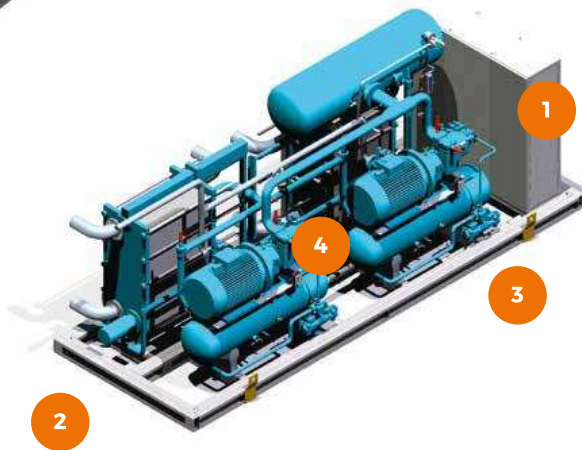
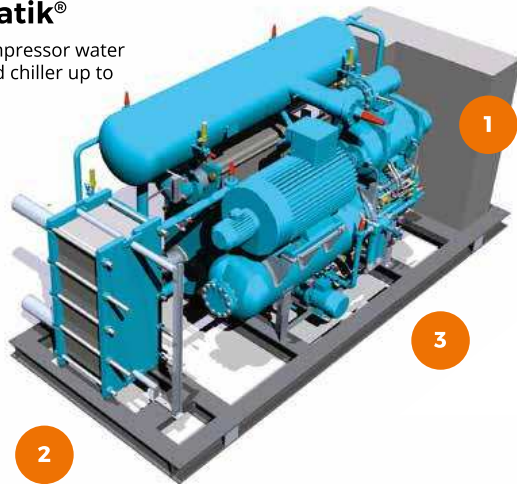


varimatik®

Mono-compressor water condensed chiller up to 3000kW



ecomatik®

Bi-compressor water condensed chiller up to 2800kW

Developed in 1994 for a customer, Illycaffè, that was tired of unreliable and poor chillers. Zudek, at those times, was engaged in maintenance. The challenge was to create a chiller, able to solve every reliability, cost management and sustainability problem.

Thanks to the inverter, flooded evaporator and PLC integrated management, **varimatik®** is constantly evaluating and adapting to all load requests.

Today we have more than 120 chillers of this kind installed in different countries.

1 Compact size

In relation to the supplied power, chiller size is studied in order to supply the most compact and easily maintainable machine; every machine includes electric drive and framework.

2 Easily transportable

varimatik® chillers are built to be easily lifted and transported with common means, in Monobloc, ready for "plug-and-play"

3 Power saving

Being a **green-chiller** means reducing costs and CO₂ emissions

4 Double compressor [**ecomatik®**]

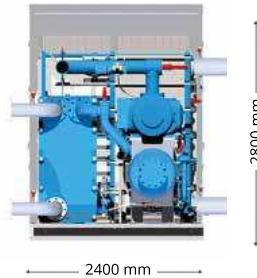
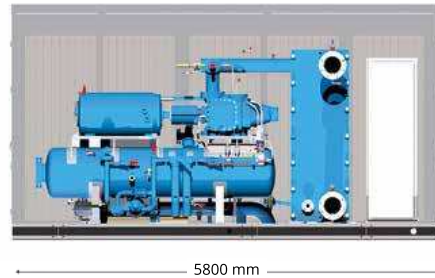
The double compressor ensures stability and safety. It allows to increase chilling power and to optimize performance even at partial load.

Water chiller

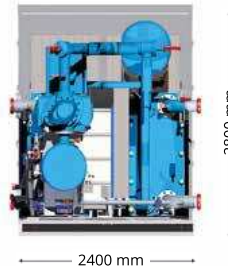
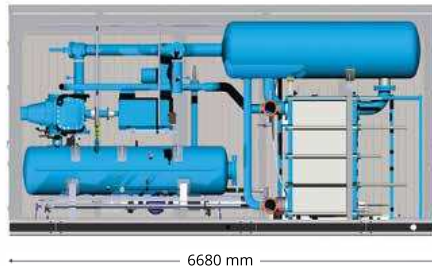
varimatik®

Product line

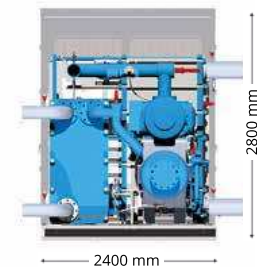
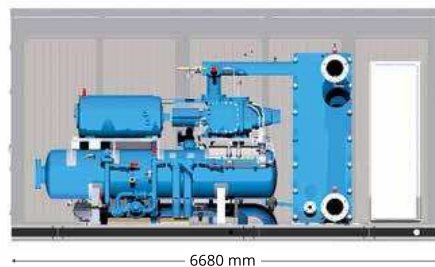
varimatik® dry expansion



varimatik® flooded



varimatik® flooded and economized for low temperatures



Characteristics:

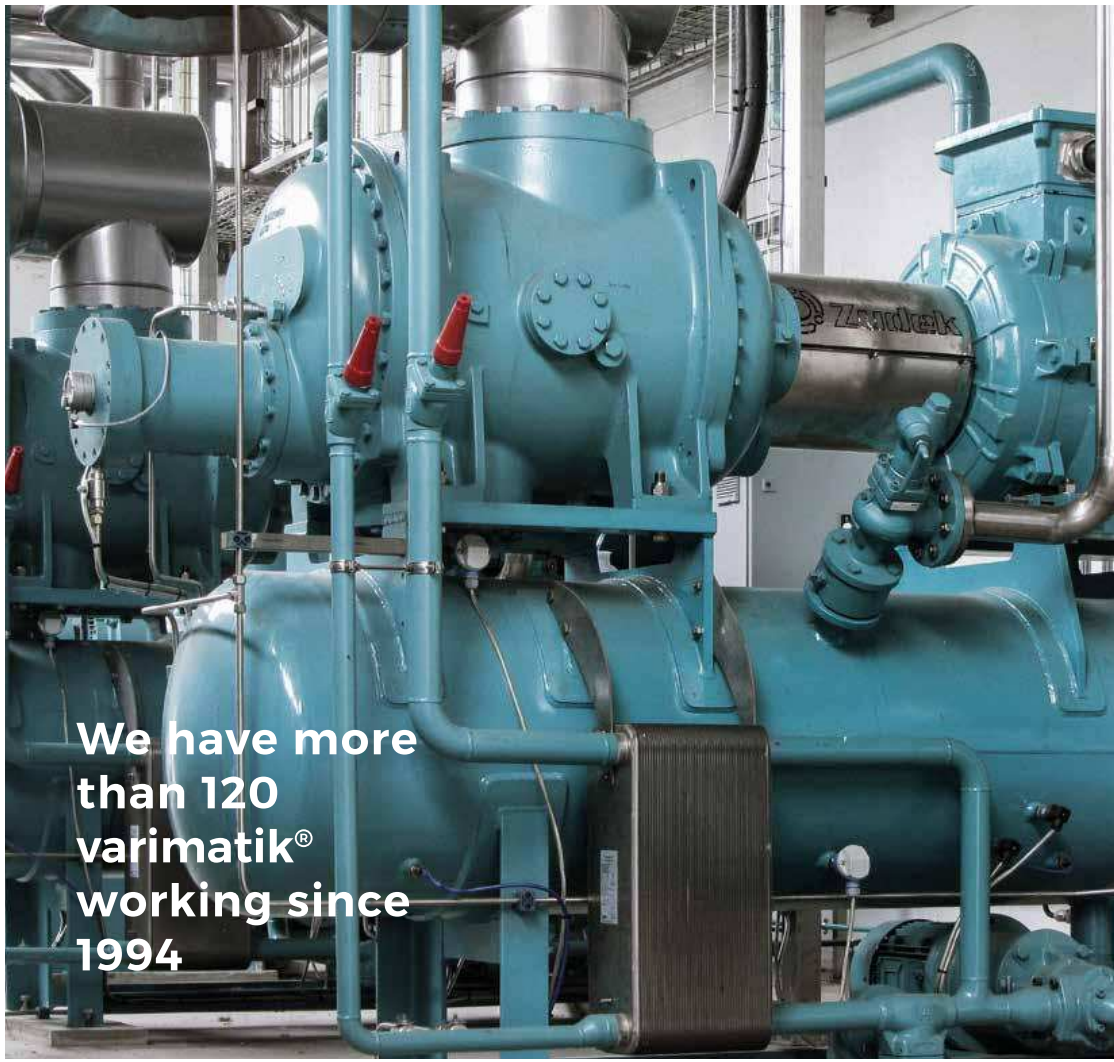
- Powers up to 3000 kW
- Temperatures up to -45°C
- All electric engines are driven by inverters
- Automatic oil recovery from evaporator
- Small size in relation with the supplied power
- Semi/completed welded plates exchangers
- PED 97/23/CE certification and test according to ISO 9001:2008

Options and accessories:

- Engines and inverters available with IE4 efficiency
- Dry expansion version, further refrigerant charge reduction
- Evaporators in stainless steel or titanium with flooding or dry expansion power
- Evaporators or separators for pump installations
- Cooling and electrical energy metering system with "certified" COP's
- Partial or total heat recovery
- Available monitoring and telemetry system for the web-based management **telematik®**
- Screw or piston compressors (partial and/or total heat recovery)
- Soundproofing cabin with integrated safety devices
- Pumping unit on the machine board
- Remote type electrical panel
- Available with evaporative condenser
- Integrated separator with open economizer
- Accounting cooling and electric power system
- PED 97/23/CE certification and test according to ISO 9001:2008
- ATEX versions

Water chiller

varimatik®



We have more than 120 varimatik® working since 1994

Technical data

Screw compressor

Condensation water
30/35°C

	water +7°C/+12°C					water/glycol -4°C/-8°C				
Chilling power	600 kW	1000 kW	1500 kW	2000 kW	2500 kW	400 kW	800 kW	1200 kW	1500 kW	1800 kW
EER	6.62	6.86	6.70	6.69	6.73	4.11	4.07	4.14	4.12	4.01

	water/glycol -20°C/-25°C					pumped ammonia -35°C				
Chilling power	200 kW	300 kW	450 kW	600 kW	900 kW	200 kW	300 kW	450 kW	550 kW	800 kW
EER	2.32	2.29	2.30	2.44	2.45	1.81	1.77	1.79	1.88	1.89

Piston compressor

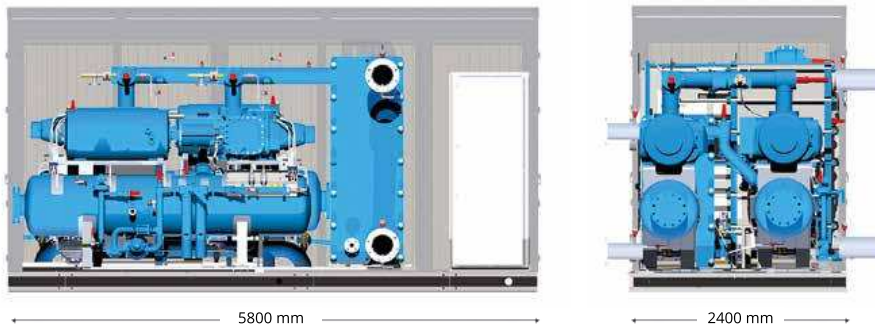
Condensation water
30/35°C

	water +7°C/+12°C					water/glycol -4°C/-8°C				
Chilling power	500 kW	750 kW	1000 kW	1250 kW	1500 kW	150 kW	300 kW	450 kW	600 kW	800 kW
EER	6.60	6.67	6.71	6.64	6.55	3.52	3.84	3.87	3.88	3.87

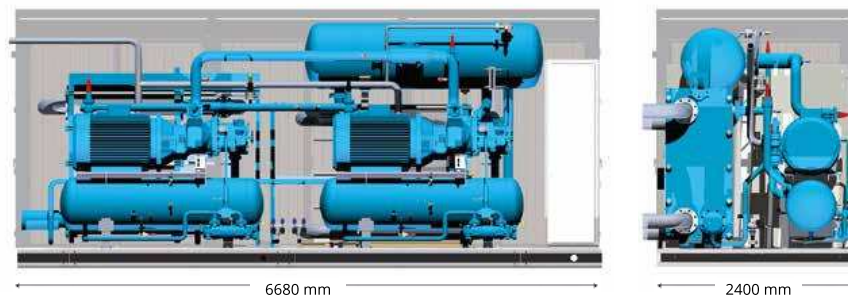
Product line

ecomatik®, thanks to the double compressor, it's suitable for applications with very variable loads, while keeping a high level of efficiency in every condition

ecomatik® dry expansion



ecomatik® flooded



Characteristics:

- Powers up to 4500 kW
- Temperatures up to -45°C
- Electric engines with high efficiency up to IE4
- Double compressor
- Automatic oil recovery
- Small size in relation with the supplied power
- Plates exchangers
- Cold parts insulation
- PED 97/23/CE Certification and test according to ISO 9001:2008

Options and accessories:

- Dry expansion version, further refrigerant charge reduction
- Inverter installation possibility on all electric engines
- Stainless steel or titanium plates flooded evaporator
- Available supervision and telemetry system for on-the-web management **telematik®**
- Screw or piston compressors (partial and/or total heat recovery)
- New soundproofing cabin with integrated safety devices
- Pumping unit on the machine board
- Remote type electrical panel
- Available with evaporative condenser
- Integrated separator with economizer
- Accounting cooling and power system

Water chiller

ecomatik®



We have more than
60 ecomatik®
working
since 1994

Technical data

Screw compressor

Condensation water
30/35°C

	water +7°C/+12°C					water/glycol -4°C/-8°C				
Chilling power	500 kW	1500 kW	2500 kW	3000 kW	4500 kW	400 kW	1000 kW	1500 kW	2500 kW	3000 kW
EER	6.62	6.86	6.70	6.69	6.73	4.11	4.07	4.14	4.12	4.01

	water/glycol -20°C/-25°C					pumped ammonia -35°C				
Chilling power	200 kW	500 kW	800 kW	1000 kW	1500 kW	200 kW	500 kW	800 kW	1000 kW	1500 kW
EER	2.32	2.29	2.30	2.44	2.45	1.81	1.77	1.79	1.88	1.89

Piston compressor

Condensation water
30/35°C

	water +7°C/+12°C					water/glycol -4°C/-8°C				
Chilling power	500 kW	800 kW	1500 kW	2000 kW	2500 kW	100 kW	400 kW	800 kW	1000 kW	1500 kW
EER	6.60	6.67	6.71	6.64	6.55	3.52	3.84	3.87	3.88	3.87