

People have Priority



# Sterilization, Hygiene and Maintenance

# Hygiene standards at the highest level

Sterilization, hygiene and maintenance are increasingly important in the dental practice! W&H offers a complete solution for your handpieces, contra-angle handpieces and turbines on their way through the hygiene system.



You can find the exact work process for preparation of transmission instruments and motors at [wh.com](http://wh.com).



# Sterilization, Hygiene and Maintenance

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W&H Dentalwerk  
Bürmoos (A)



W&H Sterilization  
Brusaporto (I)



## The stakes are high. We are working with people.

Healthy development occurs when action is taken in advance. This applies for sterilization, hygiene and maintenance just as it does for W&H: after all, as a family-owned company, we have been operating with the appropriate far-sightedness for generations.

The secret to our success: W&H has always focussed on people – regardless of whether they are partners, customers, patients or employees. It would only be natural for you now to ask critically: Is that really put into practice? What we suggest: Put us to the test!

## People have Priority

### W&H at a glance

- > Head office in Austria
- > 1000 employees worldwide
- > 80 teams
- > Established in Berlin in 1890 by Jean Weber and Hugo Hampel
- > 3 production facilities
- > 19 subsidiaries in Europe and Asia
- > Export share over 95%

For more information see  
[wh.com](http://wh.com)



## Whatever happens:

With W&H sterilization and hygienic programme you are always prepared.



»With automatic external cleaning the Assistina 3x3 is the first choice for the preparation of turbines and handpieces for the sterilization.«

MR Dr. Franz Hastermann,  
dentist with his own practice



»Assistina 301 plus – many years of highly reliable support for my employees when they lubricate my instruments.«

Dr. Florian Gierl,  
dentist with his own practice



»For me, Assistina 3x3 and Lisa are the ideal combination for fast preparation of instruments.«

Dr. Regina Becker,  
dentist with her own practice

#### Your advantages at a glance

- > Automatic internal cleaning (gear parts and spray channels)
- > Automatic external cleaning (Assistina 3x3)
- > Perfect instrument lubrication
- > Short cycle time around 6 minutes
- > Simple operation
- > Optimum value for money
- > Validated process

## Assistina 3x3 / 3x2



More information  
from page 11

#### Your advantages at a glance

- > Automatic rotary lubrication
- > Automatic oil dispenser
- > Optimum instrument lubrication
- > Optimum cleaning of spray channels with cleaning solution
- > Flushing through with compressed air

## Assistina 301 plus



More information  
from page 13

#### Your advantages at a glance

- > Reduced instrument preparation time
- > Approximately 6 minutes in the Assistina 3x3
- > 14 minutes with the Lisa fast cycle
- > After 20 minutes: cleaned, serviced, sterilized

## Assistina 3x3 and Lisa fast cycle

More information  
from page 15



»I already have two Lisa sterilizers, because they are so quiet and, above all, because I trust them.«

Jörg Pinder,  
dentist with his own practice



»We find the Lina to be the ideal basic model for economical instrument preparation.«

Dr. Jakob Svoboda,  
dentist with his own practice



»Change filters without wet feet, without a plumber and without lugging containers around.«

Dr. Maria Boshamer,  
veterinary surgeon with her own practice



### Your advantages at a glance

- > Customized automatic cycles
- > Integrated and automatic traceability
- > Integrated memory card
- > Low-noise operation with the patented water separation system
- > Built-in dust filter to protect internal components
- > Programmable cycle start
- > Water quality sensor
- > Sterilize unpacked instruments in only 14 minutes with the Lisa fast cycle

Lisa



More information  
from page 17

### Your advantages at a glance

- > The ECO B cycle reduces the cycle time by half
- > Low-noise operation with the patented water separation system
- > User-friendly keypad for simple navigation to all sterilization options
- > Built-in dust filter to protect internal components
- > Programmable cycle start
- > Excellent value for money

Lina



More information  
from page 19

### Your advantages at a glance

- > Fast and easy cartridge change without tools
- > Cartridge can be positioned without a fixing/securing device
- > Suitable for use with conventional sterilizers and processing units
- > Flexible use with the spray gun
- > External power supply not required
- > Optimized ion exchange resin
- > The purified water complies with the recommendations and regulations for the operation of steam sterilizers and for the treatment and preparation of instruments.

Multidem



More information  
from page 27

# Assistina 3x3 / 3x2



# Perfect cleaning inside and outside

**Clean inside, clean outside.** Now you can concentrate on what is really important: your patients. The fully automatic Assistina 3x3 takes over the time-consuming process of preparing e.g. straight and contra-angle handpieces and turbines for sterilization.



## Internal cleaning

The thorough cleaning of all transmission parts and spray channels ensures that the instrument operates correctly throughout its working life.



## External cleaning

The removal of organic deposits before sterilization increases the safety of your patients and your practice team.



## Perfect lubrication

The precise automatic lubrication of all transmission parts extends the working life of your instruments.



## Record time

The short cycle time of about six minutes reduces the total conventional preparation time for your instruments.



## Easy to use

The operation of the Assistina 3x3 is intuitive, preparation starts at the press of a button. Absolutely no training required.



## Price-performance ratio

Maximum cleaning efficiency with low purchase price and extremely economical in use.

### Assistina 3x2

3 instruments x 2 preparation steps:  
Internal cleaning, lubrication

### Assistina 3x3

3 instruments x 3 preparation steps:  
Internal cleaning, external cleaning, lubrication

# Assistina 301 plus



# Maintenance at the press of a button

**Simple, easy to use and safe.** The Assistina 301 plus maintenance process runs automatically: rotation lubrication, internal cleaning of spray channels, blow-drying with compressed air. The instrument is perfectly cleaned after only 35 seconds. The service life of the instruments is significantly increased.



## Automatic rotary lubrication

The oil is optimally distributed to form an even lubricating film. Dirt particles are dislodged and removed.



## Automatic oil dispenser

The system uses exactly the right amount of oil required for optimum lubrication of the instrument. No more and no less.



## Non-electrical drive

The Assistina 301 plus operates without electrical power, only requiring a compressed-air connection for power.



## Optimal cleaning

The Assistina 301 plus cleans and rinses the spray water and spray air channels with cleaning solution and dries them with compressed air.



## Optimal care

Cleaning and lubricating the interior with W&H Service Oil F1 extends the service life of your instruments.



## For perfect manual lubrication

W&H Service Oil F1, MD-400, in the spray can is a product of W&H research.

# Assistina 3x3 and Lisa fast cycle



# Sterilization in record time

**Cleaned, serviced, sterilized.** The Assistina 3x3 cleaning process, in combination with the Lisa fast cycle, reduces the overall preparation time. You can use the instruments again after only 20 minutes.



## Wipe disinfection

Disinfect the instruments before cleaning and servicing by wiping them.



## Cleaning and care

The Assistina 3x3 cleans and services three instruments inside and outside in just 6 minutes.



## Sterilization

With the Lisa fast cycle, the instruments can be removed from the sterilizer ready for use after only 14 minutes.



## Assistina 3x3 / 3x2

The validation of the cleaning process is confirmed by expert opinion and can be viewed at [wh.com](http://wh.com).



## Assistina 3x2

The Assistina 3x2 prepares instruments in two stages: internal cleaning, lubrication.

Lisa





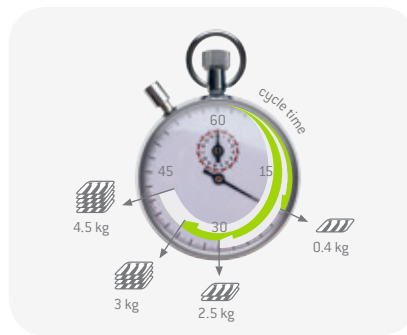
# Precision and perfection

**Flexible, effective, fast.** With Class B automatic cycles and integrated traceability, W&H is setting new standards in modern dentistry with the Lisa sterilizer.



## Class B cycles

Lisa guarantees safe sterilization of all types of loads with the automatic Class B cycles.



## Adjusted cycle times

Adjustment of the cycle time depending on the load saves time and extends the service life of your instruments.



## Fast cycle

In addition to the Class B cycles, Lisa also has a 14-minute fast cycle for your instruments.



## Easy to use

The Lisa touch screen with intuitive menu guidance offers a wide range of options.



## Seamless documentation

The integrated automatic traceability using the touch screen gives you more time for your patients.



## Integrated memory card

The memory card with a USB data read-out device records sterilization and test cycles. No software for the PC is required.

Lina



# The essentials of sterilization

**Simple and expandable.** Lina is the new addition to the range of W&H sterilizers and with Class B cycles it offers maximum safety and an excellent price-performance ratio.



## Class B cycles exclusively

The Lina sterilizer works exclusively with Class B cycles and with short ECO B cycles for smaller loads.



## Simple navigation

All sterilization options are easily accessible with the easily operated keypad.



## ECO B sterilization program

The cycle time can be reduced by half for small loads.



## Expandable with Multiport

Multiport allows sterilization cycles to be saved to a USB stick.



## Barcode label printer

The LisaSafe label printer can be connected to the Multiport to print barcodes.

# Traceability



# Traceability at the press of a finger

**Traceable, seamless, safe.** The traceability concept is the link between the sterilization cycle and the patient file. This ensures seamless traceability for your hygiene protocol.



## Risk-free cycle selection

The simple menu guidance makes it easy to select the automatic sterilization cycles.



## Safe cycles

The process assessment system monitors all current cycle parameters and guarantees a successful sterilization result.



## Check and release of load

The sterile load is checked and released. The cycle report is automatically saved to the memory card.



## Simple labelling

The printed barcode labels are attached to the package with the sterilized instruments.



## Storage

The packed instruments are used according to the first-in, first-out principle (FIFO). They must be used before the expiration date.



## Transmission of data

The data is read into the patient file with the barcode scanner or the label is attached to the patient card.

# LisaSafe, Print, Sprint, LisaWare



# Lisa and Lina accessories

**Compact, practical, good.** W&H offers a wide range of accessories for optimization of the sterilization process. Minor extras lead to major results. Work in the practice is easier and your team saves time.



## LisaSafe label printer

The label printer is a quick and easy tool for linking the sterilization cycle with patient records.



## Barcode scanner

LisaSafe includes a barcode scanner. This enables you to scan labels into patient records.



## LisaWare software

Sterilizers status monitoring and automatic saving of cycle reports directly to your computer over a serial interface or local network.



## Print: Lisa

Dot-matrix printer for printing sterilization cycles on standard paper rolls.



## Sprint: Lina

Print out cycle protocols on thermal paper with 10-year paper guarantee.



## Helix test

The Helix test is a test indicator suitable for Class B sterilizers.

Seal<sup>2</sup>





# A perfect sealing process

**Express packaging with Seal<sup>2</sup>.** It is not easy to keep a product sterile. Only absolutely hermetic and strong protection of the sterile item from environmental influences will guarantee continuing sterility.



## Seal<sup>2</sup>

The foil sealer creates a 12-mm wide seal in just two seconds.



## Hermetic seal

The sealing temperature is electronically controlled and guarantees a perfectly hermetic seal.



## Patented double-roll holder

The patented double-roll holder takes a wide range of widths.



## Convenient and user-friendly

Handling is optimized with the transparent sealing unit and the integrated work surface.



## Flexible working

The roll holder can be removed from the station and mounted on the wall. This allows flexible working in the smallest spaces.

# Multidem



# Water treatment systems

**Ultrapure water for all systems.** Multidem supplies demineralized water for steam generation and can be used for many conventional sterilizers and processing units.



## User-friendly

Cartridges can be replaced quickly without tools. The cartridge can be positioned without a fixing/securing device.



## Compatible

Multidem is suitable for use with all conventional sterilizers and processing units.



## Practical

In addition, Multidem is also equipped with a spray gun and is ideal for rinsing instruments prior to sterilization and for manual filling of other sterilizers and processing units.



## Economical

Multidem does not require an electrical connection. It has an optimized ion exchange resin.



## Safe

The purified water complies with the recommendations and regulations for the operation of steam sterilizers and for the preparation of instruments.

Osmo, Dist, Prim



# Water treatment systems

**High-quality demineralized water.** The use of high-quality demineralized water guarantees consistent performance at the highest level and extends the service life of your sterilizer and your instruments.



## Osmo

Osmo fills and drains multiple sterilizers automatically and simultaneously.



## Spray gun

Osmo has a spray gun for manual filling of other units or for rinsing instruments prior to sterilization.



## Tank

The water tank has a capacity of nine litres.



## Dist

LisaDist produces four litres of distilled water of the highest quality at a very low price in less than five hours.



## Prim

LisaPrim checks water quality by measuring the conductivity of the water.

# W&H adapter set for cleaning units and disinfectors

**Compact, practical, universal.** The W&H adapter set enables uncomplicated, validated machine preparation of accessories and small parts in the thermo washer disinfector – internal and external.



## W&H adapter set

The W&H adapter set was specially designed for machine preparation of accessories and small parts.



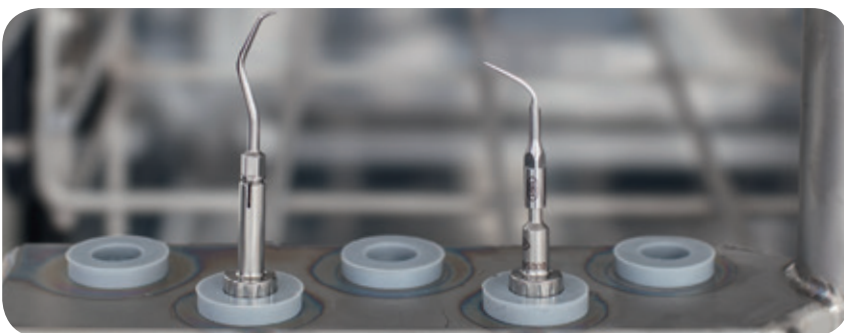
## Validated cleaning

Supports validated internal cleaning and disinfection of the lumina of instruments such as scaler tips or coolant tubes.



## Internal and external thread cleaning

A special attachment to the adapter head guarantees that internal and external threads are cleaned.



## Universal application

Usable with all rinsing channels in the cleaner and disinfector with an internal thread of 8 mm (M8x1) or a matching rubber insert.

The W&H adapter set is compatible with all tips with M3x0.5 mm thread. For a complete list see [wh.com](http://wh.com)



## Value for money

Maximum cleaning and disinfection efficiency at a low purchase price.

# Assistina 3x3 / 3x2

CE

Type:	3x3	3x2
Process:	Internal and external cleaning, lubrication	Internal cleaning, lubrication
Suitable for:	Straight and contra-angle handpieces, turbines, air motors and air-driven scalars	
Mains voltage:	100 – 240 V	
Max. power consumption:	40 VA	
Air consumption:	approx. 100 NI/min.	approx. 60 NI/min.
Operating pressure:	5 – 10 bar (controlled via an integrated automatic pressure controller)	
Height / width / depth:	358 x 207 x 397 mm	
Capacity:	1000 ml W&H Activefluid, MC-1100, 200 ml W&H Service Oil F1, MD-200	

For details of the various Assistina 3x3 and 3x2 adaptors, please visit [wh.com](http://wh.com)



## W&H Activefluid

Cleaning solution for thorough cleaning of instruments internally and externally for use with Assistina 3x3/3x2.

## W&H Service Oil F1

The optimum lubrication of transmission parts increases the working life of precision dental instruments.

# Assistina 301 plus

CE

Type:	Assistina 301 plus
Cycle time:	approx. 35 secs.
Capacity of service oil container:	250 ml for approx. 3,500 maintenance cycles
Capacity of cleaning fluid container:	250 ml for approx. 2,500 maintenance cycles
Connection:	Compressed air connection with quick swivel coupling for air hose Ø 6 x 4 mm, 1/8" female thread
Compressed air:	4 – 10 bar flow pressure (automatic pressure regulation)
Air consumption:	approx. 60 l/min.
Height / width / depth:	223 x 190 x 415 mm
Weight:	2.70 kg

# Lisa



Type:	Lisa
Power supply:	200 – 240 Vac 50 / 60 Hz; 10 A
Power consumption:	2.0 – 2.4 kW
Dimensions overall (W x H x D):	450 x 435 x 599 mm
Weight:	Lisa 517: 43.9kg Lisa 522: 46.2kg
Mean sound levels ( $L_{wa}$ ):	62 dB
Main/Used water tanks:	4 / 3.5 litre
Working range:	7 to 11 cycles
Usable space in chamber (W x H x D):	17l: 195 x 205 x 300 mm 22l: 195 x 205 x 385 mm
Connection types:	1 Parallel port, 2 serial port, integrated automatic water filling valve, ethernet/LAN (optional)


# Lina



Type:	Lina
Power supply:	200 – 240 Vac 50 / 60 Hz; 8.75 A
Power consumption:	1.75 kW
Dimensions overall (W x H x D):	450 x 435 x 599 mm
Weight:	Lina MB17: 38 kg Lina MB22: 40.5 kg
Mean sound levels ( $L_{wa}$ ):	63 dB
Main/Used water tanks:	4 / 3.5 litres
Working range:	4 to 7 cycles
Usable space in chamber (W x H x D):	17l: 195 x 195 x 297 mm 22l: 195 x 195 x 390 mm
Connection type:	1 serial port, USB+2 serial (optional Multiport), integrated automatic water filling valve (optional)



# Multidem

Type:	Multidem C17	Multidem C27
Operating pressure:	2 bar – 8.6 bar (max.)	
Water temperature (inlet):	4 – 30 °C / 40 – 86 °F	
Nominal flow rate:	60 l/h	
Water quality (out):	demineralized (EN 13060)	
Water quality (in):	drinking water	
Weight:	1.7 kg	2.7 kg
Width/depth/height:	117 / 108 / 421 mm	124 / 123 / 476 mm
Operating position:	vertical	
Tube lengths:	2 x 3 m	
Safety valve:	yes	
Backflow preventer:		

# Osmo

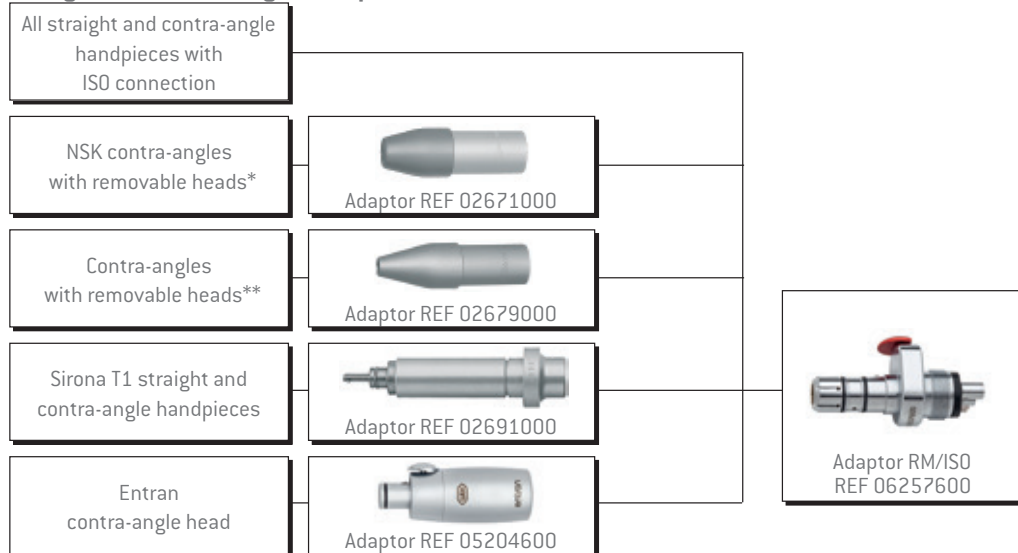
Type:	Osmo
Dimensions ( W x D x H ) mm:	520 x 200 x 420
Weight:	11.0 kg
H <sub>2</sub> O pressure:	1 – 5 bar

# Seal<sup>2</sup>

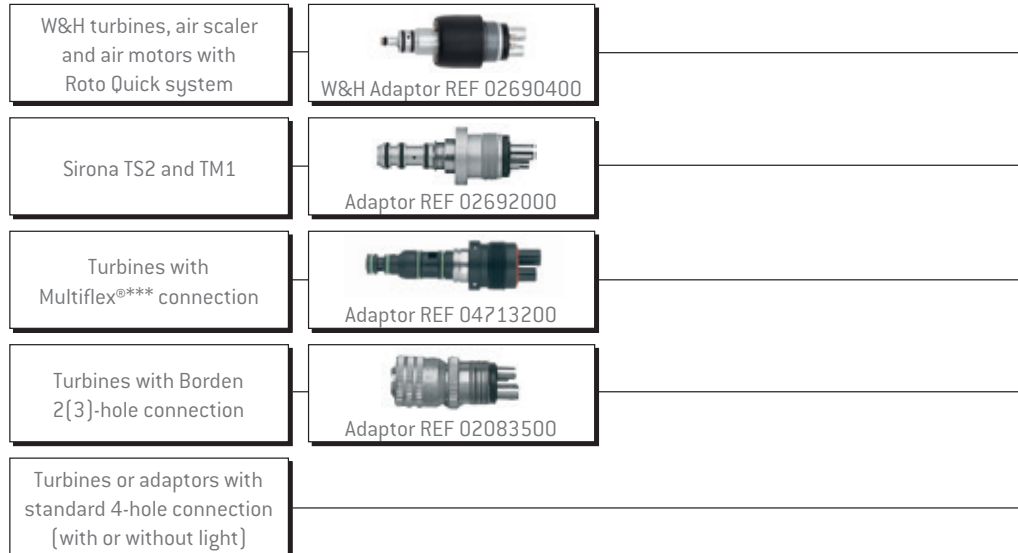
Type:	Seal <sup>2</sup>
Mains supply:	200 – 240 V / 100 W
Dimensions ( L x D x H ) mm:	452 x 480 x min 315 – max 420
Weight:	7.1 kg

# System overview adaptor – Assistina 3x3 / 3x2

## Straight and contra-angle handpieces



## Turbines



\*) exclusively for the following types:

**Phatelus Heads**  
 ARS-PTL NFB-PTL  
 EVA-PTL NM-PTL  
 TE-PTL NPB-PTL  
 VM-PTL NRS-PTL

\*\*) exclusively for the following types:

**LN/CN Heads**  
 3 LD 22 LB 53 LS 61 LF 67 LDN  
 3 LDSY 31 LR 61 LA 61 LR 68 LDN  
 4 L 52 LDN 61 LB 62 LDN 80 LD  
 22 LA 53 LDN 61 LC 66 LD






**A Heads**  
 52 3 LDSY 53 GDN 6 GD  
 79 4 G 61 G 67 CN  
 80 31 GR 62 GDN 68 CDN  
 3 D 53 G 62 GN 68 CN

**Surgical Heads**  
 67 H  
 67 IC






\*\*\*) Multiflex® is a registered trade mark of Kaltenbach & Voigt GmbH & Co. KG, Germany

# System overview adaptor – Assistina 301 plus

## Straight and contra-angle handpieces

All straight and contra-angle handpieces with ISO connection	
NSK contra-angles with removable heads*	 Adaptor REF 02671000
Contra-angles with removable heads**	 Adaptor REF 02679000
Sirona T1 straight and contra-angle handpieces	 Adaptor REF 02691000
FG chuck system (W&H, Sirona)	 Adaptor REF 02693000
Entran contra-angle head	 Adaptor REF 05204600

## Turbines

Sirona TS2 and TM1	 Adaptor REF 02692000	<b>Base adaptor REF 02685000</b>  for 4-hole turbines
W&H turbines, air scaler and air motors with Roto Quick system	 W&H Adaptor REF 02690400	
Turbines or adaptors with 4-hole fix connection (with or without light)		
Turbines with Multiflex**** connection	 Adaptor REF 04713200	<b>Assistina Borden adaptor REF 07014500</b> 
Turbines with Borden 2(3)-hole fix connection		



\*] exclusively for the following types:

**Phatelus Heads**  
 ARS-PTL NFB-PTL  
 EVA-PTL NM-PTL  
 TE-PTL NPB-PTL  
 VM-PTL NRS-PTL

\*\*] exclusively for the following types:

**LN/CN Heads**  
 3 LD 22 LB 53 LS 61 LF 67 LDN  
 3 LDSY 31 LR 61 LA 61 LR 68 LDN  
 4 L 52 LDN 61 LB 62 LDN 80 LD  
 22 LA 53 LDN 61 LC 66 LD

**A Heads**  
 52 3 LDSY 53 GDN 6 GD  
 79 4 G 61 G 67 CN  
 80 31 GR 62 GDN 68 CDN  
 3 D 53 G 62 GN 68 CN

**Surgical Heads**  
 67 H  
 67 IC

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# Sterilization, Hygiene and Maintenance

Pictures are for illustrative purposes only. Additional equipment and accessories shown are not included as standard.

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for more information  
on our products



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