

# Sullivan Palatek®

## M-Series Compressors



CDFE



CDD

(Shown with optional receiver tank)

### INDUSTRIAL AIR COMPRESSOR - 5, 7.5, 10 HP M-SERIES

- » Modular oil flooded rotary screw continuous duty industrial air compressor
- » 208/230/460/575 volt 3-phase open drip motor
- » Full voltage magnetic starter with 115 volt control power
- » Automatic dual control
- » Line pressure gauge, oil temperature gauge, and hour meter
- » Air cooled oil cooler/aftercooler with Palasyn 45, 4000 hour synthetic oil
- » Spin on type oil filter and separator elements for ease of maintenance
- » Air Filter: combination pleated and foam dry type, easily replaceable



#### CDF/CDFE

Complete compressor package with mounted refrigerated air dryer, high efficiency coalescing air filter, and receiver tank. A modulating thermostatic expansion valve gives a more effective refrigeration control over a wide span of operating conditions. It prevents compressor failure due to liquid return commonly found in

capillary tube designs.



#### High Efficiency Coalescing Air Filter

High Quality Compressed Air Filtration  
Particle Removal Down to 0.01 Micron  
Max. Oil Carryover 0.008 PPM w/w  
Nominal Pressure Drop 1.2 PSID  
ISO 8573 (Class 1)  
99.9999% Efficiency

#### CDD/CDDE

Complete compressor package with mounted desiccant air dryer and high efficiency coalescing air filter. EXTENDED LIFE mounted desiccant dryer to eliminate moisture and contaminants.  
-40°F Dew Point



# TECHNICAL DATA

COMPRESSOR DATA		M5	HM5	HMM5	M7.5	HM7.5	HMM7.5	M10	HM10	HMM10
Capacity	acfm	22	18	15.5	29	25	22	44	35	32
Pressure @ Full Load	psig (bar)	125 (8.6)	150 (10.3)	175 (12.1)	125 (8.6)	150 (10.3)	175 (12.1)	125 (8.6)	150 (10.3)	175 (12.1)
Minimum Pressure	psig (bar)	60 (4.1)	60 (4.1)	60 (4.1)	60 (4.1)	60 (4.1)	60 (4.1)	60 (4.2)	60 (4.2)	60 (4.2)
Motor Output (60 Hz)	hp (kW)	5 (3.7)	5 (3.7)	5 (3.7)	7.5 (5.6)	7.5 (5.6)	7.5 (5.6)	10 (7.5)	10 (7.5)	10 (7.5)
Motor Speed	rpm	1755	1755	1755	3530	3530	3530	3515	3515	3515
Motor Output @ Full Load	hp (kW)	4.6 (3.4)	5.0 (3.7)	5.2 (3.9)	10.5 (7.8)	8.2 (6.1)	7.7 (5.7)	10.9 (8.1)	9.7 (7.2)	11.2 (8.4)
Motor Output @ 100 psig	hp (kW)	4.3 (3.2)	3.9 (2.9)	3.3 (2.5)	7.2 (5.4)	5.6 (4.2)	5.3 (3.9)	9.8 (7.3)	8.2 (6.2)	8.2 (6.2)
Driven Pulley		2.65	2.8	3.00	3.35	3.65	4.12	4.75	5.30	5.60
Drive Ratio		2.26	2.14	2.00	1.79	1.64	1.46	1.26	1.13	1.07
Rotor Diameter	mm	60	60	60	60	60	60	75	75	75
COOLING DATA										
Fan Airflow	cfm	1100	1100	1100	1100	1100	1100	1100	1100	1100
After Cooler Approach	°F (°C)	20 (11)	20 (11)	20 (11)	20 (11)	20 (11)	20 (11)	20 (11)	20 (11)	20 (11)
Fluid Capacity	gallons (L)	1 (3.8)	1 (3.8)	1 (3.8)	1 (3.8)	1 (3.8)	1 (3.8)	1.50 (5.7)	1.50 (5.7)	1.50 (5.7)
SOUND DATA										
Air-Cooled (Open)	dba @ 1m	72	72	72	82	82	82	82	82	82
Air-Cooled (Enclosed)	dba @ 1m	68	68	68	75	75	75	74	74	74
DISCHARGE PIPING										
Air-Cooled (Base-Mounted)	NPT	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Tank-Mounted (Tank End)	NPT	2	2	2	2	2	2	2	2	2
ELECTRICAL DATA										
Motor FLA @ 575V (3-Phase)	amps	5.5	5.5	5.5	6.8	6.8	6.8	9.6	9.6	9.6
Motor FLA @ 460V (3-Phase)	amps	6.6	6.6	6.6	8.6	8.6	8.6	11.6	11.6	11.6
Motor FLA @ 230V (3-Phase)	amps	13.2	13.2	13.2	17.2	17.2	17.2	23.2	23.2	23.2
Motor FLA @ 230V (1-Phase)	amps	20.5	20.5	20.5	33	33	33	46	46	46
Motor FLA @ 208V (3-Phase)	amps	14.7	14.7	14.7	19	19	19	24.5	24.5	24.5
Motor FLA @ 208V (1-Phase)	amps	22.7	22.7	22.7	36.5	36.5	36.5	50.9	50.9	50.9
Motor FLA @ 200V (3-Phase)	amps	15.3	15.3	15.3	19.8	19.8	19.8	25.5	25.5	25.5
Starter Enclosure Rating	NEMA	1	1	1	1	1	1	1	1	1
Control Voltage	volts	115	115	115	115	115	115	115	115	115
Motor Enclosure	NEMA	ODP	ODP	ODP	ODP	ODP	ODP	ODP	ODP	ODP
Motor Insulation Class	NEMA	F	F	F	F	F	F	F	F	F
Motor Service Factor	NEMA	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15	1.15
Motor Maximum Starts/Hour		15	15	15	12	12	12	12	12	12

Consult factory for shipping weights.

**SELECT THE COMBINATION  
THAT'S RIGHT FOR YOUR JOB**



MODEL	LENGTH	HEIGHT	WIDTH
Base Mount	38.63"	26.34"	24.14"
Base Mount Enclosed	38.88"	27.43"	24.46"
Platform Mount with Separator Trap	38.63"	56.34"	24.14"
Platform Mount Enclosed w/Sep-Trap	38.88"	57.43"	24.46"
Tank Mount - 80G with Auto Drain	65.2"	48.9"	25.20"
Tank Mount Enclosed - 80G w/drain	64"	50.93"	25.20"
Tank Mount - 120G with Auto Drain	69.88"	51.87"	23.74"
Tank Mount Enclosed - 120 G w/drain	68"	53.93"	24.46"

Distributed By:

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