

1/3 - 1-1/2 HP



Up to 1800 GPH with up to 90 PSI



Service Plus F&W Motors

"Service Plus" means top reliability plus quick access to all electrical components.

Routine maintenance is simplified through the convenient mounting of electrical components. Removal of the rear access cover exposes components for fast replacement. Spade connectors enable guick hookup and voltage change.

Rear access cover

Directs ventilating air over the windings and bearings, and away from the switch mechanism. All electrical components are protected from dirt, dust and insects.

Quality-wound double insulated stator

Uses nylon over coated wire with an additional varnish dip to insure against moisture penetration. Class B wire insulation rated for 266°F.

Permanently lubricated ball bearings

Located on each end of the motor insuring alignment of the dynamically balanced rotor for smooth operation and extended motor life.

Fully enclosed transfer switch

Mounted on a UL recognized thermo-set plastic board utilizes spark quenching and extra large silver cadmium oxide contact points.

Patented governor

Features an advanced simplified design, using a stainless steel compression spring to insure proper motor RPM before switching from start to run windinas.

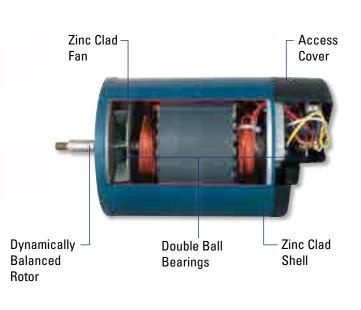
Zinc clad steel shell and cooling fan Resist corrosion and dissipate motor heat.

Automatic overload

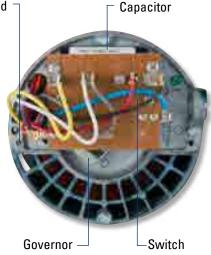
Senses both start and run winding heat to ensure complete winding protection.

"Service Plus" motors

Manufactured by Flint & Walling, Inc. in Kendallville, IN, USA—An industry exclusive among jet pump manufacturers.



Overload





FLINT & WALLING

EK, CPJ, CPH Product Features

High tensile gray iron pump bodies

Large water cavities provide fast, easy priming. Separate priming ports enable quick water fill and the fast evacuation of air. Separate 1/4" tappings are provided for the convenient mounting of pressure/vacuum gauges and the pressure switch, and for pump draining.

Buna-n Square cut ring

Reusable — provides a positive seal between the pump case and motor bracket.

Molded diffusers

Corrosion and abrasion resistant, provide precision alignment with the impeller for maximum performance. The snapin diffuser design uses no bolts and is held in place by compression.

Impellers —

Precision balanced, these impellers are ultra-smooth for high efficiency. 1/3 through 1 HP CPJ, CPH, and EK models feature molded thermoplastic impellers. 1-1/2 HP CPJ models feature brass impellers.

EK SHALLOW WELL JET PUMPS -1/2, 3/4 and 1 HP

Includes: Pump, Motor, Pressure Switch and Ejector.

NOTE: EK05S and EK07S feature built-in ejector - no assembly required. EK10S ejector requires assembly.

Product may not be exactly as shown

		0		Discharge Pr	essures (PSI)		Shut Off	Constitute 0	Durana Caritak	Pump
Model	HP	Suction Lift. Ft.	20	30	40	50	Pressure @ 0	Suction &	Pressure Switch	Shipping
		LIII. FI.	CAPA	CITY - U.S. GA	LLONS PER MI	NUTE	Lift (PSI)	Discharge	Setting - PSI	Weight
		5	10.5	9.5	5.8	4.0				
EK05S	1/2	15	7.6	7.3	4.5	2.5	60	1-1/4" x 3/4"	20-40	40
		25	4.5	4.2	3.5	2.0				
		5	15.5	15.0	10.0	5.8				
EK07S	3/4	15	11.9	11.7	9.1	3.8	65	1-1/4" x 3/4"	30-50	41
		25	6.0	5.8	5.2	2.0				
		5	20.0	20.0	19.5	18.3	65			
EK10S	1	15	15.8	15.5	15.0	14.5	60	1-1/4″ x 1″	30-50	51
		25	10.0	9.7	9.5	9.0	55			

Maximum Pump Case Pressure = 150 PSI

Pipe plugs and priming plugs

Coated with a non-hardening, non-toxic, non-corrosive material which allows for easy removal even after the pump has been in service for vears.

Standard shaft seal

Silicon carbide face is self-adjusting throughout the seal life. One size fits all models.

CPH and EK Patented uni-frame motor bracket

Unique to the water systems industry — designed to accept any NEMA J motor if motor replacement is ever necessary.

Automatic overload

Senses both start and run winding heat to ensure complete winding protection.

CPJ models

Feature NEMA J motors. All motors are dual voltage, capacitor start with automatic thermal overload protection.



EK SHALLOW WELL CAPACITIES



CPHS SERIES - 1/2, 3/4 and 1 HP

Includes: pump, motor, pressure switch and shallow well ejector.



CPJS SERIES - 1/3, 1/2, 3/4, 1 and 1-1/2 HP

Includes: pump, motor, pressure switch and shallow well ejector.

Product may not be exactly as shown



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SW Single Pipe Shallow Well Ejector

				D	ischarg	e Pressi	ures (PS)		Desserves	Ch 0#	D
Model	НР	Ejector*	Suction	20	30	40	50	60	Suction &	Pressure	Shut Off	Pump
No.	пр	Assembly	Lift Ft.	CAF		U.S. GA		PER	Discharge	Switch Setting	Pressure PSI	Shipping Weight
CPJ03SB	1/3	SW03E-1626	5 15 25	11.3 8.7 5.3	10.7 8.5 5.3	9.5 7.8 5.2	6.7 5.3 4.2		1-1/4″ X 3/4″	30-50	74 69 65	49
CPJ05SB CPH05S	1/2	SW05E-1630	5 15 25	17.2 12.8 7.7	16.8 12.7 7.5	14.8 12.2 7.2	10.0 7.7 5.3		1-1/4" X 3/4"	30-50	69 64 60	50 43
CPJ07SB CPH07S	3/4	SW07E-1432	5 15 25	19.8 15.5 9.8	19.5 15.2 9.5	19.2 14.8 9.3	18.0 14.2 8.8		1-1/4" X 1"	30-50	65 60 55	58
CPJ10SB CPH10S	1	SW10E-1334	5 15 25	23.7 18.3 11.7	23.5 18.3 11.7	23.3 18.2 11.5	23.0 18.0 11.3		1-1/4" X 1"	30-50	70 65 58	62 53
CPJ15S	1-1/2	SW15E-1238	5 15 25	30.0 24.0 15.0	29.8 23.8 15.0	29.8 23.7 15.0	29.8 23.5 14.8	23.3 18.7 8.0	1-1/4″ X 1″	30-50	77 72 63	72

CPJS AND CPHS SHALLOW WELL PERFORMANCE WITH SHALLOW WELL EJECTORS

Maximum Pump Case Pressure = 150 PSI



CPH SERIES - 1/2, 3/4 and 1 HP

- Includes: pump, motor and pressure switch. Order ejector, control package and pressure gauge separately.
- *Add "R" to end of model number to include 134349 control package with pump.

CPJ SERIES - 1/2, 3/4, 1 and 1-1/2 HP

Includes: pump, motor, pressure switch and pressure regulator. Order ejector and pressure gauge separately.

Product may not be exactly as shown

See pages 6 & 7 for performance charts on the following models:

CPJ05B	CPJ10B
CPH05	CPH10
CPH05R†	CPH10R†
CPJ07B	CPJ15
CPH07	
CPH07R†	







134349 Control Package*

Order Separately for Deep Well Applications.





		CPJ A	ND CPH SH	ALLOW	NELL	CAPA	CITIES	WITH	I CON	VERTI	BLE E	JECTO	R			
			F ireday	0		D	ischa	rge Pr	essur	es (PS	I)		C	Pressure	Shut Off	Pump
	Model No.	HP	Ejector Assembly	Suct. Lift Ft.	20	30	40	50	60	70	80	90	Suction & Discharge	Switch	Pressure	Ship
					C/	APACI	TY - U	S. GA	LLON	S PER	MINU	TE	3 -	Setting	PSI	Weight
			DW40E-1730	5 15	14.8 11.8	14.5 11.3	13.2 11.2	10.0 8.3	6.7 5.0				1-1/4″ X 3/4″	30-50	76 72	
	CPJ05B	1/2	D VV40E-1730	25	7.3	7.2	7.0	6.5	3.3				1-1/4 A 3/4	30-50	67	46
Const of the local division of the	CPH05 CPH05R†	1/2	DW40E-1828	5 15	12.0 9.0	11.5 8.8	11.3 8.7	10.2 8.5	7.8 6.7	5.0 4.2			1-1/4″ X 3/4″	30-50	90 85	38
the second second			D VV40L-1020	25	5.3	5.3	5.2	5.2	5.0	3.3			1-1/4 / 3/4	30-30	80	
			DW40E-1630	5 15	16.0	15.7	15.5	15.0	10.3				1-1/4″ X 1″	30-50	75 72	
	CPJ07B	0.0	DVV40E-1630	25	12.5 8.3	12.3 8.3	12.3 8.2	12.2 8.0	7.0 4.2				1-1/4 X I	30-50	66	50
	CPH07 CPH07R†	3/4	DIA/405 4700	5	10.2	10.0	9.7	9.5	9.3	9.2	7.5	5.7		00.50	120	56
DW40E Cast Iron Two			DW40E-1726	15 25	8.0 4.8	7.5 4.7	7.3 4.5	7.3 4.3	7.2 4.2	7.2 4.2	6.7 4.2	5.0 3.3	1-1/4" X 1"	30-50	115 110	
Pipe Convertible				5	20.8	20.8	20.5	20.3	15.8						80	
Ejector	CPJ10B		DW40E-1634	15 25	16.7 11.7	16.7 11.5	16.3 11.3	16.2 11.2	13.0 9.3				1-1/4" X 1"	30-50	75 70	58
	CPH10 CPH10R†	1		5	12.2	11.7	11.7	11.3	11.2	11.2	10.8	8.0			125	49
			DW40E-1828	15 25	9.5 5.7	9.2 5.5	9.0 5.3	8.8 5.2	8.8 5.0	8.8 5.0	8.7 5.0	6.7 5.0	1-1/4' x 1"	30-50	120 115	
				5	23.8	23.3	23.3	23.0	18.7	13.8	8.3				93	
	CPJ15	1-1/2	DW40E-1736	15 25	18.0 11.0	17.8 10.7	17.5 10.7	17.3 10.5	16.3 10.3	11.7 8.3	6.0 2.0		1-1/4" x 1"	30-50	88 82	66
															-	

†"R" models include pressure switch and 134349 control package. Order ejector separately. Maximum Pump Case Pressure = 150 PSI

NOTE: The DW40E ejector can be bolted to the pump as a shallow well ejector or submerged in casing as a convertible deep well ejector.

10	Model		Ejector	Min.	Disch.							nce to							Press.	
	No.	HP	Assembly	Oper.	Press.	20	30	40	50	60	70	80		_		120	130	140	Switch	
and the second se				Press.	PSI				;APA(SITY -	U.S.	GALLO	JNS P	ER M	INUT	E			Setting	Wt.
			DW40E-1730	25	30 50 Shut Off	12.5 5.5 67	10.8 3.7 63	8.7 2.0 57											30-50	
	CPJ05B CPH05	1/2	DW40E-1828	25-28	30 50 Shut Off	11.2 6.7 75	10.8 5.5 69	8.8 3.8 64	7.2 2.3 59	5.0 0.8 54									30-50	46 38
			DW40E-1622	30	30 50 Shut Off			6.7 4.3 91	6.0 3.8 86	5.3 3.3 80	4.3 2.5 74	3.3 1.7 68	2.5 0.8 60						30-50	
/40E Cast			DW40E-1630	35-37	30 50 Shut Off	16.7 12.5 75	14.2 8.3 70	12.2 5.0 65	8.3 2.5 59										30-50	
n Two Pipe vertible	CPJ07B CPH07	3/4	DW40E-1726	37-39	30 50 Shut Off	11.7 9.2 98	11.7 9.2 91	11.5 8.21 86	10.3 7.0 80	9.0 5.7 74	7.7 4.3 69	6.2 3.2 65	4.8 1.7 58						30-50	56
ctor			DW40E-1520	39	30 50 Shut Off							5.0 3.7 105	4.8 3.3 95	4.3 3.0 90	3.7 2.7 85	3.2 2.0 80	2.7 1.8 75		30-50	
			DW40E-1634	46	30 50 Shut Off	19.2 10.0 71	15.0 7.5 66	11.7 5.0 62	8.3 2.5 57										30-50	
	CPJ10B CPH10	1	DW40E-1828	46-47	30 50 Shut Off	13.0 12.0 110	13.0 12.0 105	12.8 10.8 99	12.5 9.5 93	10.5 7.8 87	9.0 6.2 81	7.5 5.0 76	5.8 3.5 70	4.0 2.0 64					30-50	58 49
			DW40E-1520	46-47	30 50 Shut Off							5.5 5.2 130	5.5 4.7 123	5.0 4.2 117	4.5 3.7 110	3.8 3.2 104	3.5 2.7 98	2.7 2.2 92	30-50	
			DW40E-1736	46-52	30 50 Shut Off	21.7 15.0 80	17.5 11.7 76	13.3 8.3 71	10.0 5.0 65	6.7 2.7 60									30-50	
	CPJ15	1-1/2	DW40E-1728	50-53	30 50 Shut Off			12.8 11.7 105	12.5 11.3 98	10.7 9.7 92	9.0 7.8 87	7.7 6.7 82	6.2 5.0 77	5.0 3.3 72	3.5 2.5 65				30-50	66
			DW40E-1520	52-54	30 50 Shut Off							5.3 5.2 135	5.3 5.0 128	5.2 4.7 123	5.0 4.2 118	4.3 3.8 112	3.8 3.3 105	3.3 2.8 100	30-50	

Maximum Pump Case Pressure = 150 PSI, * Suction & pressure pipe tapping 1-1/4" x 1"



CPJ and CPH Performance with 2" Single Pipe Ejector

				Min.	Disch.				1	Vertic	al Die	stance	to M	later i	n Foo	+				Press.	Pum
	Model	HP	Ejector	Oper.	Press.	20	30	40	50	60	70	80	90				130	140	150	Switch	Ship
9	No.		Assembly	Press.	PSI							S. GA								Setting	Wt
			SP20BL-1730†	27	30 50 Shut Off	10.8 5.0 65	9.2 3.3 60	7.5 1.7 55												30-50	
	CPJ05B CPH05	1/2	SP20BL-1828†	27-30	30 50 Shut Off	11.7 6.7 76	9.7 4.7 68	7.5 2.8 60	5.8 1.2 55	3.8 51										30-50	46 38
			SP20BL-1622†	31	30 50 Shut Off			6.2 4.2 90	5.8 3.7 83	5.0 2.8 76	4.0 2.2 70	3.3 1.3 61	2.3 0.3 55							30-50	
5			SP20BL-1630†	39	30 50 Shut Off	16.2 11.7 75	7.5 70	10.8 5.0 65	7.5 1.7 55											30-50	
	CPJ07B CPH07	3/4	SP20BL-1726†	39	30 50 Shut Off	11.0 8.3 91	11.0 7.5 87	9.7 6.7 82	9.5 5.3 78	7.2 4.2 72	5.8 2.8 66	3.3 1.8 62								30-50	56
			SP20BL-1520†	40	30 50 Shut Off					5.3 4.2 108	5.0 3.8 100	4.5 3.3 92	3.8 2.7 84	3.3 2.2 77	2.8 1.7 70					30-50	
			SP20BL-1634†	44-47	30 50 Shut Off	16.7 10.0 71	15.0 7.5 66	11.7 4.7 61	8.3 2.0 55											30-50	
	CPJ10B CPH10	1	SP20BL-1828†	44-47	30 50 Shut Off	11.7 11.0 104	11.7 9.8 98	11.2 8.8 92	10.0 7.3 86	8.3 6.0 80	7.0 4.5 72	5.5 3.3 67	3.8 1.8 61	2.2 0.5 55						30-50	49
			SP20BL-1520†	45-47	30 50 Shut Off						5.3 5.0 119	5.3 4.5 113	5.0 4.0 106	4.3 3.5 100	3.7 2.8 94	3.2 2.5 89	2.5 2.0 83	2.0 1.3 78		30-50	
			SP20BL-1736†	46-52	30 50 Shut Off	20.0 13.3 80	15.8 10.0 75	12.5 7.5 70	9.7 5.0 65	6.7 2.7 60										30-50	
	CPJ15	1-1/2	SP20BL-1728†	51-53	30 50 Shut Off			11.7 10.0 102	11.7 9.0 96	10.0 7.5 90	8.0 5.8 84	6.3 4.3 78	4.8 3.0 71	3.5 1.8 65						30-50	66
			SP20BL-1520†	52-55	30 50 Shut Off							5.3 5.3 130	5.3 5.0 125	5.3 4.5 120	4.8 4.2 115	4.2 3.7 110	3.7 3.2 103	3.2 2.7 95	2.7 2.2 88	30-50	

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Jet Pump Accessories, Service Kits



"EK" SHALLOW WELL TANK MOUNTED SYSTEMS

1	Model	НР	Tank Type	Approxima	te Dimensions -	Inches	Ship Wt.
	WIUUEI		тапк туре	L	W	Н	Sille wr.
	EK05SAT25H	1/2	Horizontal	24.5	17.25	33.5	76 lbs.
	EK07SAT44H	3/4	Horizontal	24.5	17.25	33.5	76 lbs.

For performance specifications, see EK pump page.

Includes: Pump, motor, pressure switch, ejector, pressure tank and connection fittings from pump to tank.

POWER CONVERSION UNIT FOR JET AND CENTRIFUGAL PUMPS



Order No.	Application
122649 NEMA C	Can be used with any jet or centrifugal pump equipped with NEMA C or NEMA J standard electric motors. Gasoline engine or electric motor can be directly coupled with shaft or can be used with belt and pulley. For electric motor used with belt drive, the motor HP should be doubled. The gasoline engine HP should be doubled that of standard motor in either case above.
135458 NEMA J	5/8" diameter steel shaft, mounted in two heavy duty ball bearings, carry all radial and thrust loads.

CONVERTIBLE JET PUMPS WITH POWER CONVERSION UNIT



Model No.	Description	Pressure Control Valve Required†
CPJ05 222	Threaded Shaft	124330
CPJ07 222	Threaded Shaft	132446
CPJ10 222	Threaded Shaft	132446
CPJ15 222	Threaded Shaft	133383

⁺Pressure control valve required for deep well applications - order separately. Order ejector separately. CPJ Convertible Jet Pumps fitted with a power conversion unit offer the flexibility of electric motor or gasoline engine drive. Can be belt or direct driven. Power conversion unit features cast iron body and double, heavy duty ball bearings.

SERVICE KITS FOR JET PUMPS

Model No.	Service Kit For:	Kit Contents
148143	1/3 HP CPJ Jet Pumps 1/2 HP EK Jet Pump	
148141	1/2 HP CPJ & CPH Jet Pumps 3/4 HP EK Jet Pump	Impeller, Diffuser, Rotary Seal,
148140	3/4 HP CPJ & CPH Jet Pumps 1 HP EK Jet Pump	Square Cut Ring, Diffuser Rubber
023705	1 HP CPJ, CPH & VPH10 Jet Pumps	

