



M Series  
Piston Compressors



Intelligent Air Technology

## Standard Features

Direct Motor Drive

Single or Two Stage Compression

Oil Lubricated or Oil Free

High Efficiency Cooling

High Performance Valves

High Grade Pistons and Rings

Needle Bearings

Large Oil Sump  
(Lubricated Only)



## Options

Acoustic Enclosure

Service Hours Counter

Electronic Condensate Drain

High Efficiency Intake Filter

Flexible Mounting Kit



## Typical Applications

Wood Working Industry

Plastics Industry

Textile Industry

Water Industry

Paper Industry

Food Industry

Healthcare

Dentistry

Printing

Medical

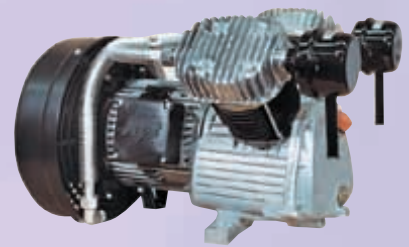
Spraying

Packaging

Workshops

Environmental Engineering

Transport and Communications





## M Series Piston Compressors

A well established range of direct driven oil lubricated and oil free piston compressors, incorporating the very latest materials and technologies, for the most arduous of applications. The M Series are designed to withstand continuous use in heavy-duty industrial environments.

CompAir has been at the forefront of design and manufacture of piston compressors for well over 100 years. Our experience and expertise ensures that the latest M Series compressors deliver high performance and extended reliability, delighting our customers.

M Series compressors are available with a range of different outputs and package combinations to suit the most exacting of customer requirements. Oil lubricated units are available in two pressure options up to 10 bar g and 15 bar g respectively, with flows of 1287 l/min. Oil free units deliver air up to 10 bar g and flows of 568 l/min.

### The Design Concept

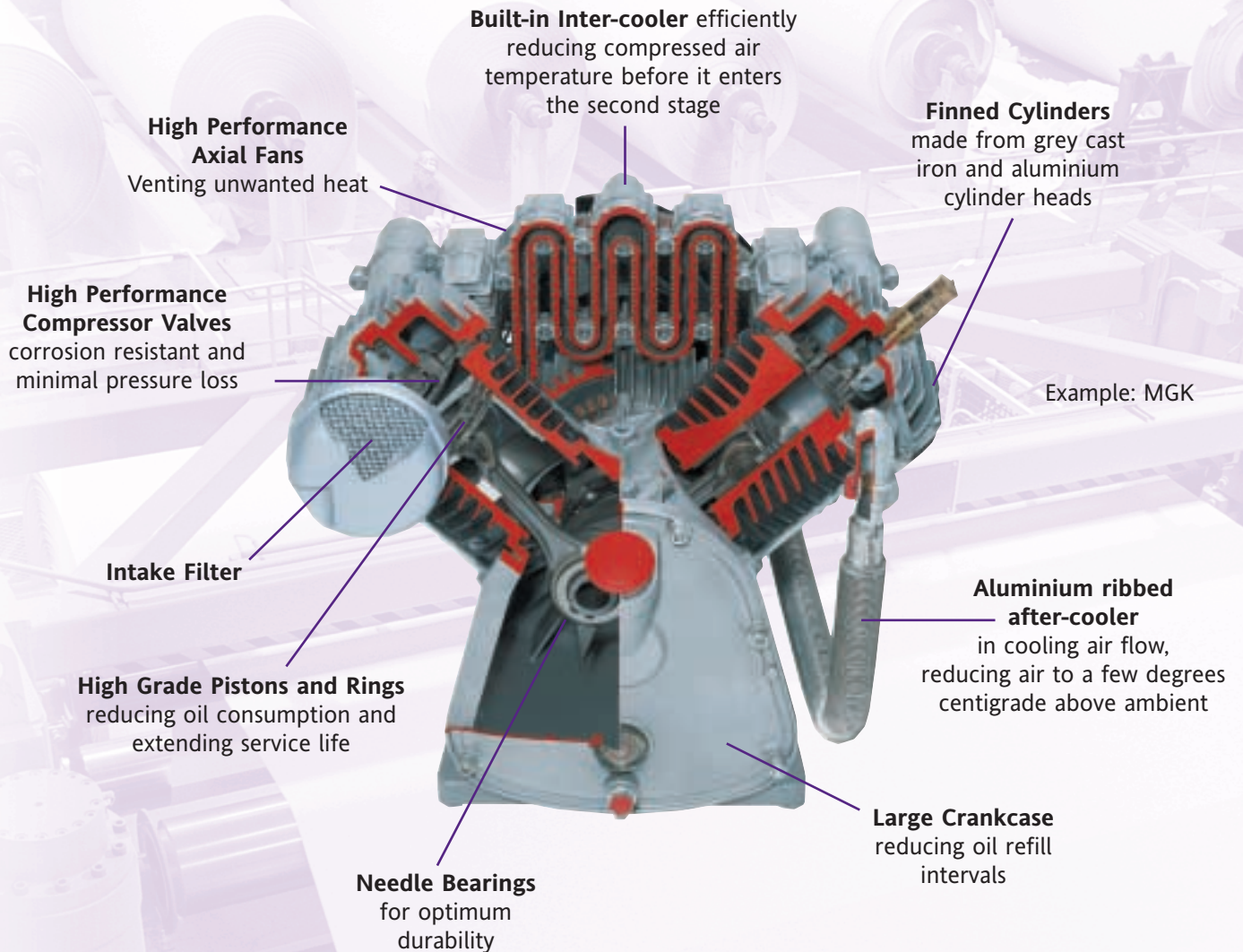
Piston compressor systems are amongst the most efficient compression system designs to date and exceedingly reliable. By their very nature of design piston compressors are the best solution in a diverse range of applications. CompAir's M Series takes the piston compressor to new limits, not just through our design and manufacturing excellence, but through offering a wide range of standard packages with customer specific options.

The range of standard packages include: oil lubricated or oil free units; bare compressors for OEM applications; free standing base-frame units; integrated packages with vertical or horizontal receivers, dual compressor systems, enclosures for soundproofing.

In today's environmentally conscious world, where efficiency and waste product disposal are a paramount requirement, the M range delivers excellence.



# Component Overview



## An Inspired Product

Engineered for excellence the features above highlight how we strive to improve efficiency through designs that deliver long life, low maintenance and cool dry air that will maximise the life of downstream components.

## Oil Free

Our oil free models are primarily sold into applications where residual oil is not permitted in the compressed air. To meet the requirements of a robust oil free machine, our models include the following special features:

- Compression rings and piston guides made from carbon filled PTFE
- Aluminium alloy pistons with wear resistant coatings
- Frictionless, corrosion resistant valves
- Maintenance free bearings with synthetic high temperature grease
- On compressor packages; galvanised receivers and corrosion resistant fixtures

## Packages to suit

### Bare Compressor Units

For integrated installation on OEM plant and machinery

### Base Frame Units

Typically for feeding into existing systems and free standing receivers

### Compressed Air Units

'Ready to Go' integrated compressor packages. Compressors are mounted on vertical or horizontal receivers as part of a full system; fully automatic operation, non-return valve, pressure gauge, safety valve, condensate drain and stop valve.

Tandem mounted compressors on a single receiver are available for applications requiring large fluctuations in demand.

## Technical Specifications

### Lubricated

MKK piston compressors – single stage, single-cylinder, 10 bar

Model*	Intake Quantity l/min	Effective delivery** l/min	Max. working pressure bar	Motor kW
MKK-125 D/W	125	72	10	0.75
MKK-236 D/W	230	135	10	1.1
MKK-301 D	300	185	10	1.5

MEK piston compressors – single stage, two-cylinder, 10 bar

Model	Intake Quantity l/min	Effective delivery** l/min	Max. working pressure bar	Motor kW
MEK-461	460	302	10	2.2
MEK-601	600	410	10	3.0

MGK piston compressors – two stage, two-cylinder  
Version N 10 bar, version H 15 bar

Model	Intake Quantity l/min	Effective delivery** l/min		Max. working pressure bar	Motor kW
		version N	version H		
MGK-271	270	210	196	10/15	1.5
MGK-421	420	335	280	10/15	2.2
MGK-551	545	446	389	10/15	3.0
MGK-751	740	594	510	10/15	4.0
MGK-1001	950	760	665	10/15	5.5
MGK-1301	1280	1050	906	10/15	7.5
MGK-1601	1580	1287	1160	10/15	10.0 (N)/11.0 (H)

### Oil-free

MKK-0 piston compressors – single stage, single-cylinder, 7 bar

Model*	Intake Quantity l/min	Effective delivery** l/min	Max. working pressure bar	Motor kW
MKK-0-100 D/W	110	60	7	0.75
MKK-0-236 D/W	230	144	7	1.1

MGK-0 piston compressors – Two stage, two-cylinder, 10 bar

Model	Intake Quantity l/min	Effective delivery** l/min	Max. working pressure bar	Motor kW
MGK-0-271	270	205	10	1.5
MGK-0-421	420	322	10	2.2
MGK-0-551	545	441	10	3.0
MGK-0-751	740	568	10	4.0

\* Option D = three-phase, W = single phase

\*\* Effective delivery in accordance with VDMA 4362

at 6 bar for MKK-0, at 8 bar for MKK, MGK-N, MGK-0  
at 7 bar for MEK, at 12 bar for MGK-H

# Intelligent Air Technology

Compressed air solutions for every application

## Compressors

0.1 - 43m<sup>3</sup>/min  
0.75 - 260kW

## Lubricated

Rotary Vane

Single Stage Screw

Speed Regulated Screw

Piston

Portable

## Oil-Free

Two Stage Screw

Water-Sealed Screw

Piston

Portable

## Complete Accessories Programme

Filters and Dryers

Cooling Systems

Heat Recovery

Condensate Management

Air Receivers

Multi-Set Controllers

Lubricants

## Value Added Services

Air Audit

Performance Reporting

Utility Air

Performance Contracting

## Complete Service for Compressed Air Technology

Engineering of Complete Compressor Stations

Local Service Centres

Guaranteed Parts Availability



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CompAir policy is one of continuous improvement and we therefore reserve the right to alter specifications and prices without prior notice. All products are sold subject to the Company's conditions of sale.

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