enex Industrial
INNOVATION AS ENERGY

COMMERCIAL BROCHURE

ENH3ANCED by enex technologies cooling and heating naturally

MEGA

INDUSTRIAL NH_3 CHILLERS FOR OUTDOOR INSTALLATION

High temperature from 315 to 2500 kW
Medium temperature from 175 to 1390 kW
Low temperature from 97 to 740 kW



MEGA is a fully industrial, factory-built, and factory-tested **NH3 chiller platform** designed for outdoor installation, delivering the same, or higher, performance and efficiency than a traditional NH3 plant room while eliminating the need for indoor space.

Its ultra-low refrigerant charge, wide operating range (+15 to –22°C), and multiple condensing configurations make MEGA a flexible, future-proof solution for demanding industrial applications.

The MEGA Concept: Why It Exists

Traditional water chiller systems suffer from **double temperature lift**:
Condensing on water: limited by water outlet temperature
Generating cold glycol: penalized evaporating temperature

MEGA eliminates these barriers by using an **evaporative condenser** directly operating on **wet-bulb temperature**, drastically reducing condensing temperature and power consumption. This is the core reason why MEGA delivers **outstanding seasonal efficiency**, consistently outperforming water-cooled or air-cooled alternatives.

KEY VALUE PROPOSITIONS

High Industrial Performance
Open-drive screw compressors (Bitzer or GEA)
VSD on each compressor
DX semi-welded plate evaporator
Oversized coalescent oil separation
Optional heat recovery (desuperheater, oil cooling, condenser recovery)

No Machine Room Required
Eliminates expensive building space
Avoids machine-room permitting
Factory-tested reliability and performance

Fast and Clean Installation
Delivered in up to 3 pre-assembled modules
No on-site welding
Minimal installation labor

CONDENSING OPTIONS

	Condensing option	Efficiency	Water usage	Price	Maintenance cost	Water treatment
1	Air cooled	Lower	No	Lower	Lower	No
2	Air cooled adiabatic condenser	Medium	Medium	Medium	Medium	Light
3	Standard Evaporative condenser	Higher	Higher	Higher	Higher	Yes
4	High effficiency evaporative condenser	Best	Higher	Higher	Higher	Yes

REALISTIC ENERGY PERFORMANCE COMPARISON

Below is a real-world comparison under identical ambient conditions
35°C dry bulb, 40% RH, 24.5°C wet-bulb:

Parameter	NH3 Air-Cooled Condenser	Adiabatic Condenser	Evaporative Condenser
Condensing temperature (°C)	45.2	38.0	31.0
Compressor COP	2.49	3.44	4.26
Cooling capacity (kW)	309	311	324
Shaft power (kW)	123.8	89.5	76.1
Power difference	+62.7%	+17.6%	Reference

This measurable gap is exactly what the MEGA architecture leverages.
Operating on wet-bulb temperature (not dry bulb) drastically reduces energy consumption, especially under high load.

Advanced Application Focus

Unlike generic cooling solutions, MEGA directly targets industrial applications where high seasonal efficiency and low operating cost are essential, including:

Logistics and Refrigerated Warehouses
High-load cold storage requiring stable low-temperature glycol or brine.

Pharmaceutical & Cosmetic Production
Especially facilities using low-temperature thermal oil for reactors, crystallization or stabilization processes.

Replacement of Existing HFC Chillers
Seamless retrofit using glycol loops, without modifying the existing internal distribution system.

MEGA ensures minimal disruption and dramatically improved efficiency.

Process Industries
Food & beverage, breweries, wineries, chemical, oil & gas, district cooling.

Ice Rinks and Large Sports Facilities
High load, high stability, and maximized seasonal performance.

Quick Install

It is transported in up to 3 modules with flanged connections, that fit in a standard truck and require no welding on site



ADVANTAGES

It provides several advantages versus a plant room:

Feature	Plant room	Mega
Authorization & permit	Necessary and time consuming	**Not necessary**
Cost certainty	Cost of installation more unpredictable	**High cost certainty**
Delivery time	Delivery time of installation more unpredictable	**High delivery time certainty**
Quality	Must be tested onsite (eg X-ray on piping…)	**Factory tested (pressure / electrical)**
Use of space	Building space used by plant room	**No building space taken by plant room**
Retrofit	More difficult to install without stopping the old system	**Can be installed without stopping the old system**
Distance	Existing central system might be too far from new users	**Can be placed near new users**
On site workers	Installation personnel needed onsite	**Very limited work onsite (module connection)**

Non-Linear Efficiency Advantage

The benefit of evaporative condensing is not linear and becomes even more pronounced under cooler, humid conditions.
Example:

At **10°C ambient and 60% RH**, the **wet-bulb temperature is ~6°C**, meaning the condensing temperature remains significantly lower than any air-cooled or adiabatic solution.

This ensures:
Extremely high seasonal efficiency (**SEPR**).
Stable performance across most climates.
Much **lower operating costs** year-round.

TECHNICAL DATA

Air cooled

Air 35°C water 12/7°C

High temperature		1	2	3	4	5	6	7
Nominal cooling capacity	kW	286,0	500,0	740,0	1046,0	1348,0	1760,0	2320,0
Compressor input power	kW	81,7	140,0	207,2	263,9	340,9	422,0	550,0
Fans input power	kW	12,2	24,7	29,7	25,7	61,5	69,2	91,1
Pump input power	kW							
Total input power	kW	93,9	164,7	236,9	289,6	402,4	491,2	641,1
EER	-	3,05	3,04	3,12	3,61	3,35	3,58	3,62
SEPR HT	-	5,12	5,54	5,59	6,16	6,02	7,24	7,08
Refrigerant circuits	n°	1	1	1	1	1	1	1
Compressors	n°	2	2	2	2	2	2	2
Bitzer compressor model (1)	-	OSKA 5361	OSKA 7452	OSKA 8551	OSKA 8571	OSKA 8591	OSKA 9573	OSKA 9593
Eco		no	no	no	no	no	no	no
Inverter		2	2	2	2	2	2	2
Speed	rpm	3500	3500	3500	3500	3500	3500	3500
Refrigerant charge (estimated)	kg	130	150	270	310	390	440	485
	g/kW	455	300	365	296	289	250	209
Number of axial fans	n°	5	10	12	20	24	28	0
Total air flow	m³/h	149900	280200	336200	560400	672400	784600	-
Evaporator number	n°	1	1	1	1	1	1	1
Water flow	m³/h	60,3	96,1	138,8	194,6	250,4	323,5	424,4
Pressure drop	kPa	98	99	100	99	99	100	94
Water connections diameter		DN100	DN100	DN100	DN125	DN125	DN125	DN150
Operating weight	kg	9472	10825	10246	10825	12178	16237	19619
Length	mm	7000	8000	7000	8000	9000	12000	14500
Width	mm	2450	2450	2450	2450	2450	2450	2450
Height	mm	4800	4800	4800	4800	4800	4800	4800
Voltage/Phase/Frequency	V/ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50

(1) Data for units equipped with GEA compressors provided on request

Air cooled

Air 35°C MEG 35% -2/-8°C

Medium temperature		1	2	3	4	5	6	7
Nominal cooling capacity	kW	154,6	267,0	384,0	552,0	718,0	960,0	1272,0
Compressor input power	kW	66,7	131,1	190,2	246,5	322,6	383,7	493,5
Fans input power	kW	6,6	11,4	20,0	28,0	34,1	46,6	65,0
Pump input power	kW							
Total input power	kW	73,3	142,5	210,2	274,5	356,7	430,3	558,4
EER	-	2,11	1,87	1,83	2,01	2,01	2,23	2,28
SEPR MT	-	4,12	4,03	3,93	4,40	4,45	4,71	4,75
Refrigerant circuits	n°	1	1	1	1	1	1	1
Compressors	n°	2	2	2	2	2	2	2
Bitzer compressor model (1)	-	OSKA 5361	OSKA 7452	OSKA 8551	OSKA 8571	OSKA 8591	OSKA 9573	OSKA 9593
Eco		no	no	no	no	no	no	no
Inverter		2	2	2	2	2	2	2
Speed	rpm	3500	3500	3500	3500	3500	3500	3500
Refrigerant charge (estimated)	kg	130	150	245	285	360	410	445
	g/kW	841	562	638	516	501	427	350
Number of axial fans	n°	3	5	8	12	14	20	28
Total air flow	m³/h	90000	139300	204800	336200	358300	560400	784600
Evaporator number	n°	1	1	1	1	1	1	1
Water flow	m³/h	23,2	40,1	57,6	82,8	107,7	144,1	190,9
Pressure drop	kPa	95,1	99,9	99	98,2	99,1	99,6	88
Water connections diameter		DN100	DN100	DN100	DN125	DN125	DN125	DN150
Operating weight	kg	6694	6749	6749	8100	9449	11473	16197
Length	mm	5000	5000	5000	6000	7000	8500	12000
Width	mm	2450	2450	2450	2450	2450	2450	2450
Height	mm	4800	4800	4800	4800	4800	4800	4800
Voltage/Phase/Frequency	V/ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50

(1) Data for units equipped with GEA compressors provided on request

Air cooled

Air 35°C MEG 50% -17/-22°C

Low Temperature		1	2	3	4	5	6	7
Nominal cooling capacity	kW	106,6	171,4	219,6	263,4	462,0	622,0	834,0
Compressor input power	kW	64,1	115,0	131,1	220,9	269,8	364,6	465,2
Fans input power	kW	6,1	8,5	10,7	27,5	27,3	34,2	38,7
Pump input power	kW							
Total input power	kW	70,2	123,5	141,8	248,4	297,1	398,7	503,9
EER	-	1,52	1,39	1,55	1,06	1,56	1,56	1,65
SEPR LT	-	2,78	2,65	2,70	2,75	3,08	3,05	3,16
Refrigerant circuits	n°	1	1	1	1	1	1	1
Compressors	n°	2	2	2	2	2	2	2
Bitzer compressor model (1)	-	OSNA 5361	OSNA 7452	OSNA 7472	OSNA 8571	OSNA 8591	OSKA 9573	OSKA 9593
Eco		yes	yes	yes	yes	yes	yes	yes
Inverter		2	2	2	2	2	2	2
Speed	rpm	3500	3500	3500	3500	3500	3500	3500
Refrigerant charge (estimated)	kg	120	140	180	215	310	330	415
	g/kW	1126	817	820	816	671	531	498
Number of axial fans	n°	2	3	4	10	10	12	20
Total air flow	m³/h	60000	83600	121400	280200	280200	336200	560400
Evaporator number	n°	1	1	1	1	1	1	1
Water flow	m³/h	18,9	30,4	38,9	46,7	81,9	110,3	147,9
Pressure drop	kPa	95,5	96	96,7	38	99,9	99,9	47,4
Water connections diameter		DN100	DN100	DN100	DN125	DN125	DN125	DN125
Operating weight	kg	6518	6518	7822	9126	11080	9148	11108
Length	mm	5000	5000	6000	7000	8500	7000	8500
Width	mm	2450	2450	2450	2450	2450	2450	2450
Height	mm	4800	4800	4800	4800	4800	4800	4800
Voltage/Phase/Frequency	V/ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50

(1) Data for units equipped with GEA compressors provided on request

Air cooled adiabatic condenser

Air 35°C water 12/7°C

High temperature		1	2	3	4	5	6	7
Nominal cooling capacity	kW	286,0	500,0	740,0	1046,0	1348,0	1760,0	2320,0
Compressor input power	kW	81,7	140,0	207,2	263,9	340,9	422,0	550,0
Fans input power	kW	8,3	15,3	21,5	32,2	37,6	55,5	64,4
Pump input power	kW							
Total input power	kW	90,0	155,3	228,7	296,1	378,4	477,4	614,4
EER	-	3,18	3,22	3,24	3,53	3,56	3,69	3,78
SEPR HT (1)	-	5,33	5,87	5,79	6,56	6,39	7,47	7,41
Refrigerant circuits	n°	1	1	1	1	1	1	1
Compressors	n°	2	2	2	2	2	2	2
Bitzer compressor model (2)	-	OSKA 5361	OSKA 7452	OSKA 8551	OSKA 8571	OSKA 8591	OSKA 9573	OSKA 9593
Eco		no	no	no	no	no	no	no
Inverter		2	2	2	2	2	2	2
Speed	rpm	3500	3500	3500	3500	3500	3500	3500
Refrigerant charge (estimated)	kg	150	210	230	285	355	395	440
	g/kW	524	420	311	272	263	224	190
Number of axial fans	n°	3	6	8	12	14	20	24
Total air flow	m³/h	76400	161700	202100	303100	353600	544800	606200
Evaporator number	n°	1	1	1	1	1	1	1
Water flow	m³/h	60,3	96,1	138,8	194,6	250,4	323,5	424,4
Pressure drop	kPa	98	99	100	99	99	100	94
Water connections diameter		DN100	DN100	DN100	DN125	DN125	DN125	DN150
Operating weight	kg	8179	9348	8848	9348	10516	14021	16942
Length	mm	7000	8000	7000	8000	9000	12000	14500
Width	mm	2450	2450	2450	2450	2450	2450	2450
Height	mm	4800	4800	4800	4800	4800	4800	4800
Voltage/Phase/Frequency	V/ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50

(1) Strasbourg climate profile

(2) Data for units equipped with GEA compressors provided on request

Air cooled adiabatic condenser

Air 35°C MEG 35% -2/-8°C

Medium Temperature		1	2	3	4	5	6	7
Nominal cooling capacity	kW	154,6	267,0	384,0	552,0	718,0	960,0	1272,0
Compressor input power	kW	66,7	131,1	190,2	246,5	322,6	383,7	493,5
Fans input power	kW	4,8	10,2	16,0	20,1	25,3	29,2	38,9
Pump input power	kW							
Total input power	kW	71,5	141,3	206,2	266,7	347,9	412,9	532,3
EER	-	2,16	1,89	1,86	2,07	2,06	2,33	2,39
SEPR MT (1)	-	4,21	4,06	3,99	4,52	4,55	4,89	4,96
Refrigerant circuits	n°	1	1	1	1	1	1	1
Compressors	n°	2	2	2	2	2	2	2
Bitzer compressor model (2)	-	OSKA 5361	OSKA 7452	OSKA 8551	OSKA 8571	OSKA 8591	OSKA 9573	OSKA 9593
Eco		no	no	no	no	no	no	no
Inverter		2	2	2	2	2	2	2
Speed	rpm	3500	3500	3500	3500	3500	3500	3500
Refrigerant charge (estimated)	kg	155	220	245	290	360	400	430
	g/kW	1003	824	638	525	501	417	338
Number of axial fans	n°	2	4	6	8	10	12	16
Total air flow	m³/h	53900	101100	138000	202100	272400	303100	404200
Evaporator number	n°	1	1	1	1	1	1	1
Water flow	m³/h	23,2	40,1	57,6	82,8	107,7	144,1	190,9
Pressure drop	kPa	95,1	99,9	99	98,2	99,1	99,6	88
Water connections diameter		DN100	DN100	DN100	DN125	DN125	DN125	DN150
Operating weight	kg	5780	5828	5828	6994	8159	9907	13987
Length	mm	5000	5000	5000	6000	7000	8500	12000
Width	mm	2450	2450	2450	2450	2450	2450	2450
Height	mm	4800	4800	4800	4800	4800	4800	4800
Voltage/Phase/Frequency	V/ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50

(1) Strasbourg climate profile

(2) Data for units equipped with GEA compressors provided on request

Air cooled adiabatic condenser

Air 35°C MEG 50% -17/-22°C

Low Temperature		1	2	3	4	5	6	7
Nominal cooling capacity	kW	106,6	171,4	219,6	263,4	462,0	622,0	834,0
Compressor input power	kW	64,1	115,0	131,1	220,9	269,8	364,6	465,2
Fans input power	kW	3,8	6,4	8,6	14,0	16,7	19,2	36,1
Pump input power	kW							
Total input power	kW	68,0	121,4	139,7	234,9	286,5	383,8	501,3
EER	-	1,57	1,41	1,57	1,12	1,61	1,62	1,66
SEPR LT (1)	-	2,82	2,68	2,73	2,87	3,17	3,15	3,18
Refrigerant circuits	n°	1	1	1	1	1	1	1
Compressors	n°	2	2	2	2	2	2	2
Bitzer compressor model (2)	-	OSNA 5361	OSNA 7452	OSNA 7472	OSNA 8571	OSNA 8591	OSKA 9573	OSKA 9593
Eco		yes	yes	yes	yes	yes	yes	yes
Inverter		2	2	2	2	2	2	2
Speed	rpm	3500	3500	3500	3500	3500	3500	3500
Refrigerant charge (estimated)	kg	138	170	235	260	320	365	400
	g/kW	1295	992	1070	987	693	587	480
Number of axial fans	n°	0	2	3	5	6	10	12
Total air flow	m³/h		53900	80900	134700	161700	252600	269400
Evaporator number	n°	1	1	1	1	1	1	1
Water flow	m³/h	18,9	30,4	38,9	46,7	81,9	110,3	147,9
Pressure drop	kPa	95,5	96	96,7	38	99,9	99,9	47,4
Water connections diameter		DN100	DN100	DN100	DN125	DN125	DN125	DN125
Operating weight	kg	5628	5628	6754	7880	9568	7899	9592
Length	mm	5000	5000	6000	7000	8500	7000	8500
Width	mm	2450	2450	2450	2450	2450	2450	2450
Height	mm	4800	4800	4800	4800	4800	4800	4800
Voltage/Phase/Frequency	V/ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50

(1) Strasbourg climate profile

(2) Data for units equipped with GEA compressors provided on request

Standard Evaporative condenser

Air 35°C water 12/7°C

High Temperature		1	2	3	4	5	6	7
Nominal cooling capacity	kW	309,2	534,0	808,0	1128,0	1452,0	1876,0	2460,0
Compressor input power	kW	69,1	113,0	168,7	206,7	268,9	323,0	422,8
Fans input power	kW	1,3	7,4	13,3	17,6	22,6	24,8	27,0
Pump input power	kW	2,1	2,1	2,9	3,7	4,4	7,3	8,8
Total input power	kW	72,5	122,6	184,9	228,0	295,9	355,1	458,7
EER	-	4,26	4,36	4,37	4,95	4,91	5,28	5,36
SEPR HT (1)	-	5,85	6,40	6,22	7,14	6,83	8,35	8,23
Refrigerant circuits	n°	1	1	1	1	1	1	1
Compressors	n°	2	2	2	2	2	2	2
Bitzer compressor model (2)	-	OSKA 5361	OSKA 7452	OSKA 8551	OSKA 8571	OSKA 8591	OSKA 9573	OSKA 9593
Eco		no	no	no	no	no	no	no
Inverter		2	2	2	2	2	2	2
Speed	rpm	3500	3500	3500	3500	3500	3500	3500
Refrigerant charge (estimated)	kg	245	335	400	425	485	535	725
	g/kW	792	627	495	377	334	285	295
Number of axial fans	n°	2	2	3	4	5	7	10
Total air flow	m³/h	52596	51767	84338	112323	134019	196429	278911
Evaporator number	n°	1	1	1	1	1	1	1
Water flow	m³/h	60,3	96,1	138,8	194,6	250,4	323,5	424,4
Pressure drop	kPa	98	99	100	99	99	100	94
Water connections diameter		DN100	DN100	DN100	DN125	DN125	DN125	DN150
Operating weight	kg	7000	7000	8500	11000	12000	15500	22000
Length	mm	7500	7500	7500	7500	9000	9000	15000
Width	mm	2450	2450	2450	2450	2450	2450	2450
Height	mm	6450	6450	6450	6450	6450	6450	6450
Voltage/Phase/Frequency	V/ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50

(1) Strasbourg climate profile

(2) Data for units equipped with GEA compressors provided on request

Standard Evaporative condenser

Air 35°C MEG 35% -2/-8°C

Medium Temperature		1	2	3	4	5	6	7
Nominal cooling capacity	kW	169,6	293,6	434,0	616,0	810,0	1040,0	1366,0
Compressor input power	kW	55,9	102,2	152,8	194,3	251,7	310,0	400,4
Fans input power	kW	3,4	2,2	8,0	4,1	13,3	14,6	8,8
Pump input power	kW	0,9	2,1	2,1	2,9	3,7	4,4	5,7
Total input power	kW	60,1	106,4	162,9	201,2	268,7	329,0	414,9
EER	-	2,82	2,76	2,66	3,06	3,01	3,16	3,29
SEPR MT (1)	-	5,15	5,20	5,07	5,90	5,68	6,30	6,53
Refrigerant circuits	n°	1	1	1	1	1	1	1
Compressors	n°	2	2	2	2	2	2	2
Bitzer compressor model (2)	-	OSKA 5361	OSKA 7452	OSKA 8551	OSKA 8571	OSKA 8591	OSKA 9573	OSKA 9593
Eco		no	no	no	no	no	no	no
Inverter		2	2	2	2	2	2	2
Speed	rpm	3500	3500	3500	3500	3500	3500	3500
Refrigerant charge (estimated)	kg	220	310	368	395	475	495	550
	g/kW	1297	1056	848	641	586	476	403
Number of axial fans	n°	1	2	2	3	4	5	6
Total air flow	m³/h	25559	52849	50137	79749	107112	126757	152629
Evaporator number	n°	1	1	1	1	1	1	1
Water flow	m³/h	23,2	40,2	59,4	84,3	110,8	142,3	186,9
Pressure drop	kPa	95,1	99,9	99	98,2	99,1	99,6	88
Water connections diameter		DN100	DN100	DN100	DN125	DN125	DN125	DN150
Operating weight	kg	5500	7000	7000	8500	11000	12000	13500
Length	mm	7500	7500	7500	7500	9000	9000	15000
Width	mm	2450	2450	2450	2450	2450	2450	2450
Height	mm	6450	6450	6450	6450	6450	6450	6450
Voltage/Phase/Frequency	V/ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50

(1) Strasbourg climate profile

(2) Data for units equipped with GEA compressors provided on request

Standard Evaporative condenser

Air 35°C MEG 50% -17/-22°C

Low Temperature		1	2	3	4	5	6	7
Nominal cooling capacity	kW	114,6	179,0	232,8	385,0	502,0	664,0	872,0
Compressor input power	kW	54,3	92,0	108,5	179,3	217,4	294,6	380,0
Fans input power	kW	0,3	2,3	3,9	4,5	9,0	9,4	13,7
Pump input power	kW	0,9	0,9	0,9	2,1	2,1	2,9	2,9
Total input power	kW	55,5	95,1	113,2	185,9	228,4	306,8	396,5
EER	-	2,06	1,88	2,06	2,07	2,20	2,16	2,20
SEPR LT (1)	-	3,51	3,34	3,23	3,54	3,95	4,08	4,36
Refrigerant circuits	n°	1	1	1	1	1	1	1
Compressors	n°	2	2	2	2	2	2	2
Bitzer compressor model (2)	-	OSNA 5361	OSNA 7452	OSNA 7472	OSNA 8571	OSNA 8591	OSKA 9573	OSKA 9593
Eco		yes	yes	yes	yes	yes	yes	yes
Inverter		2	2	2	2	2	2	2
Speed	rpm	3500	3500	3500	3500	3500	3500	3500
Refrigerant charge (estimated)	kg	180	225	250	310	340	385	420
	g/kW	1571	1257	1074	805	677	580	482
Number of axial fans	n°	1	1	1	2	2	3	3
Total air flow	m³/h	28704	28737	27261	58914	55998	89090	81447
Evaporator number	n°	1	1	1	1	1	1	1
Water flow	m³/h	18,9	29,5	38,4	63,5	82,8	109,5	143,8
Pressure drop	kPa	95,5	96	96,7	38	99,9	99,9	47,4
Water connections diameter		DN100	DN100	DN100	DN125	DN125	DN125	DN125
Operating weight	kg	5500	5500	5500	7000	7000	8500	8500
Length	mm	7500	7500	7500	7500	9000	9000	15000
Width	mm	2450	2450	2450	2450	2450	2450	2450
Height	mm	6450	6450	6450	6450	6450	6450	6450
Voltage/Phase/Frequency	V/ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50

(1) Strasbourg climate profile

(2) Data for units equipped with GEA compressors provided on request

High effficiency evaporative condenser

Air 35°C MEG 50% -17/-22°C

High Temperature		1	2	3	4	5	6	7
Nominal cooling capacity	kW	315,0	542,0	828,0	1150,0	1470,0	1906,0	2502,0
Compressor input power	kW	65,4	105,0	158,5	191,7	249,8	293,3	388,9
Fans input power	kW	1,2	6,7	12,1	15,9	20,3	22,3	24,4
Pump input power	kW	1,9	1,9	2,6	3,3	4,0	6,6	7,9
Total input power	kW	68,5	113,6	173,1	211,0	274,0	322,2	421,2
EER	-	4,60	4,77	4,78	5,45	5,36	5,92	5,94
SEPR HT (1)	-	6,01	6,62	6,39	7,33	6,97	8,68	8,54
Refrigerant circuits	n°	1	1	1	1	1	1	1
Compressors	n°	2	2	2	2	2	2	2
Bitzer compressor model (2)	-	OSKA 5361	OSKA 7452	OSKA 8551	OSKA 8571	OSKA 8591	OSKA 9573	OSKA 9593
Eco		no	no	no	no	no	no	no
Inverter		2	2	2	2	2	2	2
Speed	rpm	3500	3500	3500	3500	3500	3500	3500
Refrigerant charge (estimated)	kg	225	335	385	415	475	530	705
	g/kW	714	618	465	361	323	278	282
Number of axial fans	n°	2	2	3	4	5	7	10
Total air flow	m³/h	52889	51764	85183	112913	133932	196449	279694
Evaporator number	n°	1	1	1	1	1	1	1
Water flow	m³/h	60,3	96,1	138,8	194,6	250,4	323,5	424,4
Pressure drop	kPa	98	99	100	99	99	100	94
Water connections diameter		DN100	DN100	DN100	DN125	DN125	DN125	DN150
Operating weight	kg	7000	7000	8500	11000	12000	15500	22000
Length	mm	7500	7500	7500	7500	9000	9000	15000
Width	mm	2450	2450	2450	2450	2450	2450	2450
Height	mm	6450	6450	6450	6450	6450	6450	6450
Voltage/Phase/Frequency	V/ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50

(1) Strasbourg climate profile

(2) Data for units equipped with GEA compressors provided on request

High effficiency evaporative condenser

Air 35°C MEG 35% -2/-8°C

Medium Temperature		1	2	3	4	5	6	7
Nominal cooling capacity	kW	173,8	300,2	448,0	632,0	832,0	1060,0	1392,0
Compressor input power	kW	52,8	95,4	142,8	180,7	232,4	288,7	373,7
Fans input power	kW	3,1	1,9	7,3	3,7	12,0	13,1	7,9
Pump input power	kW	1,9	1,9	2,6	3,3	4,0	6,6	7,9
Total input power	kW	57,8	99,3	152,7	187,6	248,4	308,4	389,5
EER	-	3,01	3,02	2,93	3,37	3,35	3,44	3,57
SEPR MT (1)	-	5,26	5,32	5,18	6,02	5,77	6,45	6,68
Refrigerant circuits	n°	1	1	1	1	1	1	1
Compressors	n°	2	2	2	2	2	2	2
Bitzer compressor model (2)	-	OSKA 5361	OSKA 7452	OSKA 8551	OSKA 8571	OSKA 8591	OSKA 9573	OSKA 9593
Eco		no	no	no	no	no	no	no
Inverter		2	2	2	2	2	2	2
Speed	rpm	3500	3500	3500	3500	3500	3500	3500
Refrigerant charge (estimated)	kg	210	305	360	380	450	475	540
	g/kW	1208	1016	804	601	541	448	388
Number of axial fans	n°	1	2	2	3	4	5	6
Total air flow	m³/h	25690	52830	50479	79977	107380	126635	152566
Evaporator number	n°	1	1	1	1	1	1	1
Water flow	m³/h	23,2	40,1	59,8	84,4	111,1	141,5	185,8
Pressure drop	kPa	95,1	99,9	99	98,2	99,1	99,6	88
Water connections diameter		DN100	DN100	DN100	DN125	DN125	DN125	DN150
Operating weight	kg	5500	7000	7000	8500	11000	12000	13500
Length	mm	7500	7500	7500	7500	9000	9000	15000
Width	mm	2450	2450	2450	2450	2450	2450	2450
Height	mm	6450	6450	6450	6450	6450	6450	6450
Voltage/Phase/Frequency	V/ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50

(1) Strasbourg climate profile

(2) Data for units equipped with GEA compressors provided on request

High effficiency evaporative condenser

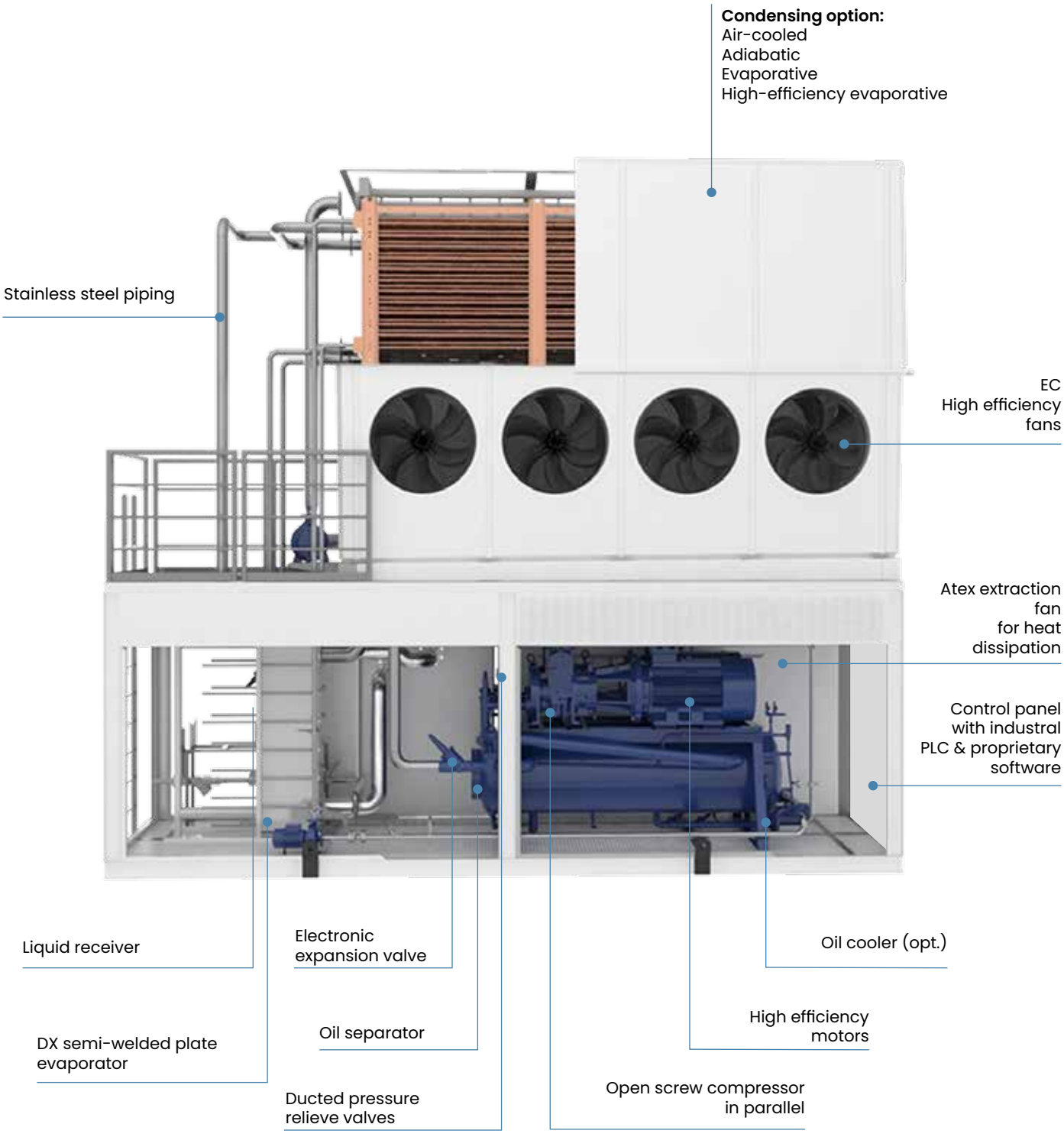
Air 35°C MEG 50% -17/-22°C

Low Temperature		1	2	3	4	5	6	7
Nominal cooling capacity	kW	96,6	153,2	203,6	336,8	446,0	560,0	738,0
Compressor input power	kW	45,7	78,0	94,8	158,5	191,5	253,5	330,2
Fans input power	kW	1,9	1,1	3,7	2,2	7,2	7,9	4,8
Pump input power	kW	0,8	1,9	1,9	2,6	3,3	4,0	5,1
Total input power	kW	48,3	81,1	100,3	163,3	202,0	265,3	340,1
EER	-	2,00	1,89	2,03	2,06	2,21	2,11	2,17
SEPR LT (1)	-	3,53	3,36	3,23	3,55	3,96	3,99	4,15
Refrigerant circuits	n°	1	1	1	1	1	1	1
Compressors	n°	2	2	2	2	2	2	2
Bitzer compressor model (2)	-	OSNA 5361	OSNA 7452	OSNA 7472	OSNA 8571	OSNA 8591	OSKA 9573	OSKA 9593
Eco		yes	yes	yes	yes	yes	yes	yes
Inverter		2	2	2	2	2	2	2
Speed	rpm	3500	3500	3500	3500	3500	3500	3500
Refrigerant charge (estimated)	kg	175	225	250	310	340	380	415
	g/kW	1812	1469	1228	920	762	679	562
Number of axial fans	n°	1	1	1	2	2	3	3
Total air flow	m³/h	33115	28193	38612	62316	73211	107464	153204
Evaporator number	n°	1	1	1	1	1	1	1
Water flow	m³/h	18,9	30,0	39,8	65,9	87,3	109,6	144,4
Pressure drop	kPa	95,5	96	96,7	38	99,9	99,9	47,4
Water connections diameter		DN100	DN100	DN100	DN125	DN125	DN125	DN125
Operating weight	kg	5500	5500	5500	7000	7000	8500	8500
Length	mm	7500	7500	7500	7500	9000	9000	15000
Width	mm	2450	2450	2450	2450	2450	2450	2450
Height	mm	6450	6450	6450	6450	6450	6450	6450
Voltage/Phase/Frequency	V/ph/Hz	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50	400-3-50

(1) Strasbourg climate profile

(2) Data for units equipped with GEA compressors provided on request

FEATURES


Condensing option:
Air-cooled
Adiabatic
Evaporative
High-efficiency evaporative
Stainless steel piping
EC
High efficiency
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Atex extraction
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for heat
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Control panel
with industrial
PLC & proprietary
software
Liquid receiver
Electronic
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Oil cooler (opt.)
DX semi-welded plate
evaporator
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relieve valves
Open screw compressor
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