

nVent HOFFMAN EKOM Aluminium Enclosures

Rugged solutions for transport, telecommunications and utilities infrastructure

ENCLOSURES AND CLIMATE CONTROL





nVent HOFFMAN EKOM aluminium floor standing enclosures are the ideal choice for protecting valuable equipment in transportation, telecommunications and utilities applications.

Corrosion resistance

- Powder coated marine grade aluminium
- Seamless joints
- Designed for permanent outside mounting in exposed location

Flexibility

- Available in single door, double door and triple door models depending on width
- Integrated front and rear 25mm hole pattern
- Compatible with 19" rack-mounting
- Custom versions possible (colours, dimensions, inner doors etc) to suit specific projects
- Outer panels can be removed without exposing internals if needed
- Rear panel can be removed and substituted with a door

Robust design

- High impact resistance rating of IK10
- IP66 ingress protection (single door) and IP55 (double door)
- High resistance to vandalism, gapless panel joints with no screws or hinges visible from the outside when locked
- Secure multi-point Espagnolette locking system
- Meets tough EN 61969-3 "Mechanical structures for electronic equipment: Outdoor enclosures" standard

Innovative features

- Sloped rain hood with integrated rain gutter and ventilation channels
- Double wall construction with integrated air flow openings top and bottom on the rear and side walls for enhanced thermal performance in outside locations with high solar loads



VicRoads Type-Approved ITS Cabinets

- VicRoads Type-Approved ITS cabinets available as complete units
- 3 and 4-door models available
- T33 smoke blue finish
- Complies with TCS061 2019 ITS Field Cabinet Approval number PA 033 385

Ordering Information – VicRoads Type Approved ITS Field Cabinets

Enclosure dimensions (mm)					
H	W	D	Weight (kg)	Number of doors	Catalogue No.
1600	800	600	90	4	ECOM16086ITS
1600	800	600	90	2	ECOM16086ITS2



EKOM Double Wall Enclosure Range

EKOM double wall units feature integrated ventilation openings to allow air flow for optimum thermal performance in outside applications. The double wall design cooling efficiency is up to 80% higher compared to a typical single walled enclosure.

This minimises additional equipment costs, installation costs and time to build. The EKOM double wall range is available in two heights of 1200 and 1400mm, four widths of 600, 800, 1200mm and 1800mm and two depths of 500 and 600mm (1200 model shown on left).

Note: bottom plate required to achieve IP rating and must be ordered separately.

Ordering Information – EKOM Double Wall Enclosures

Enclosure dimensions (mm)							
H	W	D	Weight (kg)	Number of doors	Mounting plate dimensions H x W (mm)	Max usable depth (mm)	Catalogue No.
1200	600	600	62	1	1094 x 494	535	EKOM12066
1200	800	600	52	1	1094 x 594	535	EKOM12086
1200	1200	600	72	2	1094 x 494 (x2)	535	EKOM12126
1400	600	600	73	1	1294 x 494	535	EKOM14066
1400	800	600	76	1	1294 x 594	535	EKOM14086
1400	1800	500	139	3	1294 x 494 (x3)	435	EKOM14185

Ordering information – EKOM Accessories

Plinth (complete) 100mm high*	Mounting plate (aluminium)* / brackets	Mounting plate (steel)* / brackets	Bottom Plate*	Document holder*	Inner Door*	Door Switch*	Lifting lugs*	Enclosure lights	Filter fans / filter grilles*	Fan cover / weather hood	Catalogue No.
PFAL1066	MPAL1206 MPA06	MP1206 MPA06	CBPA066	DRB600R5, DRB0303R5, DRA4	DI1206R5	DSW01, TLC501	LE9304	LED0254xxxx, LTSL5S, TL87035	GSVxx / GSFxx	EFC5xx316	EKOM12066
PFAL1086	MPAL1208 MPA06	MP1208 MPA06	CBPA086	DRB800R5, DRB0303R5, DRA4	DI1208R5	DSW01, TLC501	LE9304	LED0254xxxx, LTSL5S, TL87035	GSVxx / GSFxx	EFC5xx316	EKOM12086
PFAL1126	MPAL1206 (x2) MPA06	MP1206 (x2) MPA06	CBPA066 (x2)	DRB0303R5, DRA4	DI1206R5 (x2)	DSW01, TLC501	LE9304	LED0254xxxx, LTSL5S, TL87035	GSVxx / GSFxx	EFC5xx316	EKOM12126
PFAL1066	MPAL1406 MPA06	MP1406 MPA06	CBPA066	DRB600R5, DRB0303R5, DRA4	DI1406R5	DSW01, TLC501	LE9304	LED0254xxxx, LTSL5S, TL87035	GSVxx / GSFxx	EFC5xx316	EKOM14066
PFAL1086	MPAL1408 MPA06	MP1408 MPA06	CBPA086	DRB800R5, DRB0303R5, DRA4	DI1408R5	DSW01, TLC501	LE9304	LED0254xxxx, LTSL5S, TL87035	GSVxx / GSFxx	EFC5xx316	EKOM14086
PFAL1185	MPAL1406 (x3) MPA06	MP1406 (x3) MPA06	CBPA065 (x3)	DRB0303R5, DRA4	DI1406R5 (x3)	DSW01, TLC501	LE9304	LED0254xxxx, LTSL5S, TL87035	GSVxx / GSFxx	EFC5xx316	EKOM14185

* Must be ordered separately



Single door 600 and 800mm wide model



Triple door 1800mm wide model



Example of custom model in RAL 2000 orange



VicRoads Type-Approved ITS Cabinet

Accessories for nVent HOFFMAN EKOM enclosures

There are many accessories available for nVent HOFFMAN EKOM aluminium enclosures and these are discussed in detail below.

Due to the large number, the accessories have been grouped into the following categories:

Mounting: This includes, plinths and lifting lugs

Internal: This includes inner doors, bottom plates, mounting plates and profiles, separation plates and document holders

19" rack mounting: Covers the range of 19" rack mount options, including brackets and profiles

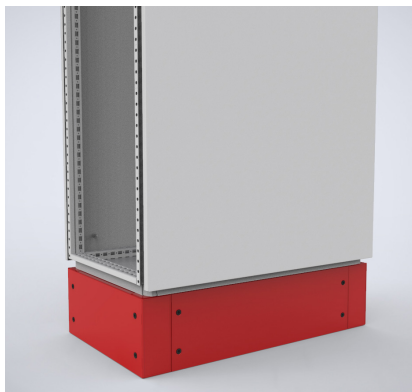
Lighting: Covers enclosure LED lighting options

Climate control: This includes pressure compensation devices, filter fans and grilles, thermostats and air conditioners

Mounting and lifting accessories:

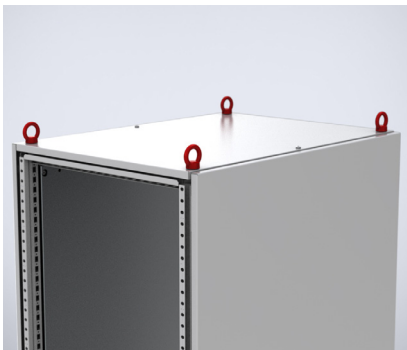
This section includes plinths and lifting lugs

Plinths for EKOM aluminium enclosures, PFALxxxx



Description:	PFALxxxx aluminium plinths are designed to mount underneath the EKOM enclosure to provide extra space between the installation floor/ground and the enclosure's bottom plates, allowing easier cable installation. The plinth inside can be accessed by removing the front, rear or side plates. Note PFAL plinths are supplied as a complete set including front/rear and sides.
Ordering information	PFAL1066 – aluminium plinth, H100 x W600 x D600mm PFAL1086 – aluminium plinth, H100 x W800 x D600mm PFAL1126 – aluminium plinth, H100 x W1200 x D600mm PFAL1185 – aluminium plinth, H100 x W1800 x D500mm
Material	Aluminium AlMg3; profiles 3mm and panels 2mm, polyester powder coated RAL 7035

Lifting accessories for enclosures, LE9304



Description:	LE lifting eye bolts mount directly to the enclosure corners when lifting operations are required. Complies with DIN 580 lifting requirements. M12 thread. 3400N per lifting eye with max angle of 45°. The LE9304 may be used to lift individual enclosures. <i>Note: the lifting accessories are also available in stainless steel versions, please contact NHP for details..</i>
Ordering information	LE9304 – lifting eye bolts, supplied as set of 4
Material	Zinc plated steel

Internal accessories:

This section includes all internal mounting accessories such as inner doors, mounting profiles, separation plates and brackets EXCEPT 19" rack equipment (separate section)

Inner doors for floor standing enclosures, DIxxxxR5



Description: DI inner doors provide a hinged mounting surface for equipment such as displays, indicators or switches behind the enclosure door, while covering other components and preventing unauthorised access. A mounting space of 80 mm is available between the doors when the inner door is in the most forward position. Can be adjusted in depth by steps of 25 mm. The inner door is equipped with two double-bit 3 mm locks. Supplied with mounting accessories.

Note for enclosures 1200mm wide two inner doors are required, and for enclosures 1800mm wide three inner doors are required.

Ordering information

DI1206R5 – Inner door, H1200 x W600mm
DI1208R5 – Inner door, H1200 x W800mm
DI1406R5 – Inner door, H1400 x W600mm
DI1408R5 – Inner door, H1400 x W800mm

Material 1.5mm mild steel with RAL 7035 structured powder coating

Mounting plates and mounting plate brackets for EKOM enclosures, MPxxxx/MPALxxxx/MPA06



Description: MPAL and MP mounting plates allow equipment to be mounted. They speed up the assembly of the enclosure as they can be machined and have the components mounted outside the enclosure. MPAL mounting plates are manufactured from marine grade aluminium and provide increased corrosion resistance, while MP steel mounting plates provide a more economical solution for applications where the risk of corrosion is low.

Note that the MPA06 mounting brackets are required to mount each mounting plate.

Ordering information – MPAL aluminium mounting plates

MPAL1206 – mounting plate H1200 x W600mm
MPAL1208 – mounting plate H1200 x W800mm
MPAL1406 – mounting plate H1400 x W600mm
MPAL1408 – mounting plate H1400 x W800mm

Ordering information – MP steel mounting plates

MP1206 – mounting plate H1200 x W600mm
MP1208 – mounting plate H1200 x W800mm
MP1406 – mounting plate H1400 x W600mm
MP1408 – mounting plate H1400 x W800mm

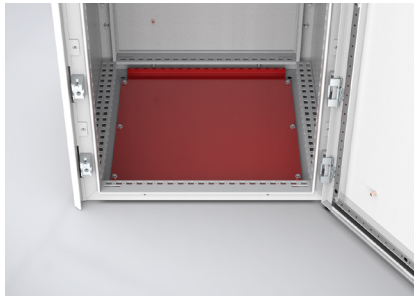
Ordering information – brackets

MPA06 – mounting plate brackets, supplied as set of 6 (2 top brackets, 2 bottom sliding brackets and 2 adjustment brackets with mounting accessories)

Material

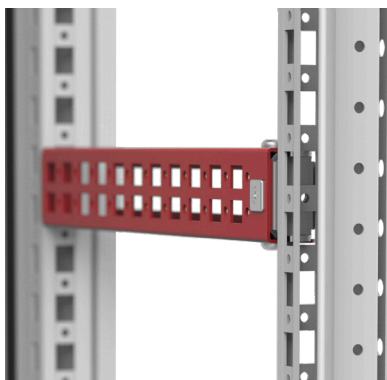
MPAL mounting plates – 3mm Aluminium AlMg3
 MP mounting plates – 3mm galvanised steel
 MPA06 mounting brackets – 3mm zinc plated steel

Bottom plates for EKOM enclosures, CBPAxxx



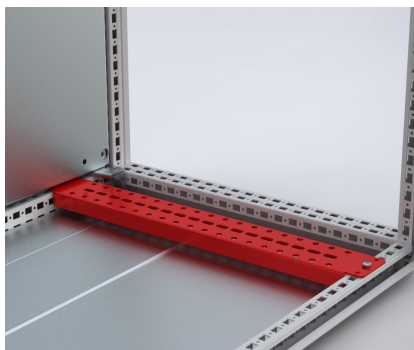
Description:	CBPA bottom plates allow the EKOM enclosure to maintain the IP rating and can be easily removed and machined to allow for the installation of cables. For enclosures 1200mm and 1800mm wide use 2 x CBPA066 and 3 x CBPA066 respectively.
Ordering information	CBPA065 – bottom plate W600 x D500mm CBPA066 – bottom plate W600 x D600mm CBPA086 – bottom plate W800 x D800mm
Material	2mm Aluminium AlMg3, RAL 7035 polyester powder coated

Mounting profiles, unidirectional Snapline, CLPFxxx



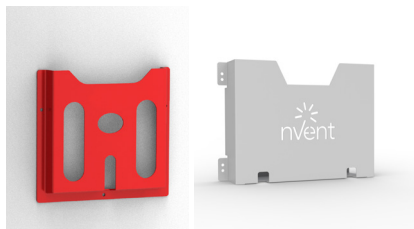
Description:	The CLPF profile system is a 40mm wide and 25mm high mounting profile can be mounted in all directions on the enclosure's frame, providing full flexibility for the mounting of accessories, components, and other equipment. Two rows of hole patterns for cage nut fixing and self-tapping screws are provided. The CLPF is a Snapline accessory and can be quickly and easily installed without any tools.
Ordering information	CLPF600 – Snapline mounting profile W/D 600mm, 800/1000N max loading, set of 4 CLPF800 – Snapline mounting profile W/D 800mm, 800/1000N max loading, set of 4 CLPF1200 – Snapline mounting profile W/D 1200mm, 800/1000N max loading, set of 4 CLPF1400 – Snapline mounting profile W/D 1400mm, only vertical loads allowed, set of 4
Material	Zinc plated steel

Carrier bars, CBxxx



Description:	CB carrier bars, fitted in the base of the floor standing enclosures, allowing heavy equipment such as transformers to be mounted. They can be adjusted in width or depth within the enclosure's frame. The CB are supplied as a pair with mounting accessories. <i>NOTE: observe the maximum permissible load (varies by model).</i>
Ordering information	CB400 – carrier bars W/D 400mm, 2500N max loading, set of 2 CB500 – carrier bars W/D 500mm, 2100N max loading, set of 2 CB600 – carrier bars W/D 600mm, 1800N max loading, set of 2 CB800 – carrier bars W/D 800mm, 1300N max loading, set of 2
Material	3mm galvanised steel

Document holders DRA4, DRBxxxR5

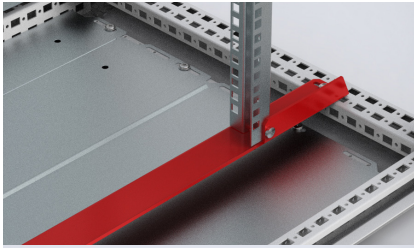
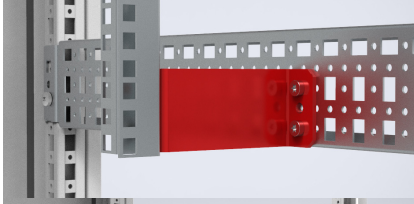
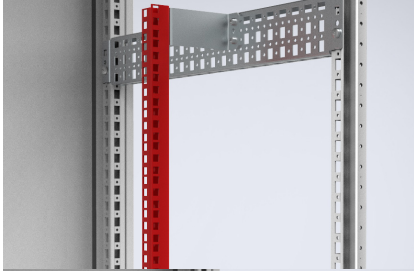
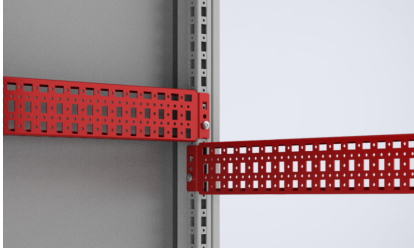


Description:	Document holders/pockets can be mounted in the enclosure to ensure that the required documents are readily available. The DRA4 document pocket, with a usable depth of 30mm suits documents up to A4 in size and is made from polymer and attaches easily with double sided tape. The DRBxxxR5 range of document pockets, with a usable depth of 68mm, is designed for mounting to the enclosure door frame is made from powder coated mild steel and is available in several sizes to suit various width enclosure doors.
Ordering information	DRA4 – self-adhesive document pocket A4 DRB03030R5 – universal document pocket 300mm wide DRB600R5 – document pocket for W600mm doors DRB800R5 – document pocket for W800mm doors
Material	DRA4: thermoplastic, RAL 7035 DRBxxxR5: 2mm zinc plated steel with RAL 7035 structured powder coating

19" Rack mounting accessories:

This section lists the various 19" rack mount options that are available. Note that certain accessories must be used together to complete the installation

19" brackets and profiles, CIBxxx, CIC04, CIPxx, CIPPxx, CIWRxx

	Description CIB	CIB profiles allow 19" CIP vertical profiles to be mounted so that equipment designed for 19" rack mounting can be installed. CIB are available in two widths, to suit 600mm and 800mm wide enclosures and are compatible with both mild steel and stainless steel models. Supplied as a set of 2 with mounting accessories.
	Ordering information CIB	CIB600 – 19" profile fixing brackets, W600mm, set of 2 CIB800 – 19" profile fixing brackets, W800mm, set of 2
	Material CIB	3mm zinc plated steel
	Description CIP	CIP 19" full height 19" profiles allow 19" rack mounted equipment to be installed in floor standing enclosures. Available in a range of heights, they are supplied as set of 2 with mounting accessories. <i>Note that CIB profiles are required to mount the CIP</i>
	Ordering information CIP	CIP24 – 19" profiles H1200mm / 24RU CIP33 – 19" profiles H1400mm / 29RU
	Material CIP	2mm zinc plated steel
	Description CIC	CIC brackets allow the CIPP 19" partial height profiles to be installed in 800mm wide enclosures. They are supplied as a set of 4 with mounting accessories
	Ordering information CIC	CIC04 – brackets for partial height 19" fixing, set of 4
	Material CIC	3mm zinc plated steel
	Description CIPP	CIPP partial height 19" mounting profiles are both height and depth adjustable for flexible mounting of 19" rack equipment. They are supplied as a set of 2 with mounting accessories. <i>Note that CIPP brackets require CIC and/or CIWR to complete the installation</i>
	Ordering information CIPP	CIPP06 – 19" mounting profiles partial height 350mm CIPP11 – 19" mounting profiles partial height 550mm CIPP15 – 19" mounting profiles partial height 750mm CIPP18 – 19" mounting profiles partial height 875mm
	Material CIPP	2mm zinc plated steel
	Description CLPK	CLPK click in profiles allow CIP, CIPP and other accessories and components to be installed. CLPK are fixed directly to the enclosure frame and so do not require any additional brackets. Supplied as a set of 4.
	Ordering information CLPK	CLPK400 – click in profile W/D400mm, supplied as a set of 4 CLPK500 – click in profile W/D500mm, supplied as set of 4 CLPK600 – click in profile W/D600mm, supplied as a set of 4 CLPK800 – click in profile W/D800mm, supplied as a set of 4
	Material CLPK	1.5mm zinc plated steel
	Description CIWR	CIWR 19" width reducers are designed to mount in 800mm wide enclosures and allow full height CIP or partial height CIPP 19" profiles to be mounted, with continuous depth adjustment. CIWR can also be used to reinforce full height CIP 19" profiles. The maximum permissible load is 5000N on 2 pairs and 8000N on 3 pairs of CIWR. The CIWR are supplied as a set of 2 with mounting accessories for mounting of 19" rack equipment. <i>Note that CIPP brackets require CIC and/or CIWR to complete the installation</i>
	Ordering information CIWR	CIWR8196 – 19" width reducers for W800 x D600mm enclosures CIWR8198 – 19" width reducers for W800 x D800mm enclosures,
	Material CIWR	2mm zinc plated steel

Enclosure lighting:

This section provides a high-level overview of the enclosure lighting options available.

Door switch DSW01, TLCS01



Description:	Door switches allows lights or other electrical devices to turn on or off automatically when the enclosure door is opened. They include a NO (normally open) and one NC (normally closed), volt-free contact. Designed to be mounted directly to the enclosure frame. The mounting locations ensure that the switch is always positioned for correct operation once installed
Ordering information	DSW01 – Door switch 3A / 240V, with M20 cable entry, supplied with mounting accessories TLCS01 – Door switch for TLC range of LED lights, supplied with 1.5m long cable
Material	Polymer body

Enclosure lights, LED0254xxxx, LTSL5S, TL87035



Description:	LED 025 enclosure lights, manufactured by Stego are suitable for all enclosures. They are available in 100-240V AC and 24-48V DC versions in both screw mount and magnet mount, with door switch and built-in motion sensor operation. With 400 lumens, 120° illumination angle and daylight white (6000K) colour, they provide good illumination inside the enclosure. Contact NHP for additional information and other options.
Ordering information	LED02540001 – LED 025 lamp 5W/400Lm 100-240V AC, screw mount, for door switch, supplied with connector LED02540101 – LED 025 lamp 5W 24-48V DC, screw mount, for door switch, supplied with connector
Material	Transparent plastic housing



Description:	The nVent HOFFMAN LTSL5S is a 351 mm LED light with a service life of 60,000 hours, 400 lumens and a 120° illumination angle. Up to 10 lights may be daisy chained together to operate off a single door switch. LTSL5S is rated at 100-240V AC 50/60Hz. <i>Note that the TLCS01 door switch is recommended for best operation</i>
Ordering information	LTSL5S – LED lamp 5W/400Lm 100-240V AC, screw mount, for door switch
Material	Transparent plastic housing



Description:	The TLCL87035 is a compact design 7.2W LED light suitable for mounting on 19" rack profiles. Available in both 220-240V AC and 24V DC versions, the TLCL87035 provides 945Lm of illumination and a service life of 50,000 hours. <i>Note that the TLCS01 is recommended for best operation</i>
Ordering information	TLCL87035 – compact LED light 7.2W/945Lm 220-240V AC, screw mount for door switch TLCL8703524 – compact LED light 7.2W/945Lm 24V DC, screw mount for door switch
Material	PC-ABS housing

Climate Control:

This section provides a high-level overview of the climate control options available. Please refer to the Climate Control Selection Guide or contact NHP for more details.

Fan covers, EFCSxxxx



Description:	EFCS fan covers feature a sloped roof and prevent rain and water in hose-down applications hitting the filter fan or filter grille. Supplied with mounting accessories. Made from 316 grade stainless steel, they are compatible with both mild and stainless steel enclosures and should always be used where the enclosure is likely to be exposed to rain or hose down cleaning. The EFCS is available in three sizes to suit different sizes of the GSV filter fans and GSF filter grilles
Ordering information	EFCS20316 – fan cover H275 x W175 x D100mm, suits GSV1000, GSF10 sizes EFCS2530316 – fan cover H375 x W275 x D100mm, suits GSV1500, GSV250, GSF15, GSF20 sizes EFCS5060316 – fan cover H450 x W350 x D100mm, suits GSV30, GSF30 sizes
Material	1.5mm AISI 316L grade stainless steel

Pressure compensation devices, DA284xx



Description:	DA284 pressure compensation devices, manufactured by Stego, are easy to install and provide effective pressure equalisation between the inside and outside of the enclosure. The one-way membrane allows moisture to escape while preventing the ingress of liquid water or dirt and debris. AS3000:2018 clause 1.7.2 states that “a breathing/pressure equalization valve shall be installed to assist with changes in humidity and drainage of moisture”. Therefore, to comply with the new AS3000:2018 standards, pressure compensation devices must be fitted to all enclosures where condensation is likely to occur - in practice all enclosures installed outside. Pressure compensation devices should always be installed in pairs on opposite sides of the enclosure. The Stego DA284 are available in stainless steel and have an ingress protection rating of IP66 according to EN 60259 and IP69K according to EN 400050-9.
Ordering information – pressure compensation devices	DA28455 – pressure compensation device, AISI 303 grade stainless steel, M40 IP66/X9K (QTY 1) DA28455S – pressure compensation device, AISI 316L grade stainless steel, M40 IP66/X9K (QTY 1)
Material	303 or 316L grade stainless steel, model dependent

Drainage device, DD084



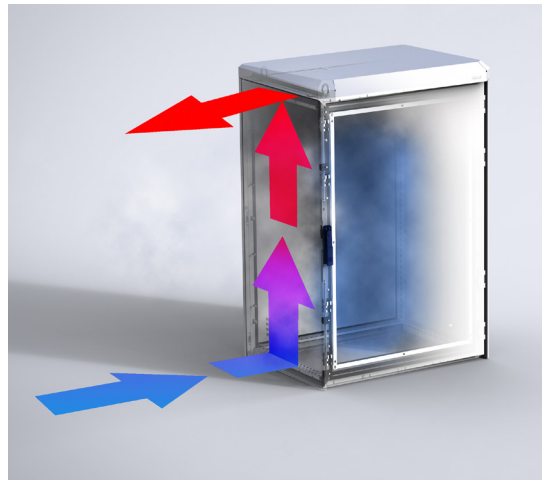
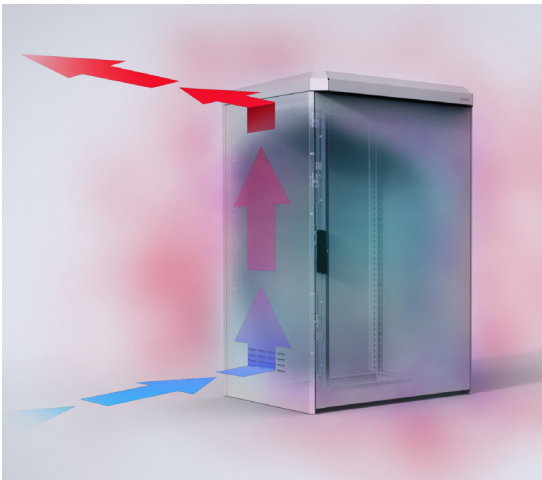
Description:	DD084 drainage devices, manufactured by Stego, are easy to install and provide effective drainage of any condensation at the bottom of the enclosure. The one-way membrane allows up to 200ml/h of liquid to escape while preventing the ingress of liquid water or dirt and debris.
Ordering information	DD084 – drainage device, plastic, M50 IP66/X9K (QTY 1)
Material	Grey UV resistant plastic (UL746C), NBR sealing gasket

Filter fans GSVxxxx and filter grilles GSFxx

	Description:	Kryos³ GSV filter fans and GSF filter grilles, manufactured by Cosmotec, are easy to install with clip-on mounting. GSV filter fans have efficient filter mats, screwless terminals, long life ball bearing fans and have a reversible fan motor for air in or air out. Available in a range of sizes and air flows, they are suitable for all floor standing enclosures and have IP54 protection. They can be used both indoors and outdoors, however a suitable EFCS fan cover should be installed in locations where inclement weather, or hose-down cleaning may occur. Replacement filter mats are available. For more information on the GSV/GSF range please refer to the Climate Control Selection Guide and Price List Catalogue.
	Ordering information – filter fans	GSV1000211 – filter fan H119 x W119 x D58mm 24V DC 35m3/hr GSV1000220 – filter fan H119 x W119 x D58mm 230V AC 35m3/hr GSV1500211 – filter fan H152 x W152 x D75mm 24V DC 67m3/hr GSV1500220 – filter fan H152 x W152 x D75mm 230V AC 67m3/hr GSV2000211 – filter fan H204 x W204 x D98mm 24V DC 108m3/hr GSV2000220 – filter fan H204 x W204 x D98mm 230V AC 108m3/hr GSV2500211 – filter fan H250 x W250 x D118mm 24V DC 190m3/hr GSV2500220 – filter fan H250 x W250 x D118mm 230V AC 190m3/hr GSV2501220 – filter fan H250 x W250 x D99mm 230V AC 270m3/hr GSV3000220 – filter fan H318 x W318 x D139mm 230V AC 500m3/hr GSV3001220 – filter fan H318 x W318 x D135mm 230V AC 700m3/hr GSV3002220 – filter fan H318 x W318 x D161mm 230V AC 850m3/hr GSV3002262 – filter fan H318 x W318 x D161mm 400V AC 850m3/hr
	Ordering information – filter grilles	GSF10 – filter grille H119 x W119 x D29mm GSF15 – filter grille H152 x W152 x D33mm GSF20 – filter grille H204 x W204 x D34mm GSF25 – filter grille H250 x W250 x D48mm GSF30 – filter grille H318 x W318 x D34mm
	Ordering information – replacement filter mats	AVAFAGS10 – replacement filter mat IP54 suits GSV1000, GSF10, pack of 10 AVAFAGS15 – replacement filter mat IP54 suits GSV1500, GSF15, pack of 10 AVAFAGS20 – replacement filter mat IP54 suits GSV2000, GSF20, pack of 10 AVAFAGS25 – replacement filter mat IP54 suits GSV2500, GSF25, pack of 10 AVAFAGS30 – replacement filter mat IP54 suits GSV3000, GSF30, pack of 10
Material	Filter fan and filter grille body: ABS Filter mat: synthetic fibre	

Optimised Thermal Performance

Solar energy heats up the outside wall, causing the air inside the double wall to heat up and rise, escaping through the top ventilation openings and drawing cooler air through the bottom ventilation openings. Thus a continuous convective cooling process is created. This results in cooling performance up to 80% higher than single wall units.



Enhanced thermal performance of double wall

Accessories

EKOM Enclosures



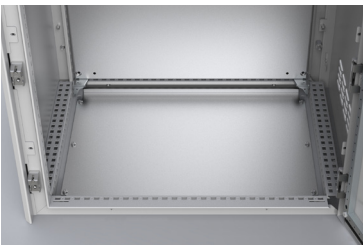
Mounting plates - steel and aluminium



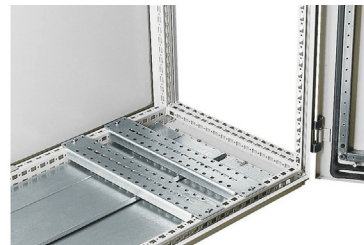
Plinth 100mm - aluminium



19" profiles



Bottom plates - aluminium



Carrier bars



Lifting eye bolts

Applications and Benefits:

The nVent HOFFMAN EKOM range has been designed with corrosion resistance, thermal performance, vandal resistance and ingress protection in mind. Intended for harsh, outside environments with high solar loads, the EKOM range is ideally suited to applications in the following industries:

- Road transportation
- Railway transportation
- Telecommunications
- Utilities
- Marine environments
- Renewable energy

The nVent HOFFMAN EKOM range offers several key benefits:

- Available in a wide range of standard sizes ex-stock, minimising delivery time
- The multi-point Espagnolette locking, together with the concealed hinges and screws, provides a high degree of tamper and vandal resistance
- The mounting plate position and depth can be adjusted for optimum flexibility
- The integrated rain hood and sloped roof design provides enhanced weather protection
- The aluminium construction, together with the double-wall design provides optimum heat management
- Custom versions can be designed to suit specific project requirements
- Proven solution with thousands deployed around the world

Sample applications shown below:





Build something special with an experienced partner

With over 45 years of experience, NHP are proud providers of heavy duty solutions for the heavy and civil engineering construction sector.

We understand that the larger scope of your heavy or civil engineering construction project not only calls for increased focus on product selection, but other compliance requirements such as government restrictions and safety regulations.

The ability to overcome such challenges can be the difference between success and failure and partnering with NHP unlocks an

extensive range of low and medium voltage products supported by expert staff to enable a customised solution.

Complementing our heavy duty product range, NHP also offer a complete range of technology systems specially designed to monitor equipment and achieve higher productivity as well as increase efficiency and safety.

NHP ELECTRICAL ENGINEERING PRODUCTS

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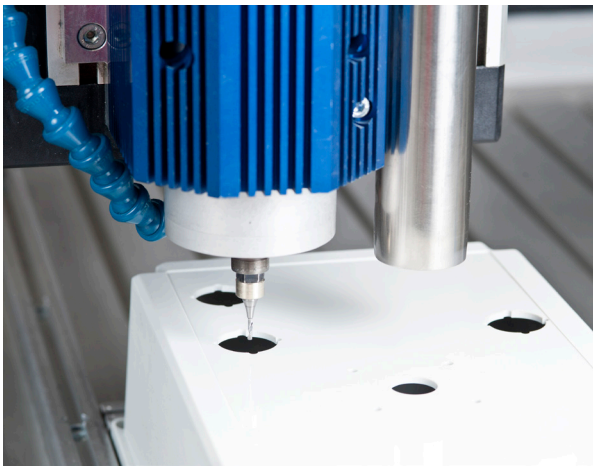




Technical Information:

Material (body):	One piece aluminium AlMg3 body 2mm thick
Finish:	RAL 7035 structured powder coat 100% polyester
Lock:	nVent HOFFMAN customised zamak double-bit 3mm lock with 90° movement and Anti-vibration mechanism with multi point Espagnolette locking.
Material (mounting plate):	Aluminium, 3mm
Ingress protection:	IP66 (EKOM single door), IP55 (EKOM double door)
Impact resistance:	IK10 (20 Joules)

Certifications for nVent HOFFMAN EKOM range:



Scan QR code to view the CNC milling solution in action



Industrial Enclosure Customisation

NHP can also provide customisation of industrial enclosures to suit your specification.

Through our state of the art Computer Numerical Control (CNC) machining system, we can perform milling as well as engraving and cutting to any specification in 3 dimensions to the highest precision, ensuring your demands are met.

- Cost effective customisation for specific applications
- Quick turnaround with high repeatability including threaded and unthreaded holes, cable entries, cut-outs on any side of the enclosure
- Industrial enclosure materials
 - ABS / Polycarbonate (PC) / Glass reinforced polycarbonate (GRPC)
 - Polyester (GRP)
 - Aluminium (AL)
- In-house CNC machinery setup in Melbourne

Whether the specifications and quantities are large or small, NHP's focus is on providing a tailored solution with prompt delivery to all locations across Australia.

Climate Control Options

Depending on application and ambient conditions, additional climate control may be required. NHP has a complete range of cooling and heating products to ensure your equipment is operating at the right temperature.

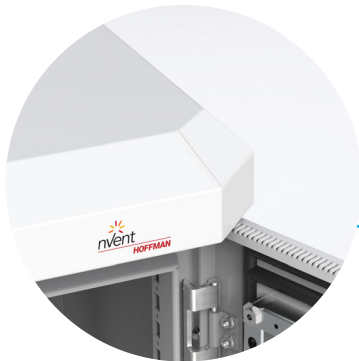
	OUTDOOR	OUTDOOR HARSH OR WASH-DOWN ENVIRONMENTS
COOLING TO AMBIENT TEMPERATURE	 <i>GSV, GSF Series</i>	 <i>CVO Stainless Steel</i>
COOLING BELOW AMBIENT TEMPERATURE	 <i>CVO Series</i>	 <i>CVO Stainless Steel</i>
HEATING/ PREVENTING CONDENSATION IN SMALL ENCLOSURES	   <i>CSK060 Series</i> <i>HGK047 Series</i> <i>HG140 Series</i>	
HEATING/PREVENTING CONDENSATION IN LARGE ENCLOSURES	        <i>CS Series</i> <i>HVL031 Series</i> <i>HGL046 Series</i> <i>CR0270 Series</i> <i>CR130 Series</i> <i>HVI Series</i> <i>DA28455</i> <i>DD084</i>	

Please refer to the NHP Climate Control Easy Selection Guide for more information

Key Features

Sloped roof

- Sloped roof promotes self draining of rain water



Ventilated roof

- integrated ventilation enhanced cooling performance



Optimised thermal performance

- Double wall sides and rear with top and bottom ventilation
- Double wall provides up to 80% better cooling efficiency



Flexible mounting options

- Compatible with 19" rack mounting
- Multiple positions possible for mounting plate





Door made from 2mm thick Aluminium

- Reinforced profile with 25mm hole pattern
- Multi point locking system
- Integrated ventilation enhances cooling



Concealed hinge design

- High tamper resistance
- Hinges not visible when locked



High vandal resistance

- Secure multi point Espagnolette locking system



Easy maintenance

- Side panels can be easily removed without exposing internals





Processes and Production

With a 5,000m² National Manufacturing and Distribution Centre located in Laverton, Victoria, interstate operations across the country and over 150 specialised staff, NHP Manufacturing has the experience, capability and capacity to successfully deliver your customised, engineered solutions.

To ensure quality and consistency in both our project delivery and product manufacturing, NHP Manufacturing follows robust and streamlined processes and procedures. With a dedicated Process Team, tasked with the duty of ensuring all processes are effective and efficient, all manufacturing processes are documented and regularly reviewed.

On time delivery is critical towards the success of any project. Understanding this and focusing on your project, a fundamental Key Performance Indicator (KPI) for manufacturing is our Customer Service Level (CSL). This KPI measures our performance in meeting scheduled delivery dates issued to you during the planning stage of the project.

Ultimately our customers want their product on time and right first time. Throughout the project delivery and manufacturing process, NHP Manufacturing measures quality performance through a Right First Time (RFT) process. This includes the quality of the project designs issued to you through to the final testing of the manufactured product. Through the RFT process, any quality issues are captured and rectified, ensuring all RFT data is recorded for performance measurement (KPI) and continuous improvement.

By providing you with a dedicated Project Coordinator, you can have confidence that all required steps throughout the manufacturing process are taken care of, from initial scope requirements through to final delivery. Our Project Coordinator will manage all necessary aspects of the manufacturing process to ensure a smooth delivery of your project.



A partnership with NHP will provide you with:

24/7/365 Emergency service	NHP project management	Extensively trained and qualified service technicians	National service network	Extensive local stockholding	Customised manufactured solutions

The Power of Local. The Power of NHP

No matter how good a product may be, it is nothing without dedicated people to support that product - and at NHP, we have you covered. Our strength lies in providing choice to our customers – be that choice in product, choice in technology or choice in service and support, the kind of choice you only get from a local provider.

Throughout the entirety of the manufacturing process, our agile framework means we can adapt with the local market and our commitment to a personalised service ensures you can expect a dedicated point of contact throughout your project. Aligning with the integrity of the design process our manufacturing process brings the highest levels of quality assurance and testing, safety, standards compliance and production quality.

Victorian Manufacturing Hall of Fame

In 2012 NHP became proud inductees into the Victorian Manufacturing Hall of Fame which acknowledges those who have displayed a sustained contribution to manufacturing excellence. Established in 2001, the Victorian Manufacturing Hall of Fame recognises companies and individuals who have the dedication, creativity and energy to take Victorian manufacturing to the next level.



Why Choose NHP

Think local, increased choice and customisation. Think NHP.

Founded in 1968 NHP has over 50 years of experience with automation, motor control, power distribution and technology applications. We are committed to providing customers with internationally recognised products backed by local expertise, extensive stock holding and professional service.

We are proud to continue the core focus of our heritage, servicing our customers in conjunction with a vast global network of supply partners that enable us to bring the world's best products and solutions to the local market, customised to suit local applications.

With local teams across Australia and New Zealand, NHP's expertise and support offering is strengthened by long standing global partnerships with world class supply line partners.

For your next project, think NHP.

THE POWER OF LOCAL

In your local community, city and industry, we understand your specific project needs.

THE POWER OF CHOICE

Choice in product, technology, service, and support enabling customers to customise and push boundaries.

THE POWER OF GLOBAL PARTNERS

With a global network of suppliers, we bring the world's best products and knowledge to your doorstep.

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