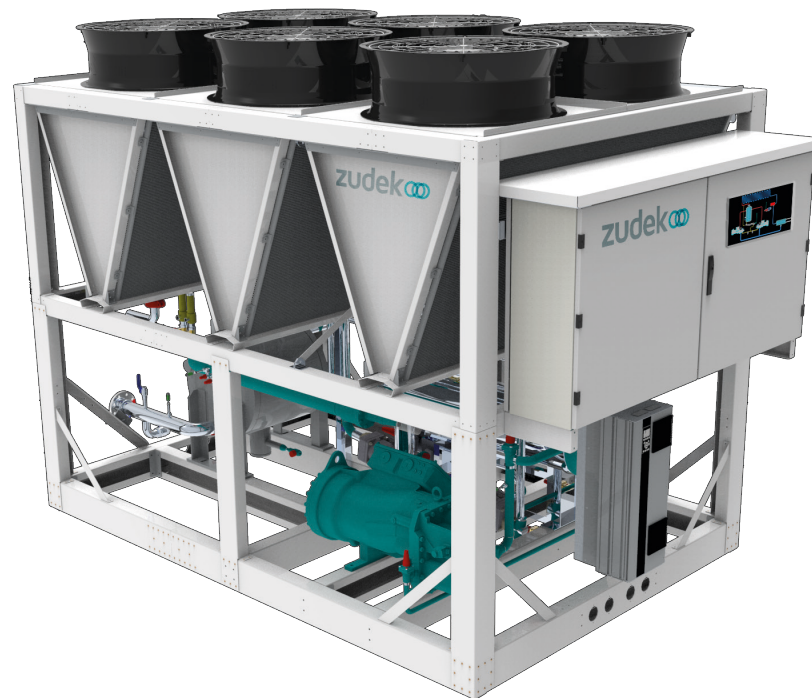


The
future
is now.

Maximum cooling power
in a compact design.

Naturally ammonia.

Presenting the **windmatik**,
the new air-cooled chiller.



zudek



Innovating Refrigeration for Over 30 Years

At Zudek, we believe that sustainability and efficiency should go hand in hand.

Since our foundation in Trieste, we have been developing advanced industrial refrigeration solutions that minimize environmental impact while maximizing performance.

With a strong commitment to research and development, our systems are designed to enhance energy savings, improve operational reliability, and provide seamless integration with modern remote management technologies.

All our products utilise ammonia (NH_3) as a natural refrigerant, ensuring both high performance and environmental sustainability.

Feel free to contact us.

0039 040 232 674

www.zudek.com

sales@zudek.com

*“Innovation means **reducing consumption** and **increasing efficiency** – that’s our mission.”*

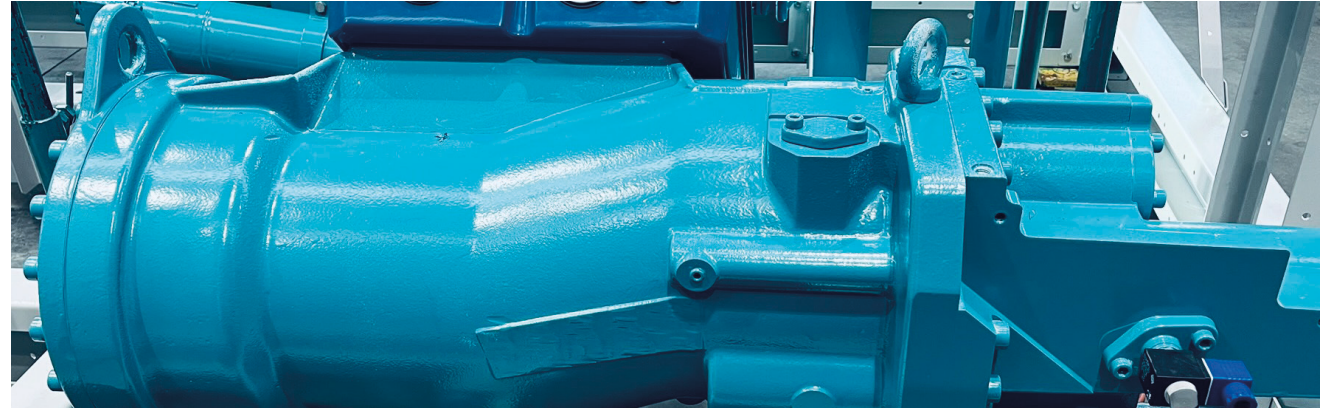
zudek∞

The Windmatik Advantage

Windmatik is a cutting-edge cooling system designed to deliver unparalleled **efficiency, reliability, and sustainability**.

As the evolution of our Airmatik series, it offers even greater performance while maintaining a **compact footprint**.

Next generation cooling



Key Features & Benefits

Unmatched cooling capacity per m²

Engineered for maximum performance in a compact design.

Semi-hermetic compressors

Inverter-driven for high efficiency and operational flexibility, with permanent magnet motor.

Ultra low-noise unit

With low-noise EC fans and soundproof jacket for semihermetic compressor.

High-efficiency aluminum microchannel condenser coils

With protective coating for corrosive environments.

Designed for extreme outdoor conditions

Operates at ambient temperatures up to 50°C.

Flooded evaporator with phase separator

Ensuring low refrigerant charge and maximum efficiency.

Advanced control system

PLC-based with telemetry and remote monitoring.

Seamless connectivity

Full compatibility with Modbus TCP/IP, Profinet, and other communication protocols.

Sustainable & environmentally friendly

GWP = 0 | ODP = 0.

Technical Data

HVAC	inlet/outlet water temperature	ambient temperature	cooling capacity (kW)	compressors absorbed power (kW)	number of compressors	condensing modules	fans absorbed power (kW)	height 3m width 2,4m lenght (mm)	weight (kg)	EER
Windmatik-130-315-1-3	12/7 °C	+35 °C	300	90	1	3	10,8	3.990	4.500	3,0
Windmatik-140-370-1-4	12/7 °C	+35 °C	400	110	1	4	14,4	5.341	5.510	3,2
Windmatik-160-470-1-5	12/7 °C	+35 °C	510	140	1	5	18	6.492	6.460	3,2
Windmatik-130-315-2-6	12/7 °C	+35 °C	605	165	2	6	21,6	7.643	8.240	3,2
Windmatik-140-370-2-7	12/7 °C	+35 °C	715	195	2	7	25,2	8.794	9.200	3,2
Windmatik-160-400-2-8	12/7 °C	+35 °C	825	220	2	8	28,8	9.945	10.150	3,3
Windmatik-160-400-2-9	12/7 °C	+35 °C	900	246	2	9	32,4	11.096	11.060	3,2
Windmatik-160-470-2-10	12/7 °C	+35 °C	1020	275	2	10	36	12.247	12.020	3,3
Windmatik-140-370-3-11	12/7 °C	+35 °C	1120	280	3	11	39,6	13.398	13.820	3,5

DATA CENTER	inlet/outlet water temperature	ambient temperature	cooling capacity (kW)	compressors absorbed power (kW)	number of compressors	condensing modules	fans absorbed power (kW)	height 3m width 2,4m lenght (mm)	weight (kg)	EER
Windmatik-130-315-1-3	18/12 °C	+35 °C	320	71	1	3	10,8	3.990	4.530	3,9
Windmatik-130-315-1-4	18/12 °C	+35 °C	420	95	1	4	14,4	5.341	5.530	3,8
Windmatik-140-370-1-5	18/12 °C	+35 °C	510	115	1	5	18	6.492	6.460	3,8
Windmatik-160-400-1-5	18/12 °C	+35 °C	525	118	1	5	18	6.492	6.480	3,9
Windmatik-160-470-1-6	18/12 °C	+35 °C	630	142	1	6	21,6	7.643	7.420	3,9
Windmatik-130-315-2-7	18/12 °C	+35 °C	745	165	2	7	25,2	8.794	9.230	3,9
Windmatik-130-315-2-8	18/12 °C	+35 °C	845	190	2	8	28,8	9.945	10.170	3,9
Windmatik-140-370-2-9	18/12 °C	+35 °C	950	212	2	9	32,4	11.096	11.120	3,9
Windmatik-160-400-2-10	18/12 °C	+35 °C	1060	239	2	10	36	12.247	12.070	3,9
Windmatik-160-470-2-11	18/12 °C	+35 °C	1165	262	2	11	39,6	13.398	13.020	3,9

ICY WATER	inlet/outlet water temperature	ambient temperature	cooling capacity (kW)	compressors absorbed power (kW)	number of compressors	condensing modules	fans absorbed power (kW)	height 3m width 2,4m lenght (mm)	weight (kg)	EER
Windmatik-130-315-1-3	6/1 °C	+35 °C	285	98	1	3	10,8	3.990	4.490	2,6
Windmatik-160-470-1-4	6/1 °C	+35 °C	380	130	1	4	14,4	5.341	5.480	2,6
Windmatik-130-315-2-5	6/1 °C	+35 °C	480	165	2	5	18	6.492	7.270	2,6
Windmatik-130-315-2-6	6/1 °C	+35 °C	570	195	2	6	21,6	7.643	8.200	2,6
Windmatik-160-400-2-7	6/1 °C	+35 °C	680	230	2	7	25,2	8.794	9.160	2,7
Windmatik-160-400-2-8	6/1 °C	+35 °C	705	242	2	8	28,8	9.945	10.010	2,6
Windmatik-160-470-2-8	6/1 °C	+35 °C	760	262	2	8	28,8	9.945	10.070	2,6
Windmatik-160-470-2-9	6/1 °C	+35 °C	820	282	2	9	32,4	11.096	10.970	2,6
Windmatik-140-370-3-9	6/1 °C	+35 °C	870	300	3	9	32,4	11.096	11.880	2,6
Windmatik-130-315-3-10	6/1 °C	+35 °C	950	330	3	10	36	12.247	12.790	2,6
Windmatik-160-400-3-11	6/1 °C	+35 °C	1050	363	3	11	39,6	13.398	13.740	2,6

INDUSTRIAL	inlet/outlet water temperature	ambient temperature	cooling capacity (kW)	compressors absorbed power (kW)	number of compressors	condensing modules	fans absorbed power (kW)	height 3m width 2,4m lenght (mm)	weight (kg)	EER
Windmatik-160-400-1-3	-1/-6 °C	+35 °C	260	120	1	3	10,8	3.990	4.460	2,0
Windmatik-160-470-1-4	-1/-6 °C	+35 °C	300	140	1	4	14,4	5.341	5.390	1,9
Windmatik-130-315-2-4	-1/-6 °C	+35 °C	350	162	2	4	14,4	5.341	6.300	2,0
Windmatik-140-370-2-5	-1/-6 °C	+35 °C	440	205	2	5	18	6.492	7.230	2,0
Windmatik-160-400-2-6	-1/-6 °C	+35 °C	520	240	2	6	21,6	7.643	8.150	2,0
Windmatik-160-470-2-7	-1/-6 °C	+35 °C	600	280	2	7	25,2	8.794	9.070	2,0
Windmatik-130-315-3-8	-1/-6 °C	+35 °C	710	330	3	8	28,8	9.945	10.870	2,0
Windmatik-160-470-3-9	-1/-6 °C	+35 °C	800	370	3	9	32,4	11.096	11.800	2,0
Windmatik-160-470-3-10	-1/-6 °C	+35 °C	890	410	3	10	36	12.247	12.730	2,0

Performance & Specifications

The following tables showcase the technical specifications of the Windmatik series, **designed to deliver superior cooling performance** with an energy-efficient approach.

By integrating advanced compressor technology and smart control systems, Windmatik ensures **maximum reliability** across multiple industrial sectors while keeping operational costs to a minimum.

Understanding the Model Code

Example: Windmatik-130-315-1-3

Windmatik → Indicates the product series

130-315 → **Compressor model details.**

1, 2, or 3 → Specifies the number of compressors in the system.

3 to 11 → Represents the number of condenser modules, with each module containing two fans.

Customized Solutions Available

The technical data provided is for reference only.

A customized selection can be made upon request by contacting us at sales@zudek.com.

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