Economy Wash Package

DU EWS10-31 / DU EWS10-51 / DU EWS10-53

Owner's Manual #0812 121615	
Customer Number:	Serial Number:
Model Number:	Installation Date:

IMPORTANT

Please read and understand this manual. Store in safe location for future reference.

Everyone who operates this unit should understand basic operations and safety precautions! The time you take to fully understand the proper installation, maintenance and use of the machine will prolong its service life, and assure you of trouble free operation.

When unpacking, check to make sure all the parts shown on the Parts Breakdown near the end of this manual are included. If any parts are missing or broken, please call Dultmeier Sales as soon as possible.

Consumers should notice that this manual may differ slightly from the actual product as more improvements are made to our products. Some of the pictures in this manual may differ slightly from the actual product as well. Dultmeier Sales reserves the right to update designs and / or change the specifications at any time without incurring any obligation to install them on units previously sold.

If you have any questions or suggestions about this manual, please contact us at:

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Table of Contents

Safety Information 1
Specifications 2
System Features, Maintenance, & Storage 3
Installation & Operating Instructions 4
Parts Breakdown 5-6
Warranty Information 7
Checklist 8
Wiring Diagram 9

To avoid serious or fatal personal injury or major property damage, read and follow all safety and operation instructions in the manual.

This is a **Safety Alert Symbol** -
When you see this symbol in the manual, look for the following signal words & be alert to the potential for personal injury or property damage.

DANGER Warns of potential hazards that **WILL** cause serious personal injury, death or property damage.

WARNING Warns of potential hazards that **CAN** cause serious personal injury, death or property damage.

CAUTION Warns of potential hazards that **WILL** or **CAN** cause minor personal injury, death or property damage.

IMPORTANT Indicates special instructions that **MUST** be followed but not related to hazards.

This manual is intended to assist in the installation and operation of this unit.
Do not attempt to operate this unit without reading and understanding this manual.

General Safety

To avoid the risk of serious bodily injury and property damage, read safety instructions carefully before installing this system. Follow all local and/or national plumbing and electrical codes when installing.

IMPORTANT

Do Not Allow System or Components to Freeze.
To do so may damage the system and will void the warranty.

WARNING

Never Run the System Dry.
Running the unit dry (without fluid) can damage internal parts, overheat pump (which can cause burns to people handling or servicing the pump), and will void the warranty.

WARNING

Risk of Electric Shock.
Keep the unit dry at all times -
Do not wash the motor or electrical panel or allow the unit to sit in standing water.

Use only Ground Fault Circuit Interrupter (GFCI) protected grounded outlet for the cord plug.
If you must use an extension cord, use only UL approved indoor/outdoor, 3-wire, grounding type cords.
The cord must be rated to support amp draw. Do not allow any part of cord or receptacle ends to sit in water.

To avoid fatal shocks, proceed as follows if service is needed:

A. Turn off water to the system.
B. Disconnect the power at main electrical service before unplugging the unit.
C. Ground the electrical outlet box.
D. Take extreme care when changing fuses.

WARNING

Burst Hazard
High Pressure Unit

Do not run the unit with discharge shut off, as hose may burst or damage may occur.

CAUTION

Burn Hazard
Do Not Touch An
Operating Motor

Modern motors can operate at high temperatures. To avoid burns when servicing pump, allow it to cool for 20 minutes after shutdown before handling.

Economy Wash Package Specifications

DUEWS10-31

PSI 1 3 0 0
Capacity . . . . . 3.2 GPM
Pump IPTX1810E179
Motor . . . . . C E 1 3 1 6 3 1

CE131631	3 HP, 1 PH	
Volts:	115	208-230
Amps:	33.6	16.8

DUEWS10-51

PSI 1 8 0 0
Capacity . . . . . 3.8 GPM
Pump IPTX1812E179
Motor . . . . . C E 1 3 1 6 3 3

CE131633	5 HP, 1 PH
Volts:	230
Amps:	23

DUEWS10-53

PSI 1 8 0 0
Capacity . . . . . 3.8 GPM
Pump IPTX1812E179
Motor . . . . . C E 1 3 1 5 0 2

CE131502	5 HP, 3 PH	
Volts:	208 - 230	460
Amps:	13.7 - 12.6	6.3

Common Specifications

Style..... Economy Wash Package
Maximum Inlet Pressure..... 125 PSI
Maximum Inlet Temperature..... 165° F
Crankcase Capacity ..... 14 oz.
Pump Drive..... Direct
Dimensions..... 16”W x 32” L x 48”H
Shipping Weight ..... Approx 140 lbs.
Pump Inlet ..... 1/2”
Pump Discharge..... 3/8”
Features ..... Adjustable Pressure Unloader Valve, Chemical Injector, Pressure Gauge, Safety Pop Off Valve, 25’ High Pressure Hose, Trigger Style Spray Gun with: Insulated Extension, Gun Swivel, and Spray Nozzle; and Heavy Duty Stainless Steel Base Plate. All units are Pre-Assembled and tested prior to shipping.

System Features & Options

GENERAL Plunger Pump

Suttner Unloader Valve

Safety Pop Off Valve

Chemical Injector

Trigger Spray Gun with: Gun Swivel, Washjet Nozzle, Nozzle Protector, and 18” Extension with Grip

25’ High Pressure Wash Hose

Stainless Steel Coin Meter or Optional EP1 Selector Switch

Stainless Wall Boom

Chemical Tank

Bay Instruction Signs

All Units are Pre-Plumbed, Pre-Wired, and Tested

Options include Wax or Foam Brush

Maintenance & Storage

1. Change the oil after intial 50 hours. Use General Pump Oil, part number **IP100214-1** for 16 oz. bottles or **IP100553-1** for 2.5 gallon jug. **(fig. 4)**

IMPORTANT **This pump takes 14 oz.**

2. The oil should be changed every 500 hours. If other than General Pumps special custom blend multi-viscosity ISO68 hydraulic oil is used, change the oil every 300 hours.

3. For extended storage or between use in cold climates, drain all pumped liquids from pump and flush with antifreeze to prevent freezing and damage to the pump. When running antifreeze through system, open and close trigger gun so entire system is protected.

figure 4

Please refer to the included General Pump reference materials for additional information on the Maintenance & Storage of your General Pump Prep Wash System.

Installation

1. Pump inlet and chemical tank are supplied with a single 3/4” female garden hose fitting. Connect a garden hose to the pump inlet and secure.

⚠ CAUTION **Pressure at inlet of pump should not exceed 60 PSI.**

2. Now connect high pressure bay hose **(see fig. 3)** to pump outlet **(see fig. 1-A)**

3. Make sure the power switch is in the OFF position. **(see fig. 2)** Plug in unit to a 120 volt, 20 amp power source.

⚠ WARNING **If using an extension cord, use only UL approved indoor/outdoor, 3-wire, grounding type cords. The cord must be rated to support amp draw.**

4. Turn on the water supply and check for leaks.

5. While holding trigger gun open start unit. All units are pretested and pressure should come up to specifications. (1000 PSI) **(see fig. 3)** When trigger gun is closed unloader will bypass flow back to inlet of pump. *(Optional)* Gauge should read 0 PSI when in bypass mode.

⚠ CAUTION **Leaving pump in bypass mode for an extended amount of time can damage pump due to friction heat buildup.**

6. Pressure can be adjusted by turning handle in regulating unloader valve. **(see fig. 1-B)** Turn handle clockwise to increase pressure or counter-clockwise to decrease pressure. Care should be taken not to exceed maximum pump pressure of 1000 PSI.

⚠ CAUTION **Damage to the pump and/or motor can occur if maximum pressure is exceeded.**

7. The chemical feed design utilizes an upstream Injection System. This allows you to apply chemical with high pressure. The water bypass screw will need to be adjusted due to varying inlet pressures. **(see fig. 1)**

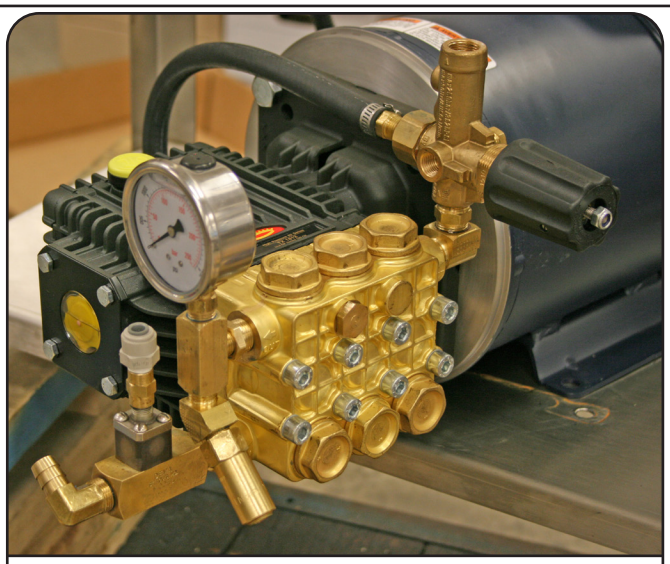
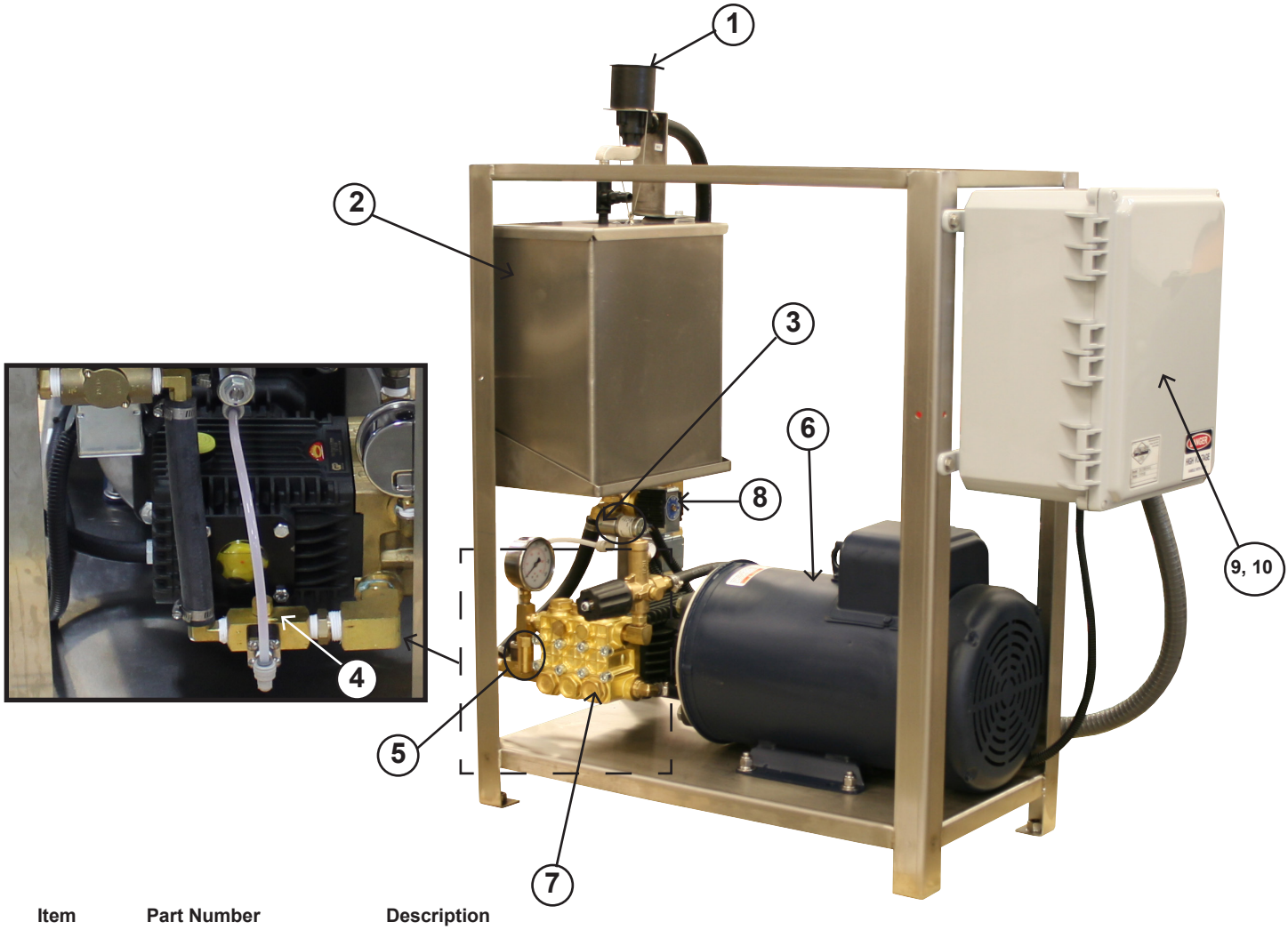


figure 1

figure 2

figure 3

Parts Breakdown: DUEWS10-31, DUEWS10-51, DUEWS10-53



Item	Part Number	Description
1	HR506	Hydrominder
2	DD61012	Stainless Steel Tank w/ Lid & Shelf
3	KI3X293	Solenoid Valve w/ Meter
4	DE203B-2450	Chemical Injector
5	GU22531A	Safety Pop Off Valve
6	CE131633	Motor, 5 HP 1 PH (For DUEWS10-51)
	CE131631	*Motor, 3 HP 1 PH (For DUEWS10-31, Not Shown)*
	CE131502	*Motor, 5 HP, 3 PH (For DUEWS10-53, Not Shown)*
7	IPTX1812E179	Triplex Plunger Pump w/ Flange, General Pump (For DUEWS10-51, -53)
	IPTX1810E179	*Triplex Plunger Pump w/ Flange, General Pump (For DUEWS10-31, Not Shown)*
8	DEA414P-24	Solenoid, 24V, Normally Closed
9	DUEP20-13EW	Electrical Panel for DU EWS10-31
	A. GOCCMR01	1 Amp Fuse Class CC 600V
	B. BRW-51220029	Mini-Auto Fuse, 5 Amp/32VDC
	C. GO33100208	24V Transformer 100KVA-120/208/230/480
	D. GO3RU1126-4BB0	Overload 14-20 Amp, For size 0 contactor
	E. GO3RT1026-1AC20	Size 0 Contactor, 7-1/2 HP, 230 Amp/24V Coil
10	DUEP20-15EW	Electrical Panel for DU EWS10-51
	A. GOCCMR01	1 Amp Fuse Class CC 600V
	B. BRW-51220029	Mini-Auto Fuse, 5 Amp/32VDC
	C. GO33100208	24V Transformer 100 KVA-120/208/230/480
	D. GO3RU1136-4DB0	Overload 18-25 Amp, For size 2 contactor
	E. GO 3RT1035-1AC20	Size 2 Contactor, 15 HP-230V, 24V Coil

Parts Breakdown: DUEWS10-31, DUEWS10-51, DUEWS10-53

Item	Part Number	Description
9	GA6HR25	25’ Black Wash Hose, 3/8”
10	NPST004-D42	Nozzle Protector
	SS1/8MEG25055	*Washjet Nozzle (Not Visible)*
11	BC291G-18	18” Blue Flex Wand Extension
12	NPST1500	Spray Wand
13	SM900-3/8	Straight Swivel
14	DU27234	Stainless Steel Wall Boom w/ Bracket
15	DU10CD	Stainless Steel Coin Meter
16	ND120B	Bay Sign, Wash Instructions
		(Please Note: Bay Sign will vary depending on your equipment’s design.)
	ND12200	*Bay Sign, High Pressure (Not Shown)*

Notice Regarding Manufacturer's Limited Warranty

Dultmeier Sales Limited Liability Company (hereinafter Dultmeier), notifies you that component part(s) carry a manufacturer's limited warranty provided by the manufacturer of said component part(s). These warranties do not pertain to normal wear of component part(s) that may occur within any specified period. While Dultmeier is not the manufacturer of any of the component part(s), Dultmeier will assist you in processing any and all manufacturer's warranty claim if applicable and available. Any and all manufacturer's claims must be submitted in writing to the manufacturer within the warranty periods provided by the manufacturer.

Defective component part(s) that are to be considered for manufacturer's limited warranty must be returned to the manufacturer by prepaid shipment with the applicable manufacturer's limited warranty period. If the component part(s) are deemed to be defective under the manufacturer's warranty, Dultmeier will assist in obtaining a replacement or repair of the component part(s). Said component part(s) will be returned F.O.B. Omaha, Nebraska. Replacement or repair shall be the exclusive remedy for any breach of warranty. Labor for installation, either with respect to original or replacement part or components, is not covered under the manufacturer's limited warranty.

Neither the manufacturer nor Dultmeier warrants loss of income or consequential damages for injury or commercial loss resulting from any breach of warranty or warranties stated above.

The manufacturer's limited warranty as stated does not apply to component part(s) which have been improperly installed, misused, altered, neglected, abused or not installed, adjusted, maintained, or used in accordance with applicable codes and ordinances and in accordance with the manufacturer's specifications as to such factors.

Notwithstanding Dultmeier's willingness to assist in the processing of the manufacturer's limited warranty, Dultmeier makes no warranty against infringement of the like, makes no warranty of merchantability, makes no warranty of fitness for a particular purpose, and makes no other warranty, express or implied, including implied warranty arising from the course of dealing or usage of trade.

Compliance with all local, state and federal codes regarding the installation and operation of said equipment, parts and components shall be the responsibility of the purchaser. The rights and obligations of the parties shall be governed by the laws of the State of Nebraska.

Dultmeier Sales • 1-800-228-9666 Omaha, NE • 1-800-553-6975 Davenport, IA

Production Checklist

- OK NA Oil Level
- OK NA Clamps Tight
- OK NA Bolts Tight & Anti-Seized
- OK NA Fittings Straight
- OK NA Tested
- OK NA Winterized
- OK NA Electrical Decals
- OK NA Wiring Diagram
- OK NA Overload Set
- OK NA Fuse #1 _____ #2 _____
- OK NA Solenoids
- OK NA Hydrominder
- OK NA _____

- OK NA Pop-Off Valve Set _____ PSI
- OK NA Unloader Valve Locked
- OK NA PSI _____
- OK NA Pump RPM _____
- OK NA Motor Amps _____
- OK NA Motor Wired For _____

Accessories

- OK NA Safety Pop Off Valve
- OK NA Trigger Gun 1 2
- OK NA High Pressure Hose
- OK NA Injector / Injector Hose
- OK NA Gauge
- OK NA _____

Built By _____ Checked By _____

Customer Checklist

- OK NA Oil Level To Manufacturer's Specifications
- OK NA Accessories Included
- OK NA Electric Cord
- OK NA Shipping Container Was In Good Shape
- OK NA Overall Condition

If you have any questions or concerns about condition of this unit, please contact us before operating.

Basic EP1 Wiring Instructions

1. Run Black wire from EP1 to #4 in Electrical Panel.

2. Run Red wire, the Motor Starter wire, to #3 in Electrical Panel.

3. Run Brown wire, the Soap wire, to #5 in Electrical Panel.

4. Run Blue wire, the Solenoid/Main Water, to #6 in Electrical Panel.

   Use the male plug provided at EP1.
   Hook the other end to the Terminal Blocks in Electrical Panel.

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