

PULMONARY AND PHONATORY  
REHABILITATION

Cyranose®

HEAT AND MOISTURE EXCHANGER

\*Heat and Moisture Exchanger

 **Ceredas**  
Your confidence inspires us

# Cyranose®

HEAT AND MOISTURE EXCHANGER



The Cyranose® HME\* improves the everyday well being of the laryngectomy patient. Small, light and comfortable, the Cyranose® HME\* simply provides optimum quality of life for all users.

A laryngectomy induces a major change in the respiratory system : absence of filtration, reheating and humidification.

Every season and everywhere, the laryngectomy patient is fully subject to variations in the ambient air: dryness in summer as well as in winter with certain systems of heating, sudden cooling in winter as well as in summer with air-conditioned rooms, pollen in the spring... Since the air inhaled is no longer filtered or heated or humidified by the upper respiratory tract, the respiratory system is particularly exposed: hypersensitivity of the epithelium, pollution and inhalation of particles, increase in the volume of the mucus, dryness and irritation, mucous scabs and plugs. The Cyranose® HME\* aims at reducing these disagreements by restoring a system of air-conditioning that compensates for the elimination of the natural system.

*Cyranose®, for a more economical utilization !*

*Because the secretion trap and casing are made of high-quality stainless steel, Cyranose® provides long-lasting performance and resists repeated cleaning, thus ensuring lower cost for the patient.*



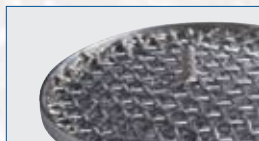
## Cyranose® is made up of 5 elements



**Double sided adhesive**  
Hypoallergenic, for normal or sensitive skin.



**Base**  
In medical silicon. Its diameter ensures easy cleaning of the tracheostoma and the voice prosthesis, where fitted.



**Secretion Trap** : Double grid with tight mesh made of medical stainless steel. Easy to clean using lukewarm and soapy water or boiling water.



**Filter**  
Open-cells polyurethane foam.



**Casing**  
100 % medical stainless steel, closed by a springoperated obstruction valve for the voice prosthesis.

## The + of the Cyranose® HME\*

► **With all of its components, Cyranose® HME\* restores an air-processing system that is close to natural breathing :**

- ✦ Air-filtering performance similar to that of the upper respiratory tract
- ✦ Reduction in coughing, and hence secretions
- ✦ Humidification of the respiratory tract, preventing the formation of mucous scabs and plugs
- ✦ Improvement in breathing
- ✦ Improved performances in terms of heat and humidity recovery because of the metal composition

► **From a practical point of view, the Cyranose® HME\*:**

- ✦ Makes it possible to breathe while coughing
- ✦ Facilitates cleaning of the tracheostoma since it is not necessary to remove the adhesive
- ✦ Can be easily hidden under a shirt base or a scarf thanks to its side openings.




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| DESCRIPTION                                                                                                                                                                                                                                                              | REFERENCES |                                     |          |                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------------------------|----------|-----------------------------|
|  <b>The Cyranose® HME*</b><br>STANDARD CASING :<br><b>1 Standard casing, 3 Secretion traps,<br/>           2 bases, 6 foam filters, 20 adhesives,<br/>           1 adhesive-guide</b>   | CE         | Standard : without voice prosthesis |          |                             |
|                                                                                                                                                                                                                                                                          |            | Base                                | Adhesive | Adhesive for sensitive skin |
|                                                                                                                                                                                                                                                                          |            | A                                   | CYR1013  | CYR1014                     |
|                                                                                                                                                                                                                                                                          |            | E                                   | CYR1021  | CYR1022                     |
|  <b>The Cyranose® HME*</b><br>OBTURATOR CASING :<br><b>1 obturator casing, 3 Secretion traps,<br/>           2 bases, 6 foam filters, 20 adhesives,<br/>           1 adhesive-guide</b> | CE         | Obturator : with voice prosthesis   |          |                             |
|                                                                                                                                                                                                                                                                          |            | Base                                | Adhesive | Adhesive for sensitive skin |
|                                                                                                                                                                                                                                                                          |            | A                                   | CYR2013  | CYR2014                     |
|                                                                                                                                                                                                                                                                          |            | E                                   | CYR2021  | CYR2022                     |
|  <b>The Cyranose® HME*</b><br>SPARES KIT<br><b>3 disposable foam filters,<br/>           100 adhesives</b>                                                                            | CE         | Base                                | Adhesive | Adhesive for sensitive skin |
|                                                                                                                                                                                                                                                                          |            | A                                   | CYR3001  | CYR3002                     |
|                                                                                                                                                                                                                                                                          |            | E                                   | CYR3009  | CYR3010                     |
|                                                                                                                                                                                                                                                                          |            | <b>The Cyranose® HME* - SPARES</b>  |          |                             |
| <b>Standard casing</b>                                                                                                                                                                                                                                                   | CYR4001    |                                     |          |                             |
| <b>Obturator casing</b> (for voice prosthesis)                                                                                                                                                                                                                           | CYR4002    |                                     |          |                             |
| <b>Secretion trap</b>                                                                                                                                                                                                                                                    | CYR4015    |                                     |          |                             |
| <b>Base</b>                                                                                                                                                                                                                                                              | A          | CYR4009                             |          |                             |
|                                                                                                                                                                                                                                                                          | E          | CYR4012                             |          |                             |
| <b>Foam filter</b> (x3)                                                                                                                                                                                                                                                  | CYR4016    |                                     |          |                             |

## Cyranose® bibliography

- 1) Moerman M, Lawson G, Andry G, Remacle M : the Belgian experience with the cyranose heat moisture exchange filter. A multicentric pilot study of 12 total laryngectomees. European Archives of Oto-Rhino-Laryngology 2003 Jul ; 260(6):301-303
- 2) Luboinski B, Gehanno P, Traissac L : la protection des voies respiratoires au niveau du trachéostome chez les laryngectomisés totaux - Intérêt de Cyranose®, Nez artificiel ou E.C.H\*. Revue officielle de la Société Française d'ORL 1995 Nov ; 33:45-50
- 3) Paule Dupuis, MD, Louis Guertin, MD, FRCSC, Marie-Stéphane Rainville, MOA, Dominique-Louise Prud'homme, MOA, and François Lavigne, MD, FRCSC : Montreal's Experience with Cyranose Heat and Moisture Exchanger Use in 15 Laryngectomized Patients. The Journal of Otolaryngology, Vol 36, N° 4 (August), 2007 : pp 208-212.

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# Cyranose®

## GLOBAL SYSTEM

### GLOBAL SOLUTION FOR PULMONARY AND PHONATORY REHABILITATION AFTER A TOTAL LARYNGECTOMY



**Cyranose®** Global System consists of a series of devices made for practitioners and laryngectomy patients for the pulmonary and phonatory rehabilitation of the latter, with or without a voice prosthesis.

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