



GEA BluAstrum Chiller

Ultra-low charge, high efficiency

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

Featuring a sleek design and requiring minimal maintenance, the GEA 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 100–700 TR
- Chilled process fluid outlet temperature range approximately -20° to 64 °F
- Ultra-low refrigerant charge
- Nine 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 55" (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 BluAstrum models 400 – 1500. Units are safe and reliable with all-welded construction of both piping and heat exchangers.

Optional GEA BluAstrum remote version is provided (with or without a pilot receiver) that can be connected to an external condenser (air-cooled or evaporative) supplied by the customer.

Technical Data

GEA BluAstrum - Maximum sizes and capabilities

		Water +55°F/+45°F			20% Propylene Glycol +30°F/+20°F						
Model No.	Compressor Model No.	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	134	125	0.63	78	125	1.09	139	216	55	104
500	85GMX	188	150	0.62	109	150	1.07	136	216	55	104
800	110GMX	237	200	0.63	136	200	1.08	145	228	55	104
900	125GMX	272	250	0.62	156	250	1.07	137	228	55	104
1000	160GMX	348	300	0.63	200	300	1.07	140	228	55	104
1500	195GMX	438	350	0.62	256	350	1.04	269	150	122	108
1800	230GLX	515	450	0.64	306	400	1.02	270	215	122	110
2200	290GLX	623	600	0.65	374	500	1.03	270	215	122	110
2500	340GLX	692	600	0.66	415	600	1.03	270	215	122	110

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 inlet / 95°F outlet cooling water.

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