







**Properties:** space saving single-stage compact unit

with 3-phase A.C. motor

**Applications:** natural refrigerants like NH<sub>3</sub> and CO<sub>2</sub> as well as other synthetic and hydro-

carbon refrigerants

Technical Data	
Rate of flow	up to 600 m³/h   2642 US gpm
Working pressure	up to 16 bar   232 psi
Temperature range	-50 up to +140 °C   -58 up to +284 °F
Shaft sealing	magnetic coupling

### **SERIES LBM**

**Properties:** space saving multi-stage compact unit

with 3-phase A.C. motor

**Applications:** natural refrigerants like NH<sub>3</sub> and CO<sub>2</sub>

as well as other synthetic and hydro-

carbon refrigerants

Technical Data				
Rate of flow	up to 60 m³/h   264 US gpm			
Working pressure	up to 40 bar   580 psi			
Temperature range	-50 up to +220 °C   -58 up to +428 °F			
Shaft sealing	magnetic coupling			



## **SERIES NHM**

**Properties:** multi-stage compact design on

bedplate with 3-phase A.C. motor

**Applications:** natural refrigerants like NH<sub>3</sub> and CO<sub>2</sub>

as well as other synthetic and hydro-

carbon refrigerants

Technical Data	
Rate of flow	up to 170 m³/h   749 US gpm
Working pressure	up to 40 bar   580 psi
Temperature range	-50 up to +220 °C   -58 up to +428 °
Shaft sealing	magnetic coupling



# EDUR-Centrifugal Pumps – extremely versatile for industrial and process engineering











| Product Information

MADE IN GERMANY ...SINCE 1927



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# Handling of refrigerants – a job for the specialist!

## **EXPERIENCE PAYS OFF**

EDUR-centrifugal pumps are successfully used in refrigeration systems in the industry for decades. They are important key components in the cooling process and provide a maximum level of safety, reliability and efficiency, being designed for high loads and extreme temperature ranges. EDUR-pumps are suitable for ecologically harmless refrigerants such as CO<sub>2</sub> and ammonia but also for a multitude of other synthetic and refrigerants containing hydrocarbon as well. Three different series of refrigerant pumps are available, depending on execution and size of the system.

#### **EFFICIENT TECHNOLOGY**

EDUR-refrigeration pumps are designed as magnetically coupled pumps, in order to get the refrigerant hermetically sealed against the atmosphere. The spatial separation between motor and pump does avoid a heat transfer into the medium and consequently benefits the energy balance of the system.



Furthermore these pumps are characterized by a compact design, open impellers without axial thrust or closed balanced impellers as well as diffuser devices in the circular casing that do compensate most of the radial forces. This among others has a positive influence on the magnetic coupling service life.

# **COMPETENCE IN** LIQUIDS-GAS-MIXTURES

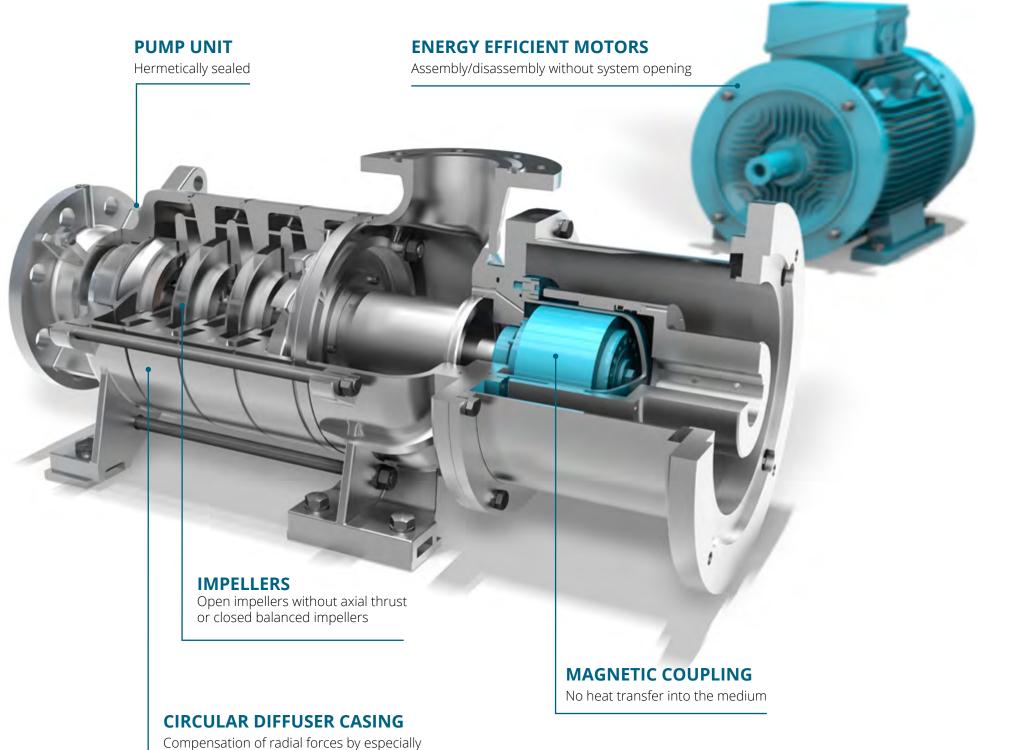
EDUR-refrigeration pumps are characterized by very low NPSH values that do have positive impact especially on refrigerants being at boiling point. In contrast to volute casing pumps in general EDUR-centrifugal pumps are in a position to handle certain gas contents in the pumping medium due to the diffuser devices. In particular this has the advantage for refrigerants that also some slight evaporation of refrigerants is mastered reliably. Type selection, configuration and optimum pump choice is the job of the specialized EDUR-engineers. Please contact us!



EDUR-Pumps for low temperature systems:

designed circular diffuser casing

# Indispensable components for a smooth and constant cooling cycle!



# Advantages at a glance:

#### **LOW OPERATING COSTS**

very high efficiencies

### PROCESS RELIABILITY

- Hermetically sealed
- No heat transfer into the medium
- Low wear and tear
- Reliable handling of liquids with entrained gas
- Maintenance free
- Low NPSH values
- High operational safety Pulsation free operation

#### **EASY INSTALLATION**

- Modular design system for customized solutions
- Compact block construction or bedplate unit
- Low space requirements

### **LAYOUT**

Optimum pump selection by our specialized engineers

### APPLICATIONS AND TARGET GROUPS:

Long service life

Closed lantern

Icing protection

plastic can

Low noise emissions

Motors with standstill heating

■ High efficiency option with

Q<sub>min</sub> pipe not necessarily

Your application is not mentioned? Please get in contact with us!