

NAX W

Water-Cooled Water Chillers
for Centralized Cooling System

**EURO
CHILLER**[®]

■ Part of Atlas Copco Group



549 ~ 1867 kW
Cooling capacity

R513A
Low-GWP Refrigerant

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.

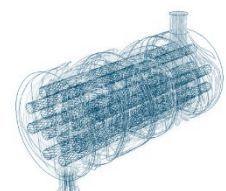
LONG LIFETIME



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



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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



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	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	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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