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Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

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# ВИНТОВЫЕ КОМПРЕССОРЫ FES

## Технические характеристики





# GEA FES XSeries Screw compressor packages

Models 230GLX - 1435GLX  
739 to 4122 CFM

## GLX compressor design

- Patented 5/6 rotor profile for highest efficiency
- Infinitely variable V<sub>i</sub>
- Hermetic slide valve indicator
- Best COP at full- and part-load operation
- Quick and easy access to field-replaceable thrust bearings
- Inherently quiet and long-lasting sleeve bearings

## Exceptional package arrangement

- Compact design
  - Lower package height
  - Ground-level serviceability for most components
- Drive line detached from separator
  - Reduced vibration transmission
  - Minimizes thermal growth effect
- NEMA premium efficiency, low-noise motor
- Suction Filter Combination (SFC) integrated hot-gas operated suction check valve
- Oil Management Center (OMC) for improved reliability and cleanliness

## Multi-stage oil separator design

- Minimal oil carryover (not to exceed 5 ppm)
- Smaller oil separator
- Reduced oil charge
- Internal discharge check valve

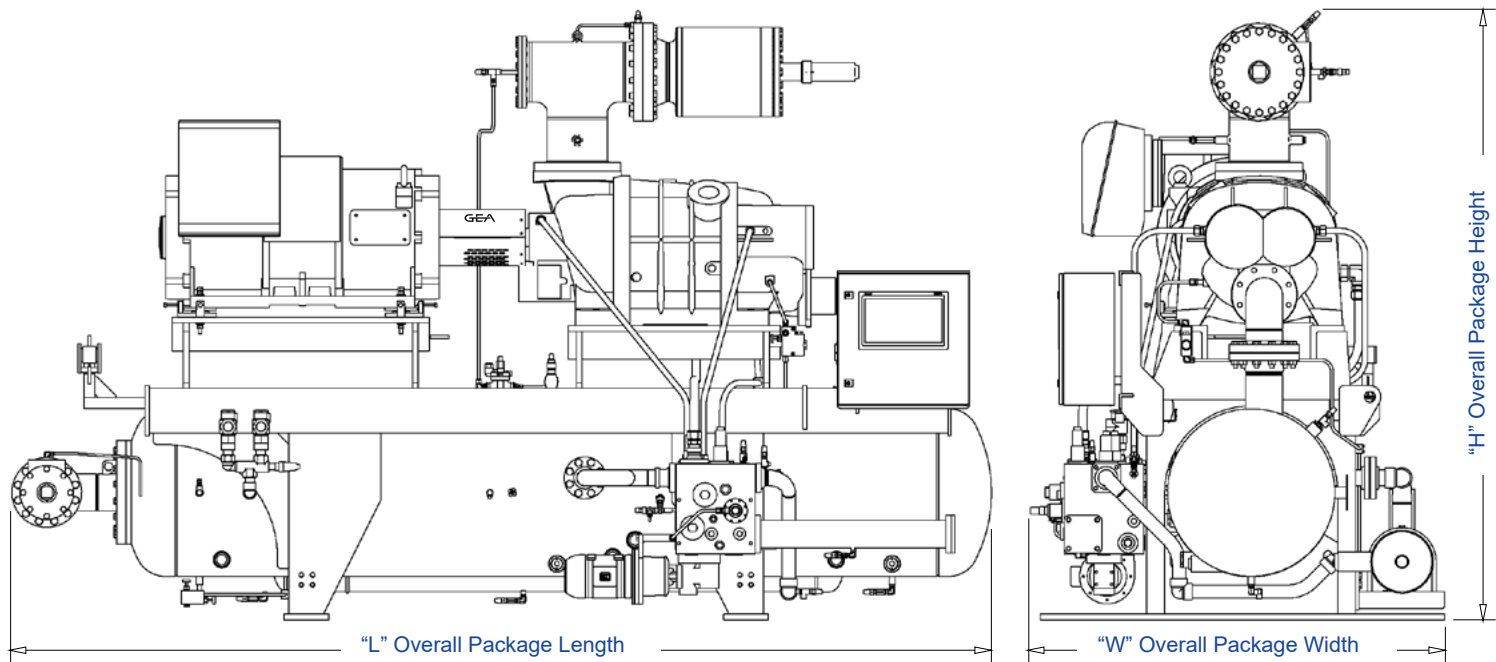
## GEA Omni control panel

- High-definition 15.6" color display
- Multi-touch screen for natural and intuitive input
- Configurable modbus/TCP/IP communication
- Documentation, drawings and video available directly on the panel display
- Remote access via GEA OmniLink
- Full history via GEA OmniHistorian

# Technical Data (for NH<sub>3</sub>)

## GEA FES GLX Screw Compressor Packages

Model No.	Application	Vessel Diameter Inches	Cooling Type	Approximate Dimensions (Inches / Millimeters)			Standard Connections			
				L	W	H	(Suction)		(Discharge)	
							Inches	DN	Inches	DN
230GLX - 290GLX	High-Stage	20	LI	141 / 3581	56 / 1422	82 / 2083	6	150	3	80
			TSOC	141 / 3581	61 / 1549	82 / 2083	6	150	3	80
230GLX - 290GLX	Booster	20	LI	141 / 3581	54 / 1372	82 / 2083	5	125	3	80
			TSOC	141 / 3581	61 / 1549	82 / 2083	5	125	3	80
340GLX	High-Stage	20	LI	144 / 3658	56 / 1422	82 / 2083	6	150	4	100
			TSOC	144 / 3658	61 / 1549	82 / 2083	6	150	4	100
340GLX	Booster	20	LI	144 / 3658	54 / 1372	82 / 2083	5	125	4	100
			TSOC	144 / 3658	61 / 1549	82 / 2083	5	125	4	100
400GLX - 565GLX	High-Stage	24	LI	170 / 4318	60 / 1524	101 / 2165	8	200	5	125
			TSOC	170 / 4318	67 / 1702	101 / 2165	8	200	5	125
400GLX - 565GLX	Booster	24	LI	169 / 4293	58 / 1473	101 / 2165	6	150	4	100
			TSOC	169 / 4293	65 / 1651	101 / 2165	6	150	4	100
675GLX - 800GLX	High-Stage	30	LI	176 / 4470	68 / 1422	110 / 2794	10	250	6	150
			TSOC	176 / 4470	75 / 1473	110 / 2794	10	250	6	150
675GLX - 800GLX	Booster	30	LI	174 / 4420	64 / 1626	110 / 2794	8	200	5	125
			TSOC	174 / 4420	71 / 1803	110 / 2794	8	200	5	125
1025GLX - 1210GLX	Booster	30	LI	174 / 4420	65 / 1651	115 / 2921	8	200	5	125
			TSOC	174 / 4420	72 / 1829	115 / 2921	8	200	5	125
1435GLX	Booster	36	LI	179 / 4547	70 / 1778	121 / 3073	10	250	6	150
			TSOC	179 / 4547	78 / 1984	121 / 3073	10	250	6	150





# GEA FES XSeries Screw compressor packages

Models 55GMX - 195GMX  
164 to 618 CFM

## GMX compressor design

- Patented 5/6 rotor profile for highest efficiency
- Integrated hot-gas-activated suction check valve:
  - Reduces package losses for improved BHP/TR
  - Eliminates check-valve chatter for longer valve life
- Infinitely variable V<sub>i</sub>
- Best COP at full- and part-load operation
- Quick and easy access to field-replaceable thrust bearings

## Exceptional package arrangement

- Compact design
- Ground-level serviceability
- Consolidated oil connection reduces package leak points
- Discharge hold-back valve
  - No oil pump needed for high-stage, fixed-speed NH<sub>3</sub> applications
  - Ensures proper pressure achieved for complete oil circulation

## Multi-stage oil separator design

- Minimal oil carryover (not to exceed 5 ppm)
- Guaranteed and rigorously tested
- 20" standard design for most models
- Flange head manway design allows for safer operation and easy access

## D-Flange motor

- No alignment required
- Easy access to service-friendly coupling
- Variable speed operation available (1450 – 4200 rpm)

## GEA Omni control panel

- High-definition 15.6" color display
- Multi-touch screen for natural and intuitive input
- Configurable modbus TCP/IP communication
- Documentation, drawings and video available directly on the panel display
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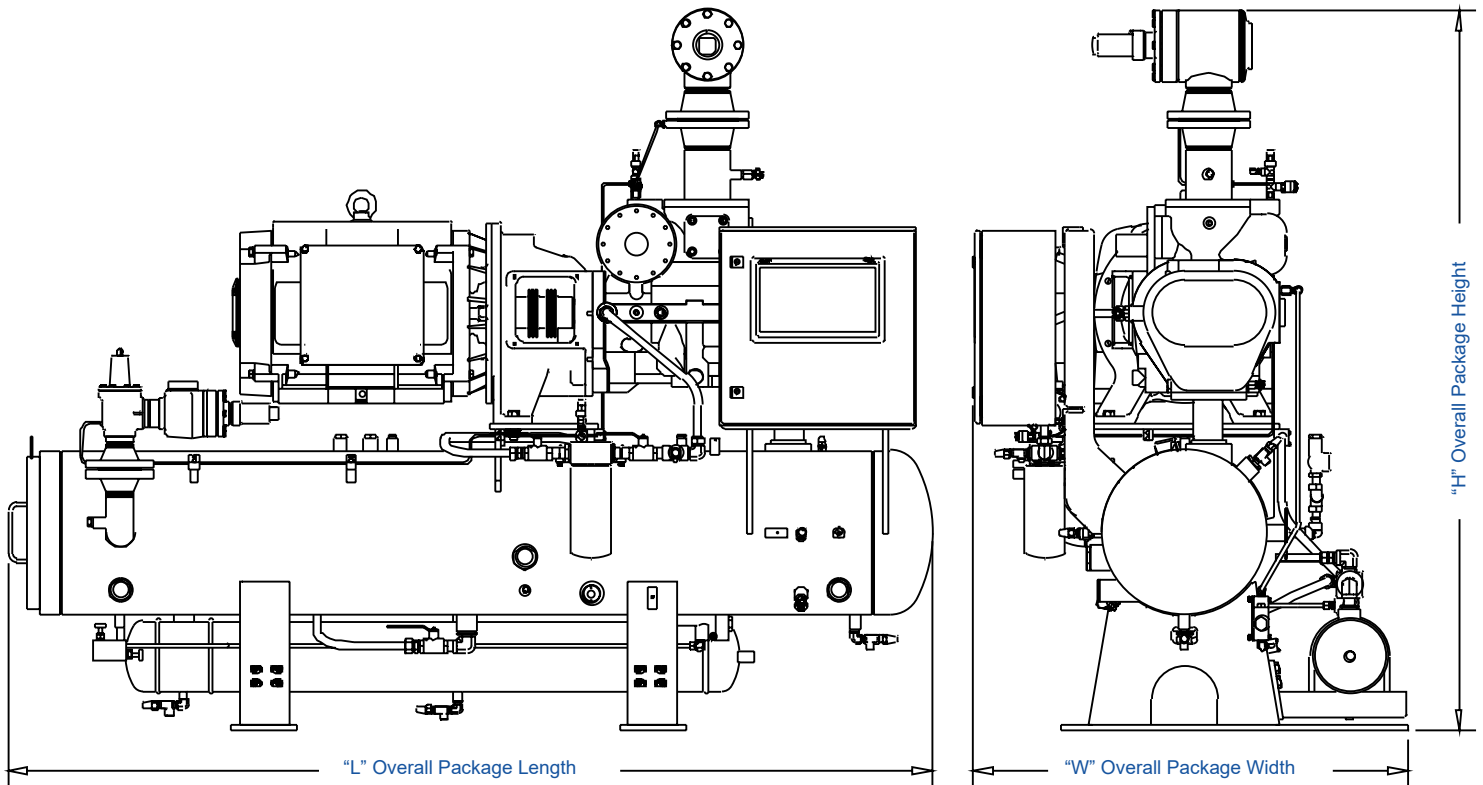
# Technical Data (for NH<sub>3</sub>)

## GEA FES GMX Screw Compressor Packages

GEA North America's FES GMX models represent the low range of swept-volume offerings of the company's robust lineup of screw compressor packages, which in total span the 164 to 4122 CFM range. These innovative designs provide significant performance, cost-saving and maintenance advantages and feature GEA's Exceptional warranty.

All GEA screw compressors packages feature the industry-leading GEA Omni control panel. GEA Omni provides a high-definition, multi-touch screen and delivers the ease of use and technical wow factor that industrial refrigeration professionals have come to expect from GEA.

Model No.	Application	Vessel Diameter Inches	Cooling Type	Approximate Dimensions (Inches / Millimeters)			Standard Connections			
				L	W	H	(Suction)		(Discharge)	
							Inches	DN	Inches	DN
55GMX - 85GMX	High-Stage Booster	20	LI	102 / 2591	55 / 1397	70 / 1778	3	80	2.5	65
			TSOC	102 / 2591	55 / 1397	70 / 1778	3	80	2.5	65
110GMX - 125GMX	High-Stage Booster	20	LI	115 / 2921	53 / 1346	89 / 2260	4	100	3	80
			TSOC	115 / 2921	53 / 1346	89 / 2260	4	100	3	80
160GMX - 195GMX	High-Stage Booster	20	LI	115 / 2921	54 / 1372	94 / 2388	5	125	3	80
			TSOC	115 / 2921	54 / 1372	94 / 2388	5	125	3	80
195GMX	High-Stage Booster	24	LI	126 / 3200	56 / 1422	99 / 2515	5	125	3	80
			TSOC	126 / 3200	58 / 1473	100 / 2540	5	125	3	80



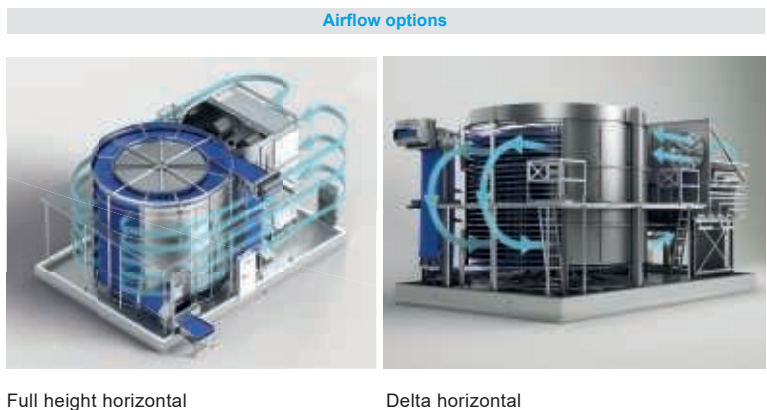
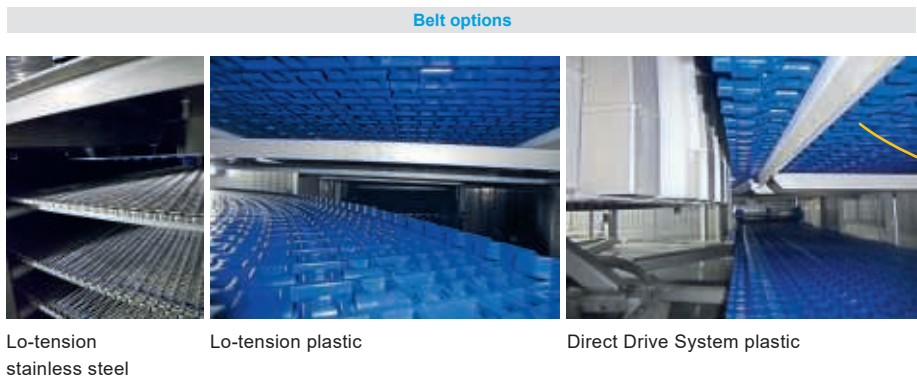


# Modular configuration

Benefits for customers include fast installation on site, flexibility to adapt to space constraints, efficient, resource-saving cleaning and reduced maintenance.

## Customized to specifications

GEA S-Tec spiral freezer solutions have been developed around a proven modular concept, and can be configured to fit in with any existing plant layout, capacity, and upstream and downstream processes. Available in standard belt widths to match typical food applications, S-Tec freezers can be supplied with the optimum turn radius, number of tiers and pitch to meet any process requirement, and are constructed to offer optimum hygiene and cleaning-in-place (CIP) options.



**High hygiene and easy maintenance guarantees**

GEA S-Tec spiral freezer solutions can be supplied with either chequerplate or fully welded flooring to match our customers' hygiene and maintenance requirements. Chequerplate flooring offers a cost-effective option but for the most stringent hygiene requirements, or for long-term, maintenance-free operation, we can install fully welded floors.

The S-Tec fully-welded modular floor does not require floor heating and removes dirt traps with structure elevated on pins welded to the floor. The application of fully welded stainless steel enclosure panels removes the need for silicone joints, and so significantly reduces maintenance, as well as providing unmatched hygiene and ease of cleaning.



**Defrosting options**



Shift defrost

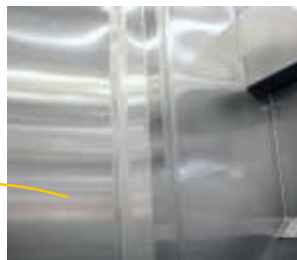


Sequential defrost



SRS (with delta horizontal airflow option)

**Enclosure options**



Fully Welded



White inside/White outside



Stainless Steel inside White outside



Stainless Steel inside Stainless Steel outside

**Floor options**



Chequer plate



Fully welder modular

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