

PRODUCT RANGE 2014/15

Hand dryers | Hair dryers | Hospitality

**starmix**

Made with Passion. Made for you.

# STARS

FOR **SANITARY**

The wellness program for hotel facilities, bathrooms, gyms, saunas, spas, public institutions, industry and trade.



## **Starmix.**

A strong brand. Starmix offers you the broadest possible range of convenient, efficient and economical hot-air hand dryers and hot-air hair dryers, together with select, elegant sanitary accessories for hotels, administration offices, industrial companies, authorities, sports facilities, swimming pools, saunas ... and your private bathroom.



## GUIDE TO OUR PRODUCTS

### The Premium Class

The modern maintenance-free hot-air hand dryers in attractive design for fast and pleasant hand drying.



### The Highspeed Class

The innovative and globally patented system dries hands super-fast, energy-saving and extremely economical.



### The Compact Class

Compact, economical and reliable hot-air hair dryers with excellent output.



### Handheld Hair Dryers

For contemporary convenience in hotel guest bathrooms, wellness facilities, swimming pools and saunas.



### Make-up Mirrors

The complete and broad programme in elegant design and best hotel quality.

## ■ Hot-air hand dryers »AirStar«

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## ■ Hot-air hair dryers »AirStar«

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## ■ Hospitality

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## ■ Colour Line .....

Brings colour in the world

## ■ Planning help .....

## ■ Explanation of the test symbols .....

Valid from March 1, 2015

## Competence.

Starmix hot-air hand dryers are the most economical, modern hygienic drying system – energy saving and environment-conscious. Durable, reliable and maintenance-free. The contemporary waste-free problem solution.

Top quality Made by ELECTROSTAR – the inventor of the hot-air dryer, and one of the world's leading manufacturers.

## Striking arguments.

Hot-air hand dryers are...



... the most cost-effective method!

Cut costs by up to 80% compared to using paper handtowels and handtowel rolls.  
= Save up to several thousand EUROS per year.



... ecologically friendly!

The German Federal Environmental Agency (UBA) confirms that hot-air hand dryers **are comparable** with paper towels made of recycled paper or fabric towel dispensers **from an ecological perspective**.



... 100% hygienic!

Studies have shown that there are **significantly fewer germs** and bacteria in the air jets produced by hot-air hand dryers than in their air intake.



... 100% recyclable and environmentally-friendly!

All components can be recycled and reused 100%. This means no landfill, no incinerated waste and no special waste to deal with.



... officially licensed!

It has been confirmed by the **Directives governing conditions in the workplace (ASR)** promulgated by the German Federal Ministry of Labour (BMA) that hot-air hand dryers have been fully licensed as a hygienic method of drying hands without any reservations.

### That's why electrical hot-air hand dryers:

- ✓ Incur significantly lower costs.
- ✓ Are environmentally-friendly because they save energy.
- ✓ No unhygienic paper waste and no overcrowded dustbins.
- ✓ Do not require any storage for paper hand-towels or rolls of fabric hand-towels.
- ✓ Not anymore empty paper towel dispensers.
- ✓ No longer unproductive work of your personnel.
- ! Fit and forget – they run for years. They help keep sanitary rooms clean.





#### ■ Starmix quality and safety.

The production of Starmix hot-air dryers in Germany goes through a **stringent system of quality assurance in conformity with ISO 9001**. Device safety is guaranteed by European conformity, the European standards EN 60 204 and EN 60 335 and certified national and international safety symbols. That means that Starmix products are iconic for the highest quality and maximum device safety.



#### ■ Starmix ECO-Line Plus.

- extremely energy saving

#### Models:

- TT 1800 E ECO, XT 1000, XT 3000



#### ■ Starmix ECO-Line.

- saves energy and costs to drive down resource utilisation

#### Models:

- TT 1800 E, T 500 E, T 80 E, ST 2400 E ECO
- HFW 12, HFTW 12, HFSW 12, HFTW 12 R, HFTW 12 S, TFC 12
- BFS 12, BFSW 12

## Economic efficiency study

### Example calculation A

A restaurant with **10 workers and 100 guests** every day uses paper hand towels for drying hands. If each person goes to the toilet once every day on the average (252 days a year), that spells out **27,720 drying cycles a year or 83,160 drying cycles in 3 years**

#### Costs for paper hand towels<sup>1</sup>

- year of acquisition approx. € 615 to € 1,599
- in 3 years approx. € 1,725 to € 4,675

#### Costs for 2 Starmix TT 1800 E hot-air hand dryers<sup>2</sup>

- year of acquisition approx. € 560
- in 3 years approx. € 665

#### Lesson learned:

Depending upon the quality of the paper and vendor, **you save the following with Starmix hot-air hand dryers**

- in 3 years approx. € 1,060 to € 3,980
- in 5 years approx. € 2,060 to € 6,933

### Example calculation B

A commercial enterprise with **45 workers plus the boss**. If each person goes to the toilet twice every day on the average 220 days a year, that spells out **20,000 times drying cycles p.a..**

In 3 years, drying hands with

#### paper hand towels<sup>1</sup>

costs approximately € 1,319 to € 3,550

#### 2 Starmix TT 1800 E hot-air hand dryers<sup>2</sup>

costs approximately € 627

**Lesson learned: It is well worth it!**

<sup>1</sup> Paper hand towels: These costs refer solely to drying hands. The expenditures and costs for monitoring, checking, reordering, storing, refilling, emptying and disposing of used paper hand towels were not included.

<sup>2</sup> Hot-air hand dryers: operating costs were calculated from the energy consumption of the hand dryer for 2 x 25 drying cycles (m/f), standby consumption and the present electricity costs of an average of 16.5 cent/kWh (source Eurostat 2009 Semester 2, published March 2010).

**Starmix »AirStar«** – the attractive, fresh »hand towel« made of pleasantly hot-air. Starmix hot-air dryers for rapid and skin-friendly hand drying.



For offices,  
administrations,  
schools and  
universities.



For public sanitary rooms  
(airports, railway  
stations, exhibition  
centres a.s.o.)



For hotels and  
restaurants  
(in public area)



For industrial  
companies



For busses and  
trains (also for  
installation/24 Volt)

The classification of the dryers to special places of installation is to be seen as a recommendation. We are pleased to advise you on special request.



# HOT-AIR HAND DRYERS

## PREMIUM CLASS

### ■ The efficient, energy saving convenient model

The modern maintenance-free hot-air hand dryer in attractive design. With a powerful hygienic stream of hot-air for fast and pleasant hand drying. **Extremely energy-saving: only 1000 Watt rated power!**

Simple, service-friendly and most economical wall mounting without having to open the device. With integrated, detachable mounting plate and simple safety mains plug connection ready for operation. The impact-resistant ABS case and the maintenance-free, whisper-quiet motor guarantee a long, dependable service life.

**Sensor-controlled safety switch-off** after approx. 4 minutes (e.g. in the event of chewing gum vandalism) with all models with infrared proximity switch.

#### Features:

- Sensor-controlled safety switch-off
- Safety main plug connection
- Integrated mounting plate
- Safety temperature limiter
- Intake grille that can be cleaned by suction
- Thermal fusible cut-out
- Mounted flush with the wall, making it impossible to gain access to the back

#### Technical data:

Rated power .....	1000 Watt
Voltage .....	230 -240 Volt ~, 50/60 Hz
Heating power .....	900 Watt
Motor power .....	100 Watt
Air volume .....	38 l/s
Air velocity .....	22.1 m/s
Sound pressure .....	63 db
Relative drying time .....	approx. 23 sec.

#### Dimensions and weight:

W 270 mm, D 160 mm, H 330 mm.  
Weight approx. 3.5 kg.

#### Testsymbols TT 1800 E ECO:



**Extremely energy-saving!**

**Only 1000 Watt!**



### Starmix convenient hand dryer TT 1800 E ECO

#### Features:

No-touch ON/OFF switching,  
electronic infrared proximity switch.  
**Energy saving** through reduced rated power.  
**With blue illuminating diode.**



#### TT 1800 E ECO

Order no. 01 16 46 .....pure white

# HOT-AIR HAND DRYERS

## PREMIUM CLASS

### ■ The convenient models

The modern maintenance-free hot-air hand dryers in attractive design. With a powerful hygienic stream of hot-air for fast and pleasant hand drying.

Simple, service-friendly and most economical wall mounting without having to open the device. With integrated, detachable mounting plate and simple safety mains plug connection ready for operation. The impact-resistant ABS case and the maintenance-free, whisper-quiet motor guarantee a long, dependable service life.

Sensor-controlled safety switch-off after approx. 4 minutes (e.g. in the event of chewing gum vandalism) with all models with infrared proximity switch.

#### Features:

- Sensor-controlled safety switch-off
- Safety main plug connection
- Integrated mounting plate
- Safety temperature limiter
- Intake grille that can be cleaned by suction
- Thermal fusible cut-out
- Mounted flush with the wall, making it impossible to gain access to the back

#### Technical data:

Rated power .....	1800 Watt
Voltage .....	230 -240 Volt~, 50/60 Hz
Heating power .....	1700 Watt
Motor power.....	100 Watt
Air volume .....	38 l/s
Air velocity .....	22.1 m/s
Sound pressure .....	64 db
Relative drying time .....	approx. 23 sec.

#### Dimensions and weight:

W 270 mm, D 160 mm, H 330 mm.  
Weight approx. 3.5 kg.

#### Testsymbols TT 1800-series:



TT 1800 E:



Starmix convenient hand dryer  
TT 1800 E

#### Features:

No-touch ON/OFF switching,  
electronic infrared proximity switch.  
With white illuminating diode.



TT 1800 E

Order no. 19 55 20 ..... pure white



## Starmix convenient hand dryer TT 1800



### Features:

Electronic short-period timer (Push-button),  
running time 36 seconds,  
automatic switch-off.

Technical data see page 8.



TT 1800

Order no. 19 52 23 .....pure white  
Discontinued item



## ■ The innovative TT 1800/ T 500 mounting concept

The mounting system for simple, service-friendly  
wall mounting without having to open the device.



- 1 install mains outlet socket (or permanent wiring).
- 2 secure the mounting plate to the wall.



- 3 push the fully operational hand dryer  
onto the mounting plate.
- 4 insert the plug (or connect the wiring).
- 5 screw on the cover plate.



### Finished!

Rapid, clean, uncomplicated,  
cost-saving.

Licensed for EC toilets. See the Workplace directives  
of the BMA, Announcement of 30<sup>th</sup> of June  
77 a – III b2 – 3752.10 – 6126/77

# HOT-AIR HAND DRYERS

## PREMIUM CLASS

### ■ The classic model

The eco-friendly, maintenance-free hot-air hand dryer in timeless design for rapid, skin-friendly drying with a powerful stream of hygienic hot-air.

Simple, service-friendly and most economical wall mounting without having to open the device. With integrated, detachable mounting plate and simple safety mains plug connection ready for operation.

The special impact-resistant ABS case with a maintenance-free whisper-quiet motor guarantee a long and dependable service life.

Sensor-controlled safety switch-off after approx. 4 minutes (e.g. in the event of chewing gum vandalism).

#### Features:

- Sensor-controlled safety switch-off
- Safety main plug connection
- Integrated mounting plate
- Safety temperature limiter
- Intake grille that can be cleaned by suction
- Thermal fusible cut-out
- Mounted flush with the wall, making it impossible to gain access to the back.

#### Technical data:

Rated power .....	1800 Watt
Voltage .....	230-240 Volt ~, 50/60 Hz
Heating power .....	1700 Watt
Motor power .....	100 Watt
Air volume .....	38 l/s
Air velocity .....	19.1 m/s
Sound pressure .....	63 db
Relative drying time .....	approx. 25 sec.

#### Dimensions and weight:

W 258 mm, D 152 mm, H 315 mm.  
Weight 3.2 kg.

#### Testsymbols T 500 E:



Licensed for EC toilets. See the Workplace directives of the BMA, Announcement of 30<sup>th</sup> of June  
77 a – III b2 – 3752.10 – 6126/77



### Starmix convenient hand dryer T 500 E

#### Features:

No-touch ON/OFF switching,  
electronic infrared proximity switch.



T 500 E  
Order no. 10 69 22 .....pure white



# HOT-AIR HAND DRYERS

## COMPACT CLASS

### ■ The strong compact models

The T 80 / T 80 E is a must for those looking for a **compact, economical and reliable hand dryer** with an above-average drying capacity. The ultra-modern robust technology, enclosed in the special impact-resistant ABS case, ensures remarkable drying capacity at a relatively low energy-saving connected wattage.

#### Features:

- Permanent electrical wiring
- Safety temperature limiter
- Intake grille that can be cleaned by suction
- Thermal fusible cut-out

#### Technical data:

Rated power ..... 1400 Watt  
Voltage ..... 230 -240 Volt ~, 50/60 Hz  
Heating power ..... 1200 Watt  
Motor power ..... 200 Watt  
Air volume ..... 31 l/s  
Air velocity ..... 40 m/s  
Sound pressure ..... 66 db  
Relative drying time ..... approx. 26 sec.

#### Dimensions and weight:

W 203 mm, D 164 mm, H 282 mm.  
Weight 2.3 kg.

#### Testsymbols T 80-series:



T 80 E:



Licensed for EC toilets. See the Workplace directives of the BMA, Announcement of 30<sup>th</sup> of June 77 a – III b2 – 3752.10 – 6126/77



### Starmix compact hand dryer T 80 E

#### Features:

No-touch ON/OFF switching, electronic infrared proximity switch. Sensor-controlled safety switch-off after approx. 4 minutes (e.g. in the event of chewing gum vandalism).



T 80 E

Order no. 02 34 27 ..... white

# HOT-AIR HAND DRYERS

## COMPACT CLASS

Starmix compact hand dryer  
T 80



**Features:**

Electronic short-period timer (Push-button), adjustable running time 30-60 seconds, automatic switch-off.

Technical data see page 11.



T 80

Order no. 02 33 28 ..... white  
Discontinued item

■ The super-compact model

The smallest Starmix hand dryer, takes up less space on the wall than a letter. Each has fully automatic no-touch ON/OFF switching. For practices, smaller offices and private use.

**Features:**

- Permanent electrical wiring
- Safety temperature limiter
- Thermal fusible cut-out

**Technical data:**

Rated power max..... 1400 Watt  
Voltage ..... 230-240 Volt~, 50/60 Hz  
Heating power ..... 1200 Watt  
Motor power..... 200 Watt  
Air volume ..... 15 l/s  
Air velocity ..... 16 m/s  
Sound pressure ..... 72 db  
Relative drying time ..... less than 36 sec.

**Dimensions and weight:**

W 175 mm, D 110 mm, H 250 mm.  
Weight 0.75 kg.

**Testsymbols T 60 E:**



Starmix compact hand dryer  
T 60 E



**Features:**

No-touch ON/OFF switching, electronic infrared proximity switch. Sensor-controlled safety switch-off after approx. 4 minutes (e.g. in the event of chewing gum vandalism).



T 60 E

Order no. 06 10 23 ..... white



## ■ The compact revolutionary

**Incredibly fast. Highly compact.**  
**Extremely energy-saving. Vandal-proof.**  
**The ecologically friendly highspeed hand dryer!**

A new and revolutionary development – the innovative, compact **high-speed hand dryer** with outstanding features:

**Sensationally fast** – dries your hands **in less than 15 seconds**. The high-speed air flow generated by the powerful high-performance blower brushes off drops of water and moisture from the surface of your skin in record time.

**Ultracompact** – takes up less space than a letter. Unique combination of high performance and micro-format.

**Vandal-proof steel housing** with 1.2 mm wall thickness. Flush with the wall making it impossible to gain access to the back.

### Features:

- Permanent electrical wiring
- High-quality steel housing with 1.2 mm wall thickness
- Safety temperature limiter
- Thermal fusible cut-out

### Technical data:

Rated power max. .... 1000 Watt  
Voltage ..... 230 -240 Volt ~, 50/60 Hz  
Motor power ..... 500 Watt  
Heating power ..... 500 Watt  
Air volume ..... 28 l/s  
Air velocity ..... 90 m/s  
Sound pressure ..... 75 db  
Relative drying time..... approx. 15 sec.

### Dimensions and weight:

W 247 mm, D 140 mm, H 167 mm.  
Weight approx. 3.8 kg.

### Testsymbols XT 1000-series:

**IPX1** **CE**



**Highly compact: 20% smaller than a DIN A4 format note paper.**



**15 seconds drying time – 324 km/h air velocity.**



**Extremely energy-saving – only 1000 Watt power rating.**

## Starmix high-speed hand dryer XT 1000 E



### Features:

No-touch ON/OFF switching,  
electronic infrared sensor.  
Sensor-controlled safety switch-off  
after approx. 60 seconds.

**Extremely fast!**

**Only 1000 Watt!**



**XT 1000 E**

Order no. 01 24 76 ..... white

## Starmix high-speed hand dryer XT 1000 ES



### Features:

No-touch ON/OFF switching,  
electronic infrared sensor.  
Sensor-controlled safety switch-off  
after approx. 60 seconds.

**Extremely fast!**

**Only 1000 Watt!**



**XT 1000 ES**

Order no. 01 43 02 ..... matte brush finish

# HOT-AIR HAND DRYERS

## HIGHSPEED CLASS

### ■ Highspeed at its best

**The fastest, most energy-saving and therefore most efficient high-speed hand dryer of its class.**

A strong concentrated stream of air flows simultaneously over the water at a breathtaking 540 km/h on both sides of your hands.

**Your hands are dry in 10 seconds without heat!**

The high-speed motor with a long service life produces effective high air velocity at 35,000 rotations per min. Four infrared sensors activate the no-touch hand dryer – easy and simple operation even for persons with a handicap or children.

The water removed from your hands is collected in a lockable water tank that can be easily emptied. Electronic sensors indicate when the water collector has been emptied or the HEPA/Enzyme filter has to be changed.

**For noise reduction** you can throttle the motor speed with a switch that reduces the rated power to 740 Watt. For highly frequented areas or polluted room air: **The additional MESH filter** for protecting the motor and HEPA/Enzyme filter.

#### Features:

- Antibacterial impact-resistant ABS plastic housing
- Permanent electrical wiring that prevents access to the back of the handdryer
- Sensor controlled safety switch off
- **Double filter system with HEPA/Enzyme filter**
- **ZeroSmell scent cartridge**
- Water collector
- Electronic indicator for the water collector and filter change
- Switch for reducing motor speed

#### Technical data:

Rated power ..... max. 1200 Watt  
Voltage ..... 230-240 Volt ~, 50/60 Hz  
Heating power ..... without heating  
Motor power ..... max. 1200 Watt  
Motor revolutions ..... 35,000 per min.  
Air velocity ..... 540 km/h  
Sound pressure ..... 70 db  
Relative drying time ..... approx. 10 sec.

#### Dimensions and weight:

W 330 mm, D 230 mm, H 660 mm.  
Weight 9,0 kg.

#### Testsymbols XT 3000-series:



HACCP certified



**Starmix high-speed hand dryer  
XT 3000**

**Successor  
available from  
Q. 2/2015**

#### Features:

- No-touch ON/OFF switching,
- 4 electronic infrared sensors.
- Safety switch-off after 25 seconds.



**XT 3000**

Order no. 01 42 89 ..... white  
Order no. 01 42 96 ..... silver

**Another colours on request**





**Speed control switch:** The power can be optionally set to 1200 Watt\* or 740 Watt.\*\* Reduced noise and power consumption.



**540 km/h\* = 10 sec. drying time**  
**432 km/h\*\* = 13 sec. drying time**

A strong and highly **concentrated airflow** strips off the water with 540 km/h and dries the hands in **approximately 10 seconds**.



**Water collecting tank:** Collects the water, which is stripped off from the hands. No contamination of the device and the floor.



Enzym



HEPA

**A model of hygiene:** With this new type of patented double filter system, germs and bacteria are filtered out of the room air through the **HEPA Filter** that can be replaced without any tools. Then they are destroyed by the **Enzyme filter**.



An additional **mesh filter** protects the double filter system to keep out debris.

■ **Only 10 seconds drying time!**

■ **Extremely economical**  
(only 0,00055 €/drying)



electronic - no touch



**Convenient, safe and easy to use:**

1. Hold wet hands into the opening of the hand dryer from above.
2. The sensor turns the dryer on automatically until you remove your hands again.
3. If hands (or objects) stay in the appliance too long, the dryer turns off after 25 seconds.



**ZeroSmell:** Biodegradable ZeroSmell scent cartridge removes unpleasant smells from the surrounding air. (1 tab is sufficient for 3 months)

# HOT-AIR HAND DRYERS

## VANDAL-PROOF CLASS

### ■ The vandal-proof models

For restaurants, hotels, schools, gymnasiums and commercial companies.

**Vandal-proof steel housing** white enamelled or sanitised. Theft-proof attachment. Flush wall mounting arrangement prevents access to the back of the device. All components designed to maximum duty, maintenance-free and long service life.

The optimized, **revolving air jet** concentrates the flow of air and ensures effective rapid hand drying – cost and energy saving.

#### Features:

- **High-quality steel housing with 2 mm wall thickness**
- 360° revolving air jet – as a face dryer
- Thermal fusible cut-out

#### Technical data:

Rated power **ST 2400 / E / ES** ..... 2400 Watt  
Voltage ..... 230-240 Volt ~, 50/60 Hz  
Heating power **ST 2400 / E / ES** ..... 2200 Watt  
Motor power ..... 200 Watt

Rated power **ST 2400 E ECO** ..... 2000 Watt  
Voltage ..... 230-240 Volt ~, 50/60 Hz  
Heating power **ST 2400 E ECO** ..... 1800 Watt  
Motor power ..... 200 Watt

Air volume ..... 70 l/s  
Air velocity ..... 28 m/s  
Sound pressure ..... 69 db  
Relative drying time ..... 20–25 sec.

#### Dimensions and weight:

W 280 mm, D 250 mm, H 240 mm.  
Weight approx. 6.6 kg.

#### Testsymbols ST 2400-series:



Licensed for EC toilets. See the Workplace directives of the BMA, Announcement of 30<sup>th</sup> of June  
77 a – III b2 – 3752.10 – 6126/77



### Starmix power hand dryer ST 2400 E ECO

#### Features:

No-touch ON/OFF switching,  
electronic infrared proximity switch.  
**With blue illuminating diode.**

For all facilities that need **energy-economical**  
as well as **quick and comfortable hand-drying**  
by a sturdy appliance.

Energy-saving!  
Only 2000 Watt!



**ST 2400 E ECO**  
Order no. 00 64 20 ..... white enamelled

**Starmix power hand dryer  
ST 2400 E**



**Features:**  
No-touch ON/OFF switching,  
electronic infrared proximity switch.

Technical data see page 16.



**ST 2400 E**  
Order no. 17 01 21 .....white enamelled

**Starmix power hand dryer  
ST 2400 ES**



**Features:**  
No-touch ON/OFF switching,  
electronic infrared proximity switch.

Technical data see page 16.



**ST 2400 ES**  
Order no. 17 09 23 . steel/matte brush-finish

**Starmix power hand dryer  
ST 2400**



**Features:**  
Electronic short-period timer (Push-button),  
running time 36 seconds.

Technical data see page 16.









**ST 2400**  
Order no. 16 96 20 .....white enamelled  
**Discontinued item**































# OVERALL VIEW

## The Starmix hot-air hand dryer program

Model Order no.	TT 1800 19 52 23	TT 1800 E 19 55 20	TT 1800 E ECO 01 16 46	T 500 E 10 69 22	T 80 02 33 28	T 80 E 02 34 27	T 60 E 06 10 23	XT 3000 01 42 89 / 01 42 96	XT 1000 01 24 76 / 01 43 02	ST 2400 16 96 20	ST 2400 E 17 01 21	ST 2400 ES 17 09 23	ST 2400 E ECO 00 64 20
Class	Premium class				Compact class			Highspeed class		Vandal-proof class			
Leaflet page	9	8	7	10	12	11	12	14-15	13	17	17	17	16
Electronic short-period timer (Push-button)	■				■					■			
Running time (automatic switch-off) in seconds	36				30–60 adjustable					36			
No-touch ON/OFF switching, electronic infrared proximity switch		■	■	■		■	■	■	■		■	■	■
Rated power Watt	1800	1800	1000	1800	1400	1400	1400	1200	1000	2400	2400	2400	2400
Heating power Watt	1700	1700	900	1700	1200	1200	1200	without heating	500	2200	2200	2200	1800
Motor power Watt	100	100	100	100	200	200	200	1200	500	200	200	200	200
Air volume l/s	38	38	38	38	31	31	15	56,3	28	70	70	70	70
Air velocity m/s	22,1	22,1	22,1	19,1	40	40	16	150	90	28	28	28	28
Sound pressure db	64	64	63	63	66	66	72	70	75	69	69	69	69
Case material	ABS plastic	ABS plastic	ABS plastic	ABS plastic	ABS plastic	ABS plastic	ABS plastic	ABS plastic	1,2 mm steel	2 mm steel	2 mm steel	2 mm steel	2 mm steel
Case colour	white	white	white	white	white	white	white	white silver	white silver	white	white	Stainless steel matte	white
Safety main plug connection	■	■	■	■									
Permanent electrical wiring	optional possible	optional possible	optional possible	optional possible	■	■	■	■	■	■	■	■	■
Sensor-controlled safety switch off		■	■	■		■	■	■					
Safety temperature limiter	■	■	■	■	■	■	■		■				
Thermal fusible cut-out	■	■	■	■	■	■	■		■	■	■	■	■
Weight in kg	3,5	3,5	3,5	3,5	2,3	2,3	0,75	9,0	3,8	6,6	6,6	6,6	6,6
Relative drying time in seconds	approx. 23	approx. 23	approx. 23	approx. 25	approx. 26	approx. 26	under 35	10	approx. 15	20–25	20–25	20–25	20–25
Recommended applications	   	   	   	   	 	 	 	   	  	   	   	   	   
Special advantages			Extremely energy-saving		Energy-saving		Highly compact	Extremely fast HEPA-Filter ZEROSmell scent cartridge	Highly compact Extremely energy-saving	Vandal-proof	Vandal-proof	Vandal-proof	Energy-saving Vandal-proof

## The Starmix hot-air hair dryer program

Model Order no.	TTH 1800 E 00 46 24	TTH 1800 00 45 25	TH 80 Z 02 37 24	STH 2400 Z 17 12 27	TB 80 A 02 41 27	TB 80 S 02 38 23	TB 60 05 99 21
Class	Premium class		Compact class	Vandal-proof class	Compact class wall-mounted hair dryers		
Leaflet page	21	22	23	24	25	26	26
Electronic short-period timer (Push-button)		■	■	■	Automatic nozzle switch	3 switch settings	Automatic nozzle switch
Running time (automatic switch-off) in seconds		approx. 4 min. (can be varied 1 – 9 min.)	approx. 4 min. (can be varied 30 sec. – 8 min.)	30-150 (can be varied 1 – 4 min.)			
No-touch ON/OFF switching, electronic infrared proximity switch	■						
Rated power Watt	1800	1800	1800	2400	750	1100	700
Heating power Watt	1700	1700	1600	2200	550	900	500
Motor power Watt	100	100	200	200	200	200	200
Air volume l/s	38	38	31	70	15	15	8,8
Air velocity m/s	22.1	22.1	25	28	16	16	13.5
Sound pressure db	64	64	66	69	62	62	72
Case material	ABS plastic	ABS plastic	ABS plastic	2 mm steel	ABS plastic	ABS plastic	ABS plastic
Case colour	white	white	white	white	white	white	white
Safety main plug connection	■	■					
Assembly on a height adjustment	possible THH 1800	possible THH 1800	possible THH 800	possible STHH 2400	no	no	no
Permanent electrical wiring	optional possible	optional possible	■	■	■	■	■
Sensor-controlled safety switch off	■						
Safety temperature limiter	■	■	■		■	■	■
Thermal fusible cut-out	■	■	■	■	■	■	■
Weight in kg	3.5	3.5	2.2	6.6	2.4	2.4	1.1
Recommended applications	    *	    *	    *	    *	    *	    *	    *
Special advantages	Optional height adjustment	Optional height adjustment Optional reconstruction for a coin period timer	Optional height adjustment	Optional height adjustment Vandal-proof	Flexible hose 1.5 m	Flexible hose 1.5 m	Flexible hose 1.5 m

Design in 230 - 240 Volt~, 50/60 Hz. **Special voltages on request.**

\*in connection with a height adjustment



**Starmix »AirStar«** – the attractive »hand towel«  
made of pleasantly hot-air. The standard service  
in bathrooms, saunas, sports facilities and hotels.



For swimming pools  
and thermal baths  
(in public area and  
private sphere)



For sports facilities  
and fitness centres



For saunas  
and SPAs



For disabled persons,  
senior citizens and  
children (height  
adjustable)

The classification of the dryers to special places of installation is to be seen as a recommendation. We are pleased to advise you on special request.



# HOT-AIR HAIR DRYERS

## PREMIUM CLASS

### ■ The convenient models

The modern, maintenance-free hair dryers in attractive design. New types of air guidance for a more powerful hygienic stream of hot-air for fast, pleasant hair drying.

Simple, service-friendly and most economical wall mounting without having to open the device, with an integrated detachable mounting plate and with a simple fully operational safety mains plug connection.

The special impact-resistant **ABS case** and the **maintenance-free, whisper-quiet motor** guarantee a long and dependable service life.

Qualities that really count:  
high-performance, economical, low power consumption, reliable, uncomplicated and long service life.

#### Features:

- Safety main plug connection
- Integrated mounting plate
- Safety temperature limiter
- Intake grille that can be cleaned by suction
- Thermal fusible cut-out
- Mounted flush with the wall, prevents access to the back of the device.

#### Technical data:

Rated power ..... 1800 Watt  
Voltage ..... 230 -240 Volt ~, 50/60 Hz  
Heating power ..... 1700 Watt  
Motor power ..... 100 Watt  
Air volume ..... 38 l/s  
Air velocity ..... approx. 22.1 m/s  
Sound pressure ..... 64 db

#### Dimensions and weight:

W 270 mm, D 160 mm, H 330 mm.  
Weight 3.5 kg.

#### Testsymbols TTH 1800-series:



### Starmix convenient hair dryer TTH 1800 E

#### Features:

No-touch ON/OFF switching,  
electronic infrared proximity switch.  
Sensor-controlled safety switch-off  
after 10 minutes prevents continuous operation  
(e.g. in the event of chewing gum vandalism).



#### TTH 1800 E

Order no. 00 46 24 .....pure white

# HOT-AIR HAIR DRYERS

## PREMIUM CLASS

Starmix convenient hair dryer  
TTH 1800



**Features:**

Electronic short-period timer (Push-button).  
Times runs for approx. 4 minutes,  
but the running time **can be varied**  
between 1 to 9 minutes by a qualified person,  
automatic switch-off.

Technical data see page 21.

Starmix height adjustment  
THH 1800



Height adjustment range of 55 cm continuously variable

**Features:**

For all Starmix hair dryers of the  
TTH 1800 series.  
Features and technical data see right.

Hair drying – safe and convenient  
with height adjustment.



The practical, functional and comfortable solution to simplify hair drying: Starmix Hot-air hair dryers with height adjustment. The height of the hot-air hair dryer can be adapted continuously variable to individual requirements. This is the ideal hair-drying combination for **children, senior citizens and the disabled** in sport centres, cloakrooms, therapy centres, etc. An elegantly styled and robust height adjustment to form a harmonious functional unit with the hot-air hair dryer.

**Features:**

- Flat guide with counterweight
- Integrated, covered mains socket
- A functional unit with the hair dryer
- The hair dryer has to be ordered separately.


**Technical data:**

Height adjustment range of 55 cm,  
continuously variable

**Dimensions and weight:**

W 140 mm, D 76 mm, H 1040 mm.  
Weight 4.5 kg.

**Testsymbols THH 1800 and THH 800:**

VDE-Reg.-Nr.  IP24



**TTH 1800**

Order no. 00 45 25 .....pure white

**THH 1800**

Order no. 19 07 09 .....silver/white  
The hair dryer has to be ordered separately

# HOT-AIR HAIR DRYERS

## COMPACT CLASS

### ■ The strong compact model

**Compact, economical and reliable hot-air hair dryer** with excellent output. A powerful stream of air with optimal heat distribution ensures fast and convenient hair drying.

The special impact-resistant ABS case guarantees a long and dependable service life. The filter to retain fluff can be cleaned by suction so that the motor and fan cannot become clogged with suspended particles.

#### Features:

- Permanent electrical wiring
- Electronic short-period timer with automatic switch-off
- Safety temperature limiter
- Intake grille that can be cleaned by suction
- Thermal fusible cut-out.

#### Technical data:

Rated power ..... 1800 Watt  
Voltage ..... 230-240 Volt ~, 50/60 Hz  
Heating power ..... 1600 Watt  
Motor power ..... 200 Watt  
Air volume ..... 31 l/s  
Air velocity ..... approx. 25 m/s  
Sound pressure ..... 66 db

#### Dimensions and weight:

W 203 mm, D 164 mm, H 282 mm.  
Weight 2.2 kg.

#### Testsymbols TH 80 Z:

IP23 EAC  



### Starmix compact hair dryer TH 80 Z



#### Features:

Electronic short-period timer (Push-button).  
Times runs for approx. 4 minutes,  
but the running time **can be varied** between  
30 seconds and 8 minutes by a qualified person,  
automatic switch-off.



#### TH 80 Z

Order no. 02 37 24 ..... white

### Starmix height adjustment THH 800



Height adjustment range of 55 cm continuously variable

For all Starmix hair dryers of the  
TH 80 series.

Technical data see page 22.

#### THH 800

Order no. 11 10 01 .....silver/white  
The hair dryer has to be ordered separately



# HOT-AIR HAIR DRYERS

## VANDAL-PROOF CLASS

### ■ The vandal-proof model

For sports facilities, public baths, schools, etc.  
**Vandal-proof steel housing**, white enamelled.  
Theft-proof attachment.

All components are rated for maximum durability,  
robust, maintenance-free and long service life.

The optimized air nozzle concentrates the air flow and  
ensures fast, pleasant and hair-gentle drying cycle.

**Features:**

- Permanent electrical wiring
- **High-quality Steel housing with 2 mm wall thickness**
- Thermal fusible cut-out

**Technical data:**

Rated power .....	2400 Watt
Voltage .....	230 -240 Volt~, 50/60 Hz
Heating power .....	2200 Watt
Motor power .....	200 Watt
Air volume .....	70 l/s
Air velocity .....	28 m/s
Sound pressure .....	69 db

**Dimensions and weight:**

W 280 mm, D 250 mm, H 240 mm.  
Weight 6.6 kg.

**Testsymbols STH 2400 Z:**



### Starmix height adjustment STHH 2400

Vandal-proof height adjustment for Starmix hair dryers  
of the STH 2400 series.

**Features:**

- **Continuously adjustable** with constant power rolling-band spring.
- Guide rail of anodised special aluminium alloy.
- Covered, vandal-proof cable guide.
- **Crystal mirror** front side full-surface.

**Dimensions and weight:**

W 150 mm, D 85 mm, H 1200 mm, Weight 6.2 kg.

### Starmix power hair dryer STH 2400 Z



**Features:**

Electronic short-period timer (Push-button),  
timer runs for 30-150 seconds,  
but the running time **can be varied**  
between 30 to 240 seconds by a qualified person,  
automatic switch-off.



### STH 2400 Z

Order no. 17 12 27 .....white enamelled

### Starmix height adjustment STHH 2400



Height adjustment range of 60 cm continuously variable

Crystal mirror front side – 4 mm thick,  
full-surface adhesive-mounted.

Description see left.

### STHH 2400

Order no. 01 02 12 .....Mirror/Alu  
The hair dryer has to be ordered separately

# WALL-MOUNTED HAIR DRYERS

## COMPACT CLASS

**TB 80 A:** Recommended as a hair dryer/styler for hotels, public gymnasiums, swimming pools, saunas.

**TB 80 S:** Recommended as a hair dryer/styler and as a manicure dryer for hotels that want to offer maximum convenience.

### Features:

- Wall-mounted for permanent electrical installation
- Flexible hose 1.5 m
- Rotating hair-styling nozzle

### Technical data TB 80 A:

Rated power ..... max. 750 Watt  
Voltage ..... 230-240 Volt~, 50/60 Hz  
Heating power ..... 550 Watt  
Motor power ..... **200 Watt**  
Air volume ..... **15 l/s**  
Air velocity ..... 16 m/s  
Sound pressure ..... 62 db

### Technical data TB 80 S:

Rated power ..... max. 1100 Watt  
Voltage ..... 230-240 Volt~, 50/60 Hz  
Heating power ..... 900 Watt  
Motor power ..... **200 Watt**  
Air volume ..... **15 l/s**  
Air velocity ..... 16 m/s  
Sound pressure ..... 62 db

### Dimensions and weight TB 80 A / TB 80 S:

W 258 mm, D 172 mm, H 256 mm without hose.  
Weight 2.4 kg.

### Testsymbols TB 80-series:

IP22 ENEC



**Starmix wall-mounted hair dryer  
TB 80 A**

### Features:

Automatic nozzle switch:  
the TB 80 A is automatically switched on when the hair-styling nozzle is removed from the holder, and is switched off when the nozzle is returned to the holder.

**200 Watt motor**

**More air volume**



**TB 80 A**

Order no. 02 41 27 ..... white

# WALL-MOUNTED HAIR DRYERS

## COMPACT CLASS

### Starmix wall-mounted hair dryer TB 80 S



**Features:**

3 switch settings:

Cold – warm 1 (450 Watt) – warm 2 (900 Watt).  
The hose can be pushed aside so that the hot-air  
can be directly expelled, thereby transforming the  
appliance into a manicure dryer.

Technical data see page 25.

200 Watt motor  
More air volume



TB 80 S

Order no. 02 38 23 ..... white

**TB 60:** The ideal hair dryer/styler for guest  
bathrooms in hotels, pensions, holiday homes  
and for private use in bathrooms. Compact and  
spacesaving.

**Not recommended for public swimming pools  
and spas. We recommend the TB 80 A for this.**

**Features:**

- Wall-mounted for permanent electrical installation
- Flexible hose 1.5 m
- Rotating hair-styling nozzle
- Safety temperature limiter
- Thermal fusible cut-out

**Technical data:**

Rated power .....	max. 700 Watt
Voltage .....	230 - 240 Volt~, 50/60 Hz
Heating power .....	500 Watt
Motor power .....	200 Watt
Air volume .....	8.8 l/s
Air velocity .....	13.5 m/s
Sound pressure .....	72 db

**Dimensions and weight:**

W 215 mm, D 110 mm, H 530 mm including hose.  
Weight 1.1 kg.

**Testsymbols TB 60:**



### Starmix wall-mounted hair dryer TB 60



**Features:**

Automatic nozzle switch:

The TB 60 is automatically switched on  
when the hair-styling nozzle is removed  
from the holder, and is switched off  
when the nozzle is returned to the holder.



TB 60

Order no. 05 99 21 ..... white



# PLANNING HELP

## Installation and service of Starmix hot-air dryers in dressing rooms and bathrooms

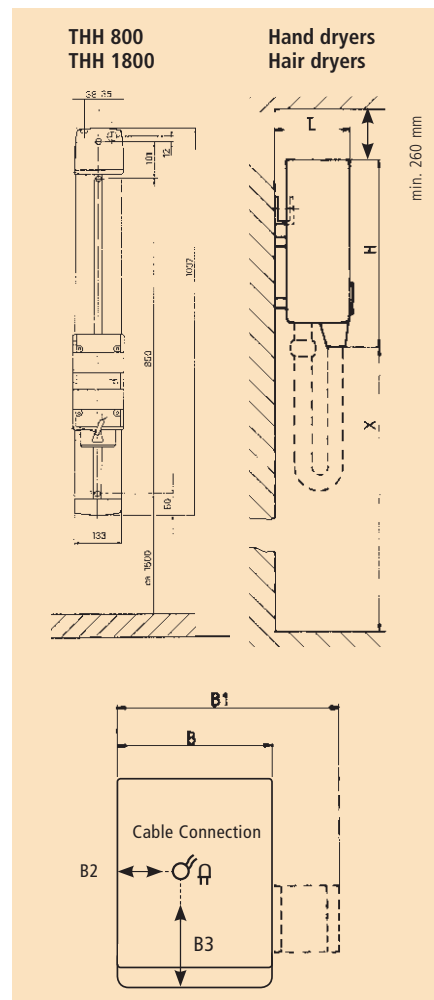
- Installation must proceed in conformity with the regulation VDE 0100, section 701. The requisite rules and regulations of power supply companies (EVUs) complementing VDE specifications must also be observed.
- VDE 0107 is applicable to bathrooms used for medical purposes.

### Safety Distances

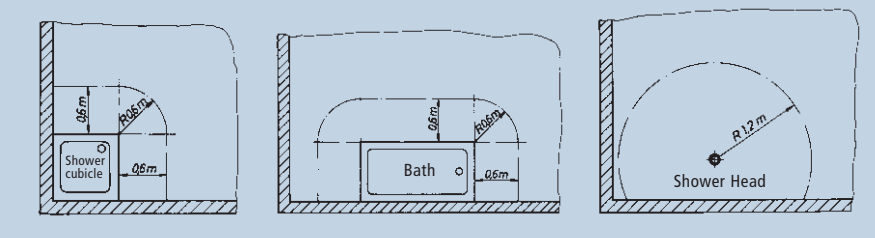
The requisite **safety measures** include for instance:

- **Observance of a safety area** of 0.6 m around the shower cubicle and bath, and 1.2 m around the shower heads.
- **Power sockets and switches** further away from these safety distances are permissible, provided they are protected by a 30 mA earth-leakage circuit breaker with over-current release.

Protection Class I with safety conductor for hair dryers is not intended for home use but rather exclusively for commercial business.



Safety distances. See column left.



### Mounting height and space requirements

Mounting height/position and appliance dimensions comply with the general dimensioned drawings and subsequent table.

Types	Space requirements and mounting height in mm						
	B	B1	B2	B3	T	H	X
<b>Hand dryers</b>							
T 60 E	175	—	84	90	110	250	1150
ST 2400 + ST 2400 E / E ECO	280	—	62	80	210	240	1100–1200
ST 2400 ES	280	—	62	80	210	240	1100–1200
T 80 + T 80 E	203	—	25	200	164	282	1150
TT 1800 / TT 1800 E / E ECO	270	—	130	30 <sup>1)</sup> / 66 <sup>2)</sup>	170	330	1100
T 500 E	258	—	130	30 <sup>1)</sup> / 66 <sup>2)</sup>	152	315	1100
XT 3000	330	—	280	110	230	660	240 / 90*
XT 1000 E / ES	247	—	15	50	140	167	1100–1200
<b>Hair dryers</b>							
STH 2400 Z	280	—	62	80	210	240	2000
TH 80 Z	203	—	25	200	164	282	2000
TTH 1800 / TTH 1800 E	270	—	130	30 <sup>1)</sup> / 66 <sup>2)</sup>	170	330	2000
<b>Height adjustments</b>							
STHH 2400	150	—	—	—	85	1200	1200
THH 1800 / THH 800	133	—	—	—	65	1037	1500
<b>Wall-mounted hair dryers</b>							
TB 60	175	215	84	90	110	225	1200–1400
TB 80 A + TB 80 S	203	258	25	200	172	256	1200–1400
<b>Handheld hair dryers</b>							
Modellreihe HF... WH (–12 R + 12 S)	102 (WH)	255	17	147	150 (WH)	191 (WH)	1200–1400
Modellreihe HF... WH +TF...W +BFSW	88 (WH)	255	68	75	122 (WH)	122 (WH)	1200–1400

<sup>1)</sup> if cable connection

<sup>2)</sup> if socket

\* for persons in wheelchair

### Equipping toilets

The guidelines are based on the Workplace Guidelines (ASR), §35-37, of the German Federal Ministry of Labour. The washrooms for toilets have to be fitted with at least 1 washbasin, soap and 1 hot-air hand dryer.

Features of the washrooms as per service sizes				
Employees/frequency of use Workers	Urinals or toilets	Washing facilities / washbasins	Soap dispensers	Hot-air hand dryer
4–5	1	1	1	1
up to 10	2	2	1–2	1–2
up to 15	3	3	2	2
more than 15	—	4	3	2–3



**Starmix' wide range** of handheld hair dryers for high-grade guest bathrooms, saunas and swimming pools – with an extremely high quality standard!





# HANDHELD HAIR DRYERS

## HOSPITALITY

### ■ The new premium programme for hotels

For contemporary convenience in hotels, guest bathrooms, wellness and fitness facilities, swimming pools and saunas all over the world.

The successful handheld hair dryer programme in **best hotel quality** now improved and with a new wall bracket.

**The new safety wall bracket** with sensor-controlled **nightlight**. For permanent electrical wiring. With safety power cut-off switch according to VDE 0720.

#### Features:

- Permanent electrical wiring
- Safety wall bracket with nightlight
- Hair-styling nozzle
- Coiled cable 0.5 m extends to 2.0 m
- Safety temperature limiter

#### Dimensions and weight / HFTW 16 / HFW 12 / HFTW 12 / HFSW 12:

W 88 mm, D 122 mm, H 122 mm for wall bracket.  
Weight 0.78 kg with wall bracket.  
Diameter inside of the wall bracket about 70 mm Ø.

#### Models ...12 R (only white) with

- **Dry shaver socket** reversible for 115/230 V~, EU- and US-plug, with short-circuit proof safe isolating transformer, one-hundred percent maintenance-free for incorrect use.

#### Models ...12 S (only white) with

- **Safety socket** for 230 V~ for universal connection of all electrical appliances.

#### Technical data:

Rated power HF 12-Modelle ..... 1200 Watt  
Rated power HF 16-Modelle ..... 1600 Watt  
Voltage ..... 230-240 Volt~, 50/60 Hz

#### Dimensions and weight

##### Models ...12 R /...12 S:

W 102 mm, D 150 mm, H 191 mm for wall bracket.  
Weight with wall bracket ...12 R 1.25 kg /... 12 S 0.8 kg.

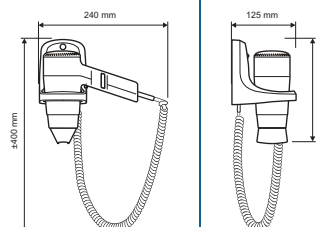
#### Testsymbols HF-series:



### Starmix handheld hair dryer HFTW 16

#### Features:

3 switch settings: Cool – 800 W – 1600 W.  
Separate ON/OFF safety push button.  
2 air speeds. Including safety wall bracket with nightlight and power cut-off switch.



#### HFTW 16

Order no. 01 29 64 .....black



# HANDHELD HAIR DRYERS

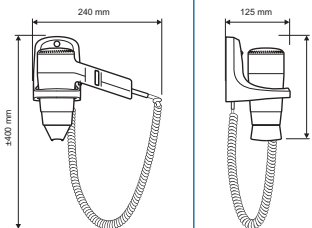
## HOSPITALITY

Starmix handheld hair dryer  
HFW 12



**Features:**

Exceptionally quiet.  
4 switch settings: 0 – Cool – 600 W – 1200 W.  
2 air speeds.  
Including safety wall bracket  
with nightlight and power cut-off switch.



HFW 12

Order no. 01 29 95 ..... white

without wall bracket, with safety plug

HFT 12

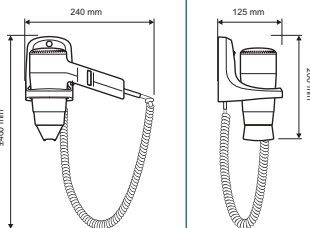
Order no. 01 30 22 ..... white

Starmix handheld hair dryer  
HFTW 12



**Features:**

Exceptionally quiet.  
3 switch settings: Cool – 600 W – 1200 W.  
Separate ON/OFF safety push button.  
2 air speeds.  
Including safety wall bracket  
with nightlight and power cut-off switch.



HFTW 12

Order no. 01 29 33 ..... white

without wall bracket, with safety plug

HFS 12

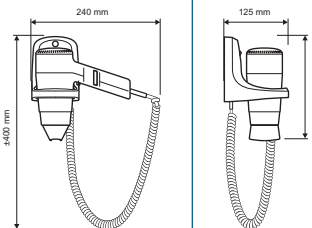
Order no. 01 29 88 ..... white

Starmix handheld hair dryer  
HFSW 12



**Features:**

Exceptionally quiet.  
With ON/OFF safety push button  
= 1 switch setting (1200 W) and one air speed.  
Including safety wall bracket  
with nightlight and power cut-off switch.



HFSW 12

Order no. 01 28 89 ..... white

without wall bracket, with safety plug

HFS 12

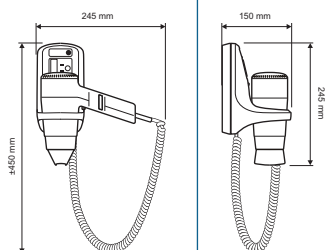
Order no. 01 29 26 ..... white

## Starmix handheld hair dryers HFTW 12 R / HFTW 12 S



### Features:

3 switch settings: Cool – 600 W – 1200 W.  
Separate ON/OFF safety push button.  
2 air speeds.  
Including safety wall bracket  
with nightlight and power cut-off switch  
and with a reversible dry shaver socket (115 V/230 V)  
or safety socket.



### HFTW 12 R

Order no. 01 29 40 ..... white

### HFTW 12 S

Order no. 01 29 57 ..... white

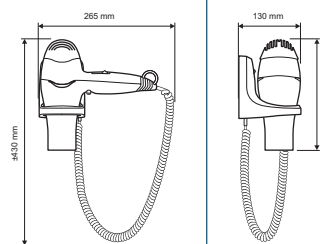
## Starmix handheld hair dryer HFXW 12

The special model for swimming pools  
and sport facilities.



### Features:

3 switch settings: Cool – 600 W – 1200 W.  
Separate ON/OFF safety push button.  
2 air speeds.  
Including safety wall bracket  
with nightlight and power cut-off switch.



### HFXW 12

Order no. 01 35 03 ..... white

without wall bracket, with safety plug

### HFX 12

Order no. 01 35 10 ..... white

# HANDHELD HAIR DRYERS

## HOSPITALITY

### ■ Elegant chrome design

The well-known high-grade handheld hair dryers in elegant chrome design. Optional with coordinated WHC chrome wall bracket (see page 33).

For guest bathrooms in sophisticated hotels and where emphasis is placed on discerning equipment.

#### Features:

- Hair-styling nozzle
- Coiled cable 0.5 m extends to 2.0 m
- Safety wall bracket with nightlight at the TFCW 16
- Safety plug at the models TFC 12 / TFC 16 / TFC 18 / TFCT 16
- Safety temperature limiter
- Special impact resistant ABS case

#### Technical data:

Rated power TFC12..... 1200 Watt  
Rated power TFC16..... 1600 Watt  
Rated power TFC18..... 1800 Watt  
Voltage ..... 230 -240 Volt ~, 50/60 Hz

#### Dimensions and weight:

W 145 mm, D 80 mm, H 190 mm.  
Weight approx. 0.5 kg.

#### Testsymbols TFC-series:



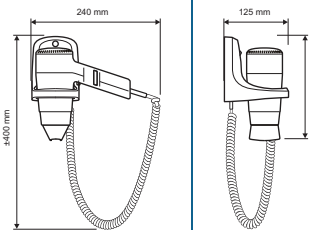
TFC 18 additional



### Starmix handheld hair dryer TFCW 16

#### Features:

4 switch settings: 0 – cool – 800 W – 1600 W.  
2 air speeds. Including safety wall bracket with nightlight and power cut-off switch.



TFCW 16  
Order no. 01 30 39..... black/chrome

**Starmix handheld hair dryers**  
**TFC 12 / TFC 16 / TFC 18**

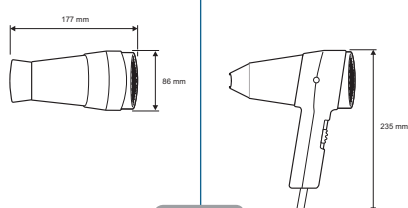
**WITH**  
**1800 Watt!**



**Features:**

Exceptionally quiet. 4 switch settings:  
TFC 12: 0 – Cool – 600 W – 1200 W.  
TFC 16: 0 – Cool – 800 W – 1600 W.  
TFC 18: 0 – Cool – 900 W – 1800 W.  
2 air speeds.

Only TFC 12:



**TFC 12**

Order no. 03 89 26 ..... black/chrome

**TFC 16**

Order no. 15 72 21 ..... white/chrome

Order no. 02 07 23 ..... black/chrome

**TFC 18**

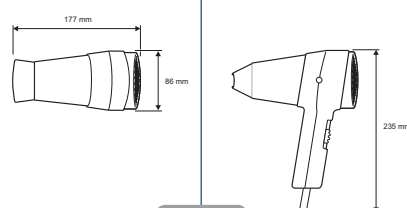
Order no. 01 49 44 ..... black/chrome

**Starmix handheld hair dryer**  
**TFCT 16**



**Features:**

3 switch settings: Cool – 800 W – 1600 W.  
Separate safe ON/OFF push-button.  
2 air speeds.



**TFCT 16**

Order no. 19 81 25 ..... black/chrome



# HAND-HAARTROCKNER

## HOTELLERIE

### The Basic-Line

The entry-level class in the Starmix range of hand hair dryers with a price-performance ratio that will make a believer out of you. Starmix quality and contemporary convenience for money-saving hotel and guest bathrooms equipment. At your choice with wall mountings for permanent electrical wiring or safety plugs.

#### Features:

- Permanent electrical wiring (BFSW 12)
- BFSW 12 with safety wall bracket and safety power cut-off switch according to VDE 0720
- BFS 12 with safety plug
- Hair-styling nozzle
- Coiled cable 0.5 m extends to 2.0 m
- Safety temperature limiter

#### Technical data:

Rated power ..... 1200 Watt  
Voltage ..... 230-240 Volt ~, 50/60 Hz

#### Dimensions and weight:

Hair dryer BFSW 12  
W 260 mm, D 116 mm, H 175 mm.  
incl. wall bracket.  
Weight 0.71 kg with wall bracket.

Hair dryer BFS 12  
W 150 mm, D 73 mm, H 213 mm.  
Weight 0.59 kg.

#### Testsymbols BFS-series:

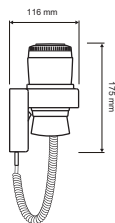
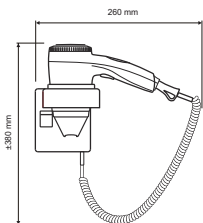


Starmix handheld hair dryer  
BFSW 12



#### Features:

With ON/OFF safety push button  
= 1 switch setting (1200 W) and one air speed.  
Including safety wall bracket  
and safety power cut-off switch.



BFSW 12

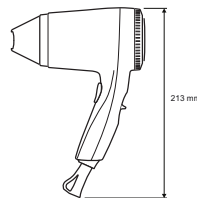
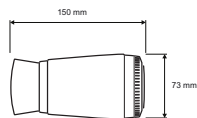
Order no. 01 49 37 ..... white

Starmix handheld hair dryer  
BFS 12



#### Features:

With ON/OFF safety push button  
= 1 switch setting (1200 W) and one air speed.



BFS 12

Order no. 01 49 13 ..... white

# ZUBEHÖR FÜR HAND-HAARTROCKNER

## HOTELLERIE

### Cotton bags for storing handheld hair dryers



#### Features:

Cotton bag with print  
Velvet bag with embroidery

#### Dimensions:

Cotton bag, W 290 mm, H 400 mm.  
Velvet bag, W 253 mm, H 410 mm.

#### Cotton bag

Order no. 58 29 24 .....black

#### Velvet bag

Order no. 58 71 41 .....black

### Starmix wall bracket WH



#### Features:

Safety wall bracket for permanent electrical wiring  
with power cut-off switch  
and sensor-controlled **nightlight**.  
For combining with the **Starmix TFC ... and HF ...**  
**handheld hair dryers ...**, also for refitting.

#### Dimensions and weight:

W 88 mm, D 122 mm, H 122 mm, weight 0,28 kg

#### WH

Order no. 01 30 53 ..... white  
Order no. 01 30 46 .....black

### Starmix chrome wall bracket WHC



#### Features:

Heavy-duty high-grade chrome design.  
Inside with a plastic ring to protect the handheld  
hot-air hair dryer. Diameter inside of the wall bracket  
about 70 mm Ø. **Matches the Starmix TFC...  
and DC... handheld hair dryers.**

Can be ordered together with the corresponding  
Starmix handheld hair dryers.

#### WHC

Order no. 15 81 05 .....chrome  
Can be ordered together with the correspon-  
ding Starmix handheld hair dryers.

# OVERALL VIEW

## The Starmix handheld hair dryer program

Model Order no.	Leaflet page	Rated power Watt	Wall bracket/ Permanent electrical wiring	Nightlight	Safety power cut-off switch	Safety plug	Coiled cable (meter)	Hair-styling nozzle	Switch settings	Air velocity	Safety ON/OFF push button	Separate cool button	Reversible dry shaver socket 115/230 V ~ (EU- + US-plug)	Safety socket	Safety temperature limiter	Chrome wall bracket WHC Wall bracket WH
TFCW 16 01 30 39	32	1600	■	■	■		0,5-2,0	■	4	2					■	
HFTW 16 01 29 64	29	1600	■	■	■		0,5-2,0	■	3	2	■				■	
HFW 12 01 29 95	30	1200	■	■	■		0,5-2,0	■	4	2					■	
HF 12 01 30 22	30	1200				■	0,5-2,0	■	4	2					■	
HFTW 12 01 29 33	30	1200	■	■	■		0,5-2,0	■	3	2	■				■	
HFT 12 01 29 88	30	1200				■	0,5-2,0	■	3	2	■				■	
HFSW 12 01 28 89	30	1200	■	■	■		0,5-2,0	■	1	1	■				■	
HFS 12 01 29 26	30	1200				■	0,5-2,0	■	1	1	■				■	
HFTW 12 R 01 29 40	31	1200	■	■	■		0,5-2,0	■	3	2	■		■		■	
HFTW 12 S 01 29 57	31	1200	■	■	■		0,5-2,0	■	3	2	■			■	■	
HFXW 12 01 35 03	31	1200	■	■	■		0,5-2,0	■	3	2	■				■	
HFX 12 01 35 10	31	1200				■	0,5-2,0	■	3	2	■				■	
TFC 12 03 90 22 / 03 89 26	33	1200				■	0,5-2,0	■	4	2					■	opt.
TFC 16 15 72 21 / 02 07 23	33	1600				■	0,5-2,0	■	4	2					■	opt.
TFC 18 01 49 44	33	1800				■	0,5-2,0	■	4	2					■	opt.
TFCT 16 19 81 25	33	1600				■	0,5-2,0	■	3	2	■				■	opt.
BFSW 12 01 49 37	35	1200	■		■		0,5-2,0	■	1	1	■				■	
BFS 12 01 49 13	35	1200				■	0,5-2,0	■	1	1	■				■	opt.

Special voltages on request.

opt. = optional

## COLOUR LINE

### PERFECT INDIVIDUALISATION

#### ■ Colour Line

Together with our partner ROOS & ROOS, we offer you the perfect quality individualisation of select appliances from our range of products\* in the colour you request or in your company's corporate design.



**"How should I get dressed up for you?  
Take a look!"**

Different people have different ideas about what their world should look like. One person likes fittings in his or her favourite colour. The other wants to renovate the bath or kitchen and is looking desperately for a fitting surface such as bronze. Unfortunately, that's not made any more - or maybe it is. Of course, at ROOS & ROOS because we are the ones who make the impossible possible.

We manufacture any surface you can imagine in the three coating processes of electroplating, powder and wet varnish: in any colour or combination of colours, glossy or matt with just the right finish. No matter how unusual your ideas or patterns, the more ROOS & ROOS will be the place to go to. And what surface are you looking for?

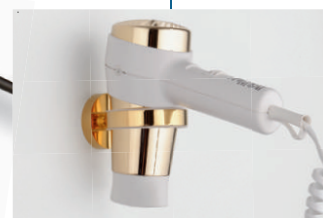
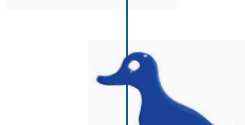
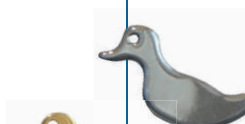
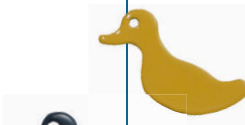
Your parts are inspected in detail after coating and put back together again with the same care and expertise. It doesn't matter whether you call up warehouse products or place individual orders, we're just as reliable. Put us to the test.



ROOS & ROOS

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Internet: www.roos-u-roos.de

\* hot-air hand dryer XT 1000,  
handheld hair dryer TFCW 16, TFC 12/16/18, TFCT 16.





# SHAVING AND MAKE-UP MIRRORS

## HOSPITALITY

### ■ Classical elegance and premium quality

As a strong brand for the hotel bathroom, Starmix offers a complete programme of shaving and make-up mirrors in elegant design and **best hotel quality**.



**Starmix shaving and make-up mirror MS 52 B illuminated**

#### Features:

3 x magnifying, can be **turned and tilted**.  
**With double swivel arm.** Dimensions: 380 mm,  
mirror Ø 200 mm.

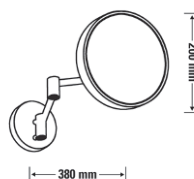
**LED-illumination**, 22 diodes, 6 Watt.

Voltage: 230 -240 Volt ~, 50/60 Hz.

ON/OFF switch at the mirror.

Material: brass chrome-plated.

LED  
ILLUMINATION



Testsymbols MH / MS-series illuminated:

IP20 

MS 52 B

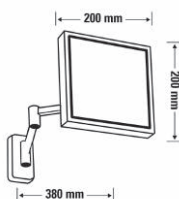
Order no. 01 03 97 .....chrome

**Starmix shaving and make-up mirror MS 50 B illuminated**



**Features:**

3 x magnifying, can be **turned and tilted**.  
**With double swivel arm.** Dimensions: 380 mm, mirror 200 x 200 mm.  
**LED-illumination**, 22 diodes, 6 Watt.  
 Voltage: 230 -240 Volt ~, 50/60 Hz.  
 ON/OFF switch at the mirror.  
 Material: brass chrome-plated.



**MS 50 B**

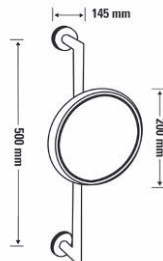
Order no. 01 04 34 .....chrome

**Starmix shaving and make-up mirror MH 42 B illuminated / MH 42 U non-illuminated**



**Features:**

3 x magnifying, can be **turned and tilted**.  
**Wall bar for height adjustment.**  
 Dimensions: Projection 145 mm, wall bar 500 mm, mirror Ø 200 mm.  
 MH 42 B with **LED- illumination**, 22 diodes, 6 Watt.  
 Voltage: 230 -240 Volt ~, 50/60 Hz.  
 ON/OFF switch at the mirror.  
**Plug in plug system,**  
 Coiled cable 540 – extends to 1500 mm.  
 Material: brass chrome-plated.



**MH 42 B**

Order no. 01 04 58 .....chrome

**MH 42 U**

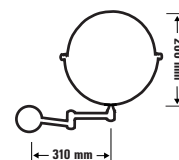
Order no. 01 04 10 .....chrome

**Starmix shaving and make-up mirror MS 22 U chrome**



**Features:**

Standard mirror and 3 x magnifying, **turnable**.  
 Twin swivel arm, length 310 mm.  
 Mirror Ø 200 mm.  
 Material: brass chrome-plated.



**MS 22 U chrome**

Order no. 01 05 02 .....chrome

# SHAVING AND MAKE-UP MIRRORS

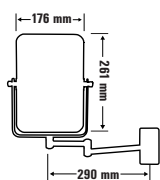
## HOSPITALITY

Starmix shaving and make-up mirror MS 20 U chrome



**Features:**

Standard mirror and 3 x magnifying, **turnable**.  
Twin swivel arm, length 290 mm.  
Mirror dimensions 176 x 261 mm.  
Material: brass chrome-plated.



MS 20 U chrome

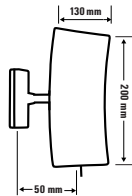
Order no. 01 04 96 .....chrome

Starmix shaving and make-up mirror MW 10 U chrome



**Features:**

3 x magnifying, ball joint.  
Dimensions: Projection 50 mm.  
Mirror dimensions 130 x 200 mm.  
Material: brass chrome-plated.



MW 10 U chrome

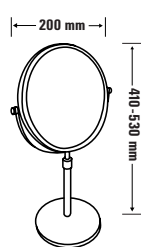
Order no. 01 05 33 .....chrome

Starmix standing mirror MT 32 U



**Features:**

Standard mirror and 3 x magnifying, **turnable**.  
Dimensions: Mirror Ø 200 mm,  
height 410-530 mm adjustable. Base Ø 160 mm.  
Material: brass chrome-plated.



MT 32 U chrome

Order no. 01 04 03 .....chrome

## ACCESSORIES

### HOSPITALITY

#### ■ Starmix ironing centre BE 14 for hotels

The Starmix ironing centre for guest rooms is the **optimal solution** for the hotel and – without expenditures – an excellent service for guests who place emphasis on discerning appearance.

Compact handy ironing centre with stable ironing board, auto shut-off dry iron, maintenance-free.

**Theft-proof as the power cord is permanently secured to the ironing board.**

Patented suspension bracket for the iron and suspension hook for **simple storage** of the complete ironing centre in a cabinet without screws or dowels.

#### Features:

- **Auto shut-off for maximum safety\***  
(Description look on the right)
- Theft-proof and maintenance-free
- Dry ironing centre with Non-stick-sole  
(Teflon coating)
- Height adjustment 27-87 cm
- Patented suspension hook for simple  
storage in a cabinet

#### Technical data:

Rated power ..... 1100 Watt  
Voltage ..... 230 - 240 Volt ~, 50/60 Hz  
Mains line ..... 1.5 m

#### Dimensions and weight:

Folded H 1440 mm, W 250 mm, D 420 mm.  
Unfolded H (max.) 860 mm, W 1180 mm, D 420 mm.  
Weight: approx. 6 kg.

#### Testsymbols BE 14:



#### \* Dry iron with auto shut-off for complete safety:

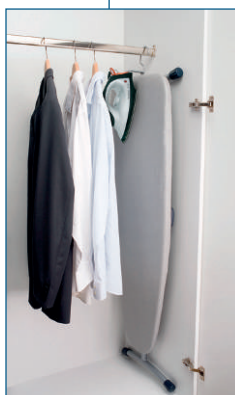
The iron automatically switches itself off if it has not been used for **30 seconds**, yet reheats immediately when it is picked up. If left unused in the vertical position, the iron will automatically switch off after 8 minutes.



#### Easy to store:

The compact Starmix ironing centre can be easily hung up to disappear in the cabinet with our handy patented hanger.

Our plastic board (also patented) is handy and lightweight.



#### Cable reel:

The cable (1.5 m long) can be rolled up onto a handy cable reel on the back side of the ironing board.

BE 14

Order no. 01 09 46 ..... black/silver



# SOAP DISPENSERS & ACCESSORIES

## HOSPITALITY

Starmix soap dispensers  
SP 18 / SP 25



**Features:**

**Refillable with** Body & Hair Shampoo or liquid soap.

**Tank content:** SP 18 = 180 ml / SP 25 = 250 ml.  
Economical dosing.

**Lockable case** made of impact-resistant ABS.

Can be mounted on mirror surfaces.  
Wall mounting with 2 screws or water-proof  
doublesided adhesive tape.

**Dimensions:**

W 50 mm, D 75 mm, H 140 mm (SP 18) /  
H 175 mm (SP 25).

SP 18

Order no. 02 52 30 ..... chrome /glass clear

SP 25

Order no. 02 89 03 ..... chrome /glass clear

Starmix tissue dispenser  
KT 100



**Features:**

Case made of impact-resistant ABS plastic.  
Can be easily mounted on the wall with 2 screws.

**Dimensions and weight:**

W 265 mm, D 70 mm, H 140 mm.  
Weight approx. 0.4 kg.

KT 100

Order no. 02 95 04 ..... chrome

Starmix hygiene bag  
HB 25



**Features:**

Case made of impact-resistant ABS plastic.  
Can be easily mounted on the wall with 2 screws  
or adhesive tape.

**Dimensions and weight:**

W 135 mm, D 28 mm, H 95 mm.  
Weight 0.2 kg.

HB 25

Order no. 02 93 06 ..... chrome

Refill box HBB 25

Order no. 41 13 92 ..... clear sale  
Refill box holds 25 hygiene bags,  
packing unit 48 x 25 pieces.  
( See accessories price list)

## Explanation of the test symbols:



The VDE symbol (the German Association for Electrical Engineering, Electronics and Information Technology). The VDE symbol stands for product safety in terms of electrical, mechanical, thermal, toxic, radiological and other hazards.



Tested safety. These devices have to satisfy the generally recognised rules of technology and be in conformity with the German Equipment Safety Law.



This product satisfies the requirements of the German Equipment Product Safety Law.



The test seal of VDE for electromagnetic compatibility.



The Norwegian test mark that enjoys global recognition as a sign of conforming to the relevant safety and electromagnetic compatibility standards.



Case with protective insulation (protection class II). This device does not require a safety conductor.

**IPX1**

Protected against dripping water falling vertically.

**IPX33**

Protects against solid foreign bodies penetrating with a  $\varnothing > 12.5$  mm.  
Protects against water spray at an angle of up to  $60^\circ$ .

**IP20**

Protects against solid foreign bodies penetrating with a  $\varnothing > 12.5$  mm.

**IP22**

Protected against the penetration of foreign bodies  $\varnothing > 12$  mm.  
Protected against water falling at an angle (dripping water),  $15^\circ$  to the normal working position.

**IP23**

Protected against the penetration of foreign bodies  $\varnothing > 12$  mm.  
Protected against spraying water as much as  $60^\circ$  to the normal working position.

**IP24**

Protected against the penetration of foreign bodies  $\varnothing > 12$  mm.  
Protected against splashing water from all directions.

**IP34**

Protected against the penetration of foreign bodies  $\varnothing > 2,5$  mm.  
Protected against splashing water from all directions.



GOST R certification is obligatory for a number of products based on the safety test (IEC standards with specific differences for Russia).



The manufacturer has the CE symbol (Conformité Européenne) to confirm the fact that the product is in conformity with the corresponding EC Directives and complies with the "essential requirements" set forth therein.

**Sound pressure**

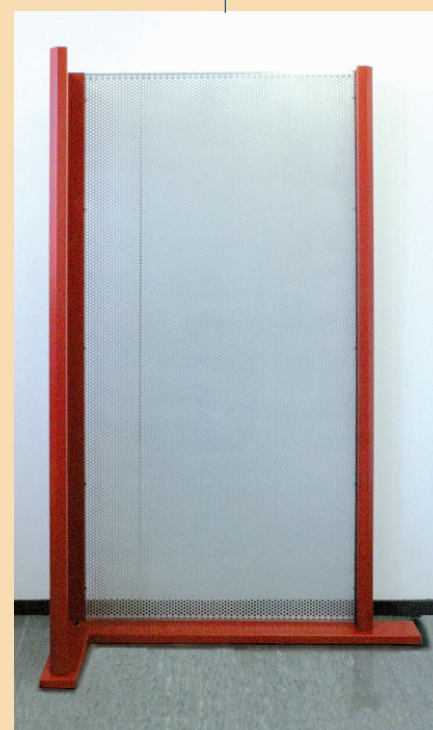
The sound volume is taken according to DIN EN 60704-1 and DIN EN 60704-2-1.

## ■ Display for the presentation of Starmix sanitary products

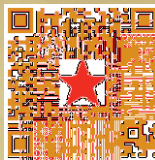
Perforated sheet metal for the individual placement of Starmix sanitary products.  
High-quality metal construction with lasered Starmix logo.

### Dimensions:

L 123 cm, D 38 cm, H 205 cm.



**Sanitary Display**  
Order no. 43 26 18 .....red/white



Find more informations  
[www.starmix.de/sanitary](http://www.starmix.de/sanitary)

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