

## 8500 Series - Shallow Well

A.Y. McDonald offers a full line of shallow well and convertible jet pumps built for years of trouble free operation, with high-efficiency impellers and diffusers. The 8500 series shallow well capacity is up to 25 gallons per minute (GPM) and pressures to 80 PSI.

All 8500 Series Shallow Well Pumps come with a 1 1/4" suction pipe and 1" top or side discharge. The sizes range from 1/3 to 1 horse power (HP).

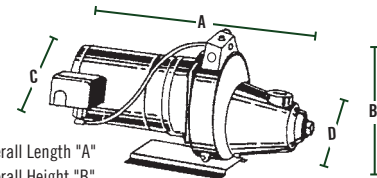
### Features:

- Square Flange Motor 7/16" - 20 Threads
- Pressure switch factory settings:  
 1/3 and 1/2 HP High Capacity = 20-40 PSI  
 1/3 and 1/2 HP High Pressure = 30-50 PSI  
 All 3/4 and 1 HP = 30-50 PSI
- \* Maximum Amp. Draw at factory voltage setting.



### Models Available High Capacity

Model No.	HP	Volt	*Max. Amps	Impeller	A	B	C	D	WT
8530	1/3	<b>115/230</b>	10.6	plastic	19.5"	10"	10.5"	8"	38
8531	1/3	<b>115/230</b>	10.6	brass	19.5"	10"	10.5"	8"	40
8550	1/2	<b>115/230</b>	12.0	plastic	20"	10"	10.5"	8"	43
8551	1/2	<b>115/230</b>	12.0	brass	20"	10"	10.5"	8"	44
8570	3/4	<b>230/115</b>	7.6	plastic	20.2"	10"	10.5"	8"	43
8571	3/4	<b>230/115</b>	7.6	brass	20.2"	10"	10.5"	8"	45
8510	1	<b>230/115</b>	9.2	plastic	20.6"	10"	10.5"	8"	45
8511	1	<b>230/115</b>	9.2	brass	20.6"	10"	10.5"	8"	47



Overall Length "A"  
 Overall Height "B"  
 Overall Width with Pressure Switch "C"  
 Overall Width without Pressure Switch "D"  
 \*See table to left for dimensions.

### High Pressure

Model No.	HP	Volt	*Max. Amps	Impeller	A	B	C	D	WT
8530HP	1/3	<b>115/230</b>	10.6	plastic	19.5"	10"	10.5"	8"	41
8531HP	1/3	<b>115/230</b>	10.6	brass	19.5"	10"	10.5"	8"	42
8550HP	1/2	<b>115/230</b>	12.0	plastic	20"	10"	10.5"	8"	44
8551HP	1/2	<b>115/230</b>	12.0	brass	20"	10"	10.5"	8"	42
8570HP	3/4	<b>230/115</b>	7.6	plastic	20.2"	10"	10.5"	8"	44
8571HP	3/4	<b>230/115</b>	7.6	brass	20.2"	10"	10.5"	8"	44
8510HP	1	<b>230/115</b>	9.2	plastic	20.6"	10"	10.5"	8"	45
8511HP	1	<b>230/115</b>	9.2	brass	20.6"	10"	10.5"	8"	47

Factory Voltage Setting listed first in bold type.

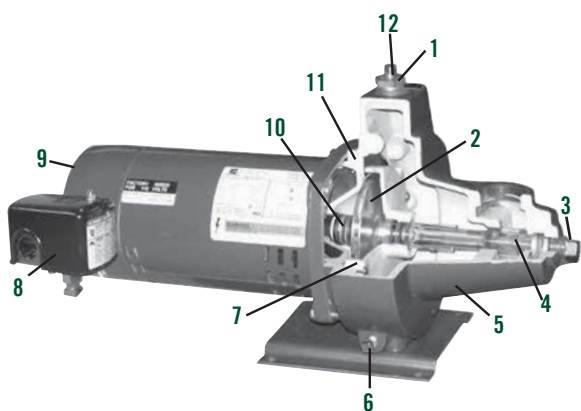
# 8500 Series - Shallow Well

## 8500 Series - High Capacity | Shallow Well

Model No.	HP	Suction Lift - Ft.	Capacities in GPM at Discharge Pressure (PSI)				MAX Shut Off Pressure
			20	30	40	50	
8530	1/3	5	12.6	12.6	7.4	2.5	57
8531		15	10.0	10.0	6.0	1.3	
		25	5.8	5.8	2.7	--	
8550	1/2	5	15.6	15.6	8.6	2.3	58
8551		15	11.7	11.7	6.5	1.2	
		25	6.6	6.6	4.7	--	
8570	3/4	5	18.8	18.8	16.2	8.8	61
8571		15	14.4	14.4	12.3	3.9	
		25	8.6	8.6	7.3	2.7	
8510	1	5	24.2	24.0	23.0	15	64
8511		15	20.1	18.6	18.4	10.9	
		25	11.6	11.4	11.3	4.7	

## 8500 Series - High Pressure | Shallow Well

Model No.	HP	Suction Lift - Ft.	Capacities in GPM at Discharge Pressure (PSI)					MAX Shut Off Pressure
			30	40	50	60	70	
8530HP	1/3	5	6.7	6.1	4.3	2.3		70
8531HP		15	4.8	4.6	3.3	1.1		
		25	3.0	2.9	2.1			
8550HP	1/2	5	7.6	7.1	5.7	2.7		74
8551HP		15	5.5	5.4	4.3	2.0		
		25	3.7	3.6	2.9			
8570HP	3/4	5	9.4	9.4	7.8	4.2		75
8571HP		15	7.0	7.0	5.9	2.9		
		25	4.6	4.6	3.8	2.1		
8510HP	1	5	13.4	13.4	12.7	9.2	3.0	80
8511HP		15	10.0	10.0	9.4	6.5	2.4	
		25	6.2	6.2	6.0	4.3	1.8	



- 1 - Zinc Plated Plug**  
(With Pressure Gauge Tap and 1/4" plug in side discharge, see picture above)
- 2 - Impeller**  
Available in engineered polycarbonate thermoplastic
- 3 - Zinc Plated Nozzle Cleanout Plug**
- 4 - Nozzle-Venturi (jet Ejector) Assembly**  
Unitized construction made of non-distorting Polycarbonate with excellent heat resistance
- 5 - Cast Iron Pump Body**
- 6 - Drain Plug**
- 7 - Diffuser**  
Multi-volute engineered thermoplastic diffuser for maximum capacity and pressure
- 8 - Pressure Switch**  
Easily adjusted for higher or lower operating pressures
- 9 - High Service Factor, Capacitor Start, Threaded Shaft, Square Flange Motor**  
Built to specifications by nationally known manufacturers to assure local service availability. Choice of 1/3, 1/2, 3/4 and 1 H.P. 50 Hz. or 60 Hz.
- 10 - Shaft Seal**  
Standard 5/8" ceramic carbon rotating mechanical seal
- 11 - Thermoplastic Seal / Condensation Plate**  
Provides air gap between motor and water chamber
- 12 - Discharge**  
1" Top or 3/4" Side discharge