



NEW STANDARD SCREW COMPRESSOR

# J-Series



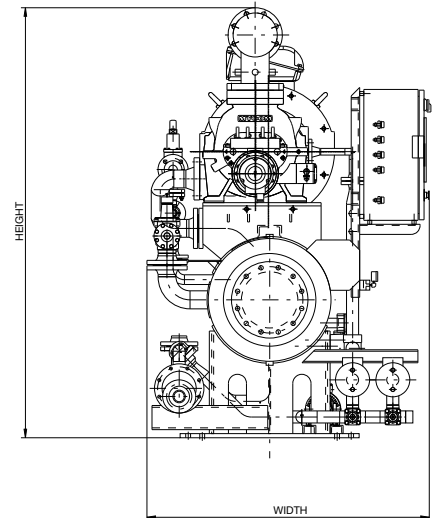
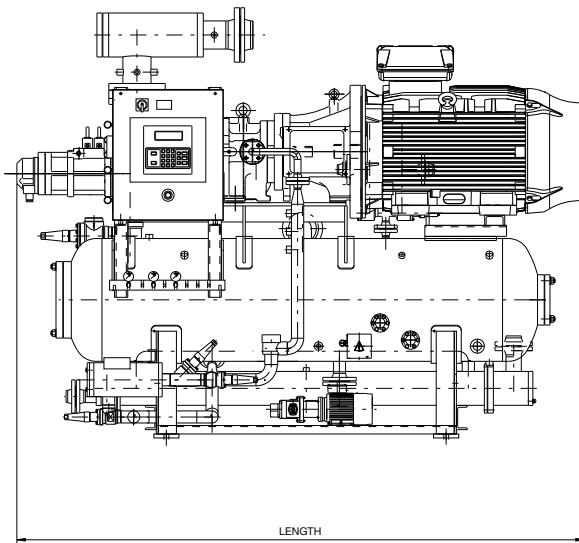
### The J-series

with its innovative new rotor profile will revolutionize the refrigeration industry. With this winning design, our focus being driven towards energy efficiency, the COP (Coefficient of Performance) has even surpassed MAYEKAWA's high standards.

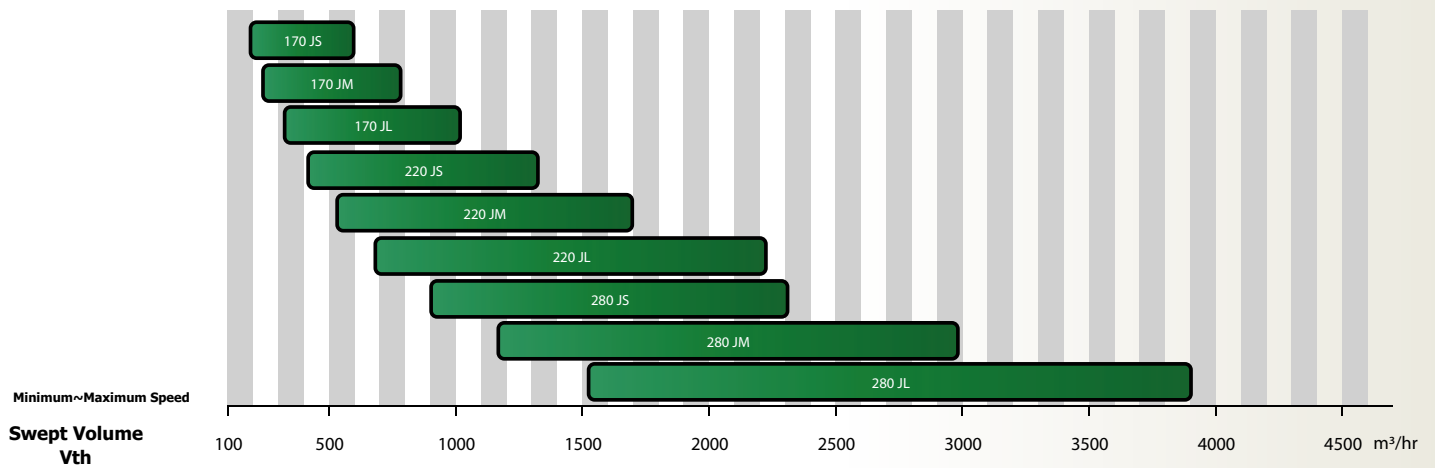
New J profile engineering allows a more proficient meshing between the lobes, which are now 5 and 6 for male and female respectively. The end result is superior performance.

The J-series basically adopts three  $V_i$  values of 2.50, 3.50, and 5.00. The J-series compressors are designed to automatically adjust  $V_i$  according to operating conditions using the controller.

The J-Series is a very efficient screw compressor design compared to others operating at single stage economized operating conditions, or even a conventional two stage arrangement. This makes your plant design simpler, saves space, and is more cost effective.



UNIT TYPE	WEIGHT (kg)	WIDTH (mm)	LENGTH (mm)	HEIGHT (mm)
170JS	3250	1500	2820	2145
170JM	3500	1500	2750	2145
170JL	3600	1500	2690	2145
220JS	6000	1600	4010	2700
220JM	6400	1600	4010	2700
220JL	6600	1600	4010	2700
280JS	10600	2100	5000	3000
280JM	11200	2100	5000	3000
280JL	12000	2100	5000	3000



	170J			220J			280J			
	S	M	L	S	M	L	S	M	L	
Refrigerant	NH3, HFC, CO2 and HC									
Bare compressor weight	kg	685	715	760	1255	1315	1385	2285	2435	2585
Minimum rotation	rpm	1450								
Maximum rotation	rpm	4500						3600		
Displacement @2950rpm	m3/h	390	506	659	856	1113	1447	1886	2450	3190
Design pressure	barG	35								
Maximum suction pressure	barG	10								
Minimum suction pressure	barG	-0,8								
Maximum discharge pressure	barG	32								
Capacity control	S type and M type; 25% to 100% / L type; 30% to 100%									
Step Vi control	Standard; 2.5 to 5.0 / Low Vi model; 2.0 to 3.5									
Minumum suction temperature	°C	-50								
Maximum discharge temperature	°C	100								
Integrated suction check valve	-	o			o			x		
Integrated solenoid valve	-	o			o			x		

# MAYEKAWA

## MYCOM

### WORLDWIDE

- 35 countries / 122 offices
- 8 production plants



## MAYEKAWA

### Europe Organization

#### SWITZERLAND

Rosenbergstrasse 31, 6300 Zug  
 Tel. +41 41 726 8626  
 Fax +41 41 726 8620  
<http://www.mayekawa.ch>  
 E-mail [info@mayekawa.ch](mailto:info@mayekawa.ch)

#### SPAIN

Calle Montevideo 5, Nave 13  
 Pol. Industrial Camporroso  
 28806 Alcala de Henares, Madrid  
 Tel. +34 91 830 0392  
 Fax +34 91 830 0397  
<http://www.mayekawa.es>  
 E-mail [mayekawa@mayekawa.es](mailto:mayekawa@mayekawa.es)

#### GERMANY

##### Munich Office

Untere Bahnhofstrasse 38a, 82110 Germering  
 Tel. +49 89 5527 989 0  
 Fax +49 89 5527 989 19

##### Hamburg Office

Weidestraße 122a, 22083 Hamburg  
 Tel. +49 40 27889149 0  
 Fax +49 40 27889149 9  
 E-mail [info@mayekawa.de](mailto:info@mayekawa.de)

#### FRANCE

##### East Branch Office

9, Rue Michael Faraday  
 78180 Montigny-Le-Bretonneux  
 Tel. +33 1 30 58 26 00  
 Fax +33 1 30 58 19 37

##### West Branch Office

6, Square des Pruniers  
 22400 Lamballe  
 Tel. +33 2 96 76 59 13  
 Fax +33 1 30 58 19 37  
 E-mail [mayekawa.france@mayekawa.eu](mailto:mayekawa.france@mayekawa.eu)

#### UNITED KINGDOM

16 Oakhurst Gardens  
 DA7 5JP Bexleyheath, Kent  
 Tel. +44 1322 433558  
 Fax +44 1322 433164

#### RUSSIA

Office 228, Korovy Val St. 7  
 119049 Moscow  
 Tel. +7 499 230 01 76  
 Fax +7 499 230 21 12  
<http://www.mayekawa.ru>  
 E-mail [info@mayekawa.ru](mailto:info@mayekawa.ru)

#### BULGARIA

Kamen Andreev Str. 24, 1303 Sofia  
 Tel. +359 2 8910130  
 Fax +359 2 8910131

#### DUBAI

P.O.Box 61349, W-HOUSE No.RA-08-UC05  
 Jebel Ali Free Zone Dubai, UAE  
 Tel. +971-4-888-6363  
 Fax +971-4-888-6373

#### INDIA

Mayekawa India PVT. LTD.  
 309, Centrum Plaza, Golf Course Road  
 Sector-53, Gurgaon  
 Haryana  
 Tel. +91 124 4206611 16  
 Fax +91 124 4206618

#### AUSTRALIA

Unit 2,44 McCauley Street  
 NSW 2036 Matraville  
 Tel. +61 2 9695 7000  
 Fax +61 2 9695 7001  
<http://www.mayekawa.com.au>  
 E-mail [mycomaus@mayekawa.com.au](mailto:mycomaus@mayekawa.com.au)

#### NEW ZEALAND

Unit 2, 30 Tui Street Otahuhu  
 Auckland  
 Tel. +68 9 276 2305  
 Fax +68 9 276 2306  
 E-mail [info@mayekawa.co.nz](mailto:info@mayekawa.co.nz)

#### ITALY

Via Riccardo Lombardi 19/12  
 20153 Milano  
 Tel. +39 2 48929218  
 Fax +39 2 4531728

#### TURKEY

Dunya Ticaret Merkezi  
 A/2 Blok Kat:10 No:325 Yesilkoy, Istanbul  
 Tel. +90 212 465 36 31 34  
 Fax +90 212 465 36 35

#### JAPAN HEAD OFFICE

3-14-15 Botan Koto-ku  
 Tokyo 135 8482, JAPAN  
 Tel. 81 3 3642 8181  
 Fax 81 3 3643 7094  
 E-mail [e-public@mayekawa.co.jp](mailto:e-public@mayekawa.co.jp)

#### MAYEKAWA Europe nv/sa

Leuvensesteenweg 605  
 1930 Zaventem - Belgium  
 Tel. +32 2 757 90 75  
 Fax +32 2 757 90 23  
<http://www.mayekawa.eu>  
 E-mail [info@mayekawa.eu](mailto:info@mayekawa.eu)

#### Global web site

<http://www.mayekawa.com/>