

# WP 100 Water Cooled Compressor



## The Alternative to Air-Cooled Compressors

With over 75 years of commercial and naval experience, Sauer Compressors has developed a series of highly competitive, robust, water-cooled compressors. These units are ideal for industrial applications where airflow, high ambient temperatures, and/or ambient noise pose operational difficulties.

## [SPECIFICATIONS](#) · [FLOW AND POWER](#)

### SPECIFICATIONS

Stages/Cylinders	2/2
Operating Pressure Range	100 to 435 psi
Required Power @ 1150 RPM, 60 Hz	19.1 to 21.3 hp
Capacity F. A. D. @ 1150 RPM, 60 Hz	41 to 44 SCFM
Required Power @ 1770 RPM, 60 Hz	28.5 to 31.7 hp
Capacity F. A. D. @ 1770 RPM, 60 Hz	60.8 to 65.1 SCFM
Motor Rating @ 1170 RPM, 60 Hz	20 hp
Motor Rating @ 1770 RPM, 60 Hz	30 hp
Current @ 460 Volts @ 1170 RPM, 60 Hz	23.5 Amps
Current @ 460 Volts @ 1770 RPM, 60 Hz	34.4 Amps
Current @ 230 Volts @ 1770 RPM, 60 Hz	74 Amps
Current @ 230 Volts @ 1170 RPM, 60 Hz	68.8 Amps
Weight @ 1170 RPM, 60 Hz	1100 Pound
Weight @ 1770 RPM, 60 Hz	1100 Pound
Noise level @ 3 ft, 1170 RPM (60Hz)	82 dB(A)
Noise level @ 3 ft, 1770 RPM (60Hz)	86 dB(A)
Heat dissipation to water @ 1170 RRM, 60Hz	55,000 Btu/hr
Heat dissipation to water @ 1770 RRM, 60Hz	55,000 Btu/hr

Heat dissipation to ambient @ 1170 RRM, 60Hz	10,000 Btu/hr
Heat dissipation to ambient @ 1770 RRM, 60Hz	17,000 Btu/hr
Cooling Air Needed @ 1170 RPM, 60 Hz	6.1 GPM
Cooling Air Needed @ 1770 RPM, 60 Hz	9.2 GPM
Residual oil content at gas outlet (without filtration)	
Delta temperature (gas outlet vs. ambient) @ 1170 RPM, 60 Hz	27 °F
Delta temperature (gas outlet vs. ambient) @ 1770 RPM, 60 Hz	31 °F
Operational ambient temperature range	40-120 °F
Oil Sump Capacity	9.5 Quarts
Overall Dimensions ( L x W x H )	53 X 28 X 33 Inch
Cooling Method	Water- Cooled
Drive Type	Direct Drive

## FLOW AND POWER

Power @ 145 PSIG, 1170 RPM, 60 Hz	19.1 hp
Flow @ 145 PSIG, 1170 RPM, 60 Hz	44.0 SCFM
Power @ 145 PSIG, 1770 RPM, 60 Hz	28.5 hp
Flow @ 145 PSIG, 1770 RPM, 60 Hz	65.1 SCFM
Power @ 290 PSIG, 1170 RPM, 60 Hz	20.2 hp
Flow @ 290 PSIG, 1170 RPM, 60 Hz	42.6 SCFM
Power @ 290 PSIG, 1770 RPM, 60 Hz	30.1 hp
Flow @ 290 PSIG, 1770 RPM, 60 Hz	62.9 SCFM
Power @ 435 PSIG, 1170 RPM, 60 Hz	21.3 hp
Flow @ 435 PSIG, 1170 RPM, 60 Hz	41.2 SCFM
Power @ 435 PSIG, 1770 RPM, 60 Hz	31.7 hp
Flow @ 435 PSIG, 1770 RPM, 60 Hz	60.8 SCFM

# WP 200 Water Cooled Compressor



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## [SPECIFICATIONS](#) · [FLOW AND POWER](#)

### SPECIFICATIONS

Stages/Cylinders	2/2
Operating Pressure Range	100 to 435 psi
Required Power @ 1150 RPM, 60 Hz	31.4 to 34.9 hp
Capacity F. A. D. @ 1150 RPM, 60 Hz	70.8 to 75.8 SCFM
Required Power @ 1770 RPM, 60 Hz	47.8 to 53.1 hp
Capacity F. A. D. @ 1770 RPM, 60 Hz	103 to 110 SCFM
Motor Rating @ 1170 RPM, 60 Hz	40 hp
Motor Rating @ 1770 RPM, 60 Hz	60 hp
Current @ 460 Volts @ 1170 RPM, 60 Hz	47.1 Amps
Current @ 460 Volts @ 1770 RPM, 60 Hz	67 Amps
Current @ 230 Volts @ 1770 RPM, 60 Hz	94.2 Amps
Current @ 230 Volts @ 1170 RPM, 60 Hz	134 Amps
Weight @ 1170 RPM, 60 Hz	1826 Pound
Weight @ 1770 RPM, 60 Hz	1826 Pound
Noise level @ 3 ft, 1170 RPM (60Hz)	84 dB(A)
Noise level @ 3 ft, 1770 RPM (60Hz)	89 dB(A)
Heat dissipation to water @ 1170 RRM, 60Hz	78,000 Btu/hr
Heat dissipation to water @ 1770 RRM, 60Hz	133,000 Btu/hr

Heat dissipation to ambient @ 1170 RRM, 60Hz	17,000 Btu/hr
Heat dissipation to ambient @ 1770 RRM, 60Hz	31,000 Btu/hr
Cooling Air Needed @ 1170 RPM, 60 Hz	9.2 GPM
Cooling Air Needed @ 1770 RPM, 60 Hz	15.1 GPM
Residual oil content at gas outlet (without filtration)	
Delta temperature (gas outlet vs. ambient) @ 1170 RPM, 60 Hz	25 °F
Delta temperature (gas outlet vs. ambient) @ 1770 RPM, 60 Hz	36 °F
Operational ambient temperature range	40-120 °F
Oil Sump Capacity	12.2 Quarts
Overall Dimensions ( L x W x H )	67 X 40 X 35 Inch
Cooling Method	Water- Cooled
Drive Type	Direct Drive

## FLOW AND POWER

Power @ 145 PSIG, 1170 RPM, 60 Hz	31.4 hp
Flow @ 145 PSIG, 1170 RPM, 60 Hz	75.8 SCFM
Power @ 145 PSIG, 1770 RPM, 60 Hz	47.8 hp
Flow @ 145 PSIG, 1770 RPM, 60 Hz	110.2 SCFM
Power @ 290 PSIG, 1170 RPM, 60 Hz	33.1 hp
Flow @ 290 PSIG, 1170 RPM, 60 Hz	73.3 SCFM
Power @ 290 PSIG, 1770 RPM, 60 Hz	50.4 hp
Flow @ 290 PSIG, 1770 RPM, 60 Hz	106.6 SCFM
Power @ 435 PSIG, 1170 RPM, 60 Hz	34.9 hp
Flow @ 435 PSIG, 1170 RPM, 60 Hz	70.8 SCFM
Power @ 435 PSIG, 1770 RPM, 60 Hz	53.1 hp
Flow @ 435 PSIG, 1770 RPM, 60 Hz	103.0 SCFM

# WP 240 Water Cooled Compressor



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## [SPECIFICATIONS](#) · [FLOW AND POWER](#)

### SPECIFICATIONS

Stages/Cylinders	2/2
Operating Pressure Range	100 to 435 psi
Required Power @ 1150 RPM, 60 Hz	38.8 to 43.1 hp
Capacity F. A. D. @ 1150 RPM, 60 Hz	86 to 92.4 SCFM
Required Power @ 1770 RPM, 60 Hz	58.8 to 65.4 hp
Capacity F. A. D. @ 1770 RPM, 60 Hz	124 to 133.5 SCFM
Motor Rating @ 1170 RPM, 60 Hz	40 hp
Motor Rating @ 1770 RPM, 60 Hz	60 hp
Current @ 460 Volts @ 1170 RPM, 60 Hz	47.1 Amps
Current @ 460 Volts @ 1770 RPM, 60 Hz	67 Amps
Current @ 230 Volts @ 1770 RPM, 60 Hz	94.2 Amps
Current @ 230 Volts @ 1170 RPM, 60 Hz	134 Amps
Weight @ 1170 RPM, 60 Hz	1870 Pound
Weight @ 1770 RPM, 60 Hz	1870 Pound
Noise level @ 3 ft, 1170 RPM (60Hz)	84 dB(A)
Noise level @ 3 ft, 1770 RPM (60Hz)	89 dB(A)
Heat dissipation to water @ 1170 RRM, 60Hz	109,000 Btu/hr
Heat dissipation to water @ 1770 RRM, 60Hz	160,000 Btu/hr

Heat dissipation to ambient @ 1170 RRM, 60Hz	24,000 Btu/hr
Heat dissipation to ambient @ 1770 RRM, 60Hz	34,000 Btu/hr
Cooling Air Needed @ 1170 RPM, 60 Hz	12.4 GPM
Cooling Air Needed @ 1770 RPM, 60 Hz	18.2 GPM
Residual oil content at gas outlet (without filtration)	
Delta temperature (gas outlet vs. ambient) @ 1170 RPM, 60 Hz	45 °F
Delta temperature (gas outlet vs. ambient) @ 1770 RPM, 60 Hz	59 °F
Operational ambient temperature range	40-120 °F
Oil Sump Capacity	12.2 Quarts
Overall Dimensions ( L x W x H )	60 X 40 X 35 Inch
Cooling Method	Water- Cooled
Drive Type	Direct Drive

## FLOW AND POWER

Power @ 145 PSIG, 1170 RPM, 60 Hz	38.8 hp
Flow @ 145 PSIG, 1170 RPM, 60 Hz	92.0 SCFM
Power @ 145 PSIG, 1770 RPM, 60 Hz	58.8 hp
Flow @ 145 PSIG, 1770 RPM, 60 Hz	133.5 SCFM
Power @ 290 PSIG, 1170 RPM, 60 Hz	40.9 hp
Flow @ 290 PSIG, 1170 RPM, 60 Hz	89.0 SCFM
Power @ 290 PSIG, 1770 RPM, 60 Hz	62.1 hp
Flow @ 290 PSIG, 1770 RPM, 60 Hz	129.1 SCFM
Power @ 435 PSIG, 1170 RPM, 60 Hz	43.1 hp
Flow @ 435 PSIG, 1170 RPM, 60 Hz	86.0 SCFM
Power @ 435 PSIG, 1770 RPM, 60 Hz	65.4 hp
Flow @ 435 PSIG, 1770 RPM, 60 Hz	124.8 SCFM

# WP 400 Water Cooled Compressor



## The Alternative to Air-Cooled Compressors

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## [SPECIFICATIONS](#) · [FLOW AND POWER](#)

### SPECIFICATIONS

Stages/Cylinders	2/3
Operating Pressure Range	100 to 435 psi
Required Power @ 1150 RPM, 60 Hz	63 to 70 hp
Capacity F. A. D. @ 1150 RPM, 60 Hz	153 to 164 SCFM
Required Power @ 1770 RPM, 60 Hz	98.4 to 109.3 hp
Capacity F. A. D. @ 1770 RPM, 60 Hz	217 to 231 SCFM
Motor Rating @ 1170 RPM, 60 Hz	70 hp
Motor Rating @ 1770 RPM, 60 Hz	125 hp
Current @ 460 Volts @ 1170 RPM, 60 Hz	86.8 Amps
Current @ 460 Volts @ 1770 RPM, 60 Hz	138 Amps
Current @ 230 Volts @ 1770 RPM, 60 Hz	173.3 Amps
Current @ 230 Volts @ 1170 RPM, 60 Hz	276 Amps
Weight @ 1170 RPM, 60 Hz	2970 Pound
Weight @ 1770 RPM, 60 Hz	2970 Pound
Noise level @ 3 ft, 1170 RPM (60Hz)	87 dB(A)
Noise level @ 3 ft, 1770 RPM (60Hz)	92 dB(A)
Heat dissipation to water @ 1170 RRM, 60Hz	160,000 Btu/hr
Heat dissipation to water @ 1770 RRM, 60Hz	266,000 Btu/hr

Heat dissipation to ambient @ 1170 RRM, 60Hz	34,000 Btu/hr
Heat dissipation to ambient @ 1770 RRM, 60Hz	58,000 Btu/hr
Cooling Air Needed @ 1170 RPM, 60 Hz	18.2 GPM
Cooling Air Needed @ 1770 RPM, 60 Hz	30.6 GPM
Residual oil content at gas outlet (without filtration)	
Delta temperature (gas outlet vs. ambient) @ 1170 RPM, 60 Hz	32 °F
Delta temperature (gas outlet vs. ambient) @ 1770 RPM, 60 Hz	41 °F
Operational ambient temperature range	40-120 °F
Oil Sump Capacity	14.3 Quarts
Overall Dimensions ( L x W x H )	71 X 46 X 43 Inch
Cooling Method	Water- Cooled
Drive Type	Direct Drive

## FLOW AND POWER

Power @ 145 PSIG, 1170 RPM, 60 Hz	63.0 hp
Flow @ 145 PSIG, 1170 RPM, 60 Hz	164.0 SCFM
Power @ 145 PSIG, 1770 RPM, 60 Hz	98.4 hp
Flow @ 145 PSIG, 1770 RPM, 60 Hz	231.6 SCFM
Power @ 290 PSIG, 1170 RPM, 60 Hz	66.5 hp
Flow @ 290 PSIG, 1170 RPM, 60 Hz	158.6 SCFM
Power @ 290 PSIG, 1770 RPM, 60 Hz	103.8 hp
Flow @ 290 PSIG, 1770 RPM, 60 Hz	224.0 SCFM
Power @ 435 PSIG, 1170 RPM, 60 Hz	70.0 hp
Flow @ 435 PSIG, 1170 RPM, 60 Hz	153.3 SCFM
Power @ 435 PSIG, 1770 RPM, 60 Hz	109.3 hp
Flow @ 435 PSIG, 1770 RPM, 60 Hz	216.5 SCFM



# WP 3100 Water Cooler Compressor



## The Alternative to Air-Cooled Compressors

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## [SPECIFICATIONS](#) · [FLOW AND POWER](#)

### SPECIFICATIONS

Stages/Cylinders	3/3
Operating Pressure Range	500 to 1450 psi
Required Power @ 1150 RPM, 60 Hz	46.9 to 55 hp
Capacity F. A. D. @ 1150 RPM, 60 Hz	77.1 SCFM
Required Power @ 1770 RPM, 60 Hz	75.1 to 83.1 hp
Capacity F. A. D. @ 1770 RPM, 60 Hz	111.8 SCFM
Motor Rating @ 1170 RPM, 60 Hz	60 hp
Motor Rating @ 1770 RPM, 60 Hz	100 hp
Current @ 460 Volts @ 1170 RPM, 60 Hz	70.1 Amps
Current @ 460 Volts @ 1770 RPM, 60 Hz	115 Amps
Current @ 230 Volts @ 1770 RPM, 60 Hz	140.2 Amps
Current @ 230 Volts @ 1170 RPM, 60 Hz	230 Amps
Weight @ 1170 RPM, 60 Hz	2970 Pound
Weight @ 1770 RPM, 60 Hz	2970 Pound
Noise level @ 3 ft, 1170 RPM (60Hz)	90 dB(A)
Noise level @ 3 ft, 1770 RPM (60Hz)	85 dB(A)
Heat dissipation to water @ 1170 RRM, 60Hz	133,000 Btu/hr
Heat dissipation to water @ 1770 RRM, 60Hz	198,000 Btu/hr
Heat dissipation to ambient @ 1170 RRM, 60Hz	31,000 Btu/hr

Heat dissipation to ambient @ 1770 RRM, 60Hz	44,000 Btu/hr
Cooling Water Needed @ 1170 RPM, 60 Hz	15.1 GPM
Cooling Water Needed @ 1770 RPM, 60 Hz	22.5 GPM
Residual oil content at gas outlet (without filtration)	
Delta temperature (gas outlet vs. ambient) @ 1170 RPM, 60 Hz	29 °F
Delta temperature (gas outlet vs. ambient) @ 1770 RPM, 60 Hz	36 °F
Operational ambient temperature range	40-120 °F
Oil Sump Capacity	14.3 Quarts
Overall Dimensions ( L x W x H )	69 X 46 X 42 Inch
Cooling Method	Water- Cooled
Drive Type	Drive Type

## FLOW AND POWER

Power @ 145 PSIG, 1170 RPM, 60 Hz	49.6 hp
Flow @ 145 PSIG, 1170 RPM, 60 Hz	83.7 SCFM
Power @ 145 PSIG, 1770 RPM, 60 Hz	75.0 hp
Flow @ 145 PSIG, 1770 RPM, 60 Hz	122.9 SCFM
Power @ 290 PSIG, 1170 RPM, 60 Hz	52.2 hp
Flow @ 290 PSIG, 1170 RPM, 60 Hz	79.8 SCFM
Power @ 290 PSIG, 1770 RPM, 60 Hz	79.0 hp
Flow @ 290 PSIG, 1770 RPM, 60 Hz	117.1 SCFM
Power @ 435 PSIG, 1170 RPM, 60 Hz	54.6 hp
Flow @ 435 PSIG, 1170 RPM, 60 Hz	81.3 SCFM
Power @ 435 PSIG, 1770 RPM, 60 Hz	82.6 hp
Flow @ 435 PSIG, 1770 RPM, 60 Hz	116.8 SCFM