

## Variable Frequency Drive Rotary Screw Compressors

# SFC 22 - 30 Now with SynRM Motors



### Motor Features:

- Standard on SFC 22, 30S, and 30 models
- Meets IES2—the highest efficiency class
- Improved efficiency at part load operation
- Perfectly matched with Siemens drive for efficient operation
- Lower operating temperatures for extended bearing and motor life
- No special tools or parts needed for repair
- Integrated Sigma Contol 2™ monitors motor winding temperature

### Improved efficiency

Kaeser's SFC 22, 30S, and 30 variable frequency drive compressors feature a newly developed synchronous reluctance motor (SynRM) for improved efficiency during part load operation. The design underscores Kaeser's continued commitment to sustainability and energy efficient system design and offers an efficiency advantage of up to 25% over the competition.

### Lower maintenance costs

Unlike asynchronous motors, SynRM do not use aluminum, copper, or expensive rare earth magnets in the rotors. Instead, the rotors are made of electrical steel and feature a special profile. This unique design means these motors can run at higher speeds without additional rotor warming. This increases bearing life and reduces maintenance costs.

### Perfectly paired

Developed in partnership with Siemens, these motors are specifically designed to work with the Siemens drive technology used in Kaeser's Sigma Frequency Control (SFC) models. The drive features a specially developed control algorithm for powerful performance that delivers maximum savings.

# Technical Specifications

Model	Pressure Range (1) (psig)	*Capacity for 460V (2) (cfm)		Rated Motor Power (hp)	Dimensions W x D x H (in.)	Weight (3) (lb.)	Sound Level (4) (dB(A))	
		Min	Max					
SFC 22 SFC 22T	110	37	163	30	60 <sup>5</sup> / <sub>8</sub> x 35 <sup>3</sup> / <sub>8</sub> x 60 <sup>1</sup> / <sub>4</sub> 72 <sup>7</sup> / <sub>8</sub> x 35 <sup>3</sup> / <sub>8</sub> x 60 <sup>1</sup> / <sub>4</sub>	1669	69	
	125	37	154			1874		
SFC 30S SFC 30ST	110	38	185	40		1669		
	125	37	174			1878		
SFC 30 SFC 30T	110	46	217	40		1753		70
	125	48	206			1962		

**\*Performance data values are only valid for 460V/3 ph/60 Hz. Please consult Kaeser for 575V availability and data.**

(1) Other pressures available from 80 to 217 psig. (2) Performance rated in accordance with ISO 1217, Annex E test code. (3) Weights may vary slightly depending on airoend model. (4) Per ISO 2151 using ISO 9614-2.

**Specifications are subject to change without notice.**

## CAGI Certified Performance

Our compressors' energy efficiency has been tested and confirmed by an independent laboratory as part of the Compressed Air and Gas Institute's **Rotary Screw Compressor Performance Verification Program**. CAGI data sheets are available for screw compressors from 5 to 200 hp at [us.kaeser.com/cagi](http://us.kaeser.com/cagi).



[www.kaeser.com](http://www.kaeser.com)

**Kaeser Compressors, Inc.**  
511 Sigma Drive  
Fredericksburg, VA 22408 USA  
Telephone: 540-898-5500  
Toll Free: 800-777-7873  
info.usa@kaeser.com

**Kaeser Compressors Canada Inc.**  
3760 La Vérendrye Street  
Boisbriand, QC J7H 1R5 CANADA  
Telephone: (450) 971-1414  
Toll free: (800) 477-1416  
info.canada@kaeser.com

**Kaeser Compresores de México S de RL de CV**  
Calle 2 #123  
Parque Industrial Jurídica  
76100 Querétaro, Qro.  
Telephone: 01 (442) 218 64 48  
sales.mexico@kaeser.com

**Kaeser Compresores de Guatemala y Cia. Ltda.**  
Calz. Atanasio Tzul 21-00, zona 12  
El Cortijo II, Bodega 501  
01012—Guatemala City  
Telephone: +502 2412-6000  
info.guatemala@kaeser.com

