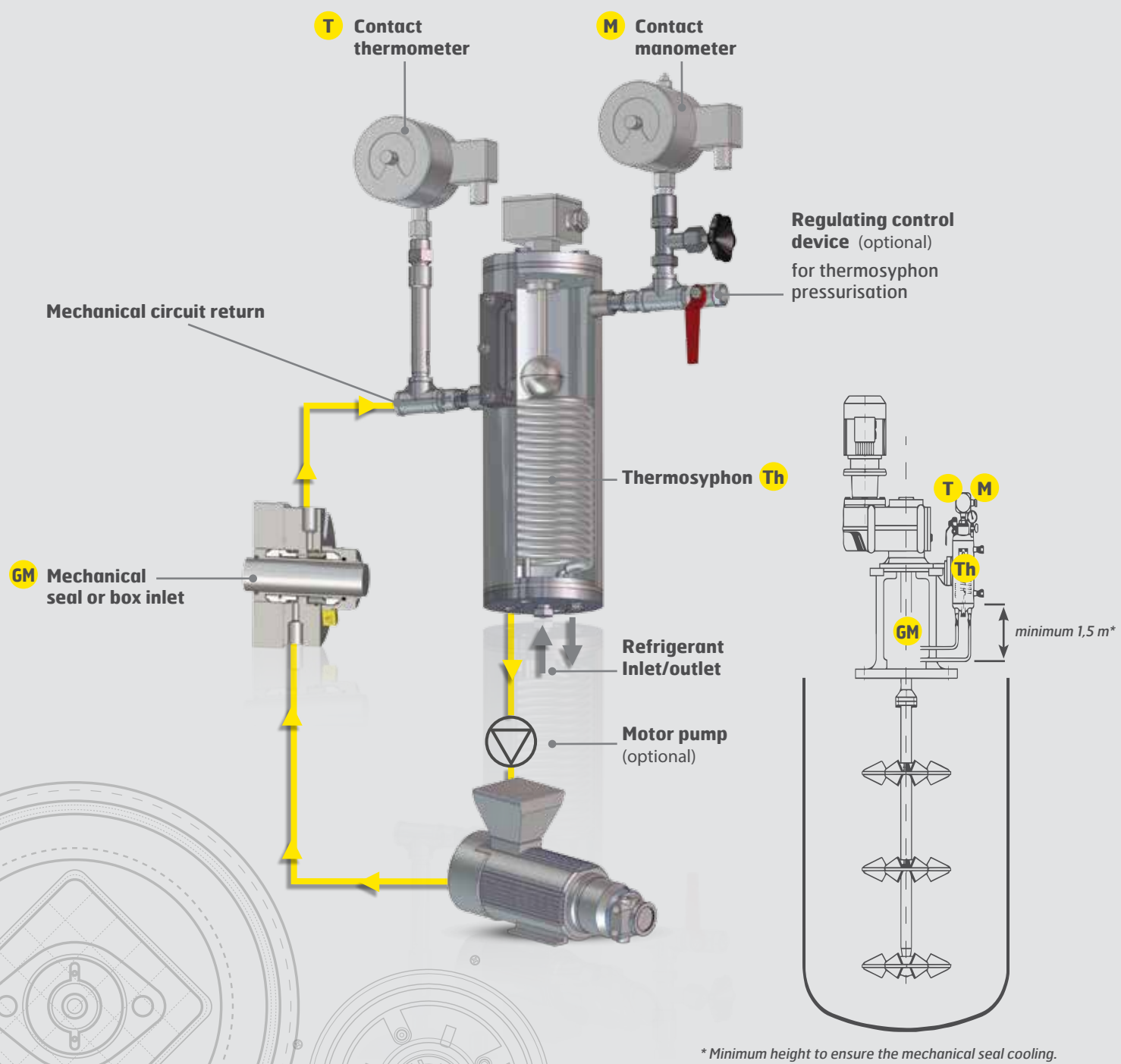




# ANCILLARY SYSTEMS FOR DOUBLE MECHANICAL SEALS

**GROUPE LATTY®** has developed a range of ancillary and safety systems to automatically control barrier circuits in double mechanical seals for applications in the chemical, pharmaceutical and food-processing industries. These ancillary systems simultaneously keep the seal box under pressure and regulate the barrier fluid temperature. They are suitable for all models and types of double or tandem mechanical seals and are generally used in process pumps, reactors, filter dryers, etc.

## OPERATING PRINCIPLE



# CHARACTERISTICS

## Characteristics of the ancillary system\*:

- Empty weight: 15 kg
- Pressure: 1 to 10 bars
- Temperature: 30 to 80°C
- Inlet/outlet/pressurisation connections: 1/2 gas

## Characteristics of the tank\*:

- Materials: 316 and 316 L
- Capacity: 5 L
- Cooling coil

## Characteristics of the components\*:

- ATEX EExia II CT6 option
- Level indicator with two thresholds (upper and lower)
- Contact manometer (lower threshold)
- Contact thermometer (upper threshold)
- Motor pump:
  - Motor: 275/480 V 60Hz 0.18Kw 2720 rpm (ATEX EExdIICT4 optional)
  - Pump: 200l/h < flow < 250 l/h

\*Please contact us for other configurations.

# ADVANTAGES

- Ready for use
- Suitable for harsh environments
- Keeps fluid level and pressure constant in the barrier circuit
- Allows quick barrier fluid checks to be made in the event of pressure loss
- Optimises the maintenance time between two services
- Extends the lifetime of mechanical seals
- Protects the environment and people

# STANDARDS/DIRECTIVES

- DESP 97/23/CE directive
- Electromagnetic compatibility directive 2004/108/CE
- Electrical equipment directive 2006/95/CE
- API plans 53 and 53 A
- Machine construction and safety directive 2006/42/CE
- ATEX 94/9/CE directive

# POSSIBLE CONFIGURATIONS

1



## Thermosyphon alone

Without instruments

2



## Lubrication kit

- Combination possible without a motor pump:
  - Thermosyphon
  - Contact thermometer
  - Contact manometer
  - Level regulator, etc.

3



## Lubrication unit

In cases when the installation is <1.5 m from the floor

- Lubrication kit with motor pump
- Other components can be added if necessary
- The system is mounted on a stainless steel plate and ready for use

4



## Gas Control Panel (GCP)

This panel regulates the air or nitrogen pressure in the lubrication unit

## ALSO IN THE LATTY RANGE

LATTY® ancillary  
systems are used  
with the following  
products:



LATTY double mechanical seals



Tank top and bottom  
seal boxes

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Ancillary systems  
for double mechanical seals

\* Subsidiaries with workshop for mechanical seals repair and refurbishment



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