

# KM A R K



ROTARY SCREW COMPRESSOR  
RME 55 - 75 - 90 kW

T E C H N O L O G Y   Y O U   C A N   T R U S T

# The RME Coaxial Rotary Compressor

**MODERN** in design

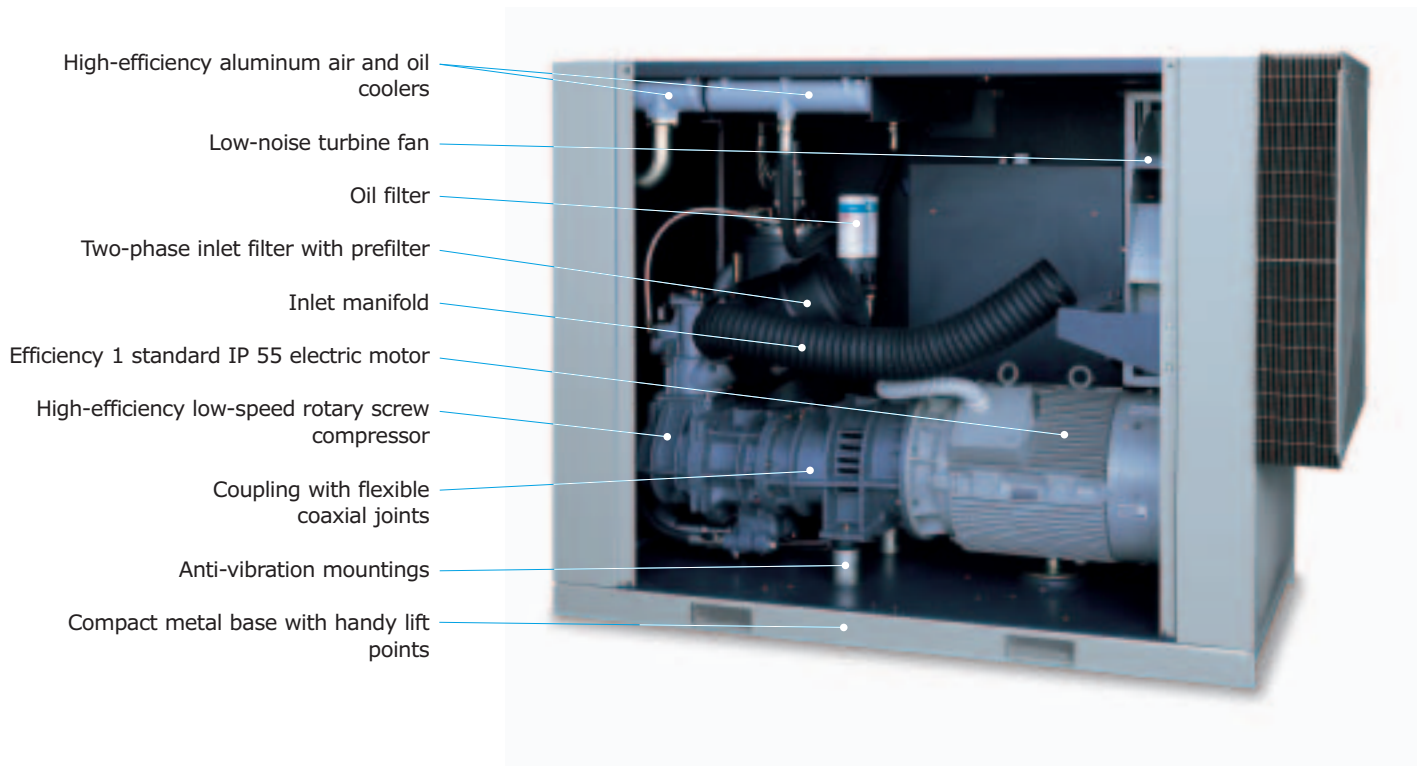
**INNOVATIVE** and versatile

**RELIABLE** performance

These are the results of decades of experience in designing and constructing compressors



- Soundproof canopy
- Minimum valve
- Airlogic memory card
- Thermostatic valve
- Oil reservoir
- Large electric panel
- High-quality flexible tubing



- High-efficiency aluminum air and oil coolers
- Low-noise turbine fan
- Oil filter
- Two-phase inlet filter with prefilter
- Inlet manifold
- Efficiency 1 standard IP 55 electric motor
- High-efficiency low-speed rotary screw compressor
- Coupling with flexible coaxial joints
- Anti-vibration mountings
- Compact metal base with handy lift points

# RME Efficient and Effective

## Air end

The new generation air end has two asymmetrical profile rotors of equal diameter mounted on superior quality long life bearings from our own factories.

Low rotation speed minimizes noise by reducing vibrations, and increases the unit's life by reducing mechanical stress on all moving parts.

## Electric Motor

High performance Eff. 1 standard IP55 model positioned near air inlet to ensure maximum ventilation under all operating conditions.



## Coupling

Coaxial model makes the motor driven compressor unit more reliable, more efficient, more compact and less noisy.

Flexible coupling transmits torque and absorbs any torque stress that may occur during start up and shut-down.

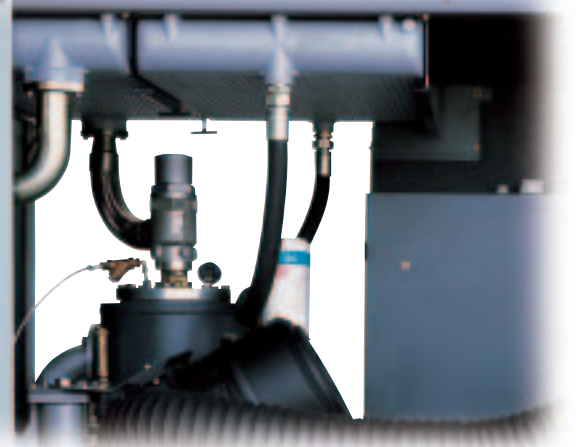
Special bell protects coupling, ensures correct alignment and accommodates any shaft misalignment.

## Cooling system

Combined aluminum air-oil cooler has large surface area for heat transfer and effectively cools air and oil.

Easily accessible for all maintenance operations. Special mountings facilitate assembly and dismantling.

Horizontal cooler position improves unit's balance and facilitates oil changes.



# RME Efficient and Effective



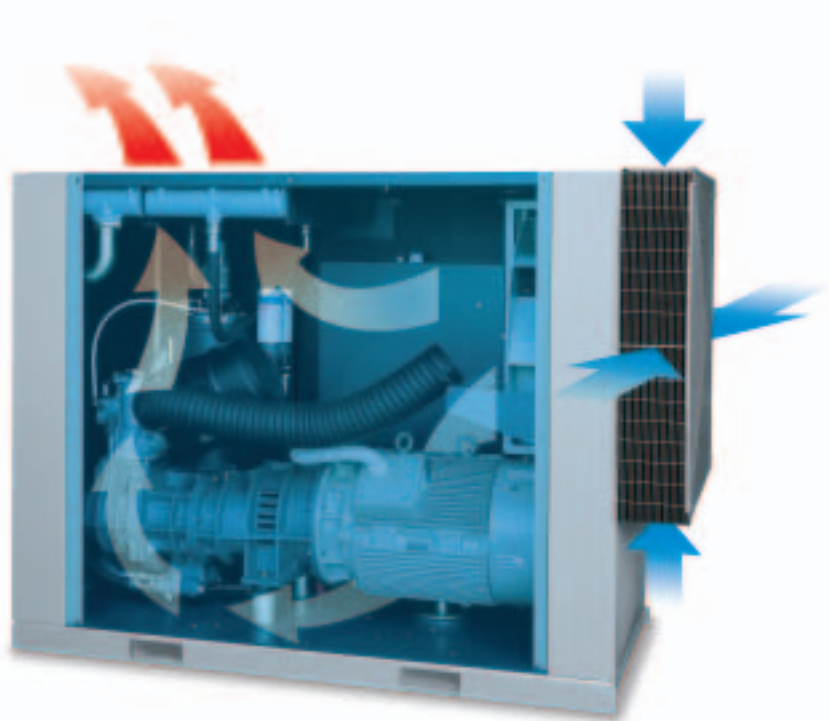
## Ventilation

Prefilter with panel filter specially designed to provide maximum protection of internal working parts by filtering all incoming air.

6 pole motor driven fan and low noise, high capacity, high performance turbine fan.

Air flow spreads over surfaces of all internal working parts, cooling them and protecting them against hot spots.

Cooling air is channeled to a single outlet, allowing recovery of over 90% of the heat by simply recycling the cooling air. This heat would otherwise be wasted.



## ...environmentally friendly

### Silent operation - only 65 - 67 dB(A)

High noise levels mean that compressors must be installed in isolated locations. The RME can be installed close to workplaces.

- Intake filter silencer,
- compressor with low operating speed,
- careful monitoring of cooling air flow and function of internal ventilation openings,
- highly efficient soundproofed canopy.

All these factors ensure that noise levels are low enough for the unit to be installed in the workplace.

As a result, you can save:

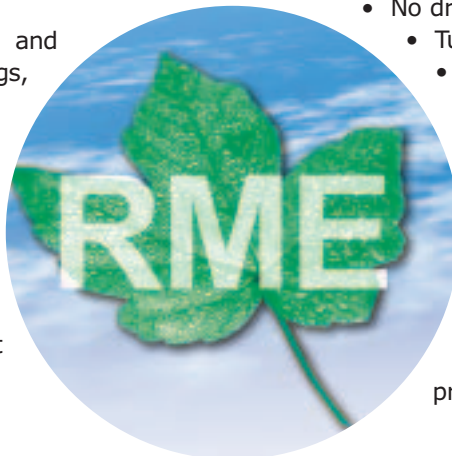
- both on the compressor itself,
- and on the extra tubing needed to transport compressed air to the applications.

### Ecological

All energy waste causes harmful environmental impact. The RME eliminates this problem.

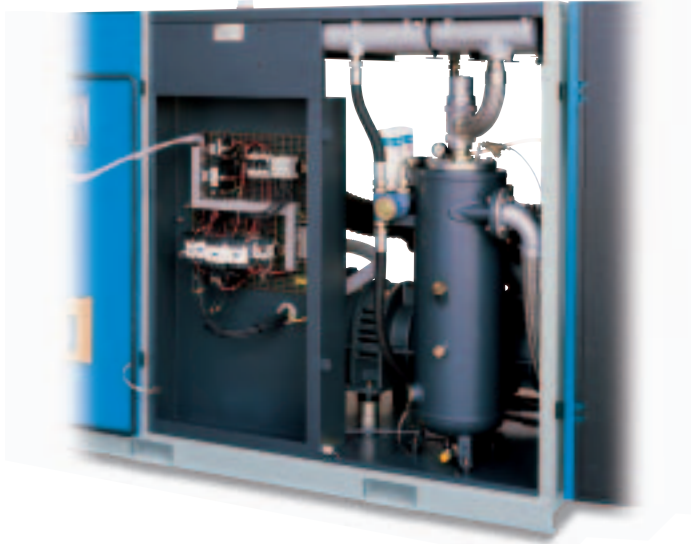
- High-efficiency pump
- High-performance electric motor
  - No drive belts
  - Turbine fan
- Airlogic control monitors operation and automatically limits idling periods
- Multicontrol operation (optional) adapts compressor capacity to work cycles
- Inverter (optional) adapts compressor capacity to quantity of air required by the applications

The result: a compressor with low energy consumption and low-cost compressed air production.

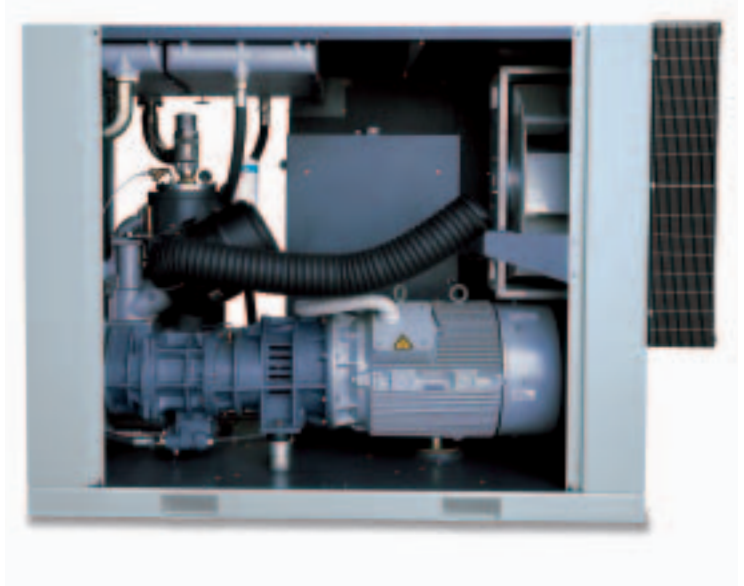


# RME Simple in terms of .....

## Maintenance



The RME compressor is designed to facilitate routine checks as well as routine and extraordinary maintenance.



- Wide doors that open 180°,
  - easily removable panels,
  - easy access to all working parts,
  - completely free sides,
  - scheduled maintenance,
  - no special tools required,
- all this facilitates all routine and extraordinary maintenance operations.

## Installation

- The unit is compact, with only 2.38 m<sup>2</sup> of surface area per 125 HP of power,
- the inlet manifold is specially designed so the compressor can be installed against the wall,
- the unit is easy to move, facilitating repositioning and installation.



## Regulation

AIRLOGIC is an innovative but simple and effective system that allows you to:

- manage all phases, for instance start-up, operation, shut-off and control.
- schedule maintenance operations.

Navigate easily through the program and view messages for all operating conditions displayed on the 4 line, 16 characters per line, LCD.

All displayed messages are clear, simple and easy to understand. No shortcut codes.

The program is password protected to block unauthorized access.

# Regulation

## Airlogic Control



### FUNCTIONS:

- Configures the operating system
- Weekly program with two load types
- Access by password
- Automatic restart
- Remote control
- Breakdown report with record of last 10 cases
- Percentage calculation of operating periods
- Multiple control
- Scheduled maintenance

### CONTROLS:

- Input and output signals
- Delivery pressure
- Delta pressure in the air/oil separator

### PREVENTS:

- Inverse rotation
- Start-up at low temperatures
- Start-up below minimum pressure levels
- Automatic start-up after long periods of inactivity
- Overpressure in the air/oil separator

### PROTECTS:

- Motor by restricting the number of start-ups
- Compressor against excessively high oil temperature

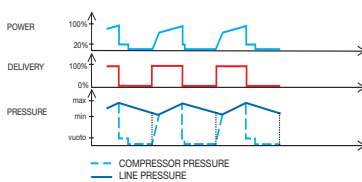
## Multicontrol (optional)

Multicontrol is a simple, reliable and flexible way to regulate the RME compressor series.

Controls air capacity, idling times and motor restarts, maximizing work cycles and preventing costly and inconvenient waste of energy.

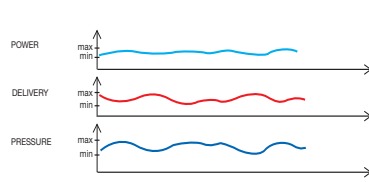


### F4 INTELLIGENT ON/OFF



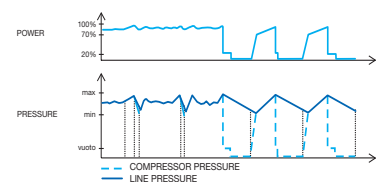
Suitable for medium-low air consumption with long idling periods.  
Cuts energy consumption by reducing idling periods.

### F5 MODULATION



Suitable for near-maximum capacity air consumption with brief idling times.  
Compressor capacity is adapted to network requirements to minimize idling periods.

### F6 AUTOMATIC



Suitable for variable consumption.  
Regulation adapts automatically to F4 and/or F5 systems according to consumption type.

# RME for QUALITY

## Simple design



- Complete access to all working parts for easy maintenance
- Radial-flow air inlet facilitates installation
- Turbine fan keeps unit cool

## Air end performance



- New design
- High efficiency under all working conditions
- Low number of rotations
- Low noise levels
- Greater reliability

## High-performance electric motor



- Cast-iron case
- Class F
- IP55 Protection
- Efficiency
- Low temperatures
- High quality

## Airlogic a new generation of "Controller"



- Simpler
- More Complete
- More Interactive
- Multifunctional
- Multilingual

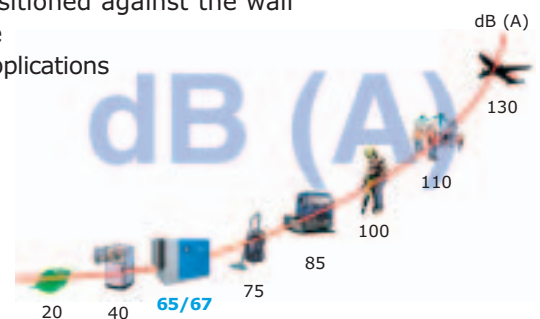
## more Versatile

- Radial intake minimizes installation space, so unit can be positioned against the wall
- Low noise level means unit can be installed in the workplace
- Wide range of options means the unit can be used with more applications







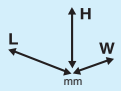

## Better performance

Our long experience guarantees:

- High Reliability
- High Performance
- Low Specific Power
- Low Noise Levels



**TECHNICAL DATA** (ACCORDING TO ISO 1217 AND CAGI PNEUROP PN8NTC2)

Type														
	bar	psi	HP	kW	m <sup>3</sup> /1'	m <sup>3</sup> /h	cfm	dB (A)	V/Hz/Ph	gas	L	W	H	Kg
<b>RME 55/7,5</b>	7,5	107	75	55	10,620	637	375	65	400/50/3	2"	2160	1100	1600	1430
<b>RME 55/8</b>	8	116	75	55	10,180	611	359	65	400/50/3	2"	2160	1100	1600	1430
<b>RME 55/10</b>	10	145	75	55	8,850	531	313	65	400/50/3	2"	2160	1100	1600	1430
<b>RME 55/13</b>	13	188	75	55	7,150	429	252	65	400/50/3	2"	2160	1100	1600	1430
<b>RME 75/7,5</b>	7,5	107	100	75	14,700	882	519	66	400/50/3	2"	2160	1100	1600	1510
<b>RME 75/8</b>	8	116	100	75	13,880	833	490	66	400/50/3	2"	2160	1100	1600	1510
<b>RME 75/10</b>	10	145	100	75	12,370	742	437	66	400/50/3	2"	2160	1100	1600	1510
<b>RME 75/13</b>	13	188	100	75	10,480	629	370	66	400/50/3	2"	2160	1100	1600	1510
<b>RME 90/7,5</b>	7,5	107	125	90	16,080	965	568	67	400/50/3	2"	2160	1100	1600	1600
<b>RME 90/8</b>	8	116	125	90	16,030	962	566	67	400/50/3	2"	2160	1100	1600	1600
<b>RME 90/10</b>	10	145	125	90	13,880	833	490	67	400/50/3	2"	2160	1100	1600	1600
<b>RME 90/13</b>	13	188	125	90	11,860	712	419	67	400/50/3	2"	2160	1100	1600	1600

The RME compressor is a versatile unit that meets all working requirements thanks to a wide range of options:

- Intake filter for dusty environments
- Energy recovery kit
- Water cooling
- INVERTER regulation
- MULTICONTROL regulation
- Oil heater
- Condensate separator
- Reservoir complies with EU Directives



We have a policy of ongoing product improvement. We reserve the right to change specifications and product design without prior notice.



According to

