



# 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 Vi
- Best COP at full- and part-load operation
- Quick and easy access to field-replaceable thrust bearings

## **Xceptional 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
- Flathead 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
- Remote access via GEA OmniLink
- Full history via GEA OmniHistorian

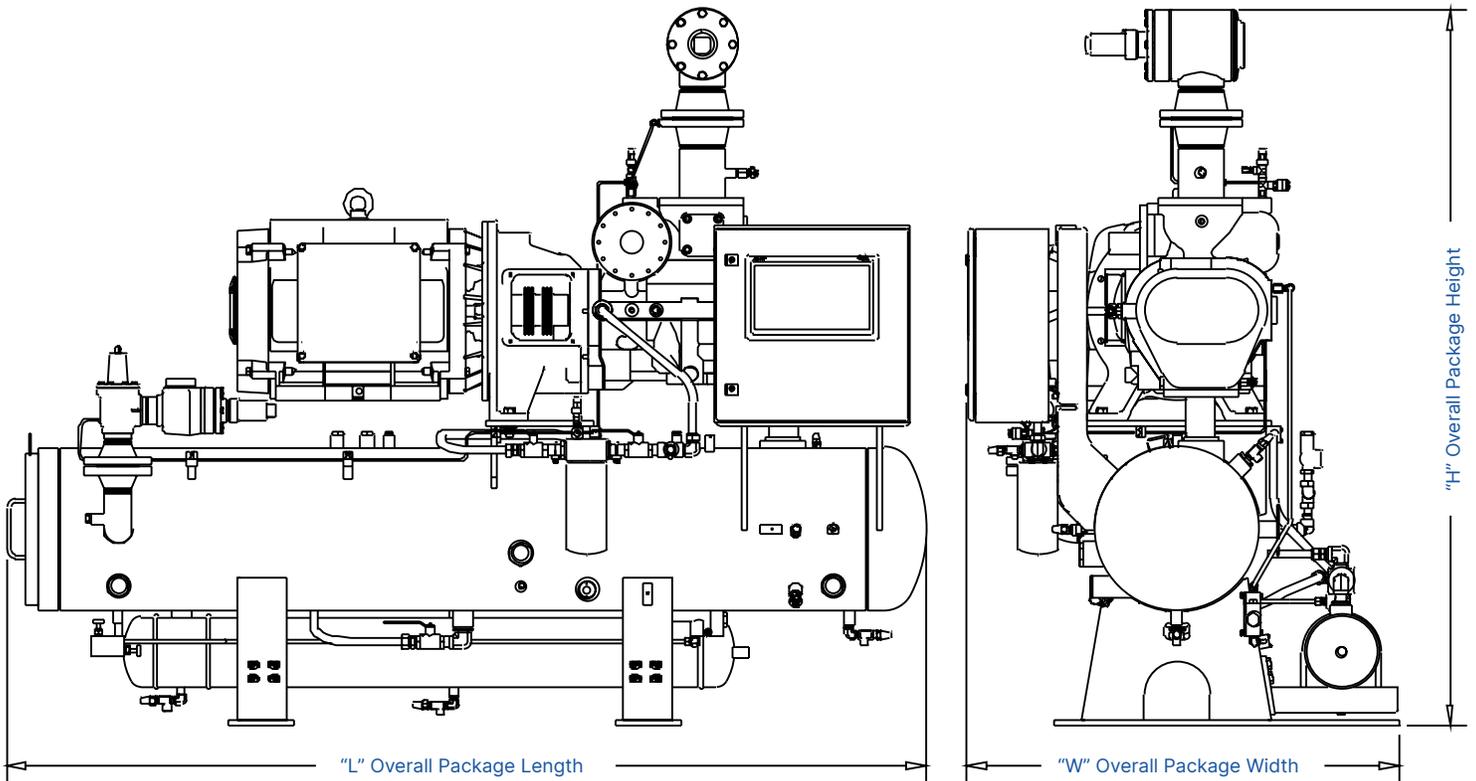
# Technical Data (for NH<sub>3</sub>)

## 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 Xceptional 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



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