



## SPIRO SPEAKING VALVE & HME HUMIDIFIER

FOR TRACHEOSTOMY TUBE USERS  
MADE IN SWEDEN

WASHABLE & REUSABLE | WITH CHANGEABLE FILTERS

**RECOMMENDED  
BY DOCTORS  
& PATIENTS**

Hundreds of my patients have used Ashton's Washable & Reusable Speaking Valve, HME and Day & Night Kits and they are very satisfied. I highly recommend these products.

- Dr. Hitesh Gupta, Speech & Swallow Therapist, BLK-Max Super Speciality Hospital Delhi, India

### A GREAT MEDICAL INNOVATION IN A CONVENIENT FORM FOR PATIENTS 6 MONTHS & ABOVE

Improves patient communication

Improves swallowing

Improves smell and taste



Improves secretion management

Helps in coughing

Decreases risk for infection

## GIVE YOUR PATIENT A VOICE WITH ASHTON SPIRO SPEAKING VALVE SYSTEM



✓ SIMPLIFIES THE CARE - IMPROVES THE HEALTH

✓ SIGNIFICANT PATIENT ADVANTAGES

✓ REDUCES THE COST

✓ EFFICIENT USABILITY

Fits with any tracheostomy tube size having the universal 15 mm connector

# ASHTON SPIRO SPEAKING VALVE

## AN EAGERLY AWAITED INNOVATION FOR TRACHEOSTOMY PATIENTS & FOR THE HEALTH SERVICE

Patients using a tracheostomy tube are often under considerable physical & psychological stress. This affects the entire medical team and the care of the patient. Speaking Valve makes the functions of Speech, Swallow & Coughing much easier.

**ASHTON SPIRO SPEAKING VALVE** is an important step in this direction. It is a one-way valve which attaches to the outside opening of the tracheostomy tube and opens only for inhalation. When the patient breathes out, the valve closes and the exhaled air flows up through the vocal cords allowing sounds to be made. The patient breathes out through the mouth & nose instead of the tracheostomy.

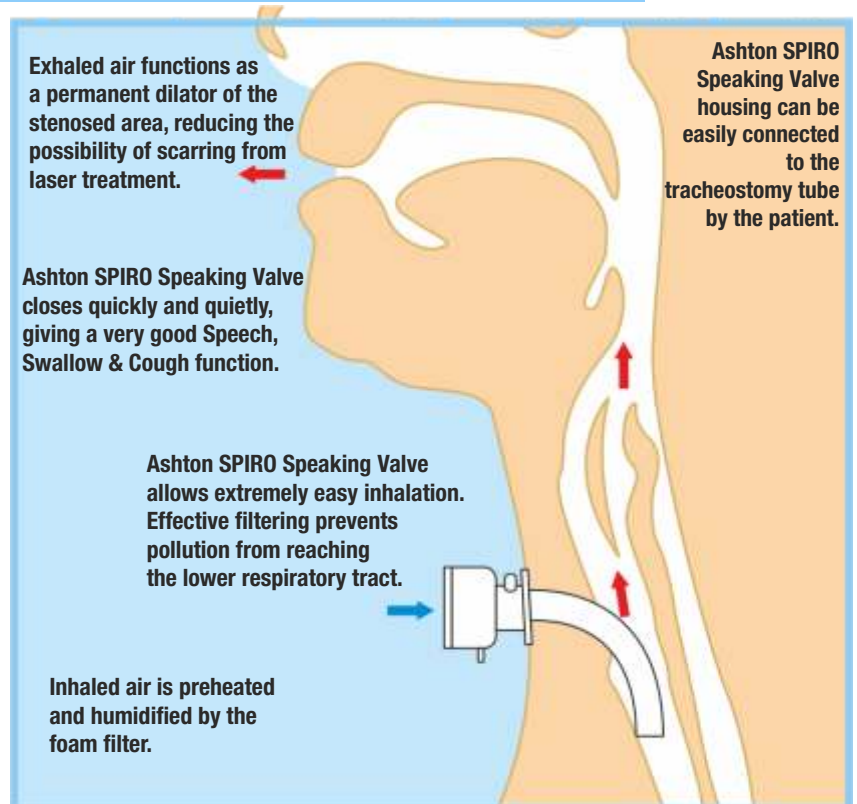


## A GREAT MEDICAL INNOVATION IN A CONVENIENT FORM

- **FDA & CE Approved**
- **Supplementary Oxygen can be provided through the integrated Ø5.5mm Oxygen Nipple when required (Available in model 710 & 710R only)**
- **Handy size and low weight makes it simple to use**
- **Finger occlusion is not required. Saving the patient from infection**

Ashton SPIRO Speaking Valves fit with any tracheostomy tube size, neonatal, pediatric or adult. The only requirement is that the tube must have the universal 15 mm connector.

**It cannot be used with inline ventilators, endotracheal tubes or other artificial airways.**



## A MEDICAL DEVICE WHICH IS UNEQUALED

Ashton SPIRO Speaking Valve is a medical device of exceptional quality, compared with other products on the market. During its development, information and medical advice was given by medical specialists at Danderyd Hospital in Stockholm, Sweden. Clinical trials were tailored accordingly. Therefore, it has been carefully & practically tested.



**Danderyd Hospital, Stockholm. One of the largest hospitals in Sweden with specialists in anaesthesiology & respiratory care.**

**Ashton<sup>®</sup>**

# ASHTON SPIRO SPEAKING VALVE

## SIMPLIFIES THE CARE - IMPROVES THE HEALTH

Ashton SPIRO Speaking Valve is of extremely high quality and fulfils a great need within anaesthesiology and breathing care. Its highly efficient filter cleans the inhaled air and prevents the particles from reaching the lower respiratory track. This reduces the risk of infection and minimizes the need for suction.



## SIGNIFICANT PATIENT ADVANTAGES



Ashton SPIRO Speaking Valve has eliminated common problems for intubated patients. It is small, convenient and very lightweight compared to other speech aids. It can be worn discretely under the patient's clothes. It is also very easily handled by all types of patients. The whole valve can be removed and replaced in one simple step. When required, the device housing can be cleaned with fresh water and the changeable filter can be replaced.

## REDUCES THE COST

Ashton SPIRO Speaking Valve & HME Humidifier Devices are a complete system using changeable filters. The Speaking Valve helps in Speech, Swallow & Coughing functions whereas the HME Humidifier works as a 24x7 filter with moisturizing and air warming functions. The easy handling, changeable filters and accessories makes them very cost-effective.

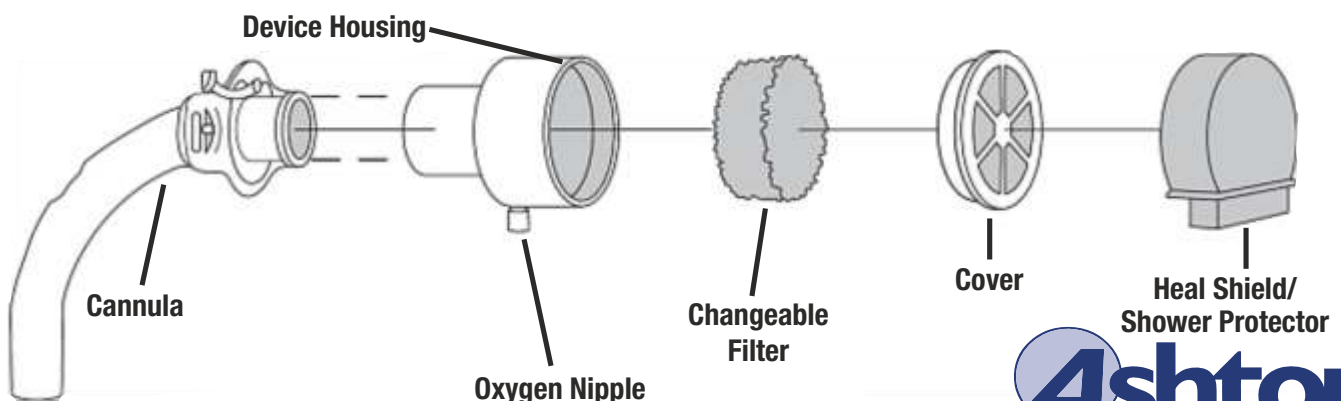
## EFFICIENT USABILITY

Exhalation through vocal cords is made easier as the silicone membrane closes immediately during expiration. This gives good speech function and ensures that during coughing, the filter and Speaking Valve are not affected by secretions.

The stenosed area will be positively affected, with less tendency of scarring from laser treatment. The exhaled air functions as a permanent dilator of the stenosed area. The housing of this device has an integrated Oxygen Nipple through which oxygen can be provided when required.

RESISTANCE TO FLOW for Ashton SPIRO Speaking Valve is  $< 2 \text{ cm H}_2\text{O}$  @ 30 Litres per minute and with the heat shield/shower protection on  $< 3 \text{ cm H}_2\text{O}$  @ 30 Litres per minute.

## PART DIAGRAM FOR ASHTON SPIRO SPEAKING VALVES & HME HUMIDIFIER



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# WHO CAN USE THE SPEAKING VALVE

**THE SPEAKING VALVE** enables a tracheostomy patient to use their own vocal cords for speech as it connects directly to the patient's tracheostomy tube and being a one-way valve it forces the exhaled air to follow the normal route (through the vocal cords) during expiration to create speech.

**Speaking Valve may be used by tracheostomy patients aged 6 months & above. To use a Speaking Valve the patient must be conscious, relaxed & responsive. Patients who have had a laryngectomy are unable to use a Speaking Valve.**

The type of tracheostomy tube the patient has is very important. The Speaking Valve can never be used with a cuffed unfenestrated tracheostomy tube as this would not allow the patient to exhale and lead to death. **It cannot be used with inline ventilators, endotracheal tubes or other artificial airways.**

Other patients who are unable to use a Speaking Valve include those who have severe upper airway obstruction or aspiration risk, tenacious or copious secretions, decreased cognitive status, severe medical instability, or an inability to tolerate cuff deflation.

If the vocal cords are scarred or paralyzed, the patient's voice may sound hoarse or unusual.

## MAIN FUNCTIONS OF ASHTON SPIRO SPEAKING VALVE

The main function of Ashton SPIRO Speaking Valve is ofcourse to restore the speaking function of patient with a tracheostomy however some more important advantages of using the Speaking Valve include:

- (a) Allowing the patient to cough more effectively,
- (b) Improving the swallowing function (by increasing the pharyngeal pressure, which is needed to move the food bolus down the pharynx and into the esophagus),
- (c) Restoring the sense of smell and taste, thus increasing appetite and nutritional intake,
- (d) Reducing secretions,
- (e) Allowing easier bowel movements,
- (f) Eliminating the need for finger occlusion.

In addition, the Speaking Valve also helps to build patient confidence and reduce anxiety upon decannulation. The Speaking Valve is an excellent therapy device to help the patient build strength and practice spontaneous breathing on their own.

## IMPORTANT FEATURES OF ASHTON SPIRO SPEAKING VALVE

- 1. LOW INHALATION RESISTANCE:** Ashton SPIRO Speaking Valve has a very low inhalation resistance so the patient does not experience "out of breath" sensations.
- 2. FILTRATION:** It prevents dust and other particles from entering the deeper respiratory passages and thus minimizes the risk of infections and the need for phlegm suctioning.
- 3. ERGONOMICS:** This device is very light weight & compact and the action of silicone membrane is as quiet as possible.
- 4. OPERATION:** This device is as quiet as possible in operation. It doesn't make any abnormal noises like whistles.
- 5. OTHER IMPORTANT QUALITIES:** It is easy to handle and maintain. Its accessories like Changeable Filters and Shower Caps are easily available to protect the user from water entering the tube when bathing.



# ASHTON SPIRO HME HUMIDIFIER

**For the 1<sup>st</sup> Time in India Washable & Reusable HME**

**Available Exclusively through Ashton**



The nose and mouth provide warmth, moisture and filtration for the air we breathe. Having a tracheostomy tube, however, by-passes these mechanisms so humidification must be provided to keep secretions thin and to avoid mucus plugs. Secretions can be kept thin by attaching a Heat Moisture Exchanger (HME) to the tracheostomy tube.

**ASHTON SPIRO HME HUMIDIFIER 702 WITH** Oxygen Nipple is a humidifying device with changeable filter and is used on a tracheostomy cannula to take advantage of the heat and moisture that is exhaled. During expiration, the HME picks up some of the moisture from the expired humid air. These water droplets retain some of the heat from the gas which has carried them. During inspiration, the incoming torrent of air collects these warm water droplets, and carries them as vapour into the lungs of your patient.

**The patient cannot speak with this device. Patients who have had a laryngectomy can use HME HUMIDIFIER.**

## FUNCTIONS OF ASHTON SPIRO HME HUMIDIFIER

- Heat and moisture exchanging capacity;
- Provides resistance;
- Filters dust particles, flies & mosquitoes etc. from entering the respiratory system.

The basic component of HME is its changeable foam filter which acts as a condensation and absorption surface.

**The HME Humidifier must never be used without the changeable filter which must be changed on a regular basis and more often if a build-up of mucus or phlegm is present.**



## BENEFITS OF ASHTON SPIRO HME HUMIDIFIER

- Reduces Pulmonary problems like coughing, forced expectoration, sputum production etc.
- Reduces water loss in the respiratory system

**It fits with any tracheostomy tube size, neonatal, pediatric or adult. The only requirement is that the tube must have the universal 15 mm connector.** The humidifier must be removed before inhalation of medicine. If it is left on, remove it and rinse it to remove any medications that could cause the device to stick or not work well. Supplementary Oxygen can be provided through the integrated Ø5.5mm Oxygen Nipple when required.

RESISTANCE TO FLOW for ASHTON SPIRO HME HUMIDIFIER is < 0.8 cm H<sub>2</sub>O at 30 litres per minute and with heat shield/shower protection on it has a resistance to flow < 1.2 cm H<sub>2</sub>O at 30 litres per minute.

**Ashton**<sup>®</sup>

# A SYSTEM THAT IS UNEQUALED



**SPEAKING VALVE 710**  
with oxygen nipple  
(Transparent)



**SPEAKING VALVE 710R**  
with oxygen nipple  
(Purple)

**ASHTON SPIRO SPEAKING VALVE 710 (Transparent) & 710R (Purple) WITH** Oxygen Nipple for spontaneous breathing tracheostomy patients. Intended to allow the patients to speak without the need for finger occlusion. Also provides back pressure for other common body functions. Changeable filters prevent coarse particles from entering the respiratory system. Supplementary Oxygen can be provided through the integrated Ø5.5mm Oxygen Nipple when required.

The main valve housing can be re-used multiple times with correct care. **When resting or sleeping the patient should use Ashton SPIRO HME Humidifier 702.**

The purple coloured Speaking Valve 710R helps medical staff in easily identifying it among other medical attachments.

**ASHTON SPIRO SPEAKING VALVE 711 WITHOUT** Oxygen Nipple for spontaneous breathing tracheostomy patients. Intended to allow the patients to speak without the need for finger occlusion. Also provides back pressure for other common body functions. Changeable filters prevent coarse particles from entering the respiratory system. Oxygen cannot be provided in this Speaking Valve.



**SPEAKING VALVE 711**  
without oxygen nipple  
(Transparent)

The main valve housing can be re-used multiple times with correct care. **When resting or sleeping the patient should use Ashton SPIRO HME Humidifier 702.**



**HME HUMIDIFIER 702**  
filter with air warming &  
moisturizing functions

**ASHTON SPIRO HME HUMIDIFIER 702** is a Heat & Moisture Exchanger with Oxygen Nipple for spontaneous breathing tracheostomy patients. This device provides comfortable heat and moisture to the patient and prevents the coarse particles from entering the respiratory system. This device has a changeable filter. The main device housing can be re-used multiple times with correct care.

**The patient cannot speak with this device and it is used mostly when the patient is resting or sleeping.**

Supplementary Oxygen can be provided through the integrated Ø5.5mm Oxygen Nipple when required.

## ASHTON SPIRO CHANGEABLE FILTERS 740 for Speaking Valves & HME Humidifier

- Changeable filters for Ashton SPIRO Speaking Valves 710, 710R and 711
- Changeable filters for Ashton SPIRO HME Humidifier 702

These filters prevent the dust particles, flies & mosquitoes etc. from entering the respiratory system.

These act as a condensation and absorption surface and must be changed on a regular basis and more often if a build-up of mucus or phlegm is present.



**CHANGEABLE FILTERS 740**  
for Speaking Valves &  
HME Humidifier

# ASHTON SPIRO SET

## PREMIUM SPEAKING VALVE DAY & NIGHT KIT WITH SHOWER CAPS & CHANGEABLE FILTERS

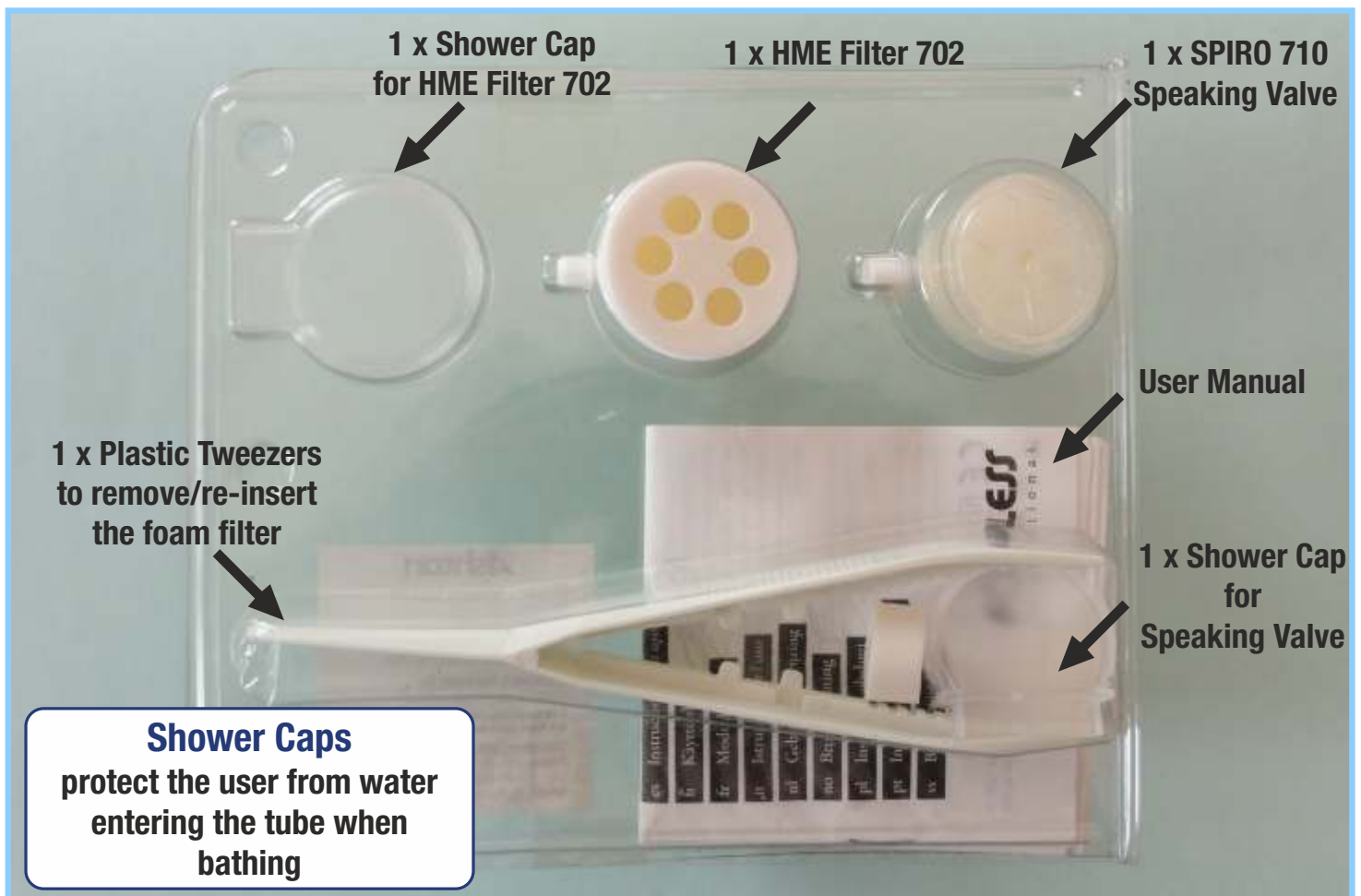
### A COMPLETE SYSTEM FOR TRACHEOSTOMY TUBE USERS

This Premium Day & Night Kit from Ashton is a Complete System for spontaneous breathing tracheostomy patients. This kit contains: 1 x SPIRO 710 Speaking Valve, 1 x 702 HME Filter (Night Valve), 1 x 740 SPIRO Changeable Filter Sheet, 1 x 705 Plastic Tweezers, 1 x Shower Cap for SPIRO Speaking Valve, 1 x Shower Cap for SPIRO HME.



**A COMBINATION  
THAT IS UNEQUALED**

- ✓ **SIMPLIFIES THE CARE  
IMPROVES THE HEALTH**
- ✓ **SIGNIFICANT PATIENT  
ADVANTAGES**
- ✓ **REDUCES THE COST**
- ✓ **EFFICIENT USABILITY**



**WASHABLE & REUSABLE WITH CHANGEABLE FILTERS**



# RECOMMENDED BY PATIENTS & DOCTORS



Since i started using this wonderful product from Ashton, I am more than thrilled to see the kind of response i got from the patients as they were able to speak much clearer compared to other competitive brands. It is reasonably priced for regular use as it is washable & reusable.

- **Dr. Hitesh Gupta - BLK-Max Super Speciality Hospital Delhi, India**  
Occupational Therapist, Dysphagia Expert, Speech & Swallow Therapist  
Earlier with Max Super Speciality Hospital & Medanta

"I am extremely satisfied & able to speak using their Speaking Valve."

- **Retd. Maj. Gen. (Patient) from Mumbai, India**

"We recommend their Speaking Valve & HME for our tracheostomy patients"

- **Dr. M. K. Bagga from Maharashtra, India**

"I have been using their Speaking Valve since last 3 years. Occasionally I drive my motorcycle wearing it and i am comfortable using it while i am outdoors as well as indoors."

- **Mr. Khatiwala (Patient) from Gujarat, India**

## Difference between Ashton SPIRO Speaking Valve & Other Brand in India

	Ashton SPIRO Speaking Valve	Other Brand
<b>INHALATION RESISTANCE</b>	Has a very low inhalation resistance so the patient does not experience "out of breath" sensations.	Has more Resistance, makes it harder for the patient to inhale.
<b>FILTRATION</b>	It prevents dust and other particles from entering the deeper respiratory passages and thus minimizes the risk of infections and the need for phlegm suctioning.	Does not have a filter, therefore the patient breaths-in directly and dust or even insects can enter the respiratory system.
<b>OXYGEN SUPPLY</b>	It has an integrated connector which is behind the membrane and hence the patient receives full oxygen supply.	In this you must use an adapter which sits on the front of the valve and you lose much of the oxygen.
<b>ACCESSORIES</b>	Its accessories like Changeable Filters and shower caps are easily available	Does not have any of the unique accessories, eg. shower cap
<b>COST</b>	Very reasonably priced & Cost Effective	More expensive than Ashton SPIRO

**Legal Disclaimer: The attending Doctor is responsible for correct use of this device at all times. Always Consult your Doctor if you have any queries regarding the product usage.**

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### Distributor

**Available in India, Sri Lanka, Bangladesh, Nepal & Bhutan. Exclusively through Ashton.**