# NAX W

**Water-Cooled Water Chillers**
for Centralized Cooling System

EUROCHILLER®
Part of Atlas Copco Group

Find out more

## **New** Eurochiller **NAX W** range

### Delivering the best value to industrial cooling application

Discover the new **NAX W** water-cooled water chillers, utilizing **R513A** refrigerant to significantly minimize environmental impact with a **low Global Warming Potential** (GWP). Designed specifically for industrial processes and for indoor use, these chillers provide exceptional energy efficiency, a compact design, and robust construction suitable for demanding industrial applications. Featuring high-efficiency screw compressors and performing shell & tubes condenser and evaporator, the NAX W series guarantees high energy saving, reliability, and ease of maintenance. Perfect for technical room indoor installations, NAX W chillers are the ideal choice for sustainable cooling solutions that comply with modern regulatory standards.

### Low-GWP Refrigerant

Recent regulations, such as the EU F-gas directive and the Kigali Amendment to the Montreal Protocol, are pushing the industry toward the use of environmentally friendly refrigerants with lower global warming potential. The refrigerant R513A has a **low** Global Warming Potential (**GWP**), offering a -56% GWP reduction compared to R134a's while ensuring complete non-toxicity and non-flammability (Class A1 of ASHRAE 34, ISO 817) It helps to reduce greenhouse gas emissions and R513A is an ideal choice for **sustainable** and **efficient cooling solutions**.

**R513A: GWP = 631**

### Efficiency & Reliability

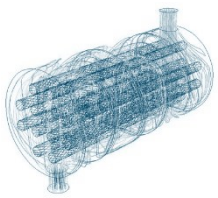
**NAX W screw compressors** offer exceptional energy efficiency and unmatched reliability for industrial cooling systems. Their advanced rotor design and robust engineering ensure optimal performance, even under fluctuating load conditions. With low maintenance requirements and quiet operation, these compressors help reduce lifecycle costs while delivering consistent cooling. They are the ultimate solution for demanding applications where durability, efficiency, and long-term value are essential.

**LONG LIFETIME**

### Wide Application Range

The single-pass counterflow DX shell-and-tube evaporator ensures efficient heat transfer, low water-side pressure drop, and stable outlet temperatures. Ideal for water-cooled process chillers, it enhances energy performance, reduces refrigerant charge, and supports reliable operation under demanding industrial conditions. Its robust design and easy maintenance make it a smart choice for a **wide application range of applications**.

**COUNTERFLOW EVAPORATOR**



# **New** Eurochiller **NAX W** range

## Delivering the best value to industrial cooling application

**Robust frame structure**
Polyester powder-based painting

**Capacity stepless control option**
Continuous capacity control 25 ↔ 100%

**Shell & Tubes condenser**
Last generation inner grooved copper tubes

**Adaptive solution**
Extended envelope version (Brine cooling)

**New PLC controller**
Software developed for process cooling

**Pure counter flow evaporator**
Excellent performance in every application

**Compact Screw compressors**
High efficiency at full and partial load

**Electronic expansion valve**
Partial load control optimized

## **Fully** Equipped

- Compressor's envelop control
- Compressor's Star/Delta Start
- Integrated oil separator
- Optimized oil management
- Electronic expansion valve
- Victaulic® water connections
- Power supply without neutral
- Phase sequence control
- Back light display
- Data logger
- Set point timer / Clock card
- Modbus protocol kit for BMS (RS485)
- Dynamic set-point

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## **Water-Cooled Water Chillers** for Centralized Cooling System

Technical Data

| **NAX W** R513A 50 Hz | | **440** | **490** | **570** | **630** | **700** | **770** | **860** | **920** | **990** | **1070** | **1130** | **1220** | **1280** | **1400** | **1550** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Cooling Capacity**[1] | [kW] | 549 | 614 | 693 | 738 | 865 | 951 | 1.038 | 1.108 | 1.213 | 1.271 | 1.381 | 1.444 | 1.535 | 1.726 | 1.867 |
| Power consumption[1] | [kW] | 92,8 | 107,0 | 123,0 | 134,0 | 153,0 | 168,0 | 187,0 | 202,0 | 213,0 | 229,0 | 246,0 | 260,0 | 275,0 | 304,0 | 339,0 |
| EER[1] | - | 5,92 | 5,73 | 5,61 | 5,69 | 5,66 | 5,65 | 5,54 | 5,48 | 5,69 | 5,54 | 5,61 | 5,55 | 5,58 | 5,69 | 5,50 |
| Compressors / Circuits | | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 1 / 1 | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 | 2 / 2 |
| Capacity steps | % | 50-75-100 | | | | | | 25-50-62-75-87-100 | | | | | | | | |
| Sound power level | [dB(A)] | 95,0 | 95,0 | 95,0 | 95,0 | 95,0 | 95,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 | 98,0 |
| Sound pressure level[2] | [dB(A)] | 63,0 | 63,0 | 63,0 | 63,0 | 63,0 | 63,0 | 65,9 | 65,9 | 65,9 | 65,9 | 65,9 | 65,9 | 65,9 | 65,9 | 65,9 |
| Length | [mm] | 4.250 | 4.250 | 4.210 | 4.210 | 4.180 | 4.180 | 4.510 | 4.510 | 4.600 | 4.650 | 4.650 | 4.650 | 4.650 | 5.350 | 5.350 |
| Width | [mm] | 1.350 | 1.350 | 1.350 | 1.350 | 1.350 | 1.350 | 1.520 | 1.520 | 1.520 | 1.520 | 1.520 | 1.520 | 1.520 | 1.520 | 1.520 |
| Height | [mm] | 1.650 | 1.650 | 1.650 | 1.650 | 1.650 | 1.650 | 1.710 | 1.710 | 1.710 | 1.710 | 1.710 | 1.710 | 1.710 | 1.710 | 1.710 |

(1) Reference condition: Condenser water in 30 °C / out 35 °C, Evaporator in 20°C / out 15°C, 0% Glycol.
(2) Sound pressure levels at 10 meter - refer to ISO Standards 3744 with parallelepiped shape.

## Applications of NAX W Chillers in the Plastics Industry

- Injection Mold
- Extruder Barrel
- Calender Roll
- Thermoforming Mold
- Blow Molding
- Plastic Recycling
- Blown Film Molding
- Stretch Blow Molding
- Plastic Welding
- Profile Extrusion

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