

Niels

HERMETIC-Pumpen GmbH

Refrigeration System with Canned Motor Pumps at ARCON 2026

By ~ Sanaullah Khan (Senior Sales Engineer, HERMETIC-Pumps Singapore)

Sealless Technology **Unlimited** | **ARCON**  **AMMONIA REFRIGERATION**



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HERMETIC – A COMPANY WITH ALMOST 160 YEARS OF HISTORY

1866-2026

Pump technology has been our passion and inspiration for 160 years

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HERMETIC – CHALLENGE TO KNOWLEDGE

Advanced Technology

1866-2026

Pump technology has been our passion and inspiration for 160 years!

Hand driven wine pump → First canned motor pump → Desulphurization pump → Supercritical pump → Pumps for Carbon Capture and Storage

1866 1910 1955 2015 2017 2025

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HERMETIC SUMMARY

HERMETIC-Pumps:

- Family-owned pumps manufacturer since 1866;
- Experiences in pumps production for more than 160 years, and in hermetically sealed drives for more than 68 years.
- More than 365,000 pumps delivered worldwide;
- 780 employees worldwide (405 in Europe, 305 in China, 15 in South-East-Asia, 10 in USA)
- Leakage-free drive systems of centrifugal pumps with canned motors and magnetic drive used for difficult pumping problems in chemical, petrochemical, nuclear power and refrigeration industries

Range of Applications:

- System pressures up to 1200 bar
- Fluid temperatures from -160 °C up to +480 °C
- Shaft powers from 1kW to 690 kW

→ Nearly all delivery problems can be solved with HERMETIC pumps.

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HERMETIC HEADQUARTER GERMANY

1967



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INTERNATIONALIZATION SOUTH-EAST ASIA

2014 Foundation of HERMETIC-Pumps Singapore Pte. Ltd.

2016 Expansion to Malaysia

2017 Expansion to Thailand

2018 Expansion to INDIA

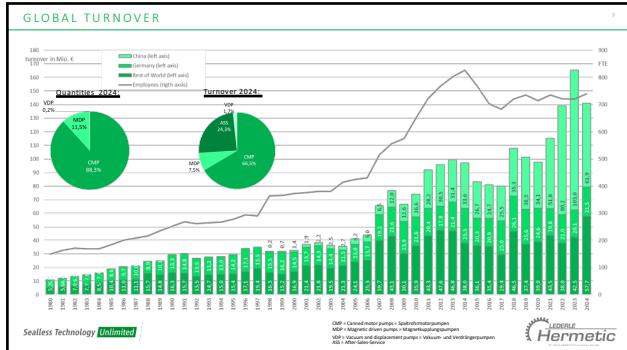
2024 Foundation of HERMETIC Pumps Malaysia as a subsidiary of HERMETIC Singapore

HERMETIC-Pumps Singapore Pte. Ltd.
Oxley Bizhub
Blk 65 Oxley Road 1 #03-82
Singapore 069729
phone +65 6702 2138
www.HERMETIC-pumps.sg

2014 2016 2017 2018 2024

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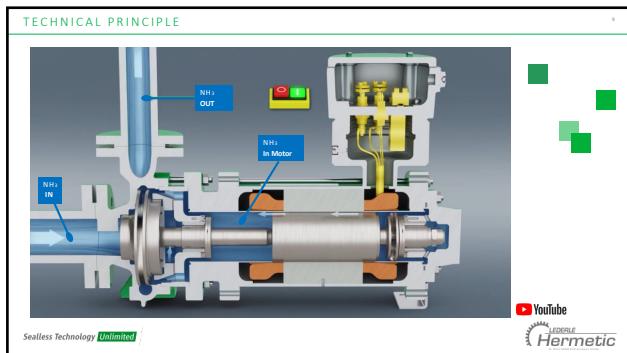
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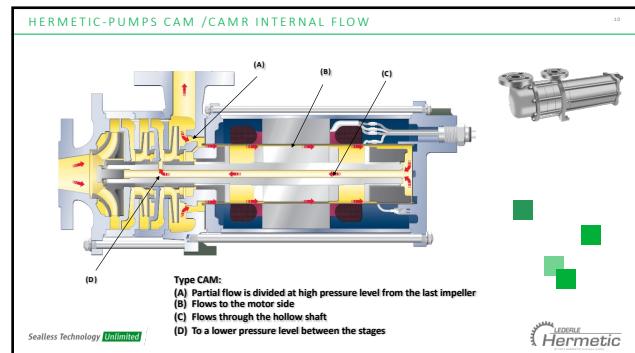
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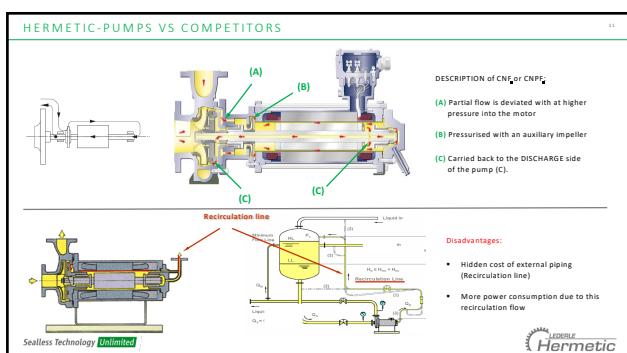
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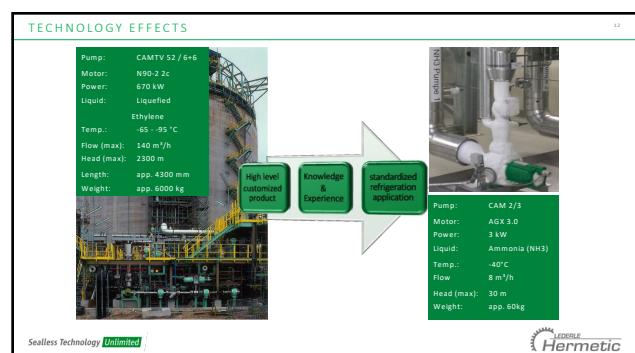
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REFRIGERATION PUMP

Refrigeration pump:

- „downgraded“ canned motor pump
- design based on chemical / petrochemical pump
- Standardized
- Short delivery time
- No explosion proof

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REFRIGERATION PUMPS MARKETS AND PRODUCTS

HERMETIC pumps in the refrigeration industry – Areas of application

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REFRIGERATION PUMPS MARKETS AND PRODUCTS

Canned Motor Pumps for High Pressure CO₂ systems

	CAMh	CNF	CAM(R)
Delivery rate:	max. 14 m ³ /h	max. 80 m ³ /h	max. 40 m ³ /h
Pumping head:	max. 120 m	max. 70 m	max. 180 m ³ /h
Pressure rating:	PN52	PN25 and PN40	PN25 and PN40
Operating temperature:	-50°C to +5°C	-50°C to +30°C	-50°C to +30°C
Speed:	2800 to 3500 rpm	2800 to 3500 rpm	2800 to 3500 rpm
Viscosity:	max. 20 mm ² /s	max. 20 mm ² /s	max. 20 mm ² /s

Learn more | Learn more | Learn more |

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SOFTWARE ASSISTED SELECTION

Local Product Specialist: Samaukul Khan, Sales Engineer at Hermetic Pumps Singapore Pte Ltd

Modern pump Selection Software Input:

- Flow & Head
- Liquid & Temperature
- Refrigeration Capacity

Software Calculation Output:

- Data sheets
- GA drawing
- Sectional drawing

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STANDARDIZED HIGH QUALITY PRODUCTION

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AMMONIA PLANT

Recently supplied ammonia pumps to a facility located in U.P.

5 canned motor pumps of the type CNF 50-200, AGX 8.5

- Flow rate: 23.05 m³/h
- Head: 45m
- Temp: -37°C

4 pieces canned motor pumps type CAM 2/5, AGX 3.0

- Flow rate: 7.25 m³/h
- Head: 45m
- Temp: -30°C

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HERMETIC-PUMPS RELIABILITY

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19 In maintenance-free operation since 1994! 🎉

Model : CAM 2/3
Temp. : -40 °C
Location: India
Application: Ammonia (NH3)

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EXTENDED WARRANTY ON ALL PUMPS FROM 24 TO 30 MONTHS

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Standard Warranty for all new pumps:

30 Months After Delivery

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SUMMARY

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- Experience over 365,000 canned motor pump
- Yearly about 5,000 pumps for refrigeration applications
- Over 60 years of experience in the field of pumps and ammonia
- Standardized high quality safe and reliable solution.
- Warranty of 30 months
- For circulation of refrigerants, our hermetic centrifugal pumps are used worldwide because of their leakage and maintenance reliability.
- They are characterized by compactness, ease of installation and above all by lower life cycle costs and high reliability.
- Low TCO – total cost of ownership / global spare part demand at our refrigeration pumps < 3%

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HERMETIC-PUMPS DIGITAL MEDIA

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LinkedIn

- LinkedIn
- Youtube
- Website

HERMETIC-Pumps Singapore
Collaboration 1,200 Millions
55 tons of sheet, 6 pumps, 1 milestone in clean energy generation.
We are proud. One of our largest orders this year is being prepared for ...more

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Thank You!

www.hermetic-pumpen.com

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