

KATRIN[®]

Giving Hand Towels the thumbs up!



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Katrin. At Hand.

Hot Air vs Paper

Katrin. At Hand.

Traditional Air Dryer

Jet Air Dryer

- Work with warm air
- High energy use
 - High environmental impact
- Blows air into the environment
 - Spreads bacteria on fast moving air currents
- On some designs, users still touch hot air outlet for direction change
 - Cross contamination
- Slow to dry hands
 - 90% dry after 10 seconds
 - Bottleneck in washroom facilities
 - Negative experience
 - Causes queues
 - People breathing in bacteria laden air whilst queuing
 - Constant use of dryer can make washroom hot and unpleasant to stand in
- Can break down
 - Negative brand impact
- Users often prefer to take toilet paper to dry their hands
 - Increases toilet paper usage
 - Dripping water across the floor as they do this
 - Health & Safety hazard
- Very noisy



- Work with cold air
- Less energy use than traditional dryers
 - But still higher environmental impact than paper
- Closed design but still causes fast moving air currents for bacteria to spread long distances on
- Tight opening is touched by 96% of users
 - Cross contamination
- Slow to dry hands
 - Bottleneck in washroom facilities
 - Negative experience
 - Causes queues
 - People breathing in bacteria laden air whilst queuing
 - Constant use of dryer can make washroom hot and unpleasant to stand in
- Can break down
 - Negative brand impact
- Hot air can irritate skin conditions
- Users often prefer to take toilet paper to dry their hands
 - Increases toilet paper usage
 - Dripping water across the floor as they do this
 - Health & Safety hazard
- Very noisy
- Water drips out of the bottom of the devices causing hazard or incurring greater maintenance costs

	Hot Air	Paper
Loading product in dispensers	👎	👍
Use of surface area	👎	👍
Self presentation	👎	👍
Protection from cross contamination	👎	👍
Usage effectiveness	👎	👍
Labour cost effectiveness	👎	👍
Administrative effectiveness	👎	👍
Logistics effectiveness	👎	👍
End User satisfaction	👎	👍
Brand image	👎	👍
Quality	👎	👍
Return on investment	👎	👍
Environmental concern	👎	👍



Paper

- Nordic Swan label guarantees least burden on the environment
- Self presenting towels eliminate spread of bacteria
- One sheet use ensures paper is always available
- Good absorbency ensures fast drying
 - Many people can dry their hands at once without queuing
- Hypoallergenic papers available
- Durable, maintenance free dispensers ensure paper is always available
- No burden on toilet paper usage
- Makes no noise

A guide to hand dryer noise – is this progress?

Hand Dryer	Model	Dry Time (sec)	Cost (\$)	Decibels
Dyson Air Blade	AB02	11	1399	90
Xlerator	XL-W	12	418	95-100
World Dryer Airforce	J-974	14	260	85
World Dryer Airmax	XM5-974	15	395	83
World Dryer Model A	XA5-974	27	360	82
Electric-Aire	LE1-974	40	150	70
Fast Dry	HK-1800PA	45	91	58
Katrin Paper Towel	Plus	6	?	0

SOURCE: THE ACOUSTICAL SOCIETY OF AMERICA, HAND DRYER NOISE REPORT
90 decibels equals the level of a chainsaw or the noise in a club

Drying with a Jet Air dryer increases the total number of bacteria on the finger pads on average by 42% and on the palms by 15% whereas drying hands with a paper towel, reduces bacteria on the finger pads by up to 76% and on the palms by up to 77%.

Source: *Westminster Study end 2008