

WEIL**4-Inch Vertical Wastewater Pump****2224**

Heavy duty pump for commercial and industrial applications.

Pump clear water, gray water, effluent and wastewater with solids up to 2 1/2-inch diameter.

Disch. Size

4 Inch

Disch. Type

ANSI

Solids Max.

2 1/2 Inch

Mounting Style

Cover

Pump

Case - Cast Iron

Impeller

Cast Iron - Standard

Bronze - Optional

Shaft - 1 1/4 inch diameter

Carbon Steel - Standard

416SS - Optional

Lower Bearing

Bronze - Standard

Graphite - Optional

Rubber Cutless - Optional

Intermediate Bearing, if required

Cast Iron Housing with

Grease Lubricated Bronze

Sleeve Bearing - Standard

Graphite Sleeve Bearing - Optional

Leg(s) - Galvanized

Discharge Pipe - 4-inch Galvanized

Discharge Elbow - Cast Iron

Floor Plate - Galvanized or Painted

Flexible Coupling

Coupling Guards

Ball Thrust Bearing

Options

50 Hz motor

UL Explosion Proof Motor

L	Interm.	L	Interm.
Pump Length	Brg Qty	Pump Length	Brg Qty
26	0	109	2
31		115	
37		121	
43		127	
49		133	
55	1	139	
60		145	
66		151	
72			
78			
84			
90			
96			
102			

Flow - To prevent solids from settling out

Discharge Pipe Size Dia Inches	Minimum Flow GPM
3	50
4	90
6	200

Capacities - Wet Wells

Dia or Side Inches	Gallons per Foot of Depth	
	Round	Square
24	24	30
30	37	47
36	53	67
48	94	120
60	147	187
72	212	269

Good wet well design

Maximum 10 starts per hour.

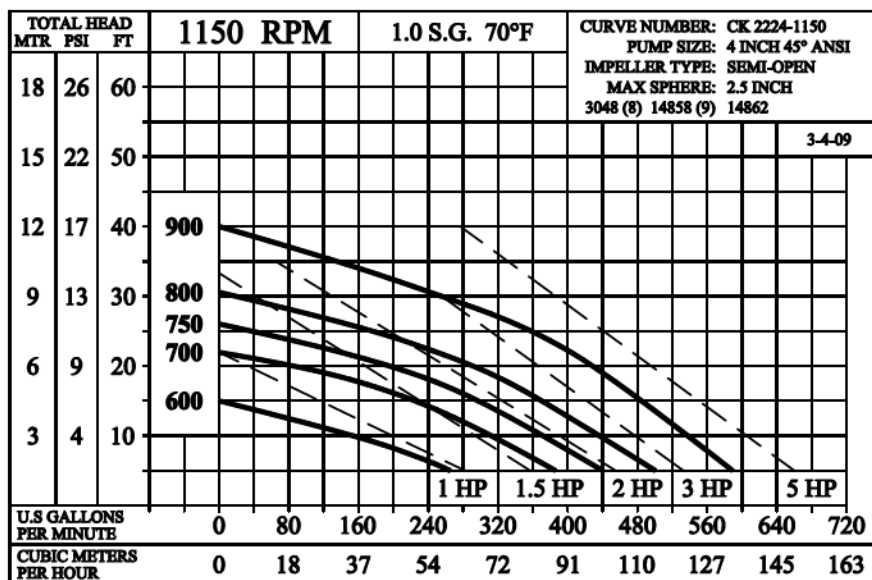
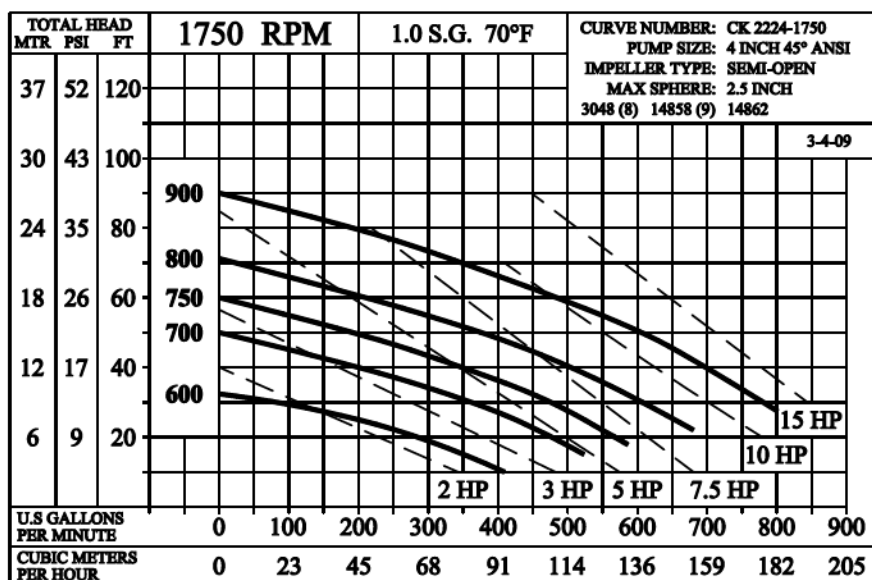
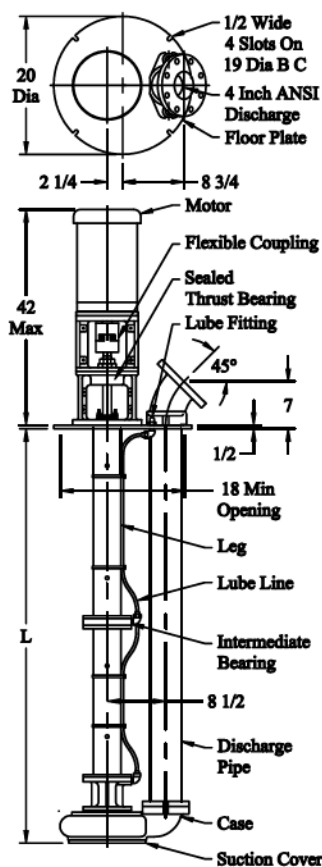
Minimum run time - 1 1/2 minutes.

Motor

TEFC, 60 Hz, 1150 and 1750 RPM

Three-phase, 208-230 or 460 volts

Single-phase, 115 or 208-230 volts



SN-2224-A-3

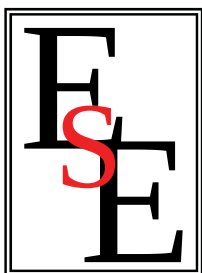
X

Replaces SN-2224, Nov 1, 2006

SN-2224

APRIL 1, 2009

2224



Engineered Equipment Sales

Division of Debco Equipment Company, Inc.

1814 South Third Street
Saint Louis, MO 63104-4040

Submittal

314.646.0074 Phone
314.646.0078 Fax

May 11, 2016

To: Ferguson

Project: Webster University Science

We are pleased to submit the following equipment for your approval:

SP-1 & 2

Two (2) Weil 2224 vertical 4" wastewater pumps. The pumps will be capable of handling 2-1/2" solids, will have a capacity of 350gpm at 25tdh, and will be powered by a 5hp, 1750rpm, TEFC, 460/3 motor. The pumps will be suitable for installation in a 108" deep basin. The pumps will be controlled off/on/lag by a Weil 8211K2014 pedestal switch. An auxiliary switch 8211K7015 will activate the high water alarm in the panel. The Weil 8155T-100 control panel will be in a NEMA 1 enclosure with a high water horn and dome lamp. The basin will be fiberglass and will be 36" in diameter and 108" deep. We will provide a H600R ringer grommet for the 6" inlet pipe (field installed). The basin cover will be a Weil 8805K1316S.

Sincerely,

Mike Busse

Michael D. Busse

This proposal incorporates our standard terms and conditions by reference. If you do not have a copy contact us immediately.

Subject to Factory Standard Warranty

Proposals good for 30 days



SP-1

W2224

WEIL

SP-1 / SP-1 SUMP PUMP

TWO (2) WEIL 2224 VERTICAL 4" WASTEWATER PUMPS. THE PUMPS WILL BE CAPABLE OF HANDLING 2- 1/2" SOLIDS, WILL HAVE A CAPACITY OF 350GPM AT 25TDH, AND WILL BE POWERED BY A 5HP, 1750RPM, TEFC, 460/3 MOTOR. THE PUMPS WILL BE SUITABLE FOR INSTALLATION

M

WEIL

IN A 108" DEEP BASIN. THE PUMPS WILL BE CONTROLLED OFF/ON/LAG BY A WEIL 8211K2014 PEDESTAL SWITCH. AN AUXILIARY SWITCH 8211K7015 WILL ACTIVATE THE HIGH WATER ALARM IN THE PANEL. THE WEIL 8155T-100 CONTROL PANEL WILL BE IN A NEMA 1 ENCLOSURE

M

WEIL

WITH A HIGH WATER HORN AND DOME LAMP. THE BASIN WILL BE FIBERGLASS AND WILL BE 36" IN DIAMETER AND 108" DEEP. WE WILL PROVIDE A H600R RINGER GROMMET FOR THE 6" INLET PIPE (FIELD INSTALLED). THE BASIN COVER WILL BE A WEIL 8805K1316S.

Shop Drawing Submittal Review

Transmitted To: Cannon Design

Date: June 3, 2016

Attention: stl-cac@cannondesign.com

Contact Person / WTA Field Inspector:
Patrick Garner

Project Name: Webster University-**ISB**

Reviewed by: Mike Whitworth (WES)

Project No. WT 14127.01
WES 607

☐

UPS

☐

Courier

☒

Email

Copies	No.	Description
1 PDF	221429P01	(Submittal No.'s:
		(Cannon #-22 1429-003) - (Paric #15051-) - (WES #607)
		➤ Sump Pumps Product Data:
		• Sump Pumps SP-1, SP-2 & SP-3
		• Elevator Sump Pumps ESP-1 & ESP-2

***Remarks: See Submittal Review from Webb Engineering.**

c: Kevin Patel
Kpatel@cannondesign.com

☒

***Reviewed**

☒

***No Exception Taken -**

☐☒

***Make Corrections as
Noted, No Resubmittal
Required**

Corrections or comments made on shop drawings during this review do not relieve contractor from compliance with requirements of drawings and specifications. This check is only for review of general conformance with the design concept of project and general compliance with information given in contract documents. Contractor is responsible for: confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordinating his work with that of all other trades; and performing his work in a safe and satisfactory manner.



1400 S. 3rd Street, Suite 201
St. Louis, Missouri 63104
Phone: (314) 588-0600
Fax: (314) 588-0604

Letter of Transmittal

To: **wtashop@wmtao.com**

From: **Mike Whitworth**

Date: **June 03, 2016**

Re: **Webster University ISB**

WES No: **607**

☐ For your Files

☐ For Review

☐ Please Comment

☐ Please Reply

Item No.	Description	No. of Copies	Date
1	Shop Drawing Review – 22 1429-003 Sump Pumps	1	06-03-2016

•Signature: Mike Whitworth

The review of this submittal is limited to the general conformance with the designated design concept and intent of this project and with the general compliance of the information provided in the contract documents. All comments, remarks and notations made on the submittal(s) as a result of this review do not relieve the contractor from full compliance with requirements of the contract documents. Approval for a specific item shall not include approval of an assembly of which the item is not a component. The contractor is solely responsible for rough-in and installation confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; coordination of this work with that of other trades on this project; and in a safe and satisfactory manner. All work shall be installed in full compliance with the manufacturer's recommendation Federal, State and Local rules and regulation and the Authority Having Jurisdiction (AHJ) and applicable adopted codes and standards.

PROJECT NAME: WU-ISB
 LOCATION: St. Louis, MO
 CLIENT PROJ. NO.: NA
 WES PROJ. NO.: 608
 SPEC SECTION: 22 1429-003
 SUBMITTAL ITEM: See Below -

CONTRACTOR: DeLuca Plumbing LLC
 CTR. SUBMITTAL #: 221429-003.
 SUBMITTAL DATE: May 25, 2016
 DATE RECEIVED: May 26, 2016
 RECEIVED VIA: E-Mail
 RECEIVED FROM: WTA
 DATE RETRND: June 03, 2016
 RETURNED VIA: E-Mail
 RETURNED TO: wtashop@wmtao.com

STATUS KEY:

NO EXCEPTION TAKEN							
NEC	MCN	MAKE CORRECTIONS NOTED, NO RESUBMITTAL IS REQUIRED:					
		AMEND AND RESUBMIT					
		AAR	REJ	REJECTED, SEE REMARKS:			
				REVIEWED ONLY			
				REV	ITEM	REMARKS	
X					Sump Pump SP-1 and SP-2 Weil Pump Co. Model 2224 – 4 Inch Vertical Wastewater Pump Model 8211K2014 Pedestal Switch Model 8211K7015 Auxiliary Switch for High Water Alarm Model 8155T-100 Control Panel Fiberglass Basin – 36 x 108 Model 8805K1316S Basin Cover		
X					Sump Pump SP-3 Weil Pump Co. Model 1411 - 2 Inch Submersible Wastewater Pump Model 8341K1011 High Water Remote Alarm Panel Model 8233K1006 Tethered Float Fiberglass Basin – 36 x 108 Model 8805K1316K Basin Cover		
	X				Elevator Sump Pumps ESP-1 and ESP-2 Weil Pump Co. Model 1411-OSS Elevator Pump System	There are two separate elevator sump pump systems required. One for each of the hoistway pits	

REVIEWED BY: Mike Whitworth DATE: June 03, 2016

THESE COMMENTS ARE TO BE ATTACHED TO ALL COPIES OF THE SHOP DRAWING REFERENCED ABOVE.



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0051

Paric Corporation

PROJECT: Webster University Interdisciplinary Science Building

DATE: 05/25/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Sump Pumps Product Data

ATTN: Kelvin Patel

JOB: 15051

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☒ Approval	☒ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☒ Other: Product Data	☐ Separate Cover Via:	☐ Due Date:

Item	Package	Code	Rev.	Copies	Date	Description	Status
Submittal		221429-003	1		05/25/2016	Sump Pumps Product Data	Submitted

NOTES:

CC: Paric Corporation, Kathy Bathe

Project Coordinator: Paric Corporation, Kathy Bathe

Signed: _____
Devin Gates

Shop Drawing Submittal

Project Name: WEBSTER ISB

Specification # **221429-01**

Specification Description: SUMP PUMPS
SP1-SP3 & ESP-1 – ESP-2

Date: 05-23-16

General Contractor / Construction Manager: PARIC

ARCHITECT: KWA

ENGINEER: William Tao

Contractor: DeLuca Plumbing, L.L.C.
8465 Delport Drive
St. Louis, MO 63114

Supplier: FERGUSON

Manufacturer: Various

Reviewed & Approved by: DeLuca Plumbing 05-23-16

Action: Forward to GC/CM for Review & Approval

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