

DIPLOMAT Caseframes Introduction

APPLICATIONS

The DIPLOMAT caseframe is designed for desk mounted or portable applications. Its lightweight yet robust construction makes it ideally suited for use in office, laboratory or factory environments.

Fully compatible with APW's market leading KM6-II subrack system, the caseframe directly accepts Eurocards and plug-in modules conforming to IEC 297-3, DIN 41494 pt5 and BS 5954 specifications. KM6-II tie bars, card guides and accessories may be fitted without modification.

Two versions of the DIPLOMAT are available - standard units for general purpose applications and fan plinth units for use when heat is a problem.

STANDARD CASEFRAMES

The standard DIPLOMAT caseframes are available in heights of 3U and 6U, widths of 42, 60 and 84 HP and depths of 324, 444 and 564mm.

CONSTRUCTION

Each DIPLOMAT consists of a front and rear die-cast bezel, aluminium side extrusions and steel cover panels. The construction, whilst being extremely strong, is lightweight.

The aluminium side extrusions, which are secured to the bezels with four fixings front and rear, have a handle feature to enable the unit to be carried easily. The extrusions also have two rows of fixing holes on a 12mm pitch for KM6-II tie bars. Two and four side extrusions are provided on 3U and 6U units respectively.

Top and bottom covers are secured to the basic frame with two fixings, which pass through the rear bezel, and location tags which fit into the front bezel. The 6U infill covers are secured in the same way. Bottom covers also include ventilation slots.

Each DIPLOMAT is supplied assembled, two front trims which hide the case fixing screws are ordered as accessories and four nonslip feet, two of which can be tilted, are included. The screws also provide earth continuity between components.



DIPLOMAT caseframes

DIPLOMAT Caseframes Overview

This range of cases is for the direct mounting of circuit boards and modules to IEC 297-3, DIN 41494 pt5 and BS 5954.

Features

- EMC conversion
- Superb modern styling
- Robust yet lightweight construction
- Conforms to IEC 297-3, DIN 41494 pt5 and BS 5954, fully compatible with KM6-II subrack system
- Supplied assembled
- Quick release top and bottom covers
- Large range of ex-stock sizes and large range of accessories
- Easy to customise
- Available with fan cooling plinths
- Finished in colour combination of light and mid grey

STANDARD CASEFRAME

Contents of kit

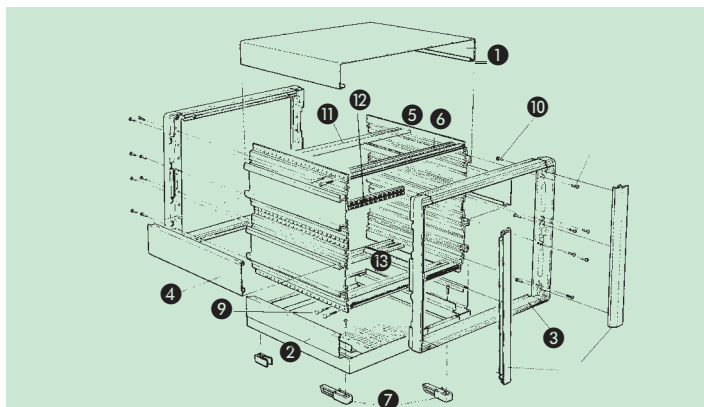
No.	Description	Qty	Material/finish
1	Top Cover	1	0,9mm Zintec coated steel
2	Bottom Cover	1	0,9mm Zintec coated steel
3	Bezels	2	Aluminium alloy
4	Side Cover (6U only)	2	0,9mm Zintec coated steel
5	Handle Extrusions	2	3U – not shown
		2	6U – type 'A' or
		2	6U – type 'B'
6	Front Tie Bars and Tapped Strips	2	Aluminium alloy
		2	Mild steel zinc and passivate
7	Feet (tilting) and Screws	2	ABS Plastic (grey)
		4	
8	M4 x 16 Screws	12	3U caseframe
		28	6U caseframe
9	M4 x 25 SKT Cap Screws	16	3U caseframe
		20	6U caseframe
10	M4 x 8 Screws	4	
11	Rear Tie Bars and Tapped Strips	2	Aluminium alloy
		2	Mild steel and zinc passivate
12	Mid Rear Tie Bars and Tapped Strips (6U only)	1	Aluminium alloy
		2	Mild steel and zinc passivate

ACCESSORIES (not supplied in kit)

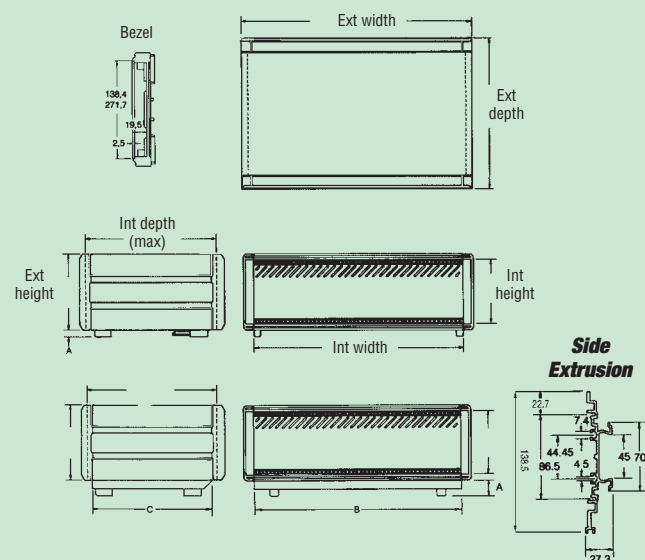
13	Guides	Order Separately
Finish	Textured electrostatic epoxy	
Colours	Top, bottom and side infill covers	Light grey BS4800-00A01.
	All other parts	Mid grey BS 4800 00A05



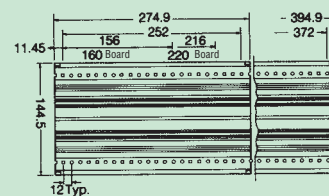
DIPLOMAT caseframes



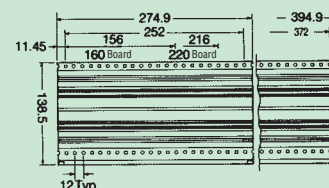
Standard caseframes



3U Side Extrusion
324mm Units 444mm Units



6U Side Extrusion
324mm Units 444mm Units



DIPLOMAT Caseframes 3U and 6U horizontal versions

Horizontal DIPLOMAT Caseframes are available in standard, basic and fan plinth versions.

The standard version includes front and rear tie bars, tapped strips and all relevant fixing screws. The basic version does not contain any tie bars and consists of top and bottom covers, bezels, side extrusions, feet and fixings.

STANDARD CASES – supplied assembled

Contents of kit

Description	Qty	Material/Finish
Top cover	1	0.9mm Zintec covers, coated steel
Bottom cover	1	0.9mm Zintec covers, coated steel
Bezels	2	Aluminium alloy
Handle extrusions	2 with 3U 4 with 6U	Aluminium alloy
Side infill covers (6U only)	2	0.9mm Zintec covers, coated steel
Feet (2 tilting)	4	ABS plastic
Exclude for basic versions		
Rear tie bars (3U)	2	Aluminium alloy
Rear tie bars (6U)	3	Aluminium alloy
Front bezel trims	2	Aluminium alloy
KMG-II front tie bars	2	Aluminium alloy
Tapped strips	4 – 6	Mild steel zinc and passivate
Screw kit		

Note: Rear panels and front trims should be ordered separately.

DIPLOMAT CASEFRAMES – STANDARD CASES

Ordering information

	External		Internal			
Height	Width	Depth	Height	Width	Depth	Order code
3U (160,35)	42 HP	324	3U (133,35)	42 HP	279	717-236546
	60 HP	324	3U (133,35)	60 HP	279	717-236547
	84 HP	324	3U (133,35)	84 HP	279	717-236548
	84 HP	444	3U (133,35)	84 HP	399	717-236549
6U (293,70)	60 HP	324	6U (266,70)	60 HP	279	717-236550
	84 HP	324	6U (266,70)	84 HP	279	717-236552
	84 HP	444	6U (266,70)	84 HP	399	717-236553

DIPLOMAT CASEFRAMES – BASIC CASES (excludes front and rear tie bars)

Ordering information

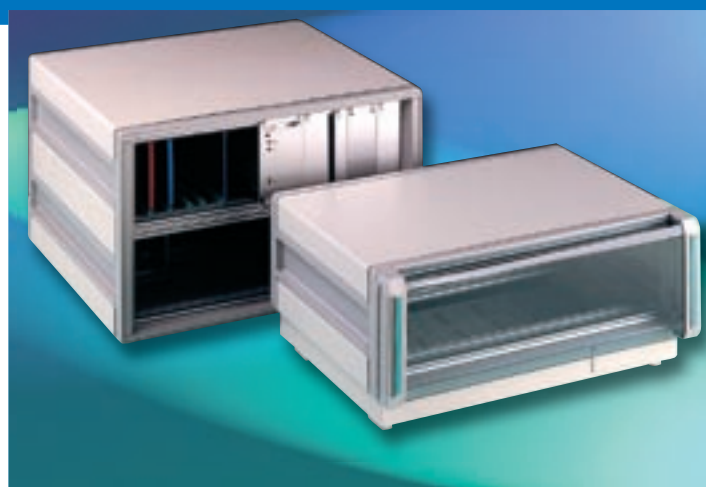
	External		Internal			
Height	Width	Depth	Height	Width	Depth	Order code
3U (160,35)	42 HP	324	3U (133,35)	42 HP	279	717-238220
	60 HP	324	3U (133,35)	60 HP	279	717-238221
	84 HP	324	3U (133,35)	84 HP	279	717-238222
	84 HP	444	3U (133,35)	84 HP	399	717-238223
6U (293,70)	84 HP	444	6U (266,70)	84 HP	399	717-238226

DIPLOMAT CASEFRAMES – BASIC CASES WITH VENTILATION PLINTH

(excludes front and rear tie bars)

Ordering information

	External			Internal			
Height	Width	Depth	Height	Width	Depth	A	Order code
3U (160,35)	84 HP	444	3U (133,35)	84 HP	399	16	717-238228
6U (293,70)	84 HP	444	3U (266,70)	84 HP	399	16	717-238229
	84 HP	564	6U (266,70)	84 HP	519	16	717-238230



DIPLOMAT Caseframes 3U & 6U horizontal versions

Order separately

Product	Page
EMC conversion kits	31 – 32
EMC front panels – individual	33
EMC closing panels	34
Transparent front doors	35
Feature front panels	35
Front and rear bezel trims	36
Heavy duty carry handles	36
Earth continuity kits	36
Steel rear panels	37
Fan panel accessories	38
Rear cable tidy	38
Rear bump down feet	38
Front tie bars	39
Rear backplane mounting tie bars	40
Rear DIN 41612 connector mounting tie bars	41
DIN 41612 connector mountings	42
Backplane spacers	42
PCB or plug-in unit guides	43
PCB grounding clips	44
PCB guide retention	44
PCB retainers and guide nose extensions	45
PCB ejectors	46
PCB handles	46
Front divider kits	47
Rear divider kits	47
Horizontal card mounting modules	48
Fixing screws	48
Front panel and plug-in unit index	49
Front panels and plug-in units	50 – 74

DIPLOMAT Caseframes: 3U vertical and fan plinth versions

DIPLOMAT CASEFRAMES - 3U VERTICAL BASIC CASES

The vertical DIPLOMAT caseframes are available in 3 widths and in two depths. They are supplied in basic assembly format i.e. with no tie bars, tapped strips, trims or rear panels, all of which can be ordered on pages 37 – 41 as accessories. These units are ideal for floor standing or desk top applications involving computer products or power supplies. Additional cooling can be applied to the units by simply ordering rear fan panels or conventional vented panels on page 37. As standard the vertical foot is supplied with rubber inserts to avoid any slippage on a desk surface.

Contents of kit

Description	Qty	Material/Finish
Side covers non vented	2	0.9mm Zintec coated steel
Bezels	2	Aluminium alloy
Foot kit	1	ABS plastic and aluminium alloy
Vertical infill panel	1	0.9mm Zintec coated steel
Screw kit		
Finish		Textured electrostatic epoxy paint
Colour: Side covers		Light grey BS4800-00A01
Front and rear bezels, side handles and extrusions, infills and feet		Mid grey BS4800-00A05

Ordering information

Height	External			Internal		Order code
	Width	Depth		Height	Width	
	42 HP	324	3U (133,35)	42 HP	279	717-238231
3U (160,35)	60 HP	324	3U (133,35)	60 HP	279	717-238232
	84HP	444	3U (133,35)	84HP	399	717-238234

DIPLOMAT CASEFRAMES - BASIC CASES WITH VENTILATION PLINTH

The plinth design for the DIPLOMAT caseframe ensures, that the air flow is distributed across the full width of the case and will be directed across the cards and up over the backplane.

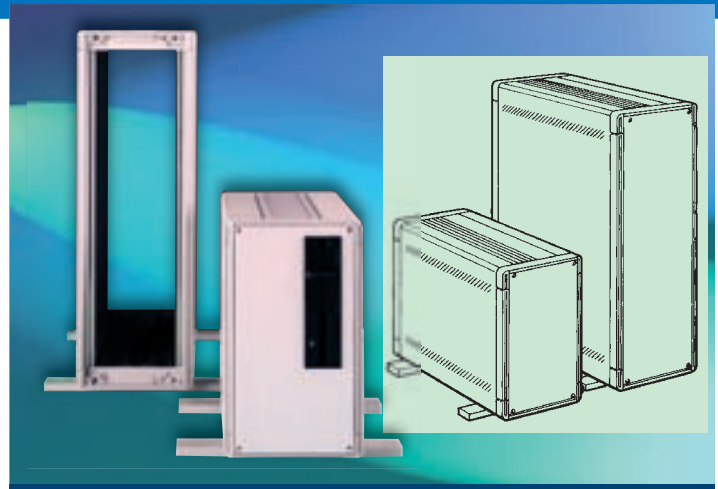
Typical air velocities as achieved in a fully loaded system are shown on the right and demonstrate the consistency of air flow even in slot 1 position where many hot cards will be placed. The three dimensional representation on page 3 shows in more detail the front to back air flow characteristics.

The fan plinth version also does not include any tie bars and tapped strips. These should be ordered as accessories from pages 39 – 41. All cases do not include a rear panel or trims, since there is a choice of rear panels and trims on page 37 which should be ordered as accessories.

Ordering information

Height	External			Internal		Order code
	Width	Depth		Height	Width	
3U (160,35)	84 HP	444	3U (133,35)	84 HP	399	717-238228
6U (293,70)	84 HP	444	6U (266,70)	84 HP	399	717-238229
	84 HP	564	6U (266,70)	84 HP	519	717-238230

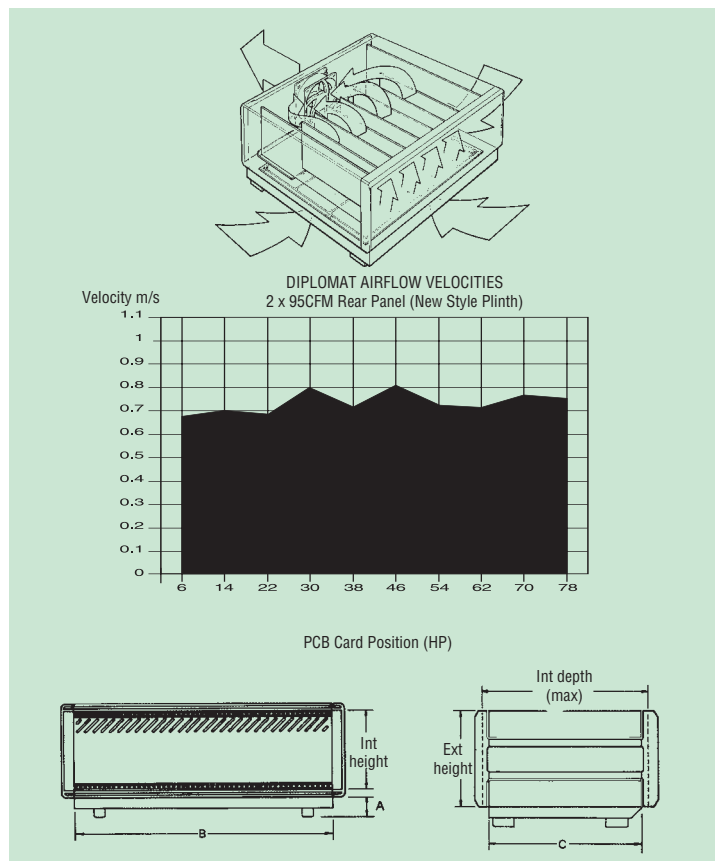
Please refer to pages 31 – 34 for EMC upgrade kits.



DIPLOMAT Caseframes 3U vertical versions



DIPLOMAT Caseframes fan plinth versions



DIPLOMAT Caseframe rear panel design area

19" CASEFRAME REAR PANELS

