Introduction

The Signature Desktop workstation is an industrial grade series of packaging elements. The design of these elements accommodates Symphony Enterprise Management and Control System human-system interface (HSI) components. HSI components include processors, keyboards, monitors and accessories. Accordingly, the Signature Desktop workstation shares many of the attributes and installation considerations typically associated with control room furnishings.

Space planning, servicing access, installation guidelines, signal and power wiring, and performance specifications are topics commonly considered in detail when furnishing a control center. This data sheet contains the information and specifications intended to assist in the evaluation and suitability analysis during the planning and layout phases of a new or remodeled control room. This includes a detailed list and description of the available components as well as sample arrangements to help in the planning and design of a control room equipped with Signature Desktop workstations.

Work Surfaces and Wedges

The base element is the work surface. It is available in 600, 1,200 and 1,800-millimeter (23.6, 47.2 and 70.9-inch) widths. The work surface provides space for the keyboards, pointing device (mouse or trackball), and documentation. The convenient dimensions provide for optimal height and reach distances to the HSI devices and documentation. Figure 1 shows a top view of the work surfaces.
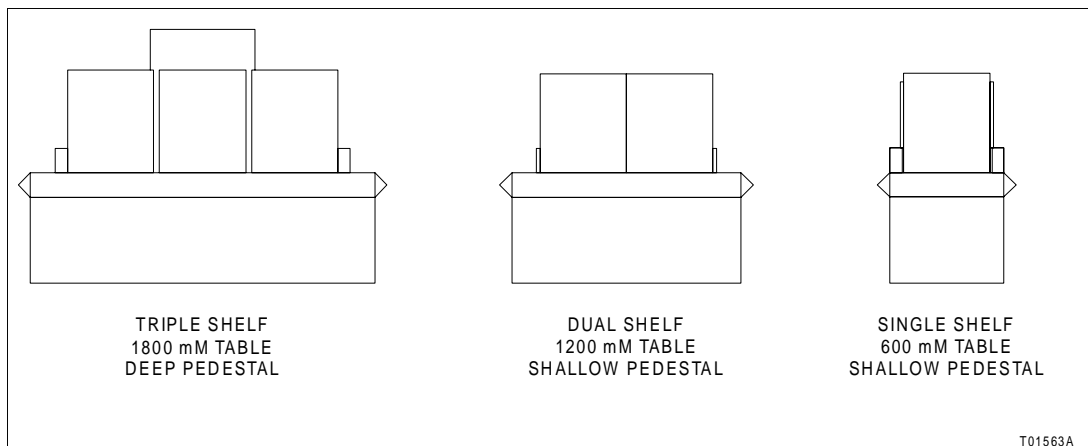


```
   TRIPLE SHELF          DUAL SHELF          SINGLE SHELF
  1800 mM TABLE        1200 mM TABLE         600 mM TABLE
  DEEP PEDESTAL      SHALLOW PEDESTAL     SHALLOW PEDESTAL
                                                      T01563A
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Figure 1. Work Surface Top Views

The work surfaces can be connected directly leg-to-leg for straight arrays or with angled wedges for curved arrays. The wedges come in 15-degree, 30-degree and 45-degree styles and can be combined to form various angles. Wireways are integral to all work surfaces and wedges. The wireways accommodate network, power and all additional cabling. Refer to Figure 2 for a top view of the wedges
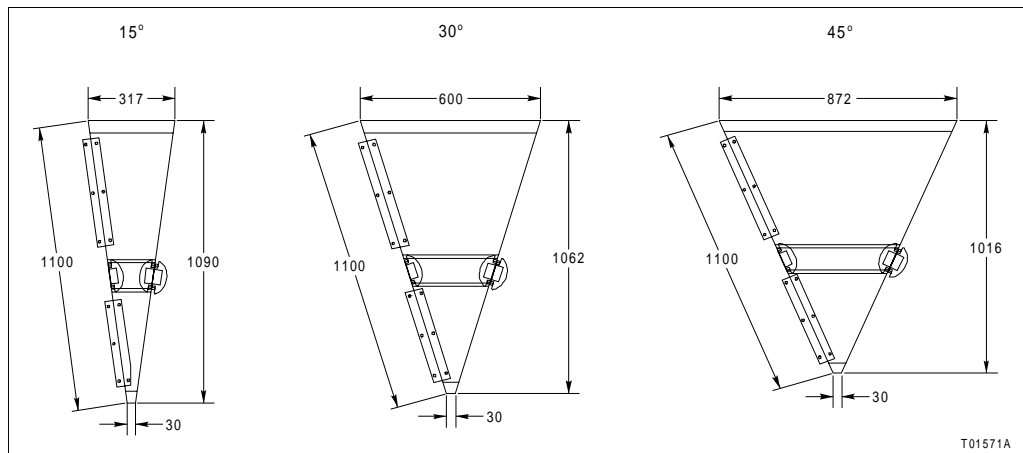

Figure 2. Wedge Top Views Showing Front and Rear Surfaces

Pedestal Processor Housing

The work surfaces are enhanced with housings for processors and support for monitors. The workstation has two variations: Pedestals and L-shape shelves. The L-shape shelf is discussed under *L-Shape Shelf Processor Housing*.

The pedestal consists of a base pedestal with a beam wireway. The pedestal is available for use with the 1,200-millimeter (47.2-inch) and 1,800-millimeter (70.9-inch) wide work surfaces and comes in four available configurations.

- 1,200-millimeter (47.2-inch) wide work surface with deep cover for one or two PC processors or three X-terminals.

- 1,200-millimeter (47.2-inch) wide work surface with shallow cover for one or two X-terminal processors.

- 1,800-millimeter (70.9-inch) wide work surface with deep cover for one or two PC processors or three X-terminal processors.

- 1,800-millimeter (70.9-inch) wide work surface with shallow cover for one PC processor or one or two X-terminal processors.

  Note: Deep covers can be used for one or two X-terminal processors. This would apply if planning for additional X-terminal processors in the future. Figure 3 shows these configurations.

Figure 4 shows a more detailed side view of the base pedestal and two possible configurations. The shallow cover version allows the use of one upright-enclosed PC processor or one or two X-terminals. The deep cover version provides space for either two PC processors or three X-terminals. The total number of X-terminal processors cannot exceed three. Table 1 provides the dimensions for the processor cavities inside the pedestal. The workstation comes with universal mounting plates that accommodate nearly all standard processors.
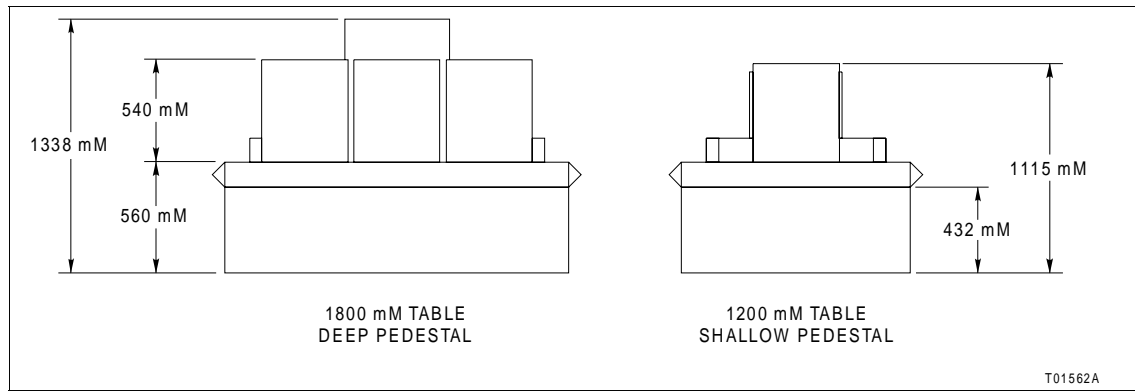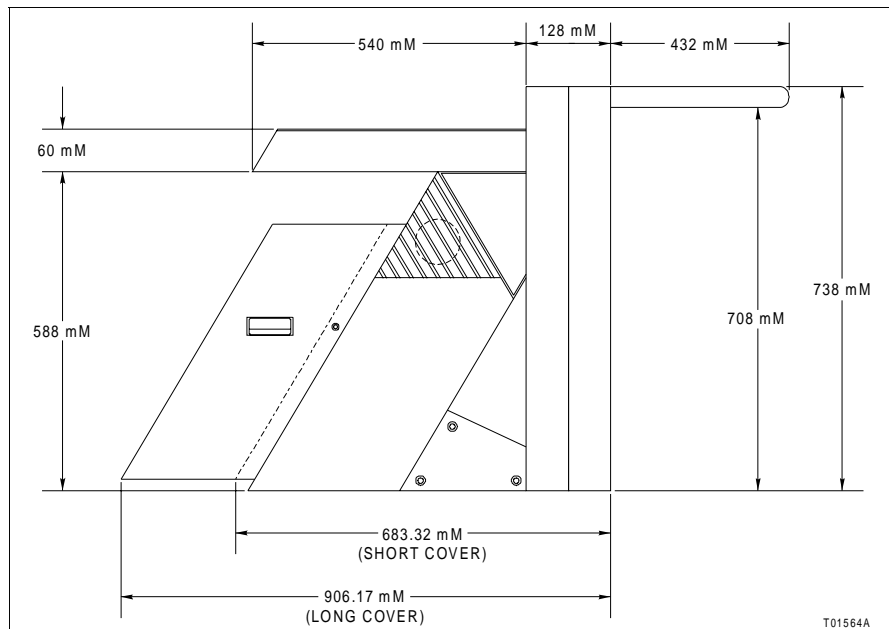
Figure 3. Pedestal Configuration Plan Views

Figure 4. Pedestal Configuration, Side View

Table 1. Pedestal Processor Cavity Dimensions

Cover	Width		Height		Depth	
	mm	in.	mm	in.	mm	in.
Shallow	476.3	18.75	161.9	6.38	254.9	10.0
Deep	476.3	18.75	161.9	6.38	431.8	17.0

The pedestal is always used in conjunction with the monitor shelves. A workstation with a 1,200-millimeter (47.2-inch) work surface accommodates one or two monitor shelves and a workstation with an 1,800-millimeter (70.9-inch) work surface accommodates up to three monitor shelves.

L-Shape Shelf Processor Housing

The L-shape shelf is a combined processor housing and monitor shelf (Fig. 5). It accepts one PC processor or X-terminal and supports one monitor on its upper surface. The work surfaces accept up to three L-shape shelves — one per each 600 millimeters (23.6-inches).

Figure 6 shows the L-shape shelf dimensions and a possible configuration. Table 2 lists the cavity dimensions of the L-shape shelf.
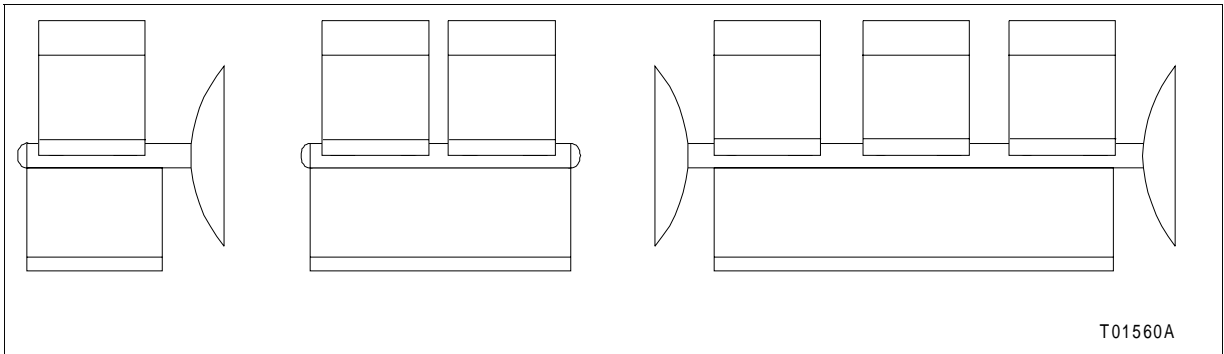

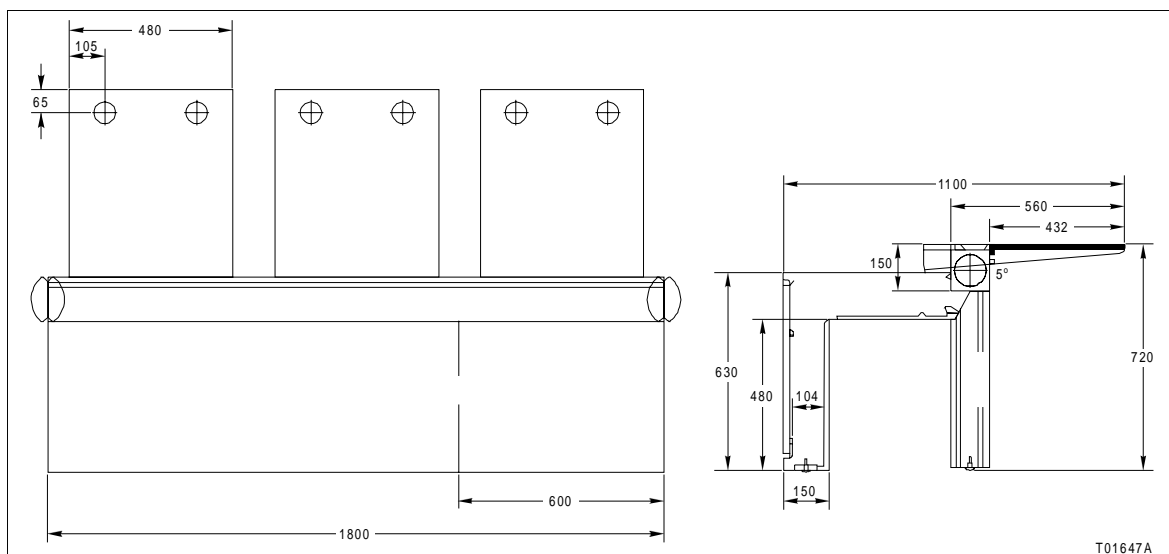**Figure 5.** L-Shape Shelf Configuration Examples

Figure 6. L-Shape Shelf Dimensions and Configuration

Table 2. L-Shape Shelf Cavity Dimensions

Cavity	Width		Height		Depth	
	mm	in.	mm	in.	mm	in.
Vertical processor part	430	16.9	90	3.5	500	19.7
Vertical part	410	16.1	410	16.1	90	3.5

All Signature Desktop workstation units, whether based on pedestal or L-shape shelves, can be interconnected via built-in work surface wireways. Wireways are also an integral feature of the wedges. This allows the arranging of components into large interconnected arrays as shown in Figure 7. Typically a single floor penetration will satisfy all the array cabling requirements.
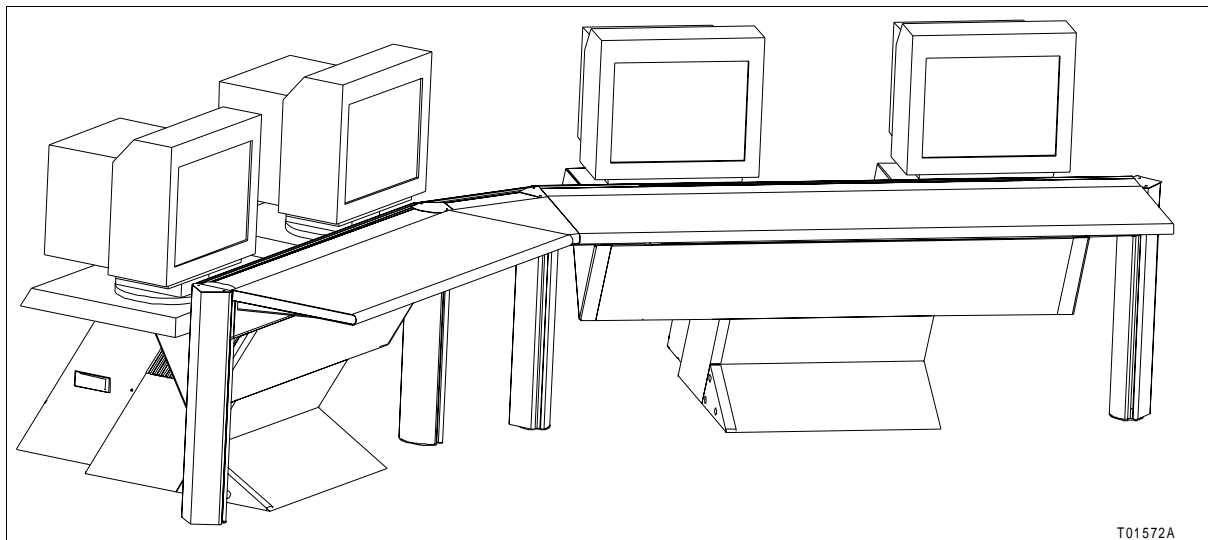
Figure 7. Array Example 1

Leg Caps and Printer Stand/Electronics Enclosure

The leg cap closes the legs that are not connected to another work surface or wedge. The leg caps come in three designs: Angled, curved and chord flex (Fig. 8). The chord flex leg cap has an adjustable design that allows the creation of angles without using wedges.

When a work surface is ordered with a chord flex leg cap, the wireway at the cap is longer so it can connect into the cap. This is only possible using the L-shape shelf processor housing. Using the discrete positions offered by the chord flex leg cap (Fig. 9), a number of angles are possible.
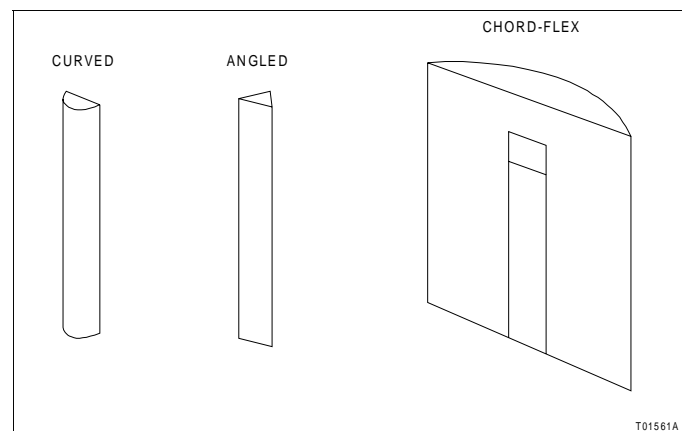

Figure 8. Leg Caps

The chord flex leg caps are often used with a printer stand/electronics enclosure. These components are mounted together to allow wiring connections between the processor and a printer. The printer stand/electronics enclosure can also be used to house a larger processor with additional backup hardware that must be placed close to the operator. Figure 10 shows an array that uses chord flex leg caps and pri?nter stand/electronics enclosures.
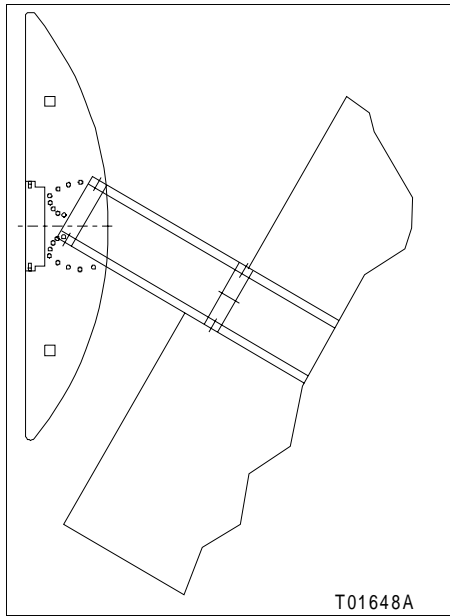
T01648A

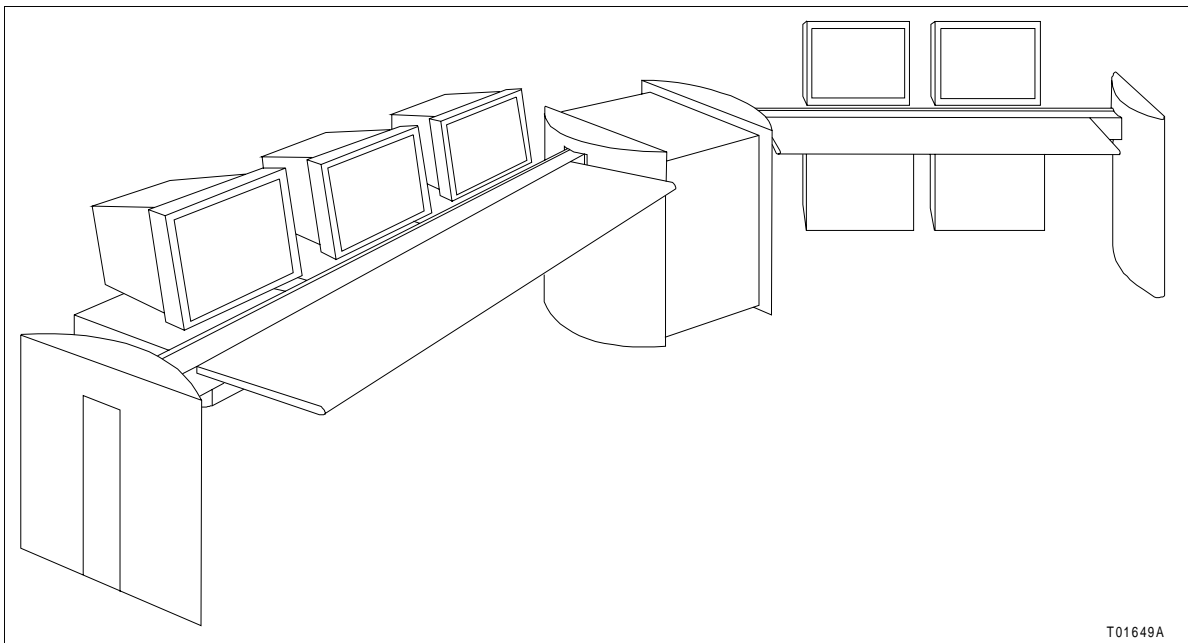**Figure 9.** Figure 9. Chord Flex Caps

T01649A

Figure 10. Array Example 2

Colors

The Signature Desktop workstation has a unique color scheme. Table 3 lists the color and laminate specifications.

Table 3. Color and Laminate Specifications

Color	Specification	Components
Light grey	RAL 7035	Pedestal, beam, monitor enclosure, L-shape shelf
Medium grey	RAL 7043	Wireway cover, monitor bezel
Signal blue	RAL 5005	Accent color
Blue Morraine	Wilsonart™ International	Plastic laminate

Configuration and Installation Guidelines

- Leg caps are used on stand-alone units and end legs of arrays. They are not required where units and wedges interconnect. The nomenclature is used to specify where leg caps are to be installed.

- Workstations are ordered fully assembled.

- It is recommended that all units be securely fastened to the floor.

Monitor Specifications

The monitor specifications listed in Table 4 are typical for the optional monitors detailed in the nomenclature. The monitors have colors that match the rest of the workstation. The typical specifications can be used to determine the compatibility of locally-supplied monitors.

Table 4. Monitor Specifications

Property	Characteristic/Value
Features	
Power saving	Built-in power saving function based on VESA-DPMS standard
On screen display (OSD)	Available in 5 languages to allow almost anyone to set up the picture
Self-test function	Provides diagnostics and troubleshooting
Ergonomic design	Low emission design to meet MPRII and TCO92 Electrostatic field (ESF) free coating on cathode ray tube (CRT)
Multiscan with digital technology	f_H = 30 to 95 kHz and f_V = 50 to 160 Hz; VGA 640 by 350, VGA 640 by 400, VGA 640 by 480, SVGA 800 by 600, SVGA 1,024 by 768, SVGA 1,152 by 870, SVGA 1,280 by 1,024, and SVGA 1,600 by 1,200 modes are applicable
Flat face and fine dot pitch	0.218-mm horizontal and 0.130-mm vertical
Superior display and functional performance	Dynamic focus High contrast Moire reduction circuit VESA/DOC1 and DDCZE compatible

Table 4. Monitor Specifications (continued)

Property	Characteristic/Value
Mechanical	
Dimensions	505 mm (19.9 in.) high by 487 mm (19.2 in.) wide by 519 mm (20.4 in.) deep
Net weight	28.5 kg (62.8 lbs)
Signal connectors	One 15-pin mini D-sub connector; Five BNC connectors
Power	
Input voltage	90 to 132 VAC; 198 to 264 VAC
Input frequency	47 to 53 Hz; 57 to 63 Hz
Input current	2.7 A max. (100 V)
Inrush current at 20°C (68°F)	40 A
Power consumption	160 W (typical)
Environmental	

Property	Operating	Storage
Temperature	0° to 40°C (32° to 104°F)	-20° to 60°C (-4° to 140°F)
Humidity	5 to 90% noncondensing	5 to 90% noncondensing
Altitude	3,000 m (10,000 ft) max.	12,000 m (40,000 ft) max.

Property	Characteristic/Value
Shock and vibration (nonoperational)	
Vertical	
Acceleration	2.9 m/s^2 (0.3 G)
Frequency	5 to 55 Hz
Sweep	120 sec
Horizontal	
Acceleration	
Frequency	
Sweep	
Shock	20 G one time for each face (6 faces)
Drop heights	Bottom: 50 cm (19.7 in.); All other faces: 31 cm (12.2 in.)
Regulatory standards	
Safety standards	UL1950, Listing CSA C22.2 No. 950, Product Specification TUV (EN60950, IEC950)/G5 (2H1) NORDIC (SEMKO, NEMKO, DEMKO, FIMKO)
X-ray standards	DHHS, 21CFR Subchapter 1 PTB, Approval HWC
EMC standards	VCCI Class 2 FCC part 15, Subpart B, class B DOC Class B CISPR22 Class (EN55022) CE Marking (EMI test pattern: white, full H characters, (9x14 dots), black (12x24 dots)
Others	Energy star program MPRII TCO92
Reliability	>55,000 hrs (demonstrated MTBF)

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

WBPEEUD220004B0

Signature Desktop Workstation

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
P	**-**	**M**	**F**	**-**	**S**	**D**	**T**	**-**	_	_	_	_	_	_	_	_	**Base Platform Nomenclature**
																	Pedestal Configuration[1]
									1	_	_	_	_	_	_	_	Signature pedestal for one PC
									2	_	_	_	_	_	_	_	Signature pedestal for two PCs
																	Monitor Quantity[2]
										0	_	_	_	_	_	_	None
										1	_	_	_	_	_	_	One
										2	_	_	_	_	_	_	Two
										3	_	_	_	_	_	_	Three[3]
																	Reserved for Future Use
											0	_	_	_	_	_	Enter Zero
																	Work Surface Width
												2	_	_	_	_	1,200 mm (47.2 in.)
												3	_	_	_	_	1,800 mm (70.9 in.)
																	Shelf Style[4]
													1	_	_	_	One straight shelf
													2	_	_	_	Two straight shelves
													3	_	_	_	Three straight shelves[4]
																	Leg Caps
														0	_	_	None
														1	_	_	Left side only
														2	_	_	Right side only
														3	_	_	Both left and right side
																	Color Selection
															1	_	Standard Symphony grey/blue
															2	_	Custom colors[5]
																	Assembly Options
																1	Factory assembled[4]

NOTES:
1. Processors are not included. Consult the appropriate Symphony literature for details concerning implementation with Conductor, Maestro, and Composer processors and associated products.
2. If a quantity of monitors is specified, 21-inch monitors using the matching color scheme of Signature Desktop will be delivered. No monitors are delivered if 0 is specified.
3. Requires 1,800-mm (70.9-in.) work surface (3 in nomenclature position 13).
4. Shelves are mounted in standard positions: One shelf is always in the left-most position, two shelves in the outer positions, and three shelves equally spaced. These positions can be changed at the customer site.
5. Requires special quotation.

Signature Desktop Wedge

1 2 3 4 5 6 7 8 9	10	11	12	13	14	15	16	17	
P - M F - S D W -	_	_	_	_	_	_	_	_	**Base Platform Nomenclature**
									Wedge Options
	1	_	_	_	_	_	_	_	15° wedge (front work surface only)
	2	_	_	_	_	_	_	_	30° wedge (front work surface only)
	3	_	_	_	_	_	_	_	45° wedge (front work surface only)
									Color Options
		1	_	_	_	_	_	_	Standard Symphony grey/blue
		2	_	_	_	_	_	_	Custom colors (requires special quotation)
									Reserved for Future Use
			0	0	0	0	0	0	Enter Zeros

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