



NMR Engineering Service



Authorised Distributor of





Smart and Simple Compressed Air Solution

MSS 4-75 KW
Screw Compressor

MDS 10-260
Refrigerant Dryer



OIL-INJECTED SCREW COMPRESSOR

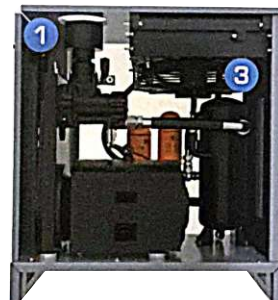
Mark's oil-injected compressor have been specially designed for India's tropical conditions and are ideal for various industries and assembly production. Our compressors have a capacity starting from 4.5KW, With a simple LCD display control system, user-friendly design, top-of-the-line quality and durability,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



Smart Technical Advantages

1 Asymmetric profile rotors mounted on high-quality ball and roller bearing along with a high degree of sealing and fine tolerance guarantee:

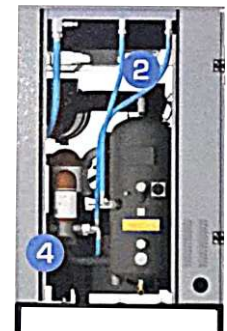
- >> Greater yield
- >> Long life & reliability
- >> High efficiency
- >> Lasting performance



2 Horizontal design brings high-efficiency internal cooling

3 Simple user-friendly controller with outstanding functions

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



4 Fast service pre-filtration

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

Technical Data

Model	Max Pressure	Motor		Capacity			Noise	Weight	Connection	Dimension		
	Bar (G)	kW	HP	I/S	cfm	m ³ /min	dB±2	kg	G	Lenght (mm)	Width (mm)	Height (mm)
MSS 4 TM	10	4	5	9.04	19	0.51	68	200	1/2"	1540	751	1473
MSS 5.5 TM	10	5.5	7.5	11.4	24	0.65	68	230	1/2"	1540	751	1473
MSS 7.5	8	7.5	10	18	40	1.1	68	235	1/2"	650	650	890
	10	7.5	10	14	30	0.85						
MSS 11	8	11	15	27	60	1.6	69	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	30.5	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	65.1	185	4.9	75	500	1"	860	850	1345
	10	30	40	65.1	140	3.7						
MSS 37	7	37	50	94	205	5.6	75	530	1"	860	850	1345
	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	250	5.58						
MSS 55	7	55	75	150	320	8.60	78	875	2"	1574	1159	1718
	10	55	75	118	245	6.90						
MSS 75	7	75	100	205	425	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 manufacturers in the world with a 49 years legacy of serving various industries. Our dryers have a capacity starting from 0.36 KW. With an easy-to-operate on/off controller, 3-in-1 heat exchanger and durable refrigerant with environment-friendly gases, we guarantee energy efficiency and longer runtime. Mark air dryer have ISO 9001, ISO 14001 quality assurance



- 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

Technical Data

Model	Max Pressure	Capacity			Motor	Electrical	Connection	Dimension			Weight	Refrig- erent
	Bar (G)	I/S	cfm	m ³ /min	kW	V/PH/Hz	G	Length (mm)	Width (mm)	Height (mm)	kg	
MDS 10	13	16.6	16.6	1.0	0.21	230/1/50	3/4"	362	430	445	30	R134a
MDS 13	13	21.6	21.6	1.3	0.36	230/1/50	3/4"	550	370	704	30	R134a
MDS 21	13	36.0	36.0	2.1	0.36	230/1/50	3/4"	550	370	704	34	R134a
MDS 40	13	66.6	66.6	4.0	0.70	230/1/50	1"	520	500	809	55	R410A
MDS 66	13	110.0	110.0	6.6	0.96	230/1/50	1 1/2"	520	500	809	60	R410A
MDS 85	13	141.6	141.6	8.5	0.98	230/1/50	1 1/2"	550	600	958	68	R410A
MDS 105	13	176.0	176.0	10.5	1.00	230/1/50	2"	550	600	958	75	R410A
MDS 140	13	233.3	233.3	14.0	1.67	230/1/50	2"	900	750	1009	110	R410A
MDS 175	13	291.6	291.6	17.5	1.75	230/1/50	2"	900	750	1009	125	R410A
MDS 220	13	366.3	366.3	22.0	2.86	230/1/50	2 1/2"	1050	660	1130	140	R410A
MDS 260	13	433.0	433.0	26.0	2.96	230/1/50	2 1/2"	1050	660	1130	152	R410A

Matrix[®] UPS Equipment

CVCF | Constant Voltage & Constant Frequency

OPERATING PRINCIPLE

- Unregulated raw input supply from MAINS/Generator is filtered & stabilized
- Filtered power is brought under control of algorithm by switching circuits
- Time tested micro controller technology & reliable IGBT devised ensure that, output of the CVCF is **CONSTANT VOLTAGE & CONSTANT FREQUENCY**



ADVANTAGES

- Electronically operated equipment developing reliable Technology
- Always steady voltage at the output 220V \pm 1%
- Always steady frequency at the output 50Hz \pm 0.1%
- Isolated output free from spikes & Surges
- Instantaneous Voltage Correction • Sleeking size
- Excellent transplant response for heavy Inductive Load • Enhance application life span

APPLICATION

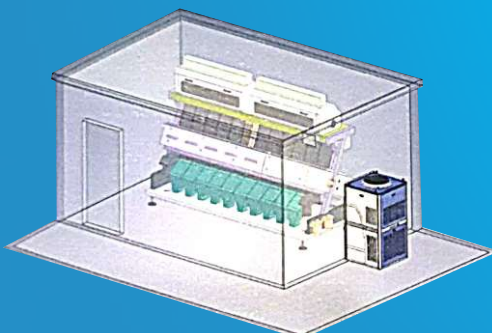
- Color Sorter Machine • Packaging Machine • CNC & PLC Machines etc.
- ISO Certification ensure & developed to fetch high Return on Investment to the customer by offering high product life and low Total Cost of Ownership • Out Products are user friendly and easy to service • We deploy latest state-of-the-art technology • Printing Machine • Medical Equipment • Communication Products

Specification	Single Phase	Three Phase
Range	1 KVA to 20 KVA	5KVA to 200 KVA
Input Voltage	160 V AC to 260 V AC	330V AC to 460V AC 3 ϕ +N
Input Frequency	45 Hz to 55 Hz	45Hz to 55Hz
Protection	Overload/Short Circuit, Battery Deep Discharge Battery Over Charge, Output Under/Over Voltage	
Output Voltage	200/210/220/230/Volts	380/400/415 Volts 3 ϕ +n
Voltage Regulation	1% for Input Variation and Step Load Change from 10% to 100% \pm 2% 3 ϕ + N	
Output Frequency	50 Hz with accuracy $< \pm$ 0.1% (Optional 60Hz)	
Wave Form	Sinewave with THD $<$ 3% on linear load	
Power Factor	0.8 Lagging to Unity	
Type of Inverter	DSP Controlled Double Update Sine Modulated MWM	
Nomination DC Bus Voltage	180/192 Volts DC	360/384 Volts DC
Inverter Efficiency	Better than 982%	
Overload	125% for 10 minutes, 300% for 10 ms	
	LCD Panel Displaying Input/Ouptput Voltage, Input/ Output Frequency. Battery Voltage, Output Load Operating Mode (Mains/Battery), Overload/Short Circuit, Battery Low Self Diagnostic check, Output Status (On/Off), Audio Alarm, Battery Low and Overload	
Charger Type	IGBT Based Smart Charger	
Backup Time	As per requirement	



ENHANCES YOUR PRODUCTIVITY

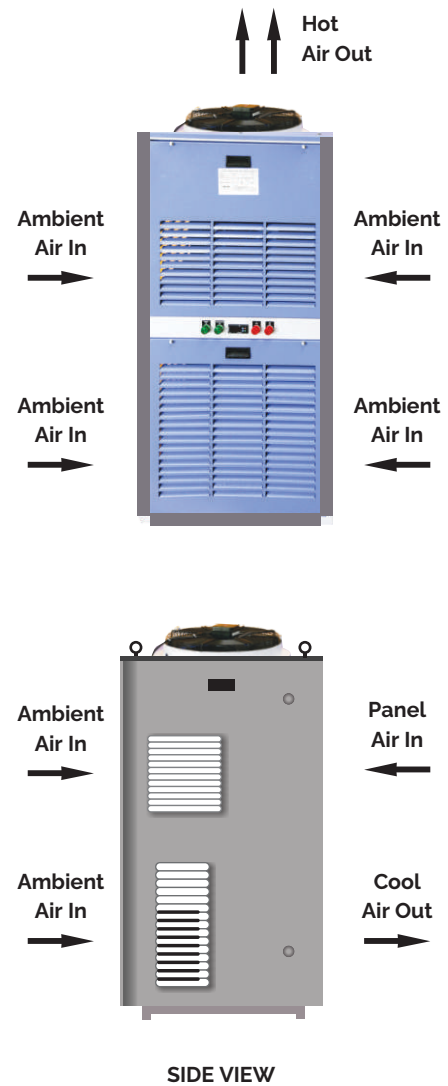
PRECISION AIR CONDITIONER FOR SORTING MACHINES



Arrangement of
Precision Air Conditioner
at Sorting Machine

Application

- Widely used for Sorting Machines Application where Normal Air Conditioner do not operate due to High Dust
- Any Industrial Application having Highly Dusty Atmosphere
- Rice, Pulses, Wheat Industry
- Tea and Coffee Industry
- Peanuts, Cashew, Sesame and Pepper Industry



Technical Data

Specification	Model - RS24000	Model - RS36000
Cooling Capacity	2TR	3TR
Power Supply	230V, 50 Hz/415V, 50Hz	230V, 50 Hz/415V, 50Hz
Compressor	Hermetic Reciprocating 1 No.	Hermetic Reciprocating 1 No.
Max Suitable Ambient Temp.	50°C	50°C

DIMENSION

Specification	Model - RS24000	Model - RS36000
Height	1550 mm	1650 mm
Width	855 mm	985 mm
Depth	855 mm	855 mm

INDUSTRY WE ARE SERVING



Rice Industry



Grain Industry



Paper Industry



Beverage Industry



Textile Industry



Chemical Industry



Solvent Extraction Plant



Pharma Industry



Refinery

NMR Engineering Service



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Power House, Bhilai (C.G.)



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