



NEW STANDARD SCREW COMPRESSOR

J-Series



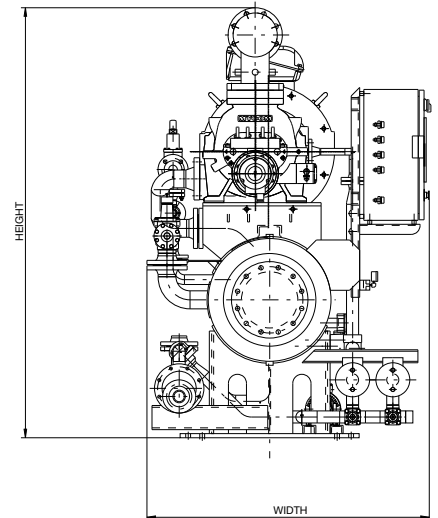
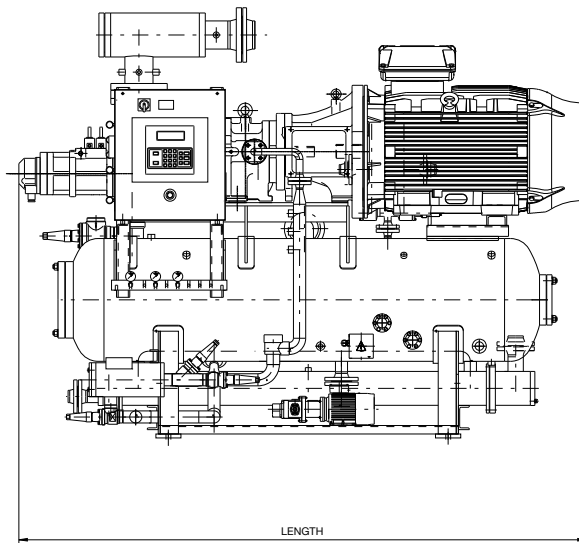
The J-series

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.

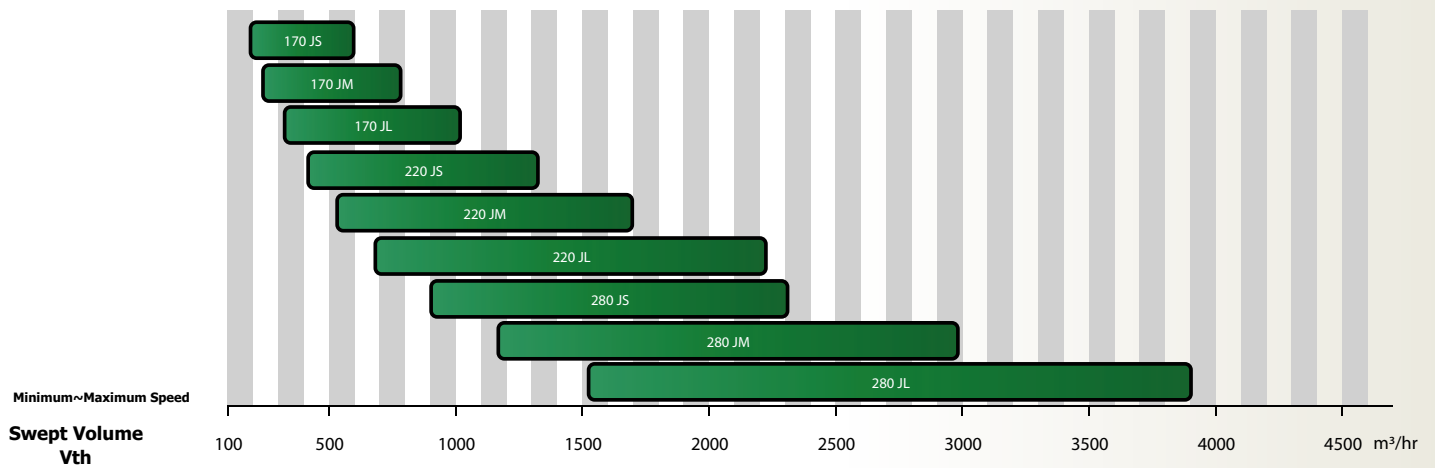
New J profile engineering allows a more proficient meshing between the lobes, which are now 5 and 6 for male and female respectively. The end result is superior performance.

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 | 3650 | 1500 | 2700 | 2130 |
| 170JM | 3700 | 1500 | 2700 | 2130 |
| 170JL | 3800 | 1500 | 2700 | 2130 |
| 220JS | 5900 | 1900 | 4010 | 2550 |
| 220JM | 6000 | 1900 | 4010 | 2550 |
| 220JL | 6200 | 1900 | 4010 | 2550 |
| 280JS | 9600 | 2200 | 4800 | 3600 |
| 280JM | 10200 | 2200 | 4800 | 3600 |
| 280JL | 11000 | 2200 | 4800 | 3600 |



| | | 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

- 40 countries / 127 offices
- 8 production plants



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