

MADE IN ITALY



**POWER
SYSTEM**
AIR COMPRESSORS

Oil-free
Scroll compressors

FLEMING
FIXED SPEED
2.2-22 kW



FLEMING

Oil-free scroll compressors

Building sustainable systems for a more intelligent planet



Premium efficiency IE3 motors

Fully focused on combining maximum reliability with optimum energy efficiency.



Oil-free compressed air

Totally oil-free compressed air is a specific requirement in many production processes.

The oil-free Scroll FLEMING range developed by Power System satisfies all these sectors, with a dynamical range of power and model sizes from 2.2 to 22 kW, at 8 or 10 bar.

Scroll pumps are certified in Class 0, in accordance with ISO8573-1 directives.



Very silent

The FLEMING range is extremely quiet and can be installed in virtually any environment ensuring the comfort and safety of all operators with minimum impact to the surroundings.



Robust design

The FLEMING oil-free scroll compressors are built using the highest quality components throughout. The attention to detail in the build, finishing and testing of the product results in a high performance, high reliability and silent operation.



Multiple scroll pumps

Extremely flexible design, from 2 to 4 pumps for different possible assemblies.

When choose an oil-free scroll compressor:

- Pharmaceutical industry
- Medical Laboratories
- Food and Beverages production
- Chemical industry
- Special Food Treating Equipment (milking robot)
- Laser Equipment processes
- Packaging, PET bottles
- Industrial painting.

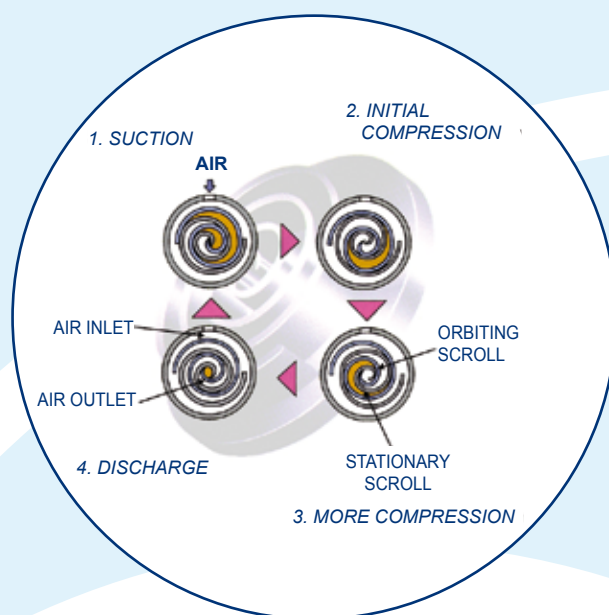


2.2-7.5 kW

- Floor mounted

A flexible design to suit any specific requirement and assurance of operation

| FIELD OF APPLICATION | CLASS | Concentration total oil mg/m ³ |
|---|-------|---|
| As specified by the equipment user or supplier and more stringent than class 1 - ISO8573-1 | 0 | 0.00 |
| Medical, chemical, biotechnologies, food and beverages, pharmaceuticals, electronics, packaging, PET bottles. | 1 | ≤ 0.01 |
| Paper industry, photographic laboratories, colour injectors. | 2 | ≤ 0.1 |
| Control instruments, sand-blasting. | 3 | ≤ 1 |
| Low-performance sand-blasting. | 4 | ≤ 5 |



High quality compressed air

The FLEMING models with air receiver are optionally available with integrated refrigerated dryer ensuring high quality compressed air, allowing operating efficiency and providing improved final product quality, enhancing competitiveness.



Spiral scroll-technology

- Labyrinth Lap for high compressor reliability.
- Alumite treatment.
- Aluminium die casting.
- Oil-free compression chamber for high quality air.
- Oversized roller bearing.
- Air after-cooler for higher efficiency and durability.

Two spirals without any metal-to-metal contact in between, intake air and compress it in 3 successive phases to deliver it at 8 or 10 bar of pressure. The simple process allows a smooth contact-free operation of the scrolls and thus provides a very long service life to all the components and therefore to the complete unit.



2.2-7.5 kW

- Receiver mounted
- Complete with air receiver and refrigerated dryer

FLEMING

Oil-free Multi-scroll compressors

Efficiency + Reliability = Productivity

The highest manufacturing standards are applied to guarantee the maximum performance and reliability. A proven technology developed to compress air in absolute absence of oil.



Extremely easy maintenance

All components subject of regular maintenance are easily and quickly accessible, allowing to minimize maintenance cost.



11-22 kW

- Floor mounted



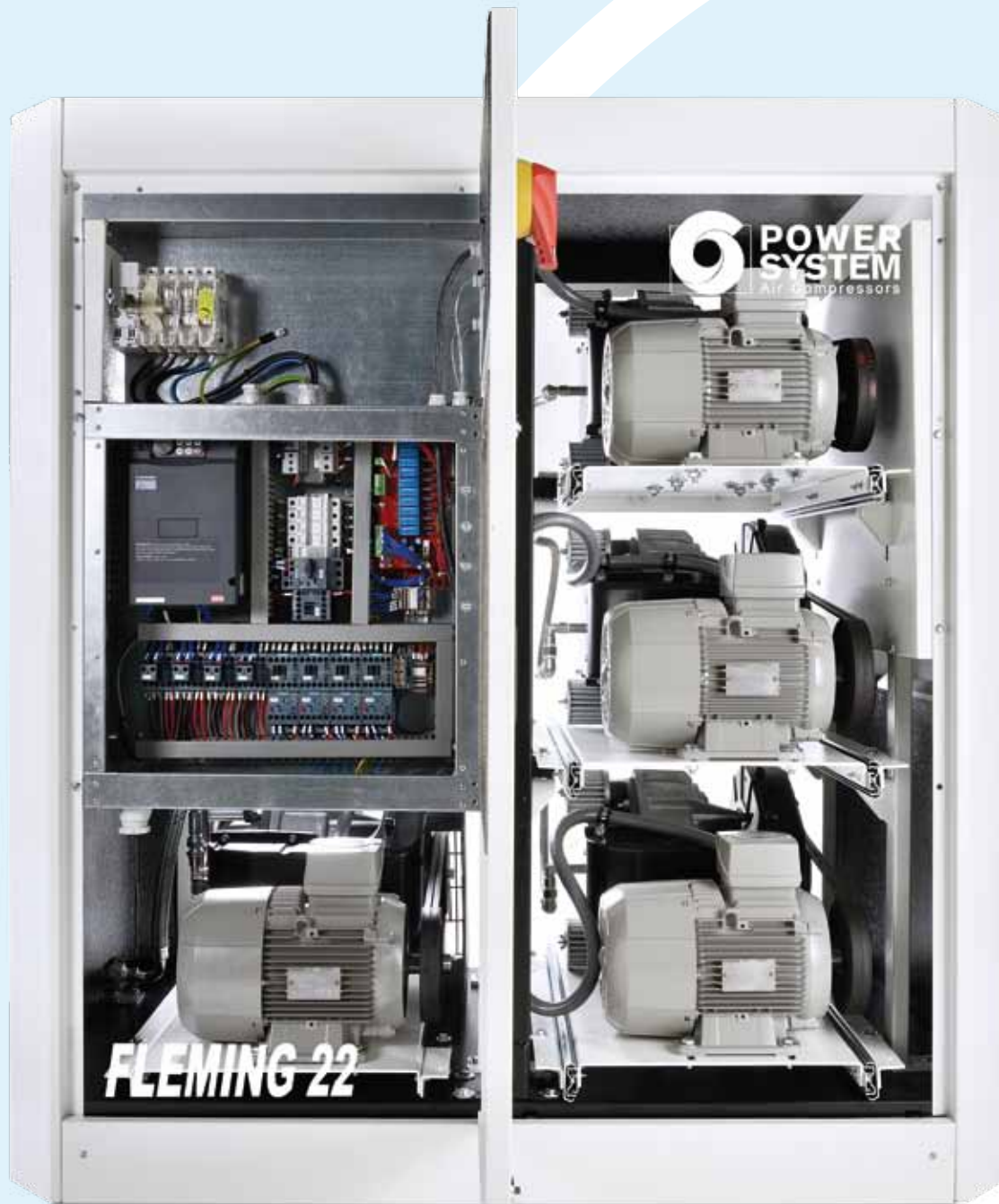
Advanced cooling system

Our over-sized premium quality air-air heat exchanger provide our machines with low operating temperatures even in severe working conditions.

The large coolers coupled with separate thermostatically controlled electro-fans ensures lower compressed air outlet temperatures.

Why choose a Multi-scroll compressor?

- To supply user-friendly OIL-FREE COMPRESSED AIR.
- To reduce installation and maintenance costs (no expensive and complicated compressed air filters networks).
- To increase efficiency in all areas of the compressor operation.
- To save energy and environmental costs.
- To provide the most modern, compact, robust, reliable and durable oil-less rotary compressor.
- To promote industrial processes safeguarding ambient sustainability.



Optimal control and adjustment

The advanced controllers fitted to the FLEMING range have been specifically developed to guarantee optimum monitoring and regulation of the compressors operation, allowing flexibility and full programming of the complete compressed air station for maximum efficiency and safety.

SSC controller

Installed on Single-scroll models from 2.2 to 7.5 kW

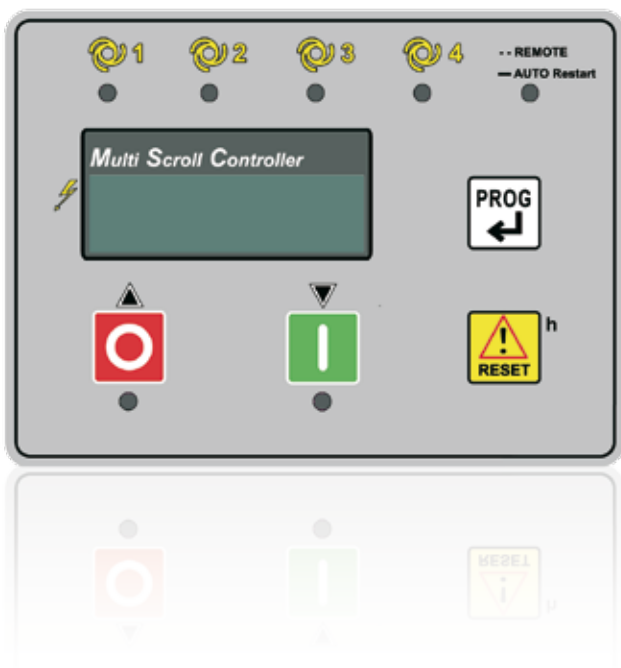
The LCD display indicates the working conditions and includes remote control, auto-restart functions, alarms and routine maintenance information.



MSC controller

Installed on Multi-scroll models from 11 to 22 kW

The alphanumeric LCD display features multi-language menu, controls the operation of Multi Scroll compressors in order to satisfy the air demand automatically starting and stopping the number of compressors needed. Furthermore the MSC controller varies continuously the starting order of the units in order to balance the operating time of each pump. Includes remote control, auto-restart functions, alarms and routine maintenance information.



Technical data

FLEMING 2.2-7.5 kW

| Code | Air receiver | Power | | Air outflow rate | | Max. pressure | | Sound level | Connection | Net weight | | Net dimensions | | Gross weight | | Gross dimensions |
|------|--------------|-------|----|------------------|--------|---------------|--------|-------------|------------|------------|-----|----------------|--|--------------|-----|------------------|
| | ℓ | kW | HP | l/min. | c.f.m. | bar | p.s.i. | dB(A) | Ø | kg | Lbs | LxWxH (cm) | | kg | Lbs | LxWxH (cm) |

SILENCED - SINGLE-SCROLL

FLEMING 2.2

| | | | | | | | | | | | | | | | | |
|-----------------------|---------------|-----|-----|---|-----|-----|----|-----|----|------|-----|-------|--------------|-----|-------|------------|
| FLEMING 2.2-08 | VW0SK72PWS521 | – | 2.2 | 3 | 250 | 8.8 | 8 | 116 | 60 | 3/4" | 125 | 275.6 | 80x57x85 | 139 | 306.4 | 94x77x103 |
| FLEMING 2.2-10 | VW0SA72PWS521 | – | 2.2 | 3 | 210 | 7.4 | 10 | 145 | 60 | 3/4" | 125 | 275.6 | 80x57x85 | 139 | 306.4 | 94x77x103 |
| FLEMING 2.2-08-270 | VW3SK72PWS521 | 270 | 2.2 | 3 | 250 | 8.8 | 8 | 116 | 60 | 3/4" | 190 | 418.8 | 149x57x145.7 | 220 | 485 | 172x75x168 |
| FLEMING 2.2-10-270 | VW3SA72PWS521 | 270 | 2.2 | 3 | 210 | 7.4 | 10 | 145 | 60 | 3/4" | 190 | 418.8 | 149x57x145.7 | 220 | 485 | 172x75x168 |
| FLEMING 2.2-08-270 DF | VW3SK72PWS621 | 270 | 2.2 | 3 | 250 | 8.8 | 8 | 116 | 60 | 3/4" | 225 | 496 | 149x57x145.7 | 255 | 562 | 172x75x168 |
| FLEMING 2.2-10-270 DF | VW3SA72PWS621 | 270 | 2.2 | 3 | 210 | 7.4 | 10 | 145 | 60 | 3/4" | 225 | 496 | 149x57x145.7 | 255 | 562 | 172x75x168 |

FLEMING 3.7

| | | | | | | | | | | | | | | | | |
|-----------------------|---------------|-----|-----|---|-----|------|----|-----|----|------|-----|-----|--------------|-----|-------|------------|
| FLEMING 3.7-08 | VW0SB92PWS521 | – | 3.7 | 5 | 420 | 14.8 | 8 | 116 | 62 | 3/4" | 147 | 324 | 80x57x85 | 161 | 354.8 | 94x77x103 |
| FLEMING 3.7-10 | VW0DZ92PWS521 | – | 3.7 | 5 | 345 | 12.2 | 10 | 145 | 62 | 3/4" | 147 | 324 | 80x57x85 | 161 | 354.8 | 94x77x103 |
| FLEMING 3.7-08-270 | VW3SB92PWS521 | 270 | 3.7 | 5 | 420 | 14.8 | 8 | 116 | 62 | 3/4" | 215 | 474 | 149x57x145.7 | 245 | 540 | 172x75x168 |
| FLEMING 3.7-10-270 | VW3DZ92PWS521 | 270 | 3.7 | 5 | 345 | 12.2 | 10 | 145 | 62 | 3/4" | 215 | 474 | 149x57x145.7 | 245 | 540 | 172x75x168 |
| FLEMING 3.7-08-270 DF | VW3SB92PWS621 | 270 | 3.7 | 5 | 420 | 14.8 | 8 | 116 | 62 | 3/4" | 250 | 551 | 149x57x145.7 | 280 | 617.1 | 172x75x168 |
| FLEMING 3.7-10-270 DF | VW3DZ92PWS621 | 270 | 3.7 | 5 | 345 | 12.2 | 10 | 145 | 62 | 3/4" | 250 | 551 | 149x57x145.7 | 280 | 617.1 | 172x75x168 |

FLEMING 5.5

| | | | | | | | | | | | | | | | | |
|-----------------------|---------------|-----|-----|-----|-----|------|----|-----|----|------|-----|-------|------------|-----|-------|------------|
| FLEMING 5.5-08 | VW0SD92PWS521 | – | 5.5 | 7.5 | 620 | 21.9 | 8 | 116 | 68 | 3/4" | 212 | 467.2 | 90x65x85 | 226 | 498.1 | 94x77x103 |
| FLEMING 5.5-10 | VW0SX92PWS521 | – | 5.5 | 7.5 | 460 | 16.2 | 10 | 145 | 68 | 3/4" | 212 | 467.2 | 90x65x85 | 226 | 498.1 | 94x77x103 |
| FLEMING 5.5-08-270 | VW3SD92PWS521 | 270 | 5.5 | 7.5 | 620 | 21.9 | 8 | 116 | 68 | 3/4" | 275 | 606.1 | 149x65x142 | 305 | 672.2 | 172x75x168 |
| FLEMING 5.5-10-270 | VW3SX92PWS521 | 270 | 5.5 | 7.5 | 460 | 16.2 | 10 | 145 | 68 | 3/4" | 275 | 606.1 | 149x65x142 | 305 | 672.2 | 172x75x168 |
| FLEMING 5.5-08-270 DF | VW3SD92PWS621 | 270 | 5.5 | 7.5 | 620 | 21.9 | 8 | 116 | 68 | 3/4" | 310 | 683.2 | 149x65x142 | 340 | 749.4 | 172x75x168 |
| FLEMING 5.5-10-270 DF | VW3SX92PWS621 | 270 | 5.5 | 7.5 | 460 | 16.2 | 10 | 145 | 68 | 3/4" | 310 | 683.2 | 149x65x142 | 340 | 749.4 | 172x75x168 |

FLEMING 7.5

| | | | | | | | | | | | | | | | | |
|-----------------------|---------------|-----|-----|----|-----|------|----|-----|----|------|-----|-------|------------|-----|-------|------------|
| FLEMING 7.5-08 | VW0SE92PWS521 | – | 7.5 | 10 | 830 | 29.3 | 8 | 116 | 67 | 3/4" | 222 | 489.3 | 90x65x85 | 236 | 520.1 | 94x77x103 |
| FLEMING 7.5-10 | VW0YB92PWS521 | – | 7.5 | 10 | 650 | 22.9 | 10 | 145 | 67 | 3/4" | 222 | 489.3 | 90x65x85 | 236 | 520.1 | 94x77x103 |
| FLEMING 7.5-08-270 | VW3SE92PWS521 | 270 | 7.5 | 10 | 830 | 29.3 | 8 | 116 | 67 | 3/4" | 290 | 639.2 | 149x65x142 | 320 | 705.3 | 172x75x168 |
| FLEMING 7.5-10-270 | VW3YB92PWS521 | 270 | 7.5 | 10 | 650 | 22.9 | 10 | 145 | 67 | 3/4" | 290 | 639.2 | 149x65x142 | 320 | 705.3 | 172x75x168 |
| FLEMING 7.5-08-270 DF | VW3SE92PWS621 | 270 | 7.5 | 10 | 830 | 29.3 | 8 | 116 | 67 | 3/4" | 325 | 716.3 | 149x65x142 | 355 | 782.4 | 172x75x168 |
| FLEMING 7.5-10-270 DF | VW3YB92PWS621 | 270 | 7.5 | 10 | 650 | 22.9 | 10 | 145 | 67 | 3/4" | 325 | 716.3 | 149x65x142 | 355 | 782.4 | 172x75x168 |

FLEMING 11-22 kW

| Code | Air receiver | Power | | Air outflow rate (max. / min.) | | Max. pressure | | Sound level | Connection | Net weight | | Net dimensions | | Gross weight | | Gross dimensions |
|------|--------------|-------|----|--------------------------------|--------|---------------|--------|-------------|------------|------------|-----|----------------|--|--------------|-----|------------------|
| | ℓ | kW | HP | l/min. | c.f.m. | bar | p.s.i. | dB(A) | Ø | kg | Lbs | LxWxH (cm) | | kg | Lbs | LxWxH (cm) |

SILENCED - MULTI-SCROLL

FLEMING 11 - 2 SCROLL UNITS

| | | | | | | | | | | | | | | | | |
|---------------|---------------|---|-------|-------|----------|-----------|----|-----|----|----|-----|-------|----------------|-----|-------|------------|
| FLEMING 11-08 | VW0SF92PWS021 | – | 2x5.5 | 2x7.5 | 1260/630 | 44.5/22.5 | 8 | 116 | 67 | 1" | 275 | 606.1 | 116x59.7x103.4 | 297 | 654.6 | 129x77x128 |
| FLEMING 11-10 | VW0YA92PWS021 | – | 2x5.5 | 2x7.5 | 1040/520 | 36.7/18.5 | 10 | 145 | 67 | 1" | 275 | 606.1 | 116x59.7x103.4 | 297 | 654.6 | 129x77x128 |

FLEMING 15 - 3 SCROLL UNITS

| | | | | | | | | | | | | | | | | |
|---------------|---------------|---|-------|-------|----------|-----------|----|-----|----|----|-----|--------|------------|-----|--------|-------------|
| FLEMING 15-08 | VW0SC92PWS021 | – | 3x5.5 | 3x7.5 | 1890/630 | 66.7/22.5 | 8 | 116 | 67 | 1" | 493 | 1086.6 | 141x80x150 | 558 | 1229.8 | 173x103x165 |
| FLEMING 15-10 | VW0SO92PWS021 | – | 3x5.5 | 3x7.5 | 1560/520 | 55.1/18.5 | 10 | 145 | 67 | 1" | 493 | 1086.6 | 141x80x150 | 558 | 1229.8 | 173x103x165 |

FLEMING 22 - 4 SCROLL UNITS

| | | | | | | | | | | | | | | | | |
|---------------|---------------|---|-------|-------|----------|-----------|----|-----|----|----|-----|--------|------------|-----|--------|-------------|
| FLEMING 22-08 | VW0SI92PWS021 | – | 4x5.5 | 4x7.5 | 2520/630 | 88.9/22.5 | 8 | 116 | 69 | 1" | 580 | 1278.3 | 141x80x150 | 645 | 1421.6 | 173x103x165 |
| FLEMING 22-10 | VW0YC92PWS021 | – | 4x5.5 | 4x7.5 | 2080/520 | 73.4/18.5 | 10 | 145 | 69 | 1" | 580 | 1278.3 | 141x80x150 | 645 | 1421.6 | 173x103x165 |

- Models from 5.5 to 7.5 kW: 500-lt air receiver available on demand.

- DF = With refrigerated dryer.

Reference conditions: Intake air temperature 20°C (68°F) - atmospheric pressure 1 bar (14.5 psig).

The air flow rates are measured at the following working pressures: 7.5 bar for models at 8 bar - 9.5 bar for models at 10 bar.

The data and performances in accordance with ISO 1217 directives. Sound level measured in accordance with PNEUROP/CAGI standards.



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The science of compressed air.

