

MARK

UNPARALLELED EXPERTISE:



Availability: High performance compressor ensures compressed air availability at all times.



Serviceability: The best after-sales support to keep your business up and running. Easy access to internal machine parts due to user-friendly design with front-facing opening.



Reliability: Quality electrical components, expertise in manufacturing and a worldwide reputation of 49 years make us the most reliable choice.



Simplicity: Simple with compact base-mounted design that doesn't require a special foundation. Easy installation and a simple controller make Mark a plug & play solution, extremely easy to use.



Partnership: Strong dealer network within your vicinity.



Quality: World-renowned screw element + refrigerant compressor and industry-proven motors give you lasting performance. ISO 9001 & ISO 14001 certifications and OHSAS 18001 quality assurance.

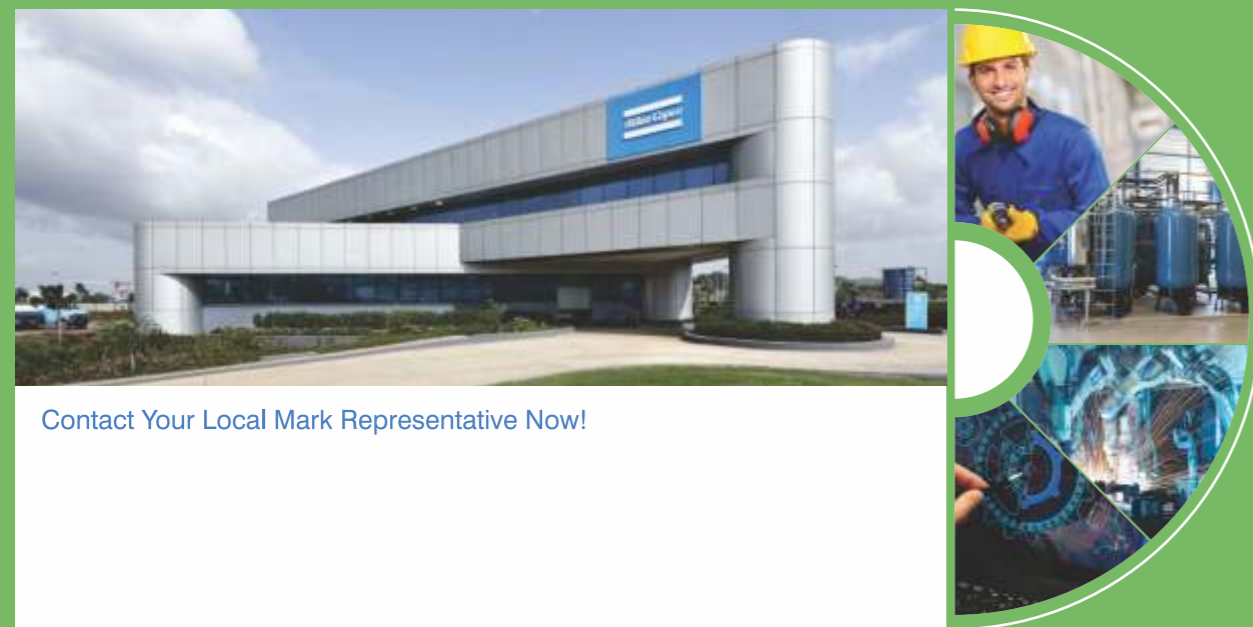


Safety: Multiple alarms and fault shut down functions keep your operators and workplace safe from accidents.



More savings: Compact design and smart components engineered for more energy savings.

MARK



Contact Your Local Mark Representative Now!

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MSS
Oil-Injected Screw
Air Compressor

MDS
Refrigerated
Compressed
Air Dryer

MARK MSS OIL INJECTED SCREW AIR COMPRESSORS.



49
YEARS

Established in 1970 in Brendola, Italy, Mark began operations in manufacturing and selling piston compressors to the international market. The success of the export business paved the way for rapid development and expansion. By 1988, Mark had over 10,000 screw compressors in operation within Europe and 10,000 more worldwide.

Today, Mark has a global customer base, with local customer centres around the world. Mark air compressors are tailored to the needs of various industries and assembly production. With a flourishing dealer network, you are never too far away from a Mark service centre.

OIL-INJECTED SCREW COMPRESSORS:

Mark's oil-injected screw compressors are ideal for various industries and assembly production. Our compressors have a capacity starting from 4.5kW. With a simple LCD display control system, user-friendly design, top-of-the-line quality and durability, we guarantee lasting performance.

SMART TECHNICAL ADVANTAGES



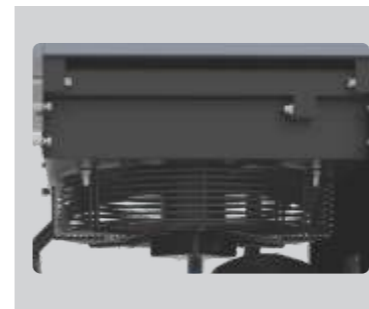
Asymmetric profile rotors mounted on high quality ball and roller bearings

High degree of sealing and fine tolerance guarantees

- Greater yield
- Long life & reliability
- High efficiency
- Lasting performance

Simple user friendly controller with outstanding functions

- Color coded on/off buttons
- LCD display
- Fault indication & reset function
- Service warnings
- Reverse rotation protection



Horizontal design brings high efficiency internal cooling

Fast service pre-filtration

- Smart slot design allows quick servicing
- Easy cleaning with washing or air blowing



ADDITIONAL FEATURES:

- ISO 9001, ISO 14001 Quality Assurance.
- World Renowned Screw Element.

TECHNICAL DATA

Model	Working Pressure	Motor Power		Capacity			Noise Level	Weight	Connection	Dimensions		
	BAR (G)	kW	HP	l/s	cfm	m ³ /min	dB(A)	kg	Ø G	Length mm	Width mm	Height mm
MSS 4 TM	10	4	5	8	17	0.47	66	200	1/2"	1366	675	1348
MSS 5.5 TM	10	5.5	7.5	9.4	21	0.55	66	230	1/2"	1686	675	1348
MSS 7.5	8	7.5	10	18	40	1.5	68	235	3/4"	885	795	970
	10	7.5	10	12	28	0.7						
MSS 11	8	11	15	27	60	1.6	70	235	3/4"	650	850	930
	10	11	15	20	45	1.2						
MSS 15	8	15	20	34.5	75	2.0	70	235	3/4"	650	850	930
	10	15	20	30.6	65	1.8						
MSS 18.5	8	18.5	25	51	110	3.0	70	345	1"	710	740	1275
	10	18.5	25	42	95	2.5						
MSS 22	8	22	30	58.1	125	3.3	70	350	1"	710	740	1275
	10	22	30	49	105	2.8						
MSS 30	7	30	40	86.1	185	4.9	75	500	1 1/2"	860	850	1345
	10	30	40	65.1	140	3.7						
MSS 37	7	37	50	94	205	5.6	75	530	1 1/2"	860	850	1375
	10	37	50	89	185	5.3						
MSS 45	7	45	60	116	250	6.96	75	650	1 1/2"	1320	970	1380
	10	45	60	93	200	5.58						
MSS 55	7	55	75	150	320	8.60	78	875	2"	1574	1159	1718
	10	55	75	116	245	6.90						
MSS 75	7	75	100	205	450	11.90	79	1107	2"	1574	1159	1718
	10	75	100	161	340	9.61						

MDS REFRIGERANT AIR DRYERS:

Mark is the largest air dryer manufacturer in the world with a 49-year legacy serving various industries. Our dryers have a capacity starting from 0.36KW. With an easy to operate on-off controller, 3-in-1 heat exchanger and a durable refrigerant with environment-friendly gases, we guarantee energy efficiency and longer runtime. Mark air dryers have ISO 9001, ISO 14001 Quality Assurance.

MARK MDS REFRIGERATED COMPRESSED AIR DRYER



- 1 REFRIGERANT COMPRESSOR**
Driven by an electric motor, cooled using refrigerant fluid and protected against thermal overload.
- 2 REFRIGERANT CONDENSER**
Air-cooled and with a large exchange surface for efficient thermal exchange.
- 3 MOTOR-DRIVEN FAN**
For the condenser cooling air flow.
- 4 AIR/REFRIGERANT EVAPORATOR**
With high thermal exchange and low leakage.
- 5 CONDENSATE SEPARATOR**
High-efficiency separator for optimum performance.
- 6 AIR-AIR EXCHANGER**
With high thermal exchange and low load losses.
- 7 ON/OFF SWITCH**
Reliable simple on/off switch to turn on and off the dryer.
- 8 AUTOMATIC DISCHARGE OF CONDENSATE**
User adjustable, Timer solenoid drain, Reliable and timely, Proven design
- 9 CONTROL PANEL**
Indicates all relevant information.

SIMPLE TIMER OPERATED DRAIN DISCHARGE

The refrigerant dryer range is equipped with a simple timer operated condensate drain discharge. Easy to set and adjust the condensate drain interval & drain operating period. Highest quality brand in industry, reliable & efficient.



PDP INDICATOR:



The operation of the MDS dryer is monitored by an electronic controller indicating all relevant information:

Technical details:

- Status of the refrigerant dryer.
- Status of the fan.
- Dewpoint indication.

Alarm display:

- High or low dewpoint alarm.
- Fan failure.
- Low or high refrigerant pressure.

TECHNICAL DATA

Model	Working Pressure	Air Treatment Capacity			Nominal Power	Electrical	Connection	Dimension	Weight	Refrigerant
	BAR	l/s	cfm	m ³ /min	kW	V/Ph/Hz	G	L*W*H mm	kg	
MDS 10	13	16.6	36.3	1.0	0.21	230/1/50	3/4"	362x430x446	30	R134a
MDS 13	13	21.6	46.9	1.3	0.36	230/1/50	3/4"	550x370x704	30	R134a
MDS 21	13	36.0	74.1	2.1	0.36	230/1/50	3/4"	550x370x704	34	R134a
MDS 40	13	66.6	141.2	4.0	0.70	230/1/50	1"	520x500x809	55	R410A
MDS 66	13	110.0	233.0	6.6	0.96	230/1/50	1 1/2"	520x500x809	60	R410A
MDS 85	13	141.6	300.2	8.5	0.98	230/1/50	1 1/2"	550x600x958	68	R410A
MDS 105	13	176.0	370.8	10.5	1.00	230/1/50	2"	550x600x958	75	R410A
MDS 140	13	233.3	494.4	14.0	1.67	230/1/50	2"	900x750x1009	110	R410A
MDS 175	13	291.6	618.0	17.5	1.75	230/1/50	2"	900x750x1009	126	R410A
MDS 220	13	366.3	776.6	22.0	2.86	230/1/50	2 1/2"	1050x660x1130	140	R410A
MDS 260	13	433.0	917.8	26.0	2.96	230/1/50	2 1/2"	1050x660x1130	162	R410A

FULL FILTER RANGE

Allowing unclean or contaminated compressed air to enter your air network holds several risks. In almost all applications, this can cause a considerable decrease in performance as well as an increase in maintenance costs both related to actual repairs as well as a loss in productivity. Mark's innovative filters are engineered to cost-effectively provide the best air quality and meet today's ever increasing quality demands. They are fully developed and tested according to ISO standards.

COMPONENTS



- 1** Double O-rings guarantee proper sealing to reduce leakage risks and increase energy savings.
- 2** Increased user friendliness and reliability via push-on element.
- 3** Protection paper avoids direct contact between filter media and stainless steel filter core.
- 4** Enhanced glass fiber media ensure high filter efficiency, low pressure drop and guaranteed lifetime performance. For oil coalescence filters, multiple layers are wrapped around each other to avoid the risk of early oil breakthrough.
- 5** Enhanced high-performance stainless steel filter cores ensure ultimate strength and low risk of implosion.
- 6** Oil coalescence filters: Double drainage layer (outer protection paper and foam) has a large drainage capacity which is ideal for variable speed compressors. Moreover, the poly-urethane foam avoids oil re-entrainment. Dust filters: Open foam acts as a pre-filter for the largest dust particles, which prolongs the filter lifetime.
- 7** Epoxy sealed caps for reliable filtration.
- 8** Internal ribs support the element and facilitate the route of oil droplets.

G FILTER RANGE

Coalescing filters for general purpose protection, removing solid particles, liquid water and oil aerosol. Total Mass Efficiency: 99%.

For optimum filtration, a G filter should be preceded by a water separator.

C FILTER RANGE

High-efficiency coalescing filters, removing solid particles, liquid water and oil aerosol. Total Mass Efficiency: 99.9%.

For optimum filtration, a C filter should be preceded by a G filter at all times.

V FILTER RANGE

Activated carbon filter for removal of oil vapour and hydrocarbon odors with a maximum remaining oil content of 0.003mg/m³ (0.003ppm). 1000 hour lifetime.

The quality of air required throughout a typical compressed air system varies. Offering an extensive filter range, Mark can always match your precise requirements, ensuring that all types of contamination are avoided and costs are reduced to an absolute minimum.

	S	D	G	C	P	V
Filter type	Solid particles	Solid particles	Oil aerosol & solid particles	Oil aerosol & solid particles	Oil aerosol & solid particles	Oil vapor
Test method	ISO 12500-3	ISO 12500-3	ISO 12500-1 ISO8573-2	ISO 12500-1 ISO8573-2	ISO 12500-1 ISO 12500-3 ISO 8573-2	ISO 8573-5
Inlet Oil Concentration(mg/m)	NA	NA	10	10	10	0.01
Court efficiency (% at MPPS)	(MPPS=0.1µm) 99.81	(MPPS=0.06µm) 99.97	NA	NA	(MPPS=0.1µm) 89.45	NA
Court efficiency (% at 1µm)	99.97	99.999	NA	NA	94.19	NA
Court efficiency (% at 0,01µm)	99.87	99.992	NA	NA	93.63	NA
Max oil carry-over (mg/m)	NA	NA	0.1	0.01	1	0.003
Dry pressure drop (m bar)	120	140	NA	NA	85	160
Wet pressure drop (mbar)*	NA	NA	205	240	115	NA
Wet pressure drop (mbar), in typical compressor installation	NA	NA	185	200	NA	NA
Element service	After 4,000 operating hours or 1 year or pressure drop>350 mbar	After 4,000 operating hours or 1 year or pressure drop>350 mbar	After 4,000 operating hours or 1 year	After 4,000 operating hours or 1 year	After 4,000 operating hours or 1 year	After 1,000 operating hours (at 20°C) or 1 year
Precede with	-	S	Water separator	G	-	G&C

*inlet oil concentration=10mg/m

AUTOMATIC DRAINS

Model	Inlet	Outlet	Max Pressure	Min Temp	Max Temp	Nominal Discharge	Capacity
MFD85	1/2"	6mm	16bar	1.5°C	85°C	22ml	84 L-Hr
MZD800	1/2"	1/2"	16bar	1.5°C	85°C	90 ml	800 L-Hr

Model	Inlet	Outlet	Max Pressure	Min Temp	Max Temp	Voltage
MED320	1/2"	6mm	15bar	1.5°C	55°C	230V/1P/50-60Hz

supply with 1.2 meter lead



A SOLUTION FOR EVERY AIR QUALITY

Technical Table

	Nominal Capacity		Maximum Pressure			Connections/ Port thread	Dimensions			Free Space for Cartridge Replacement	Weight
	l/min	m ³ /h	cfm	bar	psi		A	B	C		
FILTER 7	720	43	25	16	232	3/8"	90	21	228	75	1
FILTER 15	1500	90	53	16	232	1/2"	90	21	228	75	1.1
FILTER 21	2100	126	74	16	232	1/2"	90	21	283	75	1.3
FILTER 30	3000	180	106	16	232	3/4"	110	27.5	303	75	1.9
FILTER 30	3000	180	106	16	232	1"	110	27.5	303	75	1.9
FILTER 48	4800	288	170	16	232	1"	110	27.5	343	75	2.1
FILTER 84	8400	504	297	16	232	1 1/2"	140	34	449	100	4.2
FILTER 114	11400	684	403	16	232	1 1/2"	140	34	532	100	4.5
FILTER 156	15600	936	551	16	232	1 1/2"	140	34	532	100	4.6
FILTER 216	21600	1296	763	16	232	2"	179	50	618	150	6.9
FILTER 216	21600	1296	763	16	232	2 1/2"	179	50	618	150	6.9
FILTER 315	31500	1890	1112	16	232	3"	210	57	720	200	11.0
FILTER 405	40500	2430	1430	16	232	3"	210	57	890	200	12.6



*Reference Condition : Pressure 7 bar. (102psi). Maximum operating temperature of 66°C, and 35°C, only for V series
Minimum operating temperature of 1°C

Inlet Pressure (bar)	1	2	3	4	5	6	7	8	10	12	14	16
Inlet Pressure (sig)	15	29	44	58	72.5	87	102	116	145	174	203	232
Correction Factor	0.38	0.53	0.65	0.75	0.83	0.92	1	1.06	1.2	1.31	1.41	1.5

For other compressed air inlet pressures, multiply the filter capacity by the following correction factors

OIL WATER SEPERATORS

Model	Nominal Flow			Inlet	Outlet	Dimensions
	l/min	m ³ /h	cfm			
OSD 20	2000	120	71	1/4"	10	140x140x240
OSD 35	3500	210	124	1/2"	20	215x257x500
OSD 105	10500	630	371	1/2"	20	345x282x654
OSD 255	25500	1530	901	1/2"	20	432x495x989
OSD 365	36500	2190	1289	1/2"	20	432x495x989
OSD 510	51000	3060	1801	1/2"	20	990x520x989
OSD 710	71000	4260	2507	1/2"	20	990x520x989



COMPLETE COMPRESSOR ROOM SOLUTIONS

