

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 <sup>3</sup>
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

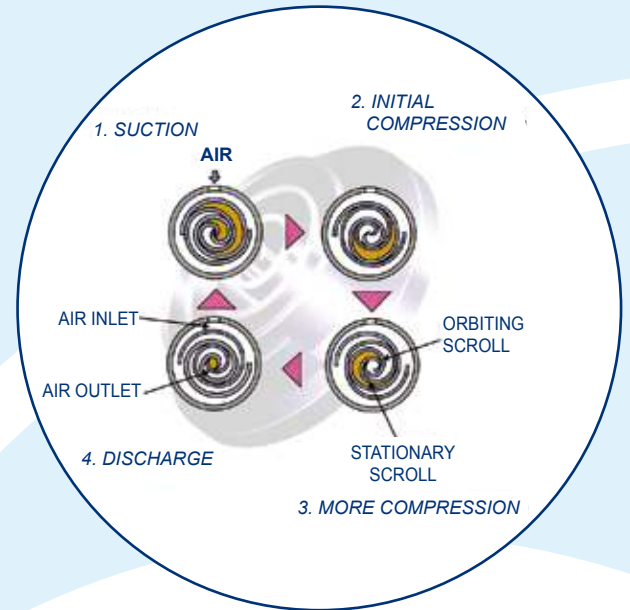
## High quality compressed air

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.



### 2.2-7.5 kW

- Receiver mounted
- Complete with air receiver and refrigerated dryer



## 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.



# 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.



**11-22 kW**

- Floor mounted

### Extremely easy maintenance

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



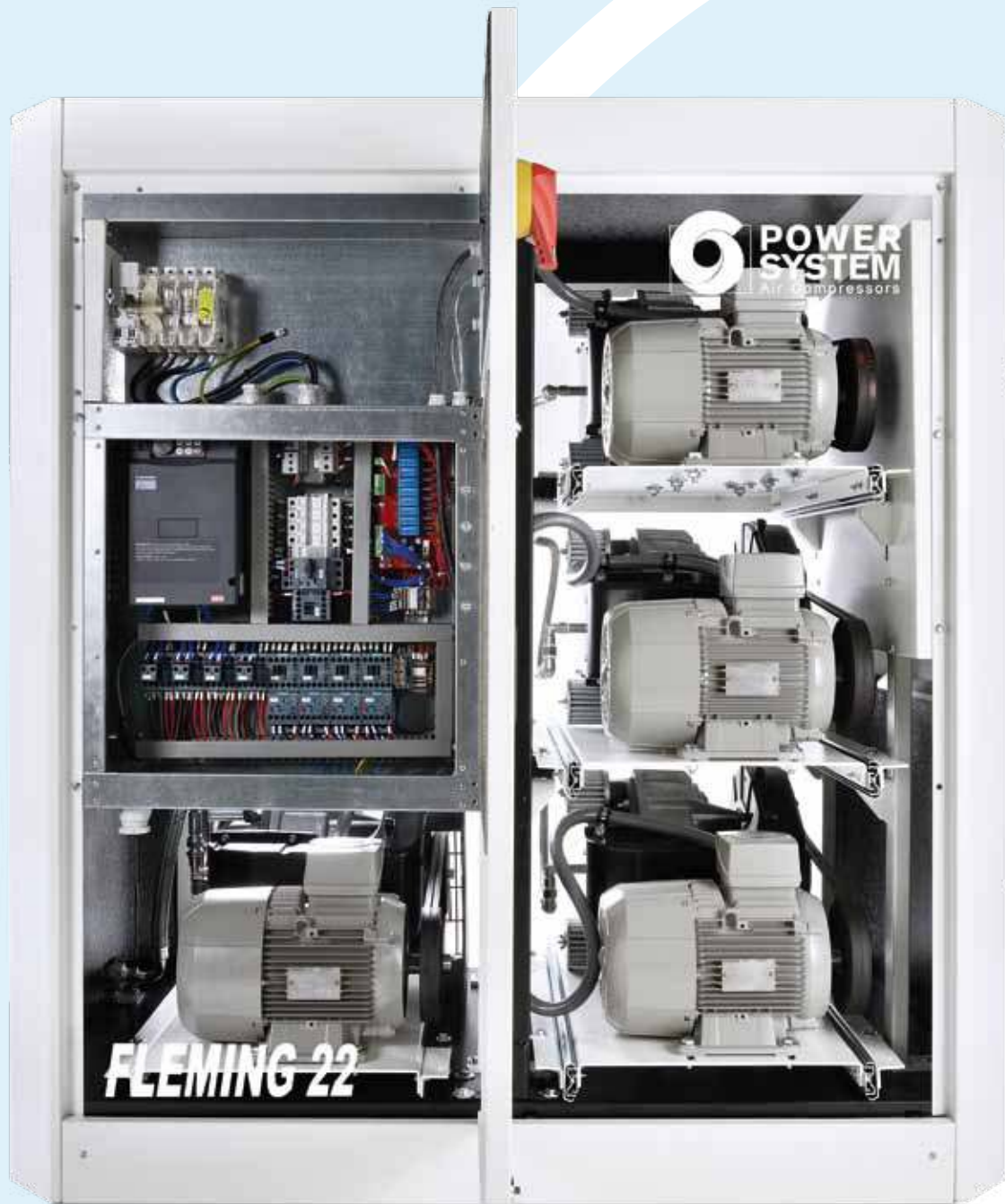
### Advanced cooling system

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.

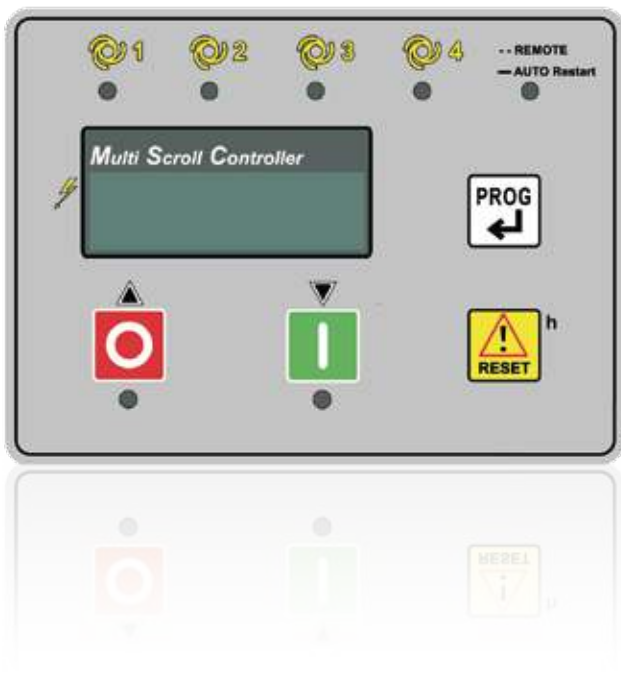


# Optimal control and adjustment

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	Connec- tion	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	Connec- tion	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.**

