

Metro

Reliable Heart of
Refrigeration System



MC/MCX SERIES

Heavy Duty Refrigeration Compressores

Metro has traditional values: Durability, Reliability & Energy Saving

Metro Refrigeration Industries is one of the Leading Manufacturer & exporter of refrigeration compressors and complete refrigeration system for fruits and vegetables cold storage, dairy, Ice cream, breweries, beverages, ice plants, meat processing, seafood processing, and process refrigeration, which includes pharmaceuticals, chemicals & water chillers and other industrial application since 1986.

Metro reciprocating compressor range includes MC (Water Cooled), MCX (Air Cooled) Series of Compressors uses in various applications of Industrial Refrigeration. Metro compressor are manufactured in 7 type of Single stage and 9 types of Two stage (compound) version from 1 to 12 cylinder having capacity upto 540 T.R.

Metro has developed the necessary infrastructure to support all its manufacturing process, at our labs, rigorous testing, CNC Machining and boring process on German & Japanese Machineries. This Modern Process of Continuous precision, accurate machining high workmanship and development has resulted in a product line which is superior, economical, durable and dependable.

Metro compressors are manufactured, inspected and checked for metallurgy, dimension, accuracy, structural test without compromising on quality service and performance. We have able to deliver the compressor, which gives best value for the money due to its long life performance.

Metro Design Manufactures installs and commission complete refrigeration plants on "Turnkey basis" by our well trained and qualified technical engineers with relevant work -experience & best knowledge.

Our aim at achieving total customer satisfaction by crating a mutual beneficial relationship with our customers though efficiently providing unique, quality products and technical network support.

Remarkable COP (Coefficient Of Performance) Values at both full and partial load operation, low initial capital expenditure, and economical maintenance are some of the primary advantages of Metro refrigeration compressor that lead to customers preferring it first.

TECHNICAL DATA

METRO		COMPRESSOR MODELS						
COMPRESSOR TYPE	SINGLE STAGE	MC10	MC20	MC30	MC40	MC60	MC90	MC120
	TWO STAGE			MC21	MC31	MC42	MC63	MC93
	LOW STAGE					MC51	MC72	MC102
No. OF CYLINDERS		1	2	3	4	6	9	12
BORE AND STROKE		160 x 114 (mm)						
PERMISSIBLE SPEED		Belt drive from 550 to 1000 RPM in steps of 100						
SWEPT VOLUME - m ³ /hr AT 1000 RPM (Maximum)	SINGLE STAGE	135.00	270.00	405.00	540.00	810.00	1215.00	1620.00
	TWO STAGE			270.00	405.00	540.00	810.00	1215.00
	LOW STAGE					675.00	945.00	1350.00
SWEPT VOLUME - m ³ /hr AT 750 RPM (Normal)	SINGLE STAGE	101.25	202.50	303.75	405.00	607.50	911.25	1215.00
	TWO STAGE			202.50	303.75	405.00	607.50	911.25
	LOW STAGE					506.25	708.75	1012.25
DIRECTION OF ROTATION		Anti-clockwise when viewed from shaft-end						
MAXIMUM DISCHARGE PRESSURE								
GROSS WEIGHT - kg		650	860	970	1190	1400	1975	2850
OIL CHARGE CAPACITY - ltrs.		10	10	11	12	15	25	35
OVERALL DIMENSION - mm	Length	960	1024	1250	1290	1450	2000	2950
	Width	670	1040	1200	1040	1200	1200	1200
	Height	1050	1150	1120	1200	1295	1300	1350

PERFORMANCE CHART

SINGLE STAGE						TWO STAGE (Interstage gas cooling by liquid exp. feeding)			
Type	Unit	NH ₃ ⁺		ICE making Capacity (Tonnes per 24 hrs.) with NH ₃ ⁺		Type	Unit	NH ₃ ⁺	
		1		2				3	
		1000 RPM (Max)	750 RPM (Nor)	1000 RPM (Max)	750 RPM (Nor)			1000 RPM (Max)	750 RPM (Nor.)
MC10	TR	48.9	36.6	9.9 TPD	7.4 TPD	MC21	TR	18.9	14.2
	kW	26.9	20.1	20.6 kW	15.4 kW		kW	34.5	25.9
MC20	TR	97.8	73.3	19.8 TPD	14.8 TPD	MC31	TR	26.9	20.2
	kW	53.9	40.4	41.2 kW	30.9 kW		kW	47.9	35.9
MC30	TR	146.8	110.1	29.8 TPD	22.3 TPD	MC42	TR	37.7	28.3
	kW	79.8	59.8	60.4 kW	45.3 kW		kW	67.3	50.5
MC40	TR	195.7	146.7	39.6 TPD	29.7 TPD	MC51	TR	40.5	30.4
	kW	105.9	79.4	79.8 kW	59.9 kW		kW	73.3	55.0
MC60	TR	293.6	220.2	59.5 TPD	44.6 TPD	MC63	TR	56.6	42.5
	kW	157.7	118.3	118.0 kW	88.5 kW		kW	99.5	74.6
MC90	TR	440.5	330.4	89.3 TPD	67.0 TPD	MC72	TR	61.4	46.0
	kW	235.4	176.5	175.8 kW	131.9 kW		kW	106.7	80.0
MC120	TR	587.3	440.4	119.1 TPD	89.3 TPD	MC93	TR	80.9	60.7
	kW	313.2	234.9	233.4 kW	175.1 kW		kW	139.3	104.5
						MC102	TR	81.1	60.8
							kW	144.3	108.2

[1] At + 10 deg C/+40 deg C; [2] At - 15 deg C/+40 deg C; [3] At - 30 deg C/+40 deg C; The performance chart is only a guideline, for other details please Contact to us.

Manufactured by:

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