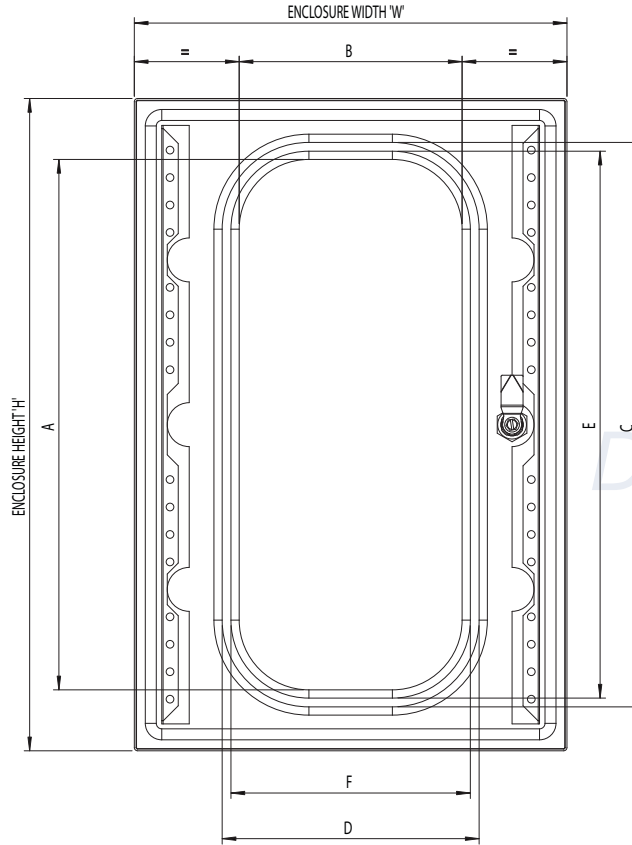
Catalogue Number	External Dimensions				Internal Depth		Mounting Pan		Opening Size		Gland Plate		Fixing Centres*				No of Locks	
	A	B	C	D	E	F	J	K	O	P	L	M	W	X	Y	NM	NL	
NI03021/S	300	200	150	129	145	108	250	150	255	155	—	—	225	125	—	4	1	
NI03031/S	300	300	150	129	145	108	250	250	255	255	—	—	225	225	—	4	1	
NI03041/S	300	400	150	129	145	108	250	350	255	355	—	—	225	325	—	4	1	
NI04031/S	400	300	150	129	145	108	350	250	355	255	—	—	325	225	—	4	1	
NI03042/S	300	400	200	179	195	158	250	350	255	355	—	—	225	325	—	4	1	
NI04032/S	400	300	200	179	195	158	350	250	355	255	—	—	325	225	—	4	1	
NI04042/S	400	400	200	179	195	158	350	350	355	355	—	—	325	325	—	4	1	
NI05052/S	500	500	200	179	195	158	450	450	455	455	—	—	425	425	—	4	1	
NI06042/S	600	400	200	179	195	158	550	350	555	355	—	—	525	325	—	4	1	
NI06062/S	600	600	200	179	195	158	550	550	555	555	—	—	525	525	—	4	1	
NI08062/S	800	600	200	179	195	158	750	550	755	555	—	—	725	525	—	6	2	
NI10082/S	1000	800	200	179	195	158	950	750	955	755	—	—	925	725	—	6	2	
NI06043/S	600	400	300	279	295	258	550	350	555	355	—	—	525	325	—	4	1	
NI06063/S	600	600	300	279	295	258	550	550	555	555	—	—	525	525	—	4	1	
NI08063/S	800	600	300	279	295	258	750	550	755	555	—	—	725	525	—	6	2	
NI08083/S	800	800	300	279	295	258	750	750	755	755	—	—	725	725	—	6	2	
NI10063/S	1000	600	300	279	295	258	950	550	955	555	—	—	925	525	—	6	2	
NI10083/S	1000	800	300	279	295	258	950	750	955	755	—	—	925	725	—	6	2	
NI12083/S	1200	800	300	279	295	258	1150	750	1155	755	—	—	1125	725	337.5	6	2	

* M8 Bolt



DIMENSION SHEET

UNIVERSAL NI – VIEWING WINDOW



Door Inside View

Catalogue Number	Enclosure Size		Viewing Area		Cutout Size		Window Size	
	Height	Width	A	B	C	D	E	F
NI0303	300	300	186	106	214	134	198	118
NI0304	300	400	186	206	214	234	198	218
NI0403 NI0403/S	400	300	286	106	314	134	298	118
NI0404 NI0404/S	400	400	286	206	314	234	298	218
NI0406 NI0406/S	400	600	286	406	314	434	298	418
NI0504	500	400	386	206	414	234	398	218
NI0505	500	500	386	306	414	334	398	318
NI0604 NI0604/S	600	400	486	206	514	234	498	218
NI0606 NI0606/S	600	600	486	406	514	434	498	418
NI0806 NI0806/S	800	600	686	406	714	434	698	418
NI0808 NI0808/S	800	800	606	606	634	634	698	618
NI1006 NI1006/S	1000	600	886	406	914	434	898	418
NI1008 NI1008/S	1000	800	806	606	834	634	818	618
NI1208 NI1208/S	1200	800	1006	606	1034	634	1018	618



Universal NI - 316 Stainless Steel

General Purpose Enclosures - IP66

brenclosures.com.au/niss.htm



Universal NI Features

- Threaded sockets on the rear of the enclosure to allow mounting feet attachment without compromising IP rating
- 120° door opening for ease of access to internal systems
- Wall mounting
- Approvals
 - CE marked
 - Lloyds
- Materials
 - Body – 316 stainless steel
 - Body Thickness – 1.2/1.5 mm
 - Gasket – Polyurethane
- Surface finish – N4
- Protection rating – IP66

The Universal NI is an IP66 general purpose enclosure, built for harsh and aggressive environments.

Ease of access is assured by the reversible door, which opens to a full 120 degrees.

Inclusions

Steel mounting pan, 7mm square turnbuckle lock (NI020/PS), door rails, earth strap kit.

Universal NI Selection Guide

Catalogue No	Dimensions (mm)				Mounting Pan (mm)				No of locks	Weight (kg)
	Height	Width	Depth	Usable Depth*	Height	Width	Thk. (mm)	Fixing points**		
NI03021/S	300	200	150	125	250	150	1.2	4	1	3.9
NI03031/S	300	300	150	125	250	250	1.2	4	1	5.3
NI04031/S	400	300	150	125	350	250	1.2	4	1	6.8
NI03041/S	300	400	150	125	250	350	1.2	4	1	6.7
NI04032/S	400	300	200	175	350	250	1.5	4	1	9.0
NI03042/S	300	400	200	175	250	350	1.5	4	1	8.9
NI04042/S	400	400	200	175	350	350	1.5	4	1	11.2
NI06042/S	600	400	200	175	550	350	1.5	4	1	15.9
NI05052/S	500	500	200	175	450	450	1.5	4	1	16.2
NI06062/S	600	600	200	175	550	550	1.5	4	1	22.1
NI08062/S	800	600	200	175	750	550	1.5	6	2	28.5
NI10082/S	1000	800	200	175	950	750	1.5	6	2	44.6
NI06043/S	600	400	300	275	550	350	1.5	4	1	18.5
NI06063/S	600	600	300	275	550	550	1.5	4	1	25.2
NI08063/S	800	600	300	275	750	550	1.5	6	2	32.2
NI10063/S	1000	600	300	275	950	550	1.5	6	2	39.2
NI08083/S	800	800	300	275	750	750	1.5	6	2	40.6
NI10083/S	1000	800	300	275	950	750	1.5	6	2	49.4
NI12083/S	1200	800	300	275	1150	750	1.5	8	2	58.1

* Mounting pan to underside of door

** Suits M8 fixing

Universal NI Accessories

Product	Description	Catalogue No	NI03021/S	NI03031/S	NI04031/S	NI04032/S	NI04042/S	NI05052/S	NI06042/S	NI06043/S	NI06062/S	NI06063/S	NI08062/S	NI08063/S	NI08083/S	NI10063/S	NI10082/S	NI10083/S	NI12083/S
Rainhood	30mm high	NIRH021/S	•																
	30mm high	NIRH031/S		•	•														
	30mm high	NIRH032/S				•													
	30mm high	NIRH042/S					•		•										
	30mm high	NIRH043/S								•									
	30mm high	NIRH062/S									•		•						
	30mm high	NIRH063/S										•		•		•			
	30mm high	NIRH083/S													•			•	•
Vent kit - external	130x130 mm	IPVK/S	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Wall mounting brackets (pack of 4)	316 stainless steel	MEB/S	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Mounting flange kit - 316 stainless steel	75x200 mm	MF2/S	•																
	75x300 mm	MF3/S		•	•	•													
	75x400 mm	MF4/S					•		•	•									
	75x600 mm	MF6/S									•	•	•	•		•			
	75x800 mm	MF8/S													•		•	•	•

Universal NI Locks

Product	Description	Catalogue No	Standard Lock/Insert	Alternative insert	Keys		
					Lockable handles	Plastic, 3-way	Aluminium, 3-way
Turnbuckle	powdercoated	NI020/PS*	7 mm square - stainless steel*	See below		SKU	SKZ
	stainless steel	NI020/S	7 mm square - stainless steel	See below		SKU	SKZ
Wing knob	lockable	NI030	Key code 92268	–	SK3		
	non-lockable	NI111	–	–			
T handle	lockable	NI040	Key code 92268	–	SK3		
L handle	lockable	NI050	Key code 92268	–	SK3		
	padlockable	NI052	–	–			

Locks Inserts for NI020 Locks

To suit lock style	Description	To suit turn-buckle lock	Standard Insert	3mm double bit pin	8mm square	8mm triangle
				Stainless Steel	Stainless Steel	Stainless Steel
Turnbuckle	powdercoated with SS insert	NI020/PS*	7 mm square - stainless steel*	LKINS3P/S	LKINS8S/S	LKINS8T/S
	stainless steel	NI020/S	7 mm square - stainless steel	LKINS3P/S	LKINS8S/S	LKINS8T/S
Key required - aluminium			SKZ	SKZ	SK8	SKZ
Key required - plastic			SKU	SKU	–	SKU

*Standard

Universal NI

General Purpose Enclosures - IP66



The Universal NI is an IP66 general purpose enclosure, built for harsh and aggressive environments. Ease of access is assured by the reversible door, which opens to a full 120 degrees. The Universal NI range includes a mounting pan, door rails, earth strap kit and innovative external mounting bracket fittings, which ensure that the IP66 rating is maintained when fitted. Typical installations include industrial automation and process control applications.

Size Range Summary

Model	NI03021/S	NI03031/S	NI04031/S	NI03041/S	NI04032/S	NI03042/S	NI04042/S
Height	300	300	400	300	400	300	400
Width	200	300	300	400	300	400	400
Depth	150	150	150	150	200	200	200

Model	NI06042/S	NI05052/S	NI06062/S	NI08062/S	NI10082/S	NI06063/S	NI08063/S
Height	600	500	600	800	1000	600	800
Width	400	500	600	600	800	600	600
Depth	200	200	200	200	200	300	300

Model	NI10063/S	NI08083/S	NI10083/S	NI12083/S
Height	1000	800	1000	1200
Width	600	800	800	800
Depth	300	300	300	300

Inclusions

White mounting pan, earth strap kit, 7mm square turnbuckle lock (NI020/S), door rails.

Accessories Summary

Vent kit, climate control, rainhoods, mounting brackets, viewing windows, climate control equipment and various lock options.

Universal NI Features

- Protection rating of IP66 certified by NATA to ensure protection against dust and water in demanding conditions
- 316 stainless steel, corrosion resistant construction with an N4 surface finish for durability and to minimise 'tea staining' in a harsh Australian climate
- Fully welded construction manufactured with reinforced doors for extra durability when mounting equipment
- 120° door opening for ease of access to internal systems
- Specially designed gutter system that helps extend the life of the gasket whilst preventing water from entering the enclosure
- Polyurethane gasket foamed in place to ensure sealing, protecting internal equipment
- Earthing strap supplied with each enclosure for safety
- Robust turnbuckle locking system supplied as standard for security
- Optional viewing window for monitoring equipment operation

Approvals

CE marked
Lloyds

Materials

Body - 316 stainless steel
Body Thickness - 1.5mm
Gasket - Polyurethane

Surface Finish - N4

Protection Rating - IP66

Guides

Material selection - page 290

Also of interest

Smaller sizes - page 90
Larger sizes - page 106
More accessories - page 106

Drawing

Page 270

Universal NI Enclosures & Dimensions

Model	Dimensions (mm)			Mounting Pan (mm)		Usable Depth (mm)	Material Thk (mm)	Weight (kg)
	Height	Width	Depth	Height	Width			
NI03021/S	300	200	150	250	150	125	1.2	3.9
NI03031/S	300	300	150	250	250	125	1.2	5.3
NI04031/S	400	300	150	350	250	125	1.2	6.8
NI03041/S	300	400	150	250	350	125	1.2	6.7
NI04032/S	400	300	200	350	250	175	1.5	9.0
NI03042/S	300	400	200	250	350	175	1.5	
NI04042/S	400	400	200	350	350	175	1.5	11.2
NI06042/S	600	400	200	550	350	175	1.5	15.9
NI05052/S	500	500	200	450	450	175	1.5	16.2
NI06062/S	600	600	200	550	550	175	1.5	22.1
NI08062/S	800	600	200	750	550	175	1.5	28.5
NI10082/S	1000	800	200	950	750	175	1.5	44.6
NI06063/S	600	600	300	550	550	275	1.5	25.2
NI08063/S	800	600	300	750	550	275	1.5	32.2
NI10063/S	1000	600	300	950	550	275	1.5	39.2
NI08083/S	800	800	300	750	750	275	1.5	40.6
NI10083/S	1000	800	300	950	750	275	1.5	49.4
NI12083/S	1200	800	300	1150	750	275	1.5	58.1

Universal NI Accessories

Vent Kit

Vent Kits are supplied as a three component package including a gasket, Meracil filter and external metalwork. Note that the IP rating of the enclosure is not maintained when a vent kit is fitted.

The Vent Kit is designed for a cutout of 80 x 80 mm, has external dimensions of 130x130mm, and metal parts manufactured from 316 stainless steel.

Catalogue No	Description
IPVK/S	Stainless Steel Vent Kit 130 x 130 mm to suit cutout 80x80mm



Climate Control

B&R supply a wide variety of climate control equipment to suit almost any application. For full details please see the climate control section of this catalogue starting on page 188. The below shows typical selections only.

Catalogue Number	Description	Dimensions (mm)			Power (W)
		Height	Width	Depth	
TX-FAN23BN0A	Fan – External, Output 110 m ³ /h	250	250	111	20
TX-FAN25BN0A	Fan – External, Output 230 m ³ /h	250	250	119	56
TX-FAN35BN0A	Fan – External, Output 550 m ³ /h	325	325	151	90
TX-FIL25XN0A	Filter – Suits 110 or 230m ³ /h output fan	250	250	30	—
TX-FIL35XN0A	Filter – Suits 550 m ³ /h output fan	325	325	30	—
TX-EGO10BM1A	Air Conditioner – Side mounted, 1050W cooling capacity	783	348	213	570
TX-MIX36BX0A	Heat Exchanger (air-air) – Side mounted 36W/K cooling	771	316	93	140



Universal NI Accessories (continued)

Rainhoods

Rainhoods are designed to prevent buildup of water on the flat surface on the top of enclosure. They have a slight slope towards the front, and protrude over the door of the enclosure. Fitting does not compromise the IP rating of the enclosure.

Rainhoods are manufactured from 316 stainless steel and in the same N4 finish as the enclosure.

Catalogue Number	To suit enclosure Width x Depth (mm)	Dimensions (mm)		Slope Angle (degrees)
		Width	Depth	
NIRH021/S	200 x 150	200	165	3.5
NIRH031/S	300 x 150	300	165	3.5
NIRH041/S	400 x 150	400	165	3.5
NIRH032/S	300 x 200	300	215	2.7
NIRH042/S	400 x 200	400	215	2.7
NIRH052/S	500 x 200	500	215	2.7
NIRH062/S	600 x 200	600	215	2.7
NIRH082/S	800 x 200	800	215	2.7
NIRH063/S	600 x 300	600	315	1.8
NIRH083/S	800 x 300	800	315	1.8



Mounting Brackets and Flanges

Mounting brackets and flanges are designed to suit the Universal NI external fixing points, so no drilling into the enclosure is required. Both the brackets and flanges have a standoff height of 12 mm from the mounting surface. This allows air to circulate around the back of the enclosure, and also prevents any build up of debris.

Brackets and flanges are manufactured from 2 mm thick 316 stainless steel and all fixings are supplied to mount to the enclosure.



Catalogue Number	Description	Dimensions (mm)		To suit enclosure Width (mm)
		Height	Width	
MEB/S	4 Individual Mounting brackets and fittings	75	47	All
MF2/S	2 Top/Bottom mounting Flanges and fittings	75	200	200
MF3/S	2 Top/Bottom mounting Flanges and fittings	75	300	300
MF4/S	2 Top/Bottom mounting Flanges and fittings	75	400	400
MF6/S	2 Top/Bottom mounting Flanges and fittings	75	600	600
MF8/S	2 Top/Bottom mounting Flanges and fittings	75	800	800



Universal NI Accessories

Locks

To ensure that the contents of the enclosure remain safe, a wide range of different styles of locks are available. These included keyed locking systems and 'T' and 'L' handle locks for easy opening.

Also available is a range of lock inserts for B&R's standard turnbuckle lock. This can help standardise locks across a site.

Catalogue No	Description
NI020/S	Stainless steel turnbuckle lock 7 mm square pin
NI020/PS	Black powdercoat zinc diecast lock with stainless steel 7 mm square pin
NI111	Non lockable wing knob
NI030	Lockable wing knob keyed to code 92268
NI030/L003	Lockable wing knob keyed to code L003
NI030/CL001	Lockable wing knob keyed to CL001
NI040	Lockable 'T' handle keyed to code 92268
NI050	Lockable 'L' handle keyed to code 92268
NI052	Padlockable 'L' handle
LKINS8T	Lock insert 8mm triangle 020 series standard turnbuckle locks only
LKINS8S	Lock insert 8mm square 020 series standard turnbuckle locks only
LKINS3P	Lock insert 3mm pin double bit 020 series standard turnbuckle locks only
LKINS8T/S	Lock insert 8mm triangle stainless steel 020 series standard turnbuckle locks only
LKINS8S/S	Lock insert 8mm square stainless steel 020 series standard turnbuckle locks only
LKINS3P/S	Lock insert 3mm pin double bit stainless steel 020 series standard turnbuckle locks only
CL001	Keyed locks for NI040 and NI050
L003	Keyed locks (fire service lock) for NI030



Non-metallic

General Purpose

Stainless Steel

Mining & Hazardous

Switchboard Building

Datacoms

Climate Control

Technical Drawings

Enclosure Selection



GENERAL PURPOSE

UNIVERSAL NI SS

The Universal NI is a general purpose enclosure built for harsh and aggressive environments commonly found in industry, or in remote locations. It is designed for simple wall mounted installation with an 'easy mount' fitting that prevents the normal requirement for drilling into the enclosure, and potentially compromising the IP rating.

Typically used in automation and process control applications the Universal NI range includes a mounting pan, door rails and earth strap kit. Viewing windows can also be fitted to the enclosures, so that systems can be monitored without having to open the door.

The Universal NI enclosure is manufactured from 316 stainless steel for the ultimate in corrosion resistance. Finishing is also to the highest quality with each surface regrained to an Ra of 0.4 μm . What this means in practise is an enclosure that is smoother to the touch, provides superior protection from environmental corrosion such as 'tea staining' and requires less maintenance.

Accessories include rainhoods, mounting brackets, climate control equipment and a huge range of locks and lock inserts.



Contact your local B&R office for details
www.brenlosures.com.au

TECHNICAL INFORMATION



Model	Dimensions (mm)				Mounting Pan (mm)	
	Height	Width	Depth	Usable Depth*	Height	Width
NI03021/S	300	200	150	125	250	150
NI03031/S	300	300	150	125	250	250
NI04031/S	400	300	150	125	350	250
NI03041/S	300	400	150	125	250	350
NI04032/S	400	300	200	175	350	250
NI03042/S	300	400	200	175	250	350
NI04042/S	400	400	200	175	350	350
NI06042/S	600	400	200	175	550	350
NI05052/S	500	500	200	175	450	450
NI06062/S	600	600	200	175	550	550
NI08062/S	800	600	200	175	750	550
NI10082/S	1000	800	200	175	950	750
NI06043/S	600	400	300	275	550	350
NI06063/S	600	600	300	275	550	550
NI08063/S	800	600	300	275	750	550
NI10063/S	1000	600	300	275	950	550
NI08083/S	800	800	300	275	750	750
NI10083/S	1000	800	300	275	950	750
NI12083/S	1200	800	300	275	1150	750



* Mounting pan to underside of door



SPECIAL FEATURES

- NATA tested to IP66 protection rating
- Corrosion resistant 316 grade stainless steel with N4 surface finish to reduce 'tea staining'
- Robust fully welded construction
- Easy access with a reversible door opening to 120°
- Water is prevented from entering the enclosure on opening by a specially design guttering system
- Flexible equipment mounting options including door rails and a steel mounting pan
- Robust locking system
- Foamed in place polyurethane gasket

ACCESSORIES GUIDE

Vent kit, climate control equipment (air conditioners, heat exchangers, fans, and anticondensation heaters), rainhoods, mounting brackets, locks and more.

SALES OFFICES

Queensland (Brisbane)
Ph 07 3714 1000

Queensland (Townsville)
Ph 07 4775 6255

New South Wales (Sydney)
Ph 02 9687 0077

New South Wales (Newcastle)
Ph 02 4961 4433

Victoria (Melbourne)
Ph 03 8588 8400

South Australia (Adelaide)
Ph 08 8243 1166

Western Australia (Perth)
Ph 08 9248 9744

Tasmania (Launceston)
Ph 03 6331 5545

Northern Territory (Darwin)
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