Technical Specifications

HP E22 G5 FHD Monitor

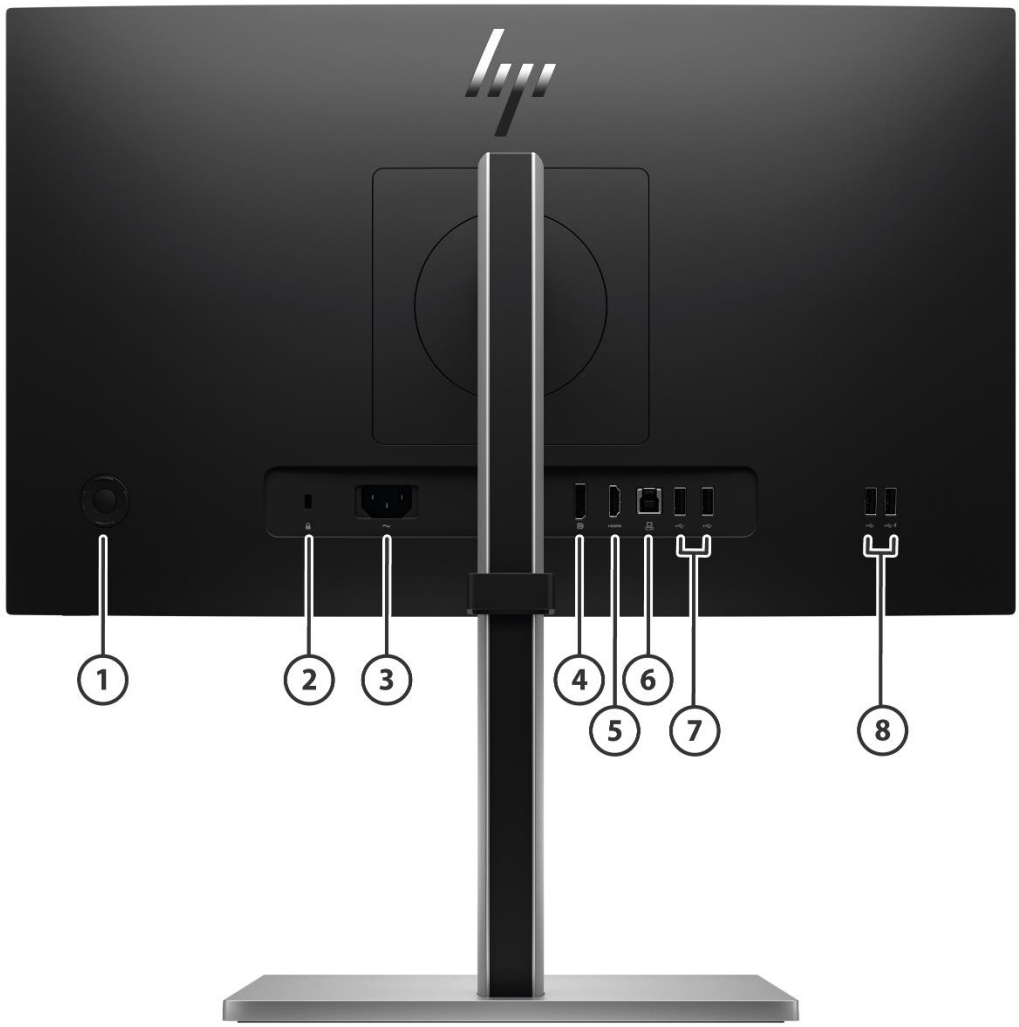
Front

1. Power Button

2. LED Power

Technical Specifications

HP E22 G5 FHD Monitor



Back

1. Joypad OSD button
2. Security Cable Slot
3. Power Connector
4. DisplayPort™ 1.2
5. HDMI 1.4 Port
6. USB-B Port
7. SuperSpeed USB Type-A 5Gbps signaling rate (2)
8. SuperSpeed USB Type-A 5Gbps signaling rate (2) 1 charging

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Model: 6N4E8AA

Panel Specifications	**Display Size (Diagonal)**	21.5 inch (54.6 cm)
	Viewable Diagonal Size	21.5 inch (54.621 cm)
	Panel Technology	IPS
	Max Refresh Rate	75Hz
	Native Resolution	FHD (1920 x 1080)
	Panel Bit Depth	8 bit (6 bit + FRC)
	Aspect Ratio	16:9
	Brightness (Typical)	250 nits
	Contrast Ratio (Static)	1000:1
	Dynamic Contrast Ratio	8M:1
	Flicker Free	Yes
	Pixel Pitch	0.25 x 0.25 mm
	Pixels Per Inch (PPI)	102 PPI
	Display Colors	Up to 16.7 million colors supported* *Number of colors through A-FRC technology.
	Backlight Lamp Life Minimum (To Half Brightness - In Hours)	30k
	Backlight Type	Edge-lit
	Screen Treatment	Anti-glare
	Hardness	3H
	Haze	25%
	Response Time (Typical)	5ms GtG (with overdrive)
	Horizontal Viewing Angle (Typical Cr>10)	178°
	Vertical Viewing Angle (Typical Cr>10)	178°
	Panel Active Area Metric (W X H)	47.61 x 26.78 cm
	Panel Active Area Imperial (W X H)	18.74 x 10.54 in
	NOTE: Performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.	
Color	**sRGB**	99%
Color Management	**Color Space/ Subsampling Support**	RGB 4:4:4, YCBCR 4:4:4, YCBCR 4:2:2
	RGB Channel Adjust	Yes, Gain
	Default Color Temperature	Neutral (6500K)
Monitor Specifications	**Bezel Type**	3-sided borderless
	Color Of Stand	Black & Silver
	Color Of Head	Black
	Tilt	Yes, -5~+23°
	Swivel	±45°
	Pivot	±90°
	Height Adjust Range	150 mm
	Vesa Mounting	100 mm x 100 mm
	Security Lock	Security lock-ready
	Detachable Stand	Yes

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	Warranty	3/3/0 for AMS, EMEA, APJ (3/3/3 in select APJ countries)
	Low Blue Light	Yes, HP Eye Ease (TÜV Low Blue Light Hardware Solution certified)
	Management Software	HP Display Center, HP Display Manager* *Host PC requires Windows 10 and above. HP Display Center is available on the Microsoft store.
On Screen Display (OSD)	**On Screen Display**	Brightness+, Color, Input, Image, Power, Menu, Management, Information, Exit
	Native Resolution	FHD (1920 x 1080)
	Maximum Resolution	FHD (1920 x 1080 @ 75 Hz)
	Preset Graphic Modes/Supported Resolutions	640 x 480 @ 60Hz 640 x 480 @ 75Hz 720 x 400 @ 70 Hz 800 x 600 @ 60 Hz 800 x 600 @ 75 Hz 1024 x 768 @ 60 Hz 1024 x 768 @ 75 Hz 1280 x 720 @ 50 Hz 1280 x 720 @ 60 Hz 1280 x 800 @ 60 Hz 1280 x 1024 @ 60 Hz 1280 x 1024 @ 75 Hz 1440 x 900 @ 60 Hz 1600 x 900 @ 60 Hz 1680 x 1050 @ 60 Hz 1920 x 1080 @ 50 Hz 1920 x 1080 @ 60 Hz 1920 x 1080 @ 75 Hz
	Minimum Vertical Scan Rate	50 Hz
	Maximum Vertical Scan Rate	75 HZ
	Minimum Horizontal Scan Rate	30.0 kHz
	Maximum Horizontal Scan Rate	86.0 kHz
	Maximum Pixel Clock	180.0 MHz
	User Programmable Modes	Yes, 18.
	User-Assignable Function Buttons	Yes, 4 (6 options)
	Languages	11 (English, Spanish, German, French, Italian, Netherlands, Portuguese, Japanese, T-Chinese, S-Chinese and Russian)
Connector Types	**DisplayPort™**	1 DisplayPort™ 1.2
	HDMI	1 HDMI 1.4
	HDCP	Yes, DisplayPort™ and HDMI
	USB- A	4 SuperSpeed USB Type-A 5Gbps signaling rate (1 charging)
	USB-B (Hub enablement)	1 USB-B

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Special Features	**SWITCH**	Monitor Power button Next Active Input/ Up button Information / Down button Brightness / Left button Color / Right button Menu / Enter button
	User Presets	18
	User Updateable Firmware	Yes
Power & Operating Specs	**Power Supply**	Internal
	Power Source	100-240VAC 50/60 Hz
	Power Consumption- Max	50W
	Energy Saving/Stand By Mode	0.5W
	Power Consumption - Typical	20W
Energy Star Data	**Operational Mode at 100 VAC**	11.6W
	Operational Mode at 115 VAC	11.57W
	Operational Mode at 230 VAC	11.64W
EU Energy Efficiency Class (ErP LOT-5)	**On-mode Power Consumption for Standard Dynamic Range (SDR)**	13W
	ErP LOT5 Energy Efficiency Class for Standard Dynamic Range (SDR)	
Operating Conditions	**Operating Temperature - Celsius**	5° – 35°C
	Operating Temperature - Fahrenheit	41° – 95°F
	Non-Operating Temperature - Celsius	–40° – 65°C
	Non-Operating Temperature - Fahrenheit	-40° – 149°F
	Operating Humidity	20 – 80% Relative Humidity (non-condensing)
	Non-Operating Humidity	5 – 95%
	Operating Altitude	0 – 5,000 m (16,400 ft.)
	Non-operating Altitude	0 – 12,192 m (40,000 ft.)
Certifications and Compliances	**Low Halogen**	Yes* *External power supplies, WWAN modules, power cords, cables and peripherals excluded.
	Agency Approvals and Certifications	CE,CB,KC/KCC/NOM/PSB/PSE/ICE/TUV-S/ISO 9241-307/cTUVus/GS/ISC/CCC/CEL/CECP/SEPA/TCO/TCO Certified Edge/Hardware Low Blue Light/Energy Star/ Korea MEPS /EAC/VCCI/FCC/BSMI/BIS/NRCS/UAE/Ukraine/Vietnam MEPS/Australian-New Zealand MEPS/Ukraine EE/WEEE/TGM
	Microsoft WHQL Certification	Win 11 (x64 only), Win 10 (x64 only)
	ENERGY STAR® Certified	Yes
	EPEAT® Registered	EPEAT® Gold in United States*
	Regions need to verify by country	

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		*Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit http://www.epeat.net for more information.
	China Energy Label	CEL Grade 1
	TCO Certified Edge	Yes
	TCO Certified	Yes
	SmartWay Transport Partnership - NA only	Yes (NA sku)
Contains Recycled Plastics	**Contains Recycled Plastics**	Contains Ocean-Bound Plastic*, 80% ITE-derived closed loop plastic** * All plastic parts contain ocean-bound plastic. Percentage of ocean-bound plastic contained in each component varies by product. ** ITE Derived Closed Loop Plastic percentage is based on the definition set in the IEEE 1680.1-2018 standard.
	Recycled Metal	At least 25% recycled metal* *Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.
	Recyclable Packaging (Box, packing materials)	Outside Box and corrugated cushions are 100% sustainably sourced and recyclable* Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable** *100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers. ** Molded pulp cushions are made from 100% recycled wood fiber and organic materials.

		Metric	**Imperial**
Unit Product/Package Specifications	**Product Dimensions** (Unpacked with stand) (W x D x H)	48.87 x 21.1 x 49.295 cm	19.24 x 8.31 x 19.407 inch
	Product Dimensions (Packed) (W x D x H)	57.1 x 14.0 x 36.3 cm	22.48 x 5.51 x 14.29 inch
	Display Head Dimensions (Unpacked without stand) (W x D x H)	48.87 x 4.60 x 29.39 cm (w/o hinge) 48.87 x 7.52 x 29.39 cm (w/ hinge)	19.24 x 1.81 x 11.57 inch (w/o hinge) 19.24 x 2.96 x 11.57 inch (w/ hinge)
	Base Area Footprint (w x d mm)	242 x 187 mm	9.53 x 7.36 inch
	Bezel Measurements	Bottom: 18.21 mm	Bottom: 0.72 inch
	Product Weight (Unpacked with stand)	4.9 kg	10.8 lb
	Product Weight (Packed)	6.8 kg	15.0 lb
	Product Weight (Head Only)	3.3 kg (w/ hinge) 2.9 kg (w/o hinge)	7.3 lb (w/ hinge) 6.4 lb (w/o hinge)
Pallet Information	**Pallet Dimensions** (L x W x H mm)	Slip Sheet: 1139 x 719 x 2187 mm	Slip Sheet:

		(20' ft & 40' ft) Slip Sheet: 1139 x 719 x 2187 mm (40HQ) Pallet: 1139 x 719 x 1955 mm (20' ft & 40' ft) Pallet: 1139 x 719 x 2318 mm (40HQ)	44.84 x 28.31 x 86.10 inch (20' ft & 40' ft) Slip Sheet: 44.84 x 28.31 x 86.10 inch (40HQ) Pallet: 44.84 x 28.31 x 76.97 inch (20' ft & 40' ft) Pallet: 44.84 x 28.31 x 91.26 inch (40HQ)
	Pallet Total Weight	Slip Sheet: 411.82 kg (20' ft & 40' ft) Slip Sheet: 411.82 kg (40HQ) Pallet: 357.04 kg (20' ft & 40' ft) Pallet: 425.04 kg (40HQ)	Slip Sheet: 907.91 lb (20' ft & 40' ft) Slip Sheet: 907.91 lb (40HQ) Pallet: 787.14 lb (20' ft & 40' ft) Pallet: 937.05 lb (40HQ)
	Pallet Layers	6 layers per slip sheet 5 layers or 6 layer per pallet	
	Pallet Product per Layer	10 per layer (slip sheet) 10 per layer (pallet)	
	Total Products per Pallet	60 sets per slip sheet 50 sets or 60 sets per pallet	
	Container Load, 20-Foot	960 sets (slip sheet) 800 sets (pallet)	
	Container Load, 40-Foot	1920 sets (slip sheet) 1600 sets (pallet)	
	Container Load, 40-Foot HighQ	1920 sets (slip sheet) 1920 sets (pallet)	
What's in the box?	AC power cord (1.83m) 5.9ft HDMI 1.4 cable (1.8m) 5.9 ft USB 3.0 B-A cable (1.8m) DP 1.2 cable (1.8m) Warranty Quick Setup Poster		
User Guide and Warranty Languages	**User Guide Languages**	Arabic, Bahasa Indonesia, Bulgarian, Chinese-S, Chinese-T, Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hebrew, Hungarian, Italian, Japanese, Kazakh, Korean, Latvian, Lithuanian, Norwegian, Polish, Portuguese (Brazilian), Portuguese (Iberian), Romanian, Russian, Serbian, Slovak, Slovenian, Spanish, Swedish, Thai, Turkey, Ukrainian	
	Warranty Languages	English US (EN), English AP (EN-AP), English LA (EN-LA), English UK (EN-GB), Arabic (AR) -17x, Bahasa Indonesia (ID), Bosnian (BS), Bulgarian (BG), Chinese-S (CN),	

Chinese-T (TW), Croatian (HR), Czech (CS), Danish (DA), Dutch (NL), Estonian (ET), Finnish (FI), French Canadian (FC), French European (FR), German (DE), Greek (EL), Hebrew (HE), Hungarian (HU), Italian (IT), Japanese (JA), Kazakh (KK), Korean (KO), Latvian (LV), Lithuanian (LT), Norwegian (NO), Polish (PL), Portuguese, Brazilian (BR), Portuguese, Iberian (PT), Romanian (RO), Russian (RU), Serbian (SR), Slovak (SK), Slovenian (SL), Spanish, Castilian (ES-ES), Spanish, Latin America (ES-MX), Swedish (SV), Thai (TH)
Turkish (TR), Ukrainian (UK), Vietnamese (VI)

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ENVIRONMENTAL DATA

Eco-Label Certifications & declarations	This product has received or is in the process of being certified to the following approvals and may be labelled with one or more of these marks: • IT ECO declaration • US ENERGY STAR® • US Federal Energy Management Program (FEMP) • EPEAT® Gold registered in the United States. See http://www.epeat.net for registration status in your country. • TCO Certified Edge • China Energy Conservation Program (CECP) • China State Environmental Protection Administration (SEPA) • Taiwan Green Mark • Korea Eco-label • Japan PC Green label*		
Sustainable Impact Specifications	• 85% ITE – derived closed loop plastic • 25% recycled metal • Low halogen • Outside Box and corrugated cushions are 100% sustainably sourced and recyclable • Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable • Recycled Plastic cushions		
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a “Typically Configured Notebook”.		
Energy Consumption (in accordance with US ENERGY STAR® test method)	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 50Hz**
Normal Operation (Short idle)	11.57 W	11.64 W	11.6 W
Normal Operation (Long idle)	11.57 W	11.64 W	11.6 W
Sleep	0.26 W	0.32 W	0.26 W
Off	0.07 W	0.13 W	0.07 W
	NOTE: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.		
Heat Dissipation*	**115VAC, 60Hz**	**230VAC, 50Hz**	**100VAC, 50Hz**
Normal Operation (Short idle)	39.6 BTU/hr	39.8 BTU/hr	39.7 BTU/hr
Normal Operation (Long idle)	39.6 BTU/hr	39.8 BTU/hr	39.7 BTU/hr
Sleep	0.9 BTU/hr	1.1 BTU/hr	0.9 BTU/hr
Off	0.2 BTU/hr	0.4 BTU/hr	0.2 BTU/hr
	*__NOTE:__ Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.		

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Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the		
	Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.		
Additional Information	• This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. • This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC. • This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). • This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see www.epeat.net • Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. • This product is 99.2% recycle-able when properly disposed of at end of life.		
Packaging Materials	**External:**	PAPER/Corrugated	997 g
		PAPER/Molded Pulp	401 g
	Internal:	PLASTIC/EPE (Expanded Polyethylene)	24 g
		PLASTIC/EPE (Expanded Polyethylene)	6 g
		PLASTIC/EPE (Expanded Polyethylene)	6 g
	The plastic packaging material contains at least 0.0% recycled content.		
	The corrugated paper packaging materials contains at least 100% recycled content.		
RoHS Compliance	HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam. We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products. We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve. To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.		
Material Usage	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html): • Asbestos • Certain Azo Colorants • Certain Brominated Flame Retardants – may not be used as flame retardants in plastics • Cadmium • Chlorinated Hydrocarbons • Chlorinated Paraffins • Bis(2-Ethylhexyl) phthalate (DEHP) • Benzyl butyl phthalate (BBP) • Dibutyl phthalate (DBP) • Diisobutyl phthalate (DIBP)		

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	• Formaldehyde • Halogenated Diphenyl Methanes • Lead carbonates and sulfates • Lead and Lead compounds • Mercuric Oxide Batteries • Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user. • Ozone Depleting Substances • Polybrominated Biphenyls (PBBs) • Polybrominated Biphenyl Ethers (PBBEs) • Polybrominated Biphenyl Oxides (PBBOs) • Polychlorinated Biphenyl (PCB) • Polychlorinated Terphenyls (PCT) • Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications. • Radioactive Substances • Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
Packaging Usage	HP follows these guidelines to decrease the environmental impact of product packaging: • Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials. • Eliminate the use of ozone-depleting substances (ODS) in packaging materials. • Design packaging materials for ease of disassembly. • Maximize the use of post-consumer recycled content materials in packaging materials. • Use readily recyclable packaging materials such as paper and corrugated materials. • Reduce size and weight of packages to improve transportation fuel efficiency. • Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
End-of-life Management and Recycling	HP offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.
HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment: Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www8.hp.com/us/en/hp-information/environment/ecolabels.html ISO 14001 certificates: http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

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footnotes	• Percentage of ocean-bound plastic contained in each component varies by product • Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard. • External power supplies, WWAN modules, power cords, cables and peripherals excluded. • 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers. • Fiber cushions made from 100% recycled wood fiber and organic materials. • Plastic cushions are made from >90% recycled plastic. • Recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams

Technical Specifications

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Summary

Change Log			
	V1 to V2		