

# Dimension® Series Three and Four Grade Pump/Dispensers Back-To-Back Configuration

This addendum is not a standalone installation document. Use this addendum in conjunction with MDE-2966 Pump/Dispenser Installation Manual for Export Products.

## Parts List

The following items comprise the components for back-to-back units and are contained in each crate.

Description	Part #	Qty. 3-Grade	Qty. 4-Grade
Plate, Vapor Barrier	W03214-01	1	
Plate, Vapor Barrier	W03214-02		1
Washer, Flat 5/16"	K42999-65	12	14
Nut 5/16" x 18	Q11890-05	12	14
Nut 10 - 32	Q12068-04	16	16
Bolt, 1/4" - 20 x 1-1/2" lg.	Q11889	4	4
Nut, Sems 1/4 - 20	Q12068-05	4	4
Lockwasher, Ext. 1/4"	K50411-31	4	4

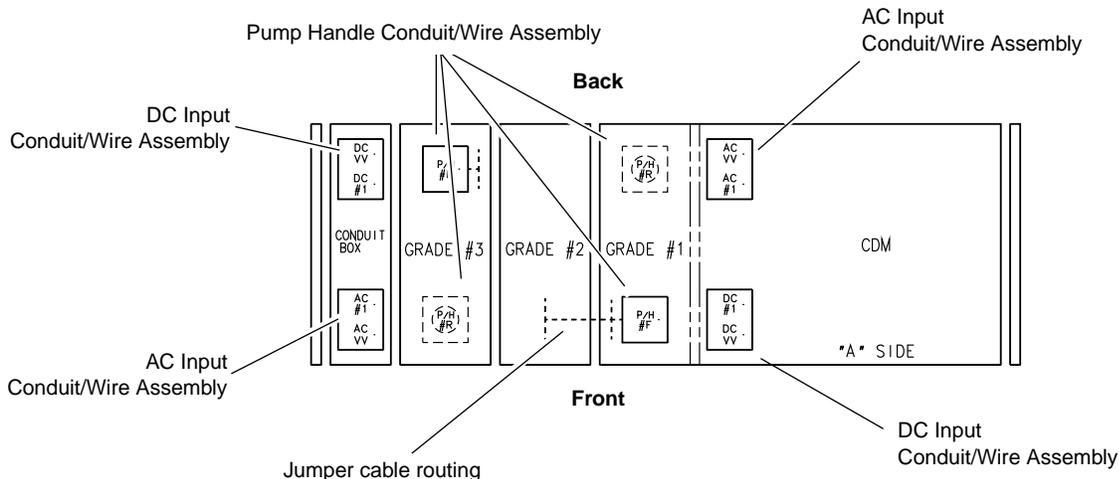
## Tools Required

The following tools are needed to install back-to-back units.

Description
Screwdriver, straight blade, medium size
Nutdriver, 11/32" and 5/16"
Ratchet and socket for 1/2"

## Routing Wires

Each hose retriever assembly has pump handle wires that need to be routed as shown here. Actual connections can be found on the wiring diagrams.

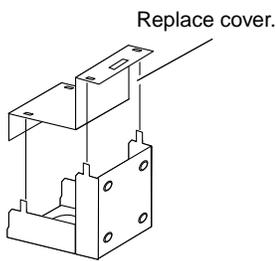


## Connecting Cables From Hydraulics Area

From	To	Comments
<b>AC Input Conduit/ AC Main Cable Wire Assembly</b>		
P611	J611	AC Power
P612	J612	N/A
P613	J613	Valves
P614	J614	N/A
P615	J615	STP/MTR
P616	J616	DC Data #1
P617	J617	CRIND Data #2

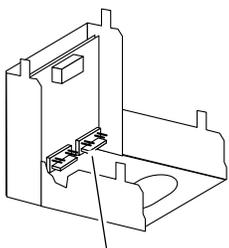
From	To	Comments
<b>DC Input Conduit/ DC Main Cable Wire Assembly</b>		
P621	J621	Pulser Power
J622	P622	Pulser Data
P623	J623	N/A
J624	P624	Speaker
P625	J625	3 Phase Motor Control

### I. S. Barrier Box



From	To	Comments
<b>Pump Handle Conduit/Wire Assembly</b>		
J151	P151	
J152	P152	

After all connections are made, replace cover on I. S. Barrier Box and twist tabs to close securely. Replace hose retriever door covers, electronics module cover and lock everything into position.



Connectors  
P151 and P152

## Model Numbers

### Pumps

D18	Dimension Three-Grade Back-To-Back (One-Sided)
D1A	Dimension Three-Grade Back-To-Back (Two-Sided)
D16	Dimension Four-Grade Back-To-Back (One-Sided)
D17	Dimension Four-Grade Back-To-Back (Two-Sided)

### Dispensers

D08	Dimension Three-Grade (One-Sided) Back-to-Back
D0A	Dimension Three-Grade (Two-Sided) Back-to-Back
D06	Dimension Four-Grade (One-Sided) Back-to-Back
D07	Dimension Four-Grade (Two-Sided) Back-to-Back

## Load Table

See attached wiring diagrams:

### Pumps

FE-319	Dimension Series Pumps 120/230VAC Single Phase with Solid State Pump Relays
FE-320	Dimension Series Pumps 240/380VAC Three Phase

### Dispensers

FE-317	Dimension Series Dispensers 120VAC
FE-318	Dimension Series Dispensers 240VAC

## Operating Environment

Relative Humidity	.20% to 95% non-condensing
Minimum Outside Ambient Temperature	-22°F (-30°C)
Maximum Outside Ambient Temperature	131°F (55°C)

## Performance Requirements

Minimum Delivery Rate*	12 gpm @ lift of 8-10 feet (45 lpm @ lift of 8-10 feet)
Meter Accuracy	± .25% from 1.5 to 15 gpm (5.7 to 57 lpm)

\* Actual flow rates will depend on your specific installation and accessories used.

## Weights

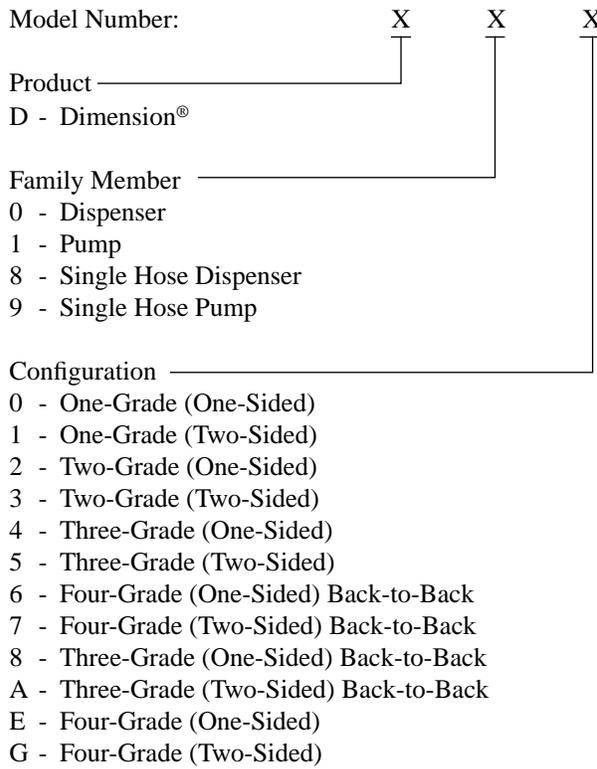
### Pumps

Three-Grade	1,450 est. pounds/660 est. kilograms
Four-Grade	1,800 est. pounds/820 est. kilograms

### Dispensers

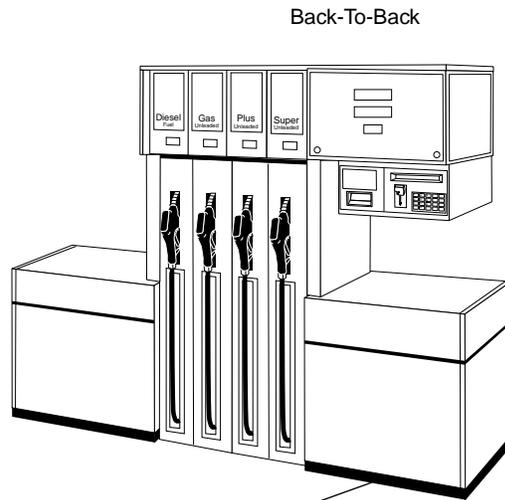
Three-Grade	1,225 est. pounds/560 est. kilograms
Four-Grade	1,650 est. pounds/750 est. kilograms

### Model Number Breakdown



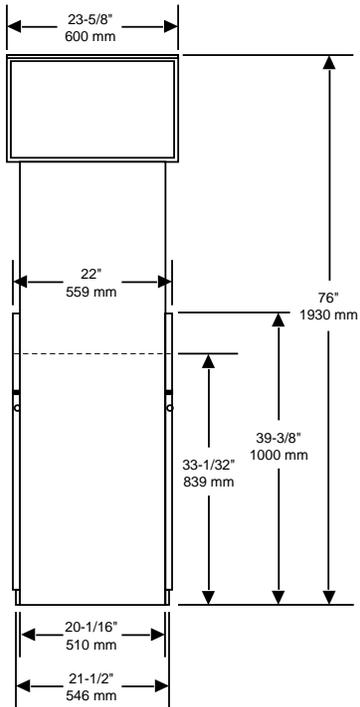
- Options:**
- Push-To-Start Nozzle
  - Lever Activated Nozzle
  - CRIND™ \*
  - Customer Programmable Preset \*
  - Cash/Credit
  - Mechanical Totalizers
  - Gallon Totalizers
  - Metric Totalizers
- \* Cannot have both CRIND and Customer Programmable Preset*

### Serial Number/Model Number Plate Location

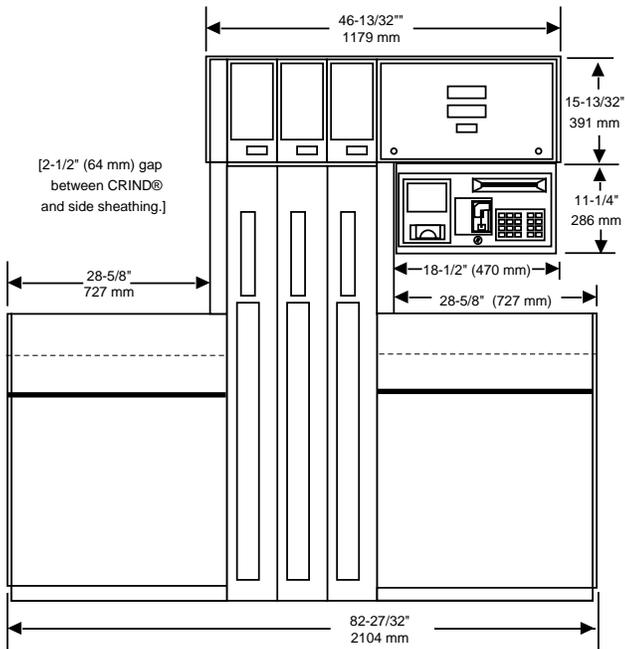


### Elevation-Back-To-Back Configuration

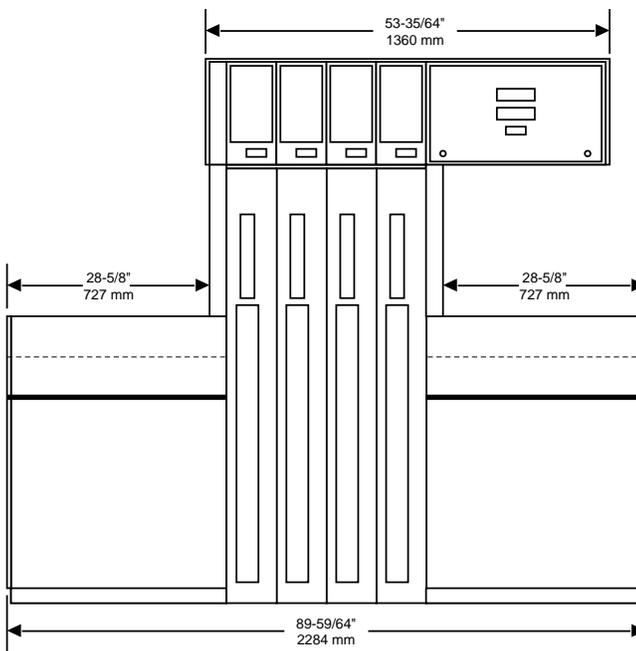
Side View



Three-Grade Pump/Dispenser

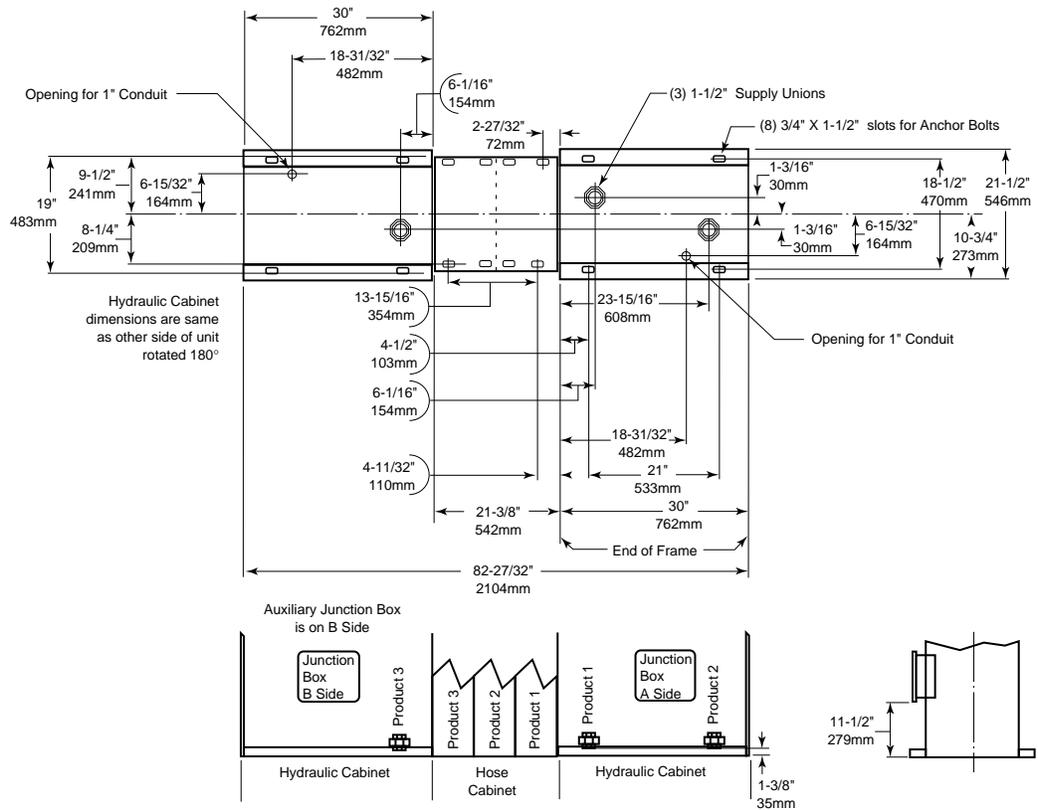


Four-Grade Pump/Dispenser

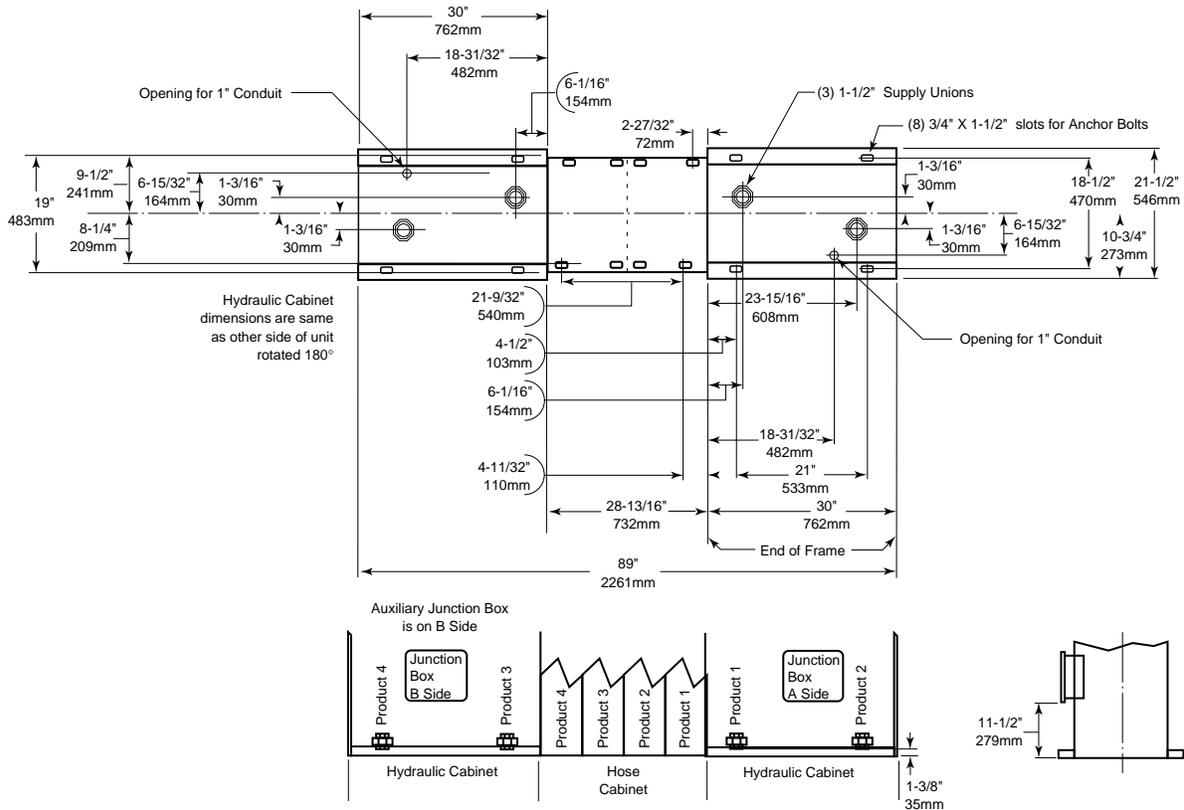


## Footprints–Back-to-Back Configuration for Pumps

### Three-Grade Pump

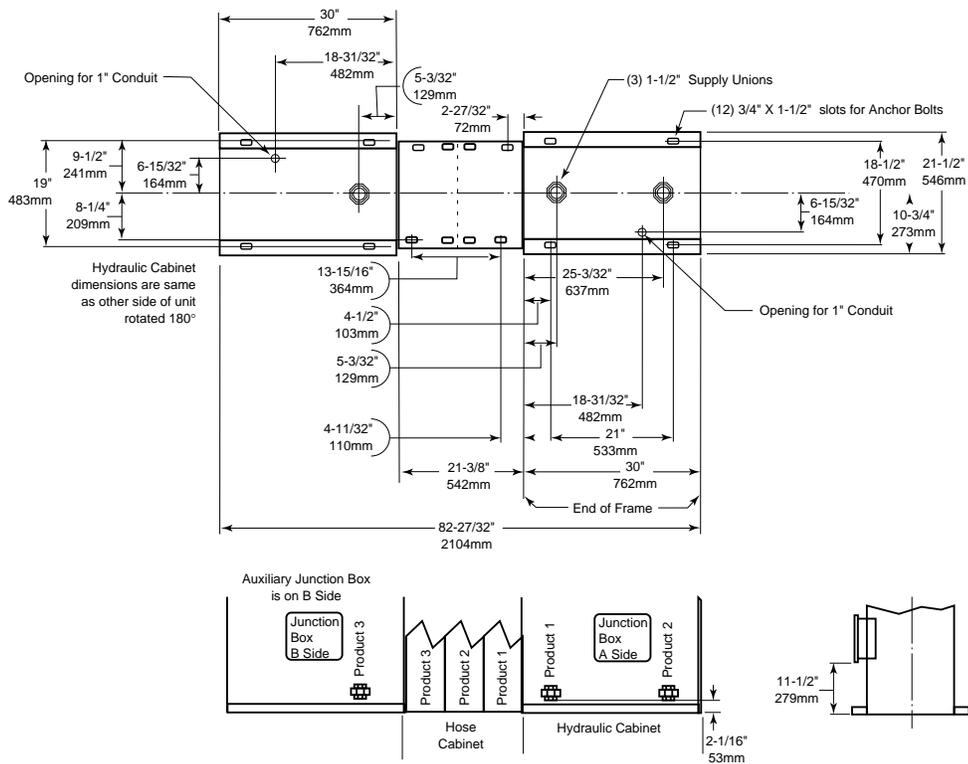


### Four-Grade Pump



## Footprints—Back-to-Back Configuration for Dispensers

### Three-Grade Dispenser



### Four-Grade Dispenser

