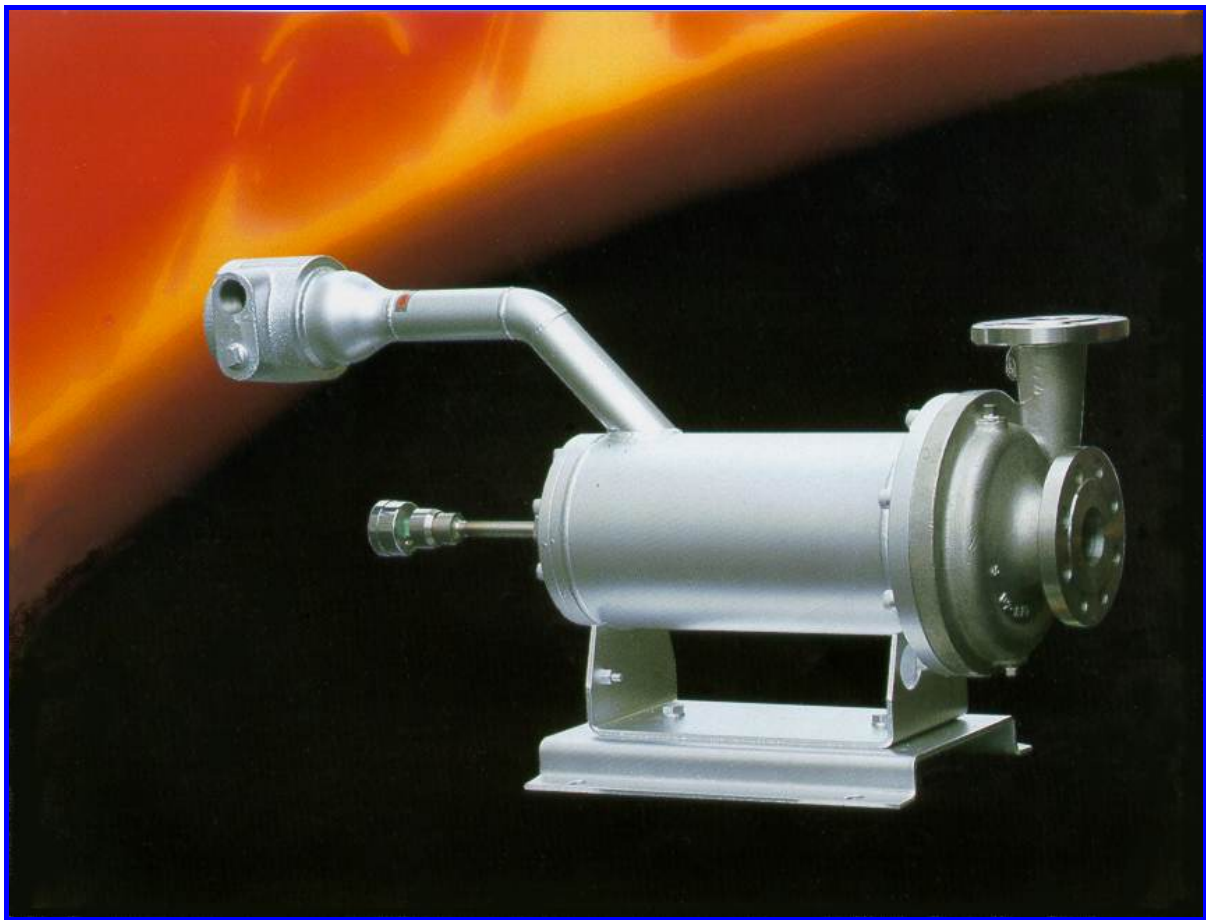




## HX - Series



**High temperature liquids - No leakage - No cooling required**

|                          |                                 |
|--------------------------|---------------------------------|
| <b>Capacity</b>          | <b>max. 250 m<sup>3</sup>/h</b> |
| <b>Head</b>              | <b>max. 200 m</b>               |
| <b>Motor rating</b>      | <b>max. 55 kW</b>               |
| <b>Temperature range</b> | <b>max. 350°C</b>               |

# HX - Series

## General

Nikkiso canned motor pumps HX-Series are centrifugal pumps, which are hermetically encapsulated. The shaft seal usually installed for centrifugal pumps is not required. The pumps are driven by integrated canned motors especially designed for high temperature applications. Space requirement and noise emission are much lower than those of conventional centrifugal pumps. The pumps are equipped with Nikkiso's unique bearing monitor.

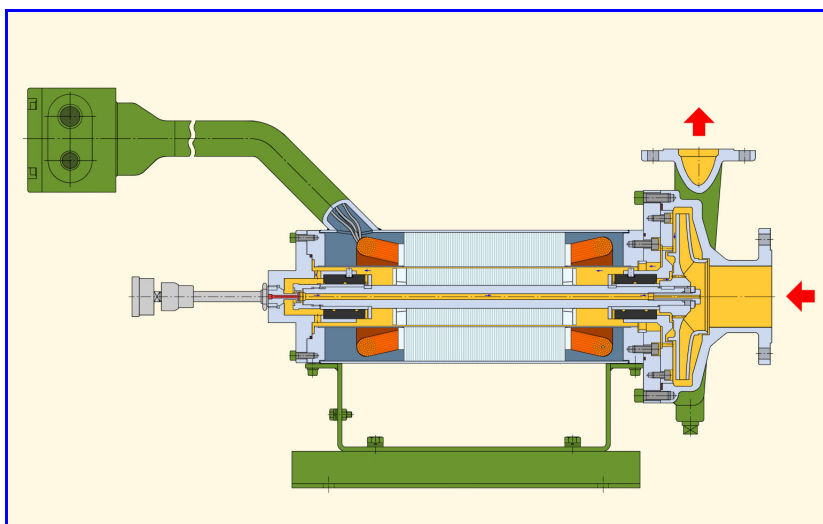
- Hermetically sealed
- Compact size
- For liquid temperature up to 350°C without external cooling
- Axial thrust balanced for long bearing life
- Heating jackets for motor and pump available
- Bearing wear control by Mechanical or E-Monitor
- 

### Applications:

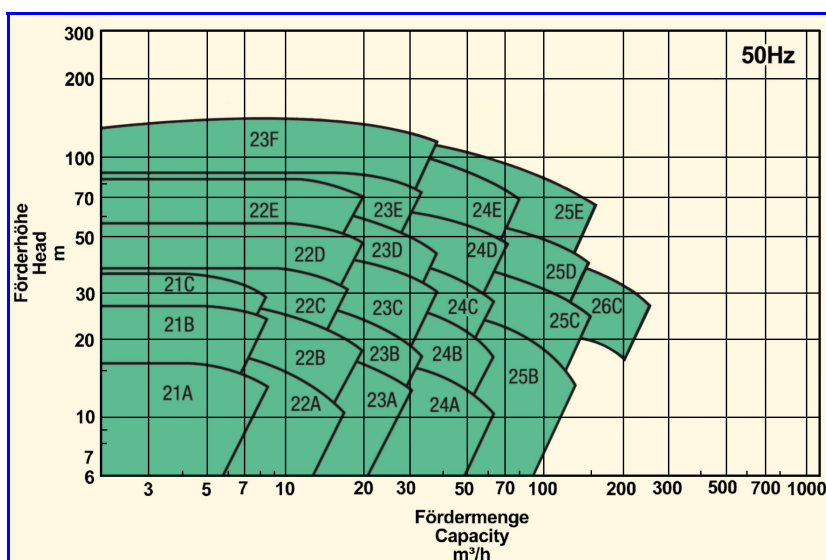
The use of Nikkiso canned motor pumps HX-Series are mainly used for aggressive, inflammable, explosive and poisonous clean liquids at high temperatures.

Typical application

- Hot water
- Heat transfer oil up to 350°C
- Solidifying liquids with melting points up to 270°C



## Pressure / Capacity Envelope



## Materials (Standard design)

| Part                   | Code                                      |
|------------------------|---|
| Casing(s)              | 1.4408                                    |
| Impeller               | 1.4401                                    |
| Gaskets                | 1.4401 / Graphite spiral wound            |
| Bearing housing        | 1.4401                                    |
| Bearing                | Special Carbon or SiC                     |
| Shaft sleeves          | 1.4401 / Metco<br>1.4401 / Wolframcarbide |
| Thrustwasher           | 1.4401 / Chromoxide                       |
| Stator shell           | 1.0040                                    |
| Can                    | Hastelloy                                 |
| Rotor/Stator end cover | 1.4401                                    |
| Base / Motor support   | 1.0040                                    |

Other Materials on request

## Driver

- Incorporated 3-phase asynchronous motor IP67 / IP65 and flame proof acc. to ATEX 100a (94/9/EC).
- The motors are in accordance with VDE/EN requirements.
- Thermal winding protection