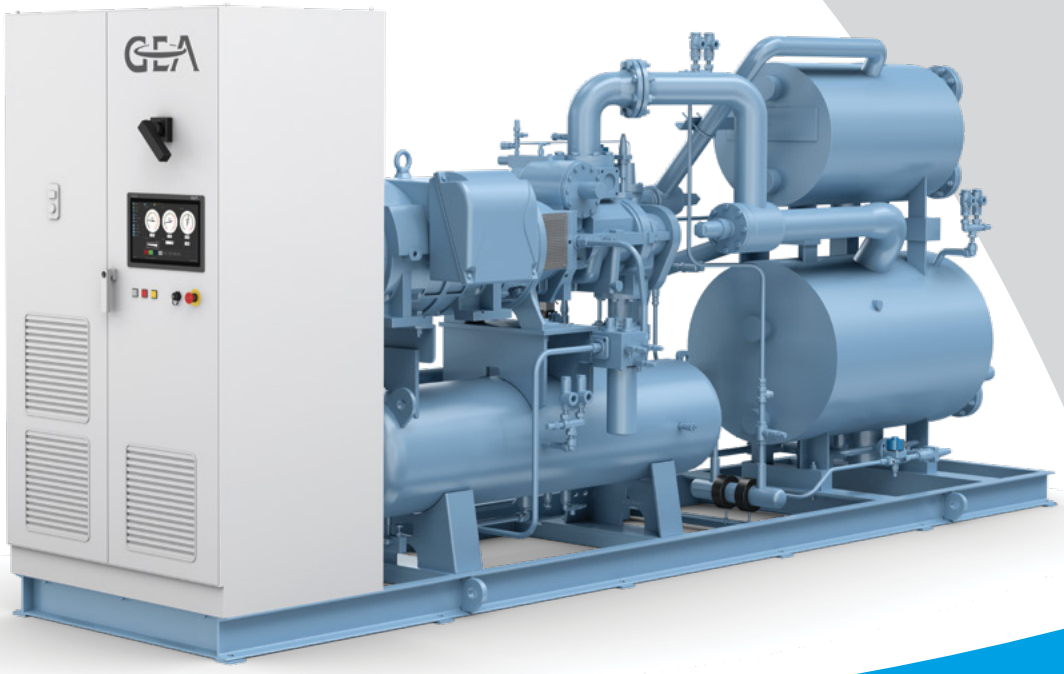

GEA BluAstrum Chiller

ultra-low charge, high efficiency

The GEA Advantage

GEA Omni control panel

- High definition 15.6" color display (1,366 × 768 pixel)
- Remote access via GEA OmniLink
- Full data history via GEA OmniHistorian
- Configurable Ethernet communication
- Optional multiple chiller sequencing

Power panel with infinitely variable capacity

- Capacity control via frequency inverter
- Variable speed range of 1,000 – 4,500 rpm for superior part-load efficiency and turn down
- Single-point power connection (460V)

Highly efficient screw compressor

- GEA designed rotor profile for industry-leading EER
- Variable internal volume ratio (Vi) for better part-load efficiency
- Industrial bearings with long service life and inherently quiet operation
- Proven, rebuildable compressor design
- Extended product life of all moving parts due to inverter operation

Water-cooled condenser

- Fully welded plate heat exchanger
- Utilizes water or glycol
- Low design approach temperatures

Combined evaporator-liquid separator

- Fully welded plate heat exchanger
- Integrated liquid separator for liquid-free suction gas
- Low approach temperatures for reduced energy costs
- Suitable for all common secondary fluids
- Flooded design, safe drain operation
- Simple connections with detachable ASME flanged connections on the fluid side

engineering for a better world

gea.com

Featuring a sleek design and requiring minimal maintenance, the BluAstrum ammonia chiller delivers reliable performance and operational advantages.

Having received high accolades from customers in Europe and other global markets, the GEA BluAstrum chiller now makes its way to North America.

Key features and benefits

- Minimal maintenance requirements
- Extremely compact equipment size
- Cooling capacity nominal 100–500 TR
- Chilled process fluid outlet temperature range approximately +5° to 64 °F
- Ultra-low refrigerant charge
- Seven standard model sizes
- Screw compressor w/variable speed control & variable Vi
- GEA Omni control panel
- Environmentally friendly refrigerant will not be phased out
- Designed for indoor, low-noise operation

Compact and low maintenance

Narrow widths of approximately 49–51" (depending on model) and the resulting small footprint allow for simple transport, as well as ease of relocation and installation in space-restricted machine rooms.

A key aspect of the BluAstrum is its low maintenance requirements. This benefit is the result of the latest industrial screw compressor technology and design features such as the elimination of an oil pump and the flanged motor-compressor connection on most models.** Units are safe and reliable with all-welded construction of both piping and heat exchangers.

Optional GEA BluAstrum remote version is provided with a pilot receiver that can be connected to an external condenser (air-cooled or evaporative) supplied by the customer.

BluAstrum – Nominal sizes and capacities

		Water +45°F			Glycol +20°F						
BluAstrum Model #	Compressor Model #	Capacity (TR)	Motor Size* (HP)	Line kW/TR (water)	Capacity (TR)	Motor Size* (HP)	Line kW/TR (30% EG)	R-717 Charge (lbs.)	Length (inches)	Width (inches)	Height (inches)
400	60GMX	127	150	0.77	75	150	1.13	86	200	49	94
500	85GMX	180	200	0.70	105	200	1.14	86	200	49	94
800	110GMX	227	250	0.69	132	250	1.11	92	205	49	94
900	125GMX	267	350	0.87	155	300	1.08	120	208	49	94
1000	160GMX	347	350	0.65	201	350	1.06	135	228	49	94
1500	195GMX	433	400	0.64	253	400	1.04	226	263	49	94
1800	230GLX	506	500	0.64	301	450	1.04	269	283	51	97

Notes: Contact your GEA sales representative for access to RTSelect and a software demonstration.
**Motor HP may change for actual design conditions. Assumes 85°F cooling water supply.*
***Except BluAstrum model 1800.*

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