

# COMPLETE

# SYSTEM

R.E. PRESCOTT CO., INC.

*PROFESSIONALLY ENGINEERED  
FIVE YEAR WARRANTY*



## *Well Pump & Equipment Specification*



Professionally Engineered Water Systems



# COMPLETE

# SYSTEM

R.E. PRESCOTT CO., INC.  
PROFESSIONALLY ENGINEERED  
FIVE YEAR WARRANTY

## Part 1 – General

### 1.01 Description

A. Work included: Furnish, install and test a PROFESSIONALLY ENGINEERED COMPLETE SYSTEM as furnished by R.E. Prescott Co., Inc., including submersible well pump, pump overload control panel, pipe, wire, well pak, tank and tank pak as specified herein and as shown.

### 1.02 Quality Assurance

- A. Only qualified, thoroughly trained and experienced personnel who are completely familiar with well pump system installation, maintenance and service shall be involved with this work.
- B. The COMPLETE SYSTEM products shall be covered by a 5 year warranty.
- C. The COMPLETE SYSTEM shall be designed by and have a Professional Engineers stamp of approval.

**One Name, One Brand**  
**Same Service - Same Quality**  
**Since 1856**

A.Y. McDonald Mfg. Co. has been in the pump business for over 147 years. We've made a serious commitment to the industry in terms of facilities, equipment and quality people. But don't take our word for it - place an order today and find out how we can make your job easier!

**A.Y. McDonald Mfg. Co.**  
www.aymcdonald.com

## Part 2 – Products

### 2.01 A.Y. McDonald Submersible Well Pump



- A. The well pump shall be A.Y. McDonald Mfg. J or K series pump. The pump shall have stainless steel or bronze suction and discharge header and internal or external check valve; stainless steel pump shell, cable guard and a 7/16" diameter hex pump shaft. Pump shaft shall be threaded at top with stainless steel nut for impeller and bowl retaining, snap ring retainers and free floating designs are unacceptable. Pump assembly shall be completely field serviceable, one piece throw-away pumps are unacceptable.

### 2.02 Well-pak™

Simmons

- A. The Well-pak shall consist of 4-solderless connectors with clear heat shrink tubing; 4-1" red brass insert male adapters; 10-1" stainless steel clamps by Ideal, #6816; 1-torque arrestor made with FDA approved PVC; 2-rolls 3/4" x 60' electrical type; 1-1" brass pitless adapter by Simmons Mfg. McDonough, GA Model 1840; 1-6" watertite cap shall be 2 piece, cast iron construction with a grounding lug connection, manufactured by Baker Mfg. Co. Evansville, WI and 1-1" galvanized steel insert male adapter.





## 2.03 Pump Guard Control Panel

- A. The control panel shall provide resettable overload protection to guard the pump against lightning, waterlogged tank and chaffed wire. Control panel shall have on/off switch with lock out, power on light, pump run light and overload protection signal for ease of monitoring and servicing system. Circuit breaker panels which do not provide overload protection and fuse panels which are not resettable are not acceptable. Pump control panel shall be Pump Guard by R.E. Prescott Co., Inc. Exeter, N.H.



## 2.04 Wire

- A. The submersible wire shall be of the single conductor type featuring a ground conductor. Wire shall be twisted solid, type TW. Each conductor shall be color coded for identification.

## 2.05 Well Pipe

- A. The well pipe shall be 1" IPS polyethylene, conforming to ASTM #2239 and be rated 160 or 200 PSI w.p. for water lines and 100 PSI for electrical conduit and vent as codes allow. Pipe shall be guaranteed for 300 foot pumping level for 160 PSI w.p. and 400 foot pumping level for 200 PSI w.p. with 50 PSI at tank.



## 2.06 Well-Rite Well Tank



- A. The well tank shall be sized for pump on/off cycle of not less than 1 minute to eliminate short cycling of pump for long pump life. Tank shall insulate water within double diaphragm of high grade FDA approved butyl for better tasting water and less sweating. Bag liners or coatings are unacceptable. Threaded water connection shall be stainless steel union, rusting black iron or breakable plastic connections are unacceptable. Tank shall be Well-Rite On-Line model WR-80 OL or WR-120 OL by Flexcon Industries, Randolph, MA.

## 2.07 Tank-pak™

- A. The Tank-pak shall consist of 1-1" high grade bronze line check valve by Simmons Mfg., McDonough, GA Model 503-58; 1-1" On-Line red brass tank tee; 1-1/2" brass 75 PSI relief valve; 1-1/2" Boiler Drain; 8FT-1/4" OD copper tubing with 1/4" compression fittings; 1-1/4" LM 100 PSI, 2 inch dial pressure gauge, 1-1 X 3/4" red brass union elbow and 1-3/4" 600 WOG full port ball valve.

# Part 3 – Execution

## 3.01 Installation

- A. The installation is to be by a qualified pump installer familiar with water well systems and service.
- B. Install the products with all appurtenances in accordance with the COMPLETE SYSTEM's written instructions.
- C. Fill out COMPLETE SYSTEM warranty on line at [www.represcott.com](http://www.represcott.com)

A.Y. McDONALD		50K2 (2W)			50J2			75K2			75J2			100K2			100J2		
PUMP MODEL:		50K3 (3W)			50J3			75K3			75J3			100K3			100J3		
DESCRIPTION:		1/2 hp – 10 gpm			1/2 hp – 5 gpm			3/4 hp – 10 gpm			3/4 hp – 5 gpm			1 hp – 10 gpm			1 hp – 5 gpm		
OFFSET FEET:		50'	100'	150'	50'	100'	150'	50'	100'	150'	50'	100'	150'	50'	100'	150'	50'	100'	150'
PUMP SETTING	100' 2w	1574	1617	1705	1589	1632	1646	1701	1708	1842									
	100' 3w	1602	1649	1740	1619	1666	1682	1724	1735	1862									
	200' 2w	1653	1696	1784	1677	1711	1724	1780	1787	1911	1851	1904	1993	1843	1888	1977	2139	2184	2274
	200' 3w	1687	1734	1824	1704	1750	1767	1809	1820	1946	1880	1945	2038	1866	1915	2009	2162	2212	2305
	300' 2w	1732	1788	1877	1747	1803	1818	1870	1879	2004	1941	1986	2111	1925	2031	2128	2221	2328	2424
	300' 3w	1772	1842	1936	1789	1859	1878	1915	1928	2058	1986	2035	2129	1957	2086	2190	2253	2383	2486
	400' 2w				1920	1965	1980	2032	2117	2249	2103	2224	2321	2155	2207	2304	2452	2504	2601
	400' 3w				1980	2030	2049	2086	2198	2338	2156	2305	2409	2217	2276	2379	2514	2572	2676

How it works

Pricing

Select from the above chart the appropriate McDonald pump for the application. Choose the column for the offset and the row for the pump setting. The price for the 2-wire COMPLETE SYSTEM™ is on the top and the price for the 3-wire COMPLETE SYSTEM™ is on the bottom.

Order Numbering:

**50K – 100 – 100**

PUMP MODEL – OFFSET – SETTING

What you get<sup>3</sup>

- 5-Year Warranty
- 1 - A.Y. McDonald Pump
- 1 - Well-Rite Water System Tank
- 1 - PUMP GUARD™ Control Panel
- 1 - Well-pak™
- 1 - Tank-pak™
- Submersible Pump Cable<sup>1</sup>
- 1" 160 PSI Polyethylene Coil Pipe<sup>2</sup>

1 Wire Length is the sum of the setting, offset and 20 ft. extra.  
 2 Pipe lengths are based on full coils to highest 100 foot increment. 200 PSI drop pipe on depths beyond 300 foot pump settings. 100 PSI for conduit and vent.  
 3 Pricing does not include labor.

Why you want it

**IT'S GUARANTEED!**

The COMPLETE SYSTEM is so well designed that it is backed by a 5 year limited warranty on every component.

CONTACT YOUR LOCAL DEALER

