BALNEOTHERAPY

PERSONAL CARE

The term "balneotherapy" is generally applied to everything relating to spa treatment, including the drinking of waters and the use of **hot baths** and natural **vapor baths**, as well as of the various kinds of **mud and sand** used for hot applications.

) APPLICATIONS :

- Production and distribution of muds for baths
- Manufacturing of muds for cataplasms
- Extraction and distribution of thermal waters



BALNEOTHERAPY - COS



1 ACTIVITY AND MANUFACTURING PROCESS

Several types of muds exist depending on bath resorts :

• **Natural muds or pelose :** naturally formed at the source, the natural mineral water has to pass through a surface layer of peat or silt before the spring.

• **Matured muds or peloids :** impregnation of the substrate takes place over an extended period (weeks or months) required to obtain a fiber and of specific biological compounds.

• Extemporaneous muds : made from an organic and / or mineral substrate, mixed or not with a natural mineral water. The most commonly used organic substrate is kaolin.

Production and circulation of muds for baths





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5. Distribution to therapist

Natural Mineral Waters (NMW) can often require PCP pumps in order to limit the effects of shear and to preserve their structural qualities.



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2 TECHNICAL DATA & PROCESSING RESTRICTIONS

MUDS :

- Viscosity : 500 to 1 500 mPa.s
- Discharge pressure : 2 to 4 bar
- Suction pressure : Flooded

NATURAL MINERAL WATERS :

- Viscosity : 1 to 10 mPa.s
- Discharge pressure : 2 to 4 bar
- Suction pressure : Flooded

3 EQUIPMENT & PROCESSING RECOMMENDATIONS

FOR MUDS :

- Consideration of piping diameter according to the pressure loss calculations.
- Compliance with lower wear rates and maximum permissible internal leakage.
 - Choice of materials see § 4

FOR NATURAL MINERAL WATERS :

- Consideration of piping diameter according to the pressure loss calculations.
- Choice of materials see § 4

4 PRODUCT RECOMMENDATION

ECOMOINEAU™ M

• Rotor : Chrome stainless steel (400 µm) – 0-50°C

- Stator : CR/IR/NR 0-40°C
- **GM** : Type 2 simple Sic/Sic

• Speed : as per the configurator – 150 / 250 RPM depending on model and leakage %



MUDS

VII

- Rotor : Chrome stainless steel (400 µm) – 0-50°C
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- **GM** : Type 2 simple Sic/Sic

• Speed : as per the configurator – 150 / 250 RPM depending on model and leakage %



NATURAL WATERS

) HYCARE™

• Rotor : Stainless steel or chrome

- (HyCare[™] standard) 0-50°C • Stator : Light NBR (HyCare™
- standard) • **GM** : Standard
- **Speed** : As per the configurator (ie : 350 RPM for 13HY12)





For more information, please find your nearest contact : www.pcm.eu

