

# *chapter* 1

## PRODUCT DESCRIPTION

This chapter describes the model offerings and features of the Compaq Deskpro EN Series of Personal Computers.



Throughout this guide, **Revised Configuration** refers to all models produced after May 17, 1999.



*Compaq Deskpro EN Series of Personal Computers*

## 1.1 Model Overview

The Compaq Deskpro EN Series of Personal Computers is available in configurations described in the following sections.

<b>Original vs Revised Configuration</b>				
<b>Configuration</b>	<b>System Board Spares</b>	<b>Chipset</b>	<b>NIC</b>	<b>Graphics</b>
Original	162857-001	Intel 440 BX	Intel 10/100	ATI Rage Pro Turbo AGP 1X ATI Rage Pro Turbo AGP 2X
Revised	117740-001	Intel 810	Intel PRO/100+	Embedded Intel 3D Direct AGP
	158750-001	Intel 820	Intel PRO/100+	Matrox G400 AGP ELSA Synergy II AGP
	162857-001	Intel 440 BX	Intel PRO/100+	ATI Rage Pro Turbo AGP 1X ATI Rage Pro Turbo AGP 2X

## 1.2 System Design

This section presents a design overview and functional descriptions of the key components of the Compaq Deskpro EN Series of Personal Computers. All replaceable components are identified in Chapter 2, and removal and replacement instructions are presented in Chapters 4 and 5.

## 1.2.1 Desktop Design Overview

The desktop models of the Compaq Deskpro EN Series of Personal Computers use a highly serviceable chassis to house the slide-out system board, expansion card cage, power supply, and mass storage devices. The expansion card cage houses the expansion card.

All internal components are accessible when the cover with its integrated front bezel is removed. The cover assembly is attached to the chassis with Quick Release Cover Latches; no tools are required to remove the cover assembly.

The system board is easily removed from the chassis after the cover is removed and the expansion card cage is raised by lifting a pair of top-mounted green levers. Once the system unit cover has been removed and the expansion card cage raised, there is no need to remove any other component to access the system board. Details of the disassembly procedure are found in Chapter 4, "Removal and Replacement Procedures."

The tilt drive cage is located on the right side of the chassis, directly in front of the power supply. Tilting the cage allows full service access to the rear of the drives without the need for any tools. The drive cage accommodates one side-mounted internal hard drive and provides three bays for external access drives.

The drive cage allows drive installation without the use of rails. Two screws on each side of the drive are used as guides, and drive release latches are used to secure the drives into the bays. Extra guide screws (standard and metric thread) are provided on the front of the chassis, to the left of the drive cage for use when installing additional drives.

The expansion card cage with the riser board mounts at a right angle to the system board. The riser board is secured to the expansion board cage with three screws. Expansion boards are installed at a right angle into the riser board. A single screw secures each expansion board to the expansion board cage.

The power supply is mounted in the right rear corner of the chassis. Embedded clips located on the bottom of the power supply engage cutouts in the floor of the chassis. The power supply is held in place by three screws that are installed through the rear panel of the chassis.

## 1.2.2 Minitower Design Overview

The minitower models of the Compaq Deskpro EN Series of Personal Computers use a highly serviceable chassis to house the slide-out system board, expansion board cage, power supply, and mass storage devices. The expansion board cage houses the expansion boards.

All internal components are accessible when the access panel and the front bezel are removed. The access panel is attached to the chassis with three easily removed thumb screws and the front bezel is attached with tabs.

The system board is easily removed from the chassis after the access panel is removed, the computer is turned on its side, and the expansion board cage is raised by lifting a pair of top-mounted green levers. Once the access panel has been removed and the expansion board cage raised, there is no need to remove any other component to access the system board. Details of the disassembly procedure are found in Chapter 5, "Removal and Replacement Procedures."

The drive cage is located at the top of the chassis, accommodates one internal hard drive, and provides four bays for external access drives.

The drive cage allows drive installation without the use of rails. Two screws on each side of the drive are used as guides, and drive release latches are used to secure the drives into the bays. Extra guide screws (standard and metric thread) are provided on the front of the chassis for use when installing additional drives.

The expansion board cage with the riser board mounts at a right angle to the system board. The riser board is secured to the expansion board cage with three screws. Expansion boards are installed at a right angle into the riser board. A single screw secures each expansion board to the expansion board cage.

The power supply is mounted in the top rear of the chassis. It is supported by built-in latches and held in place by three screws that are installed through the rear panel of the chassis.

## 1.3 Preinstalled Software

The computer is shipped with Microsoft Windows 95, Windows 98, or Windows NT 4.0 installed as the operating system, depending on the model.

The following Compaq software is preloaded on the computer:

- ROM-based Computer Setup\*
- Compaq Diagnostics for Windows\*
- Compaq Support Software and device drivers\*
- Online *Compaq Safety & Comfort Guide* (English only)
- Power Management with Energy Saver features\*
- Security Management\*
- Remote Management Tools\*



\* Part of Intelligent Manageability

### 1.3.1 Ordering Additional Software

If you plan to run any of the following operating systems on the computer, you must install the corresponding Compaq device drivers and utilities before attempting to use the computer:

- IBM OS/2
- NetWare
- A version of Microsoft Windows or Windows NT that is different from the version included with the computer

There are two methods to order copies of suitable device drivers and utilities:

- Order the *Support Software CD for Compaq Desktop, Portables, and Workstation Products*. This compact disc contains the latest device drivers, utilities, and flashable ROM images needed to run MS-DOS, Windows 3.1, Windows 95, Windows NT Workstation 3.51, IBM OS/2, and NetWare on the Compaq commercial desktop product.
- Download the software from the Compaq World Wide Web site ([www.compaq.com](http://www.compaq.com)).

The *Support Software CD* can be purchased in either of two ways:

- A single CD-ROM that gives one-time access to the latest support software (North America only).
- A yearly subscription that delivers up to 12 monthly CD-ROMs and provides continuous access to the latest developments.

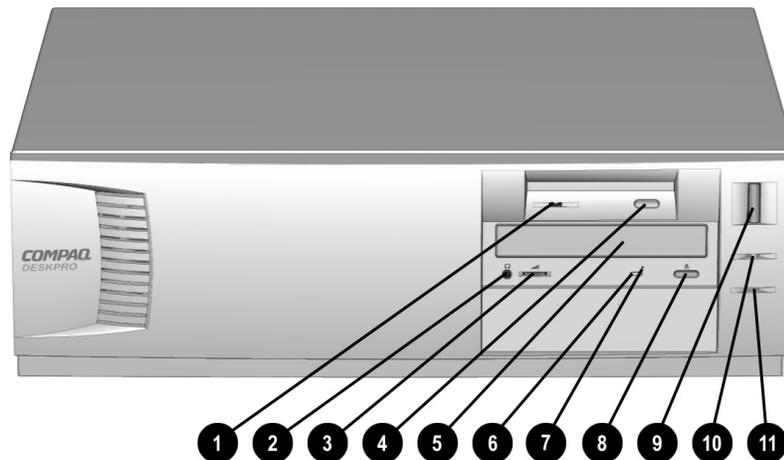


When calling Compaq to place an order, be sure to have the serial number of the computer available. The location of the serial number is shown in Section 1.8. This number is necessary for all purchases.

## 1.4 Desktop Computer Features

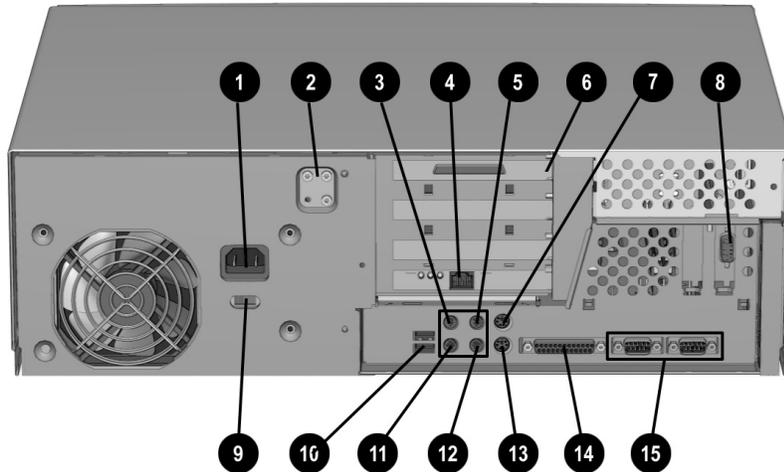
The Compaq Deskpro EN Series of Personal Computers ships with a mouse and keyboard. A Compaq color monitor or other compatible monitor, which is also required to operate the computer, does not ship with the computer.

### 1.4.1 Front Panel Controls and LEDs – All Configurations



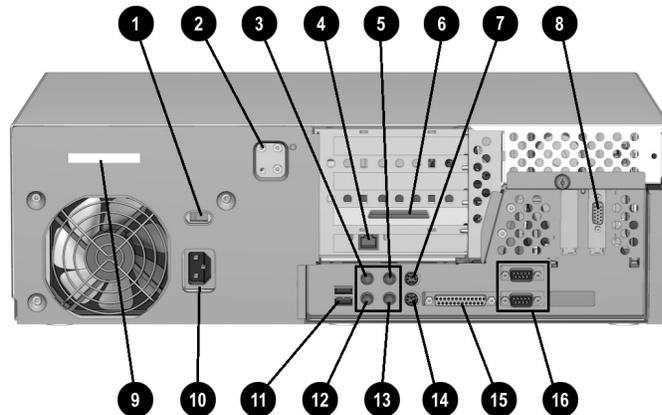
- ❶ Diskette Drive Activity Light—illuminates when the diskette drive is reading or writing.
- ❷ CD-ROM Headphone Jack
- ❸ CD-ROM Headphone Volume Control
- ❹ Diskette Eject Button
- ❺ CD-ROM Tray
- ❻ CD-ROM Emergency Eject Socket
- ❼ CD-ROM Drive Activity Light—illuminates when the CD-ROM drive is reading information from the compact disc.
- ❽ CD-ROM Eject Button
- ❾ Dual-State Power Button
- ❿ Power-On Light—illuminates when the computer is turned on and blinks (optional) in Energy Saver Mode.
- ⓫ Drive Activity Light— flashes when an ATAPI device, such as the hard drive, is active.

## 1.4.2 Rear Panel Connectors – Original Configuration



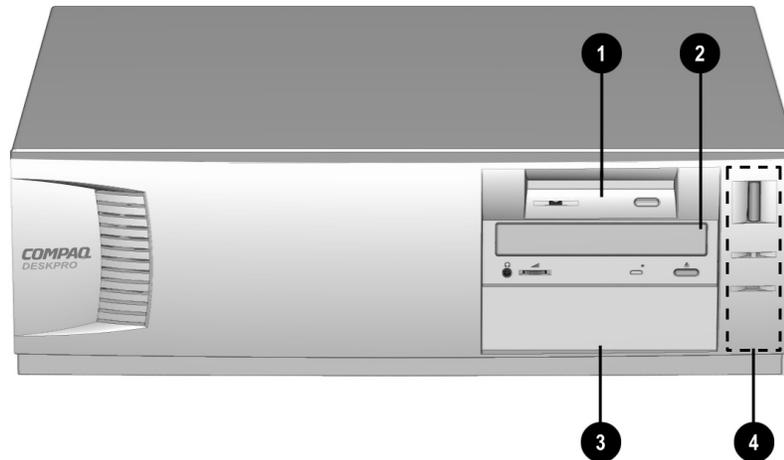
- ❶ Power Cord Connection
- ❷ Smart Cover Lock
- ❸ Microphone Connector
- ❹ Ethernet RJ-45 Connector (some models available without a NIC)
- ❺ Line-In Audio Connector
- ❻ Wide UltraSCSI Connector (select models)
- ❼ Mouse Connector
- ❽ Monitor Connector
- ❾ Voltage Select Switch (115V or 230V to match geographical requirements)
- ❿ Universal Serial Bus (USB) Connectors
- ⓫ Headphone Connector
- ⓬ Line-Out Connector
- ⓭ Keyboard Connector
- ⓮ Parallel Port Connector
- ⓯ Serial Connectors
- ⓰

### 1.4.3 Rear Panel Connectors – Revised Configuration



- ❶ Voltage Select Switch (115V or 230V to match geographical requirements)
- ❷ Smart Cover Lock
- ❸ Microphone Connector
- ❹ Ethernet RJ-45 Connector (some models available without a NIC)
- ❺ Line-In Audio Connector
- ❻ Wide UltraSCSI Connector (select models)
- ❼ Mouse Connector
- ❽ Monitor Connector (For units with system board 117740-001, the Monitor Connectors are located to the right of the Serial Connectors.)
- ❾ Product ID Label
- ❿ Power Cord Connection
- ⓫ Universal Serial Bus (USB) Connectors
- ⓬ Headphone Connector
- ⓭ Line-Out Connector
- ⓮ Keyboard Connector
- ⓯ Parallel Port Connector
- ⓰ Serial Connectors

## 1.4.4 Drive Position – All Configurations



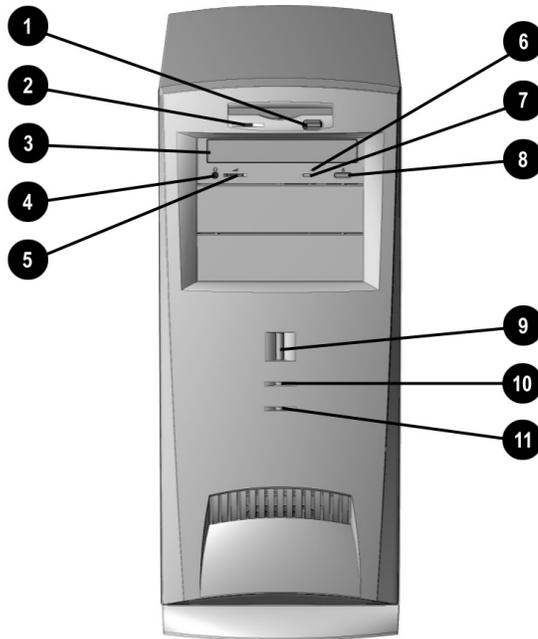
- ❶ Standard 3.5-inch 1.44-MB diskette drive
- ❷ Optional 5.25-inch CD-ROM drive (half-height) (standard on some models)
- ❸ Optional 5.25-inch drive (half-height)
- ❹ Standard 3.5-inch internal hard drive

To verify the type, size, and capacity of the mass storage devices installed in the computer, run the View System Information (INSPECT) utility available at computer startup.

## 1.5 Minitower Computer Features

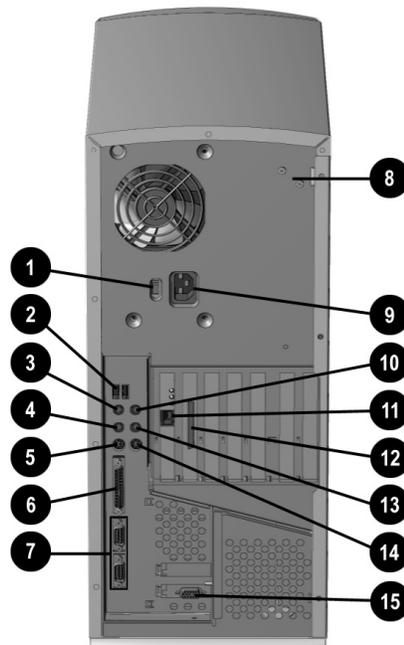
The Compaq Deskpro EN Series of Personal Computers ships with a mouse and keyboard. A Compaq color monitor or other compatible monitor, which is also required to operate the computer, does not ship with the computer.

### 1.5.1 Front Panel Controls and LEDs – All Configurations



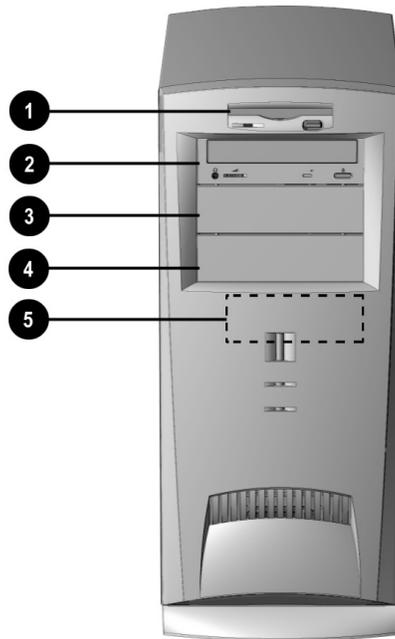
- ❶ Diskette Eject Button
- ❷ Diskette Drive Activity Light—illuminates when the diskette drive is reading or writing.
- ❸ CD-ROM Drive Tray
- ❹ Stereo Headphone Jack
- ❺ Headphone Volume Control
- ❻ CD-ROM Emergency Eject Socket
- ❼ CD-ROM Drive Activity Light—illuminates when the CD-ROM drive is reading information.
- ❽ CD-ROM Eject Button
- ❾ Dual-State Power Button
- ❿ Power-On Light—illuminates when the computer is turned on and blinks (optional) in Energy Saver Mode.
- ⓫ Drive Activity Light— flashes when an ATAPI device, such as the hard drive, is active.

## 1.5.2 Rear Panel Connectors – Original Configuration



- ❶ Voltage Select Switch (115V or 230V to match geographical requirements)
- ❷ Universal Serial Bus (USB) Connectors
- ❸ Headphone Connector
- ❹ Line-Out Audio Connector
- ❺ Keyboard Connector
- ❻ Parallel Port Connector
- ❼ Serial Connectors
- ❽ Smart Cover Lock
- ❾ Power Cord Connector
- ❿ Microphone Connector
- ⓫ Ethernet RJ-45 Connector (some models available without a NIC)
- ⓬ Wide UltraSCSI Connector (select models)
- ⓭ Line-In Audio Connector
- ⓮ Mouse Connector
- ⓯ Monitor Connector

### 1.5.3 Drive Position – Original Configuration



- ❶ Standard 3.5-inch 1.44-MB diskette drive
- ❷ 5.25-inch CD-ROM drive (half-height) (standard on some models)
- ❸ Optional 5.25-inch drive (half-height)
- ❹ Optional 5.25-inch drive (half-height)
- ❺ Standard 3.5-inch internal hard drive

To verify the type, size, and capacity of the mass storage devices installed in the computer, run the View System Information (INSPECT) utility available at computer startup.

## 1.6 Serial Number Location

Provide the computer serial number to Compaq when requesting information or ordering spare parts. The serial number is displayed on the top of the system unit cover at the right front corner and also on the rear of the computer.



*Serial Number Locations*