

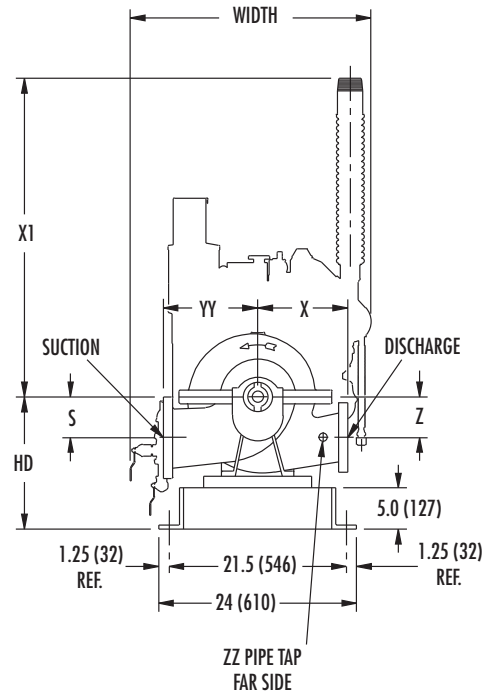
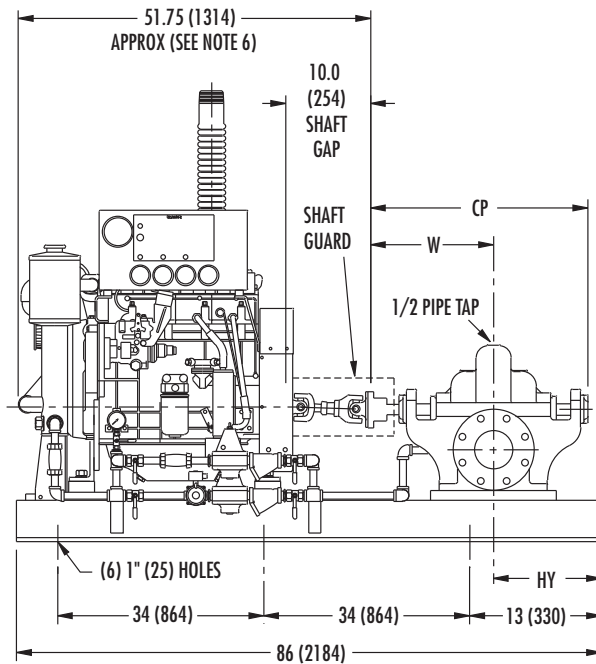
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AURORA MODELS 481, 491 & 492**SINGLE STAGE FIRE PUMPS****CLARKE VMFP-06HT, -T6HT, -L6HR & -T6HR****DIESEL DRIVE**

STANDARD*				OPTIONAL*				OPTIONAL						
125# SUCTION AND DISCHARGE FLANGES				125# SUCTION FLANGE, 250# DISCHARGE FLANGE				250# SUCTION AND DISCHARGE FLANGES						
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HD	HY	
DISCH	MODEL	CASE BORE											-06HT	-T6HT -L6HR -T6HR
3	481	10	4	2	4.5 (114)	13.5 (343)	10 (254)	4.5 (114)	24 (610)	11 (279)	1.25	16 (406)	20.5 (521)	20 (508)
3	492	10A	4	NA	5.5 (140)	16.5 (419)	10 (254)	5.5 (140)	29.19 (741)	10 (254)	.75	16 (406)	17.63 (448)	NA
4	481	11A/C	5	3	5 (127)	14.5 (368)	11.25 (286)	5 (127)	26 (660)	12.75 (324)	1.25	16 (406)	19.5 (495)	19 (483)
4	492	10	6	N/A	6.5 (165)	16.88 (429)	10.25 (260)	6.5 (165)	29.88 (759)	11 (279)	.75	18 (457)	17.12 (435)	16.63 (422)
4	491	11A/C	6	N/A	6.88 (175)	16.63 (422)	11.25 (286)	7.13 (181)	29.75 (756)	14 (356)	.75	19 (483)	17.38 (441)	16.88 (429)
5	481	11B/C/D	6	4	5.5 (140)	16 (406)	11.25 (286)	5.5 (140)	28.5 (724)	13.25 (337)	1.25	16 (406)	18 (457)	17.5 (445)
5	492	10	8	N/A	8 (203)	20 (508)	12.5 (318)	7 (178)	35.5 (902)	13 (330)	1	21 (533)	14 (356)	13.5 (343)
6	481	11HH	8	4A	8.63 (219)	18.13 (461)	10 (254)	8.63 (219)	32.88 (835)	15 (381)	1.25	23 (584)	15.88 (403)	15.38 (391)
6	481	14HH	8	5A	7.5 (191)	20.44 (519)	15 (381)	7.5 (191)	36.75 (933)	17 (432)	1.25	23 (584)	13.56 (344)	13.06 (332)
6	491	12A	6	N/A	6.88 (175)	16.63 (422)	20.5 (521)	7.13 (181)	29.75 (756)	14 (356)	1	19 (483)	17.38 (441)	16.88 (429)
6	492	10	10	N/A	9 (229)	20.63 (524)	13 (330)	7.5 (191)	36.75 (933)	15 (381)	1	23 (584)	13.38 (340)	12.88 (327)

* Pump sizes 6-481-11HH & 6-481-14HH are furnished as standard with 125# suction flange and 250# discharge flange.

NOTES

1. All dimensions are in inches (mm).
2. Dimensions may vary $\pm 3/8"$ (9).
3. Not for construction purposes unless certified.
4. The drive shaft is not designed to operate at 0°. The engine crankshaft must be parallel offset 0.2 ± 0.1 inch above the pump shaft and may be parallel offset from the pump shaft .02 inch laterally. Refer to the engine manual for alignment instructions.
5. Pump suction and discharge flanges are ANSI Standard flat face.
6. Refer to individual engine dimension print for reference point used to determine overall engine length.
7. Left hand (CCW) rotation is not available.

ENGINE MODEL	X1	WIDTH
VMFP-06HT	40.06 (1018)	30 (762)
VMFP-T6HT VMFP-L6HR VMFP-T6HR	40.06 (1018)	31.13 (791)

AURORA MODEL 485

TWO STAGE FIRE PUMPS

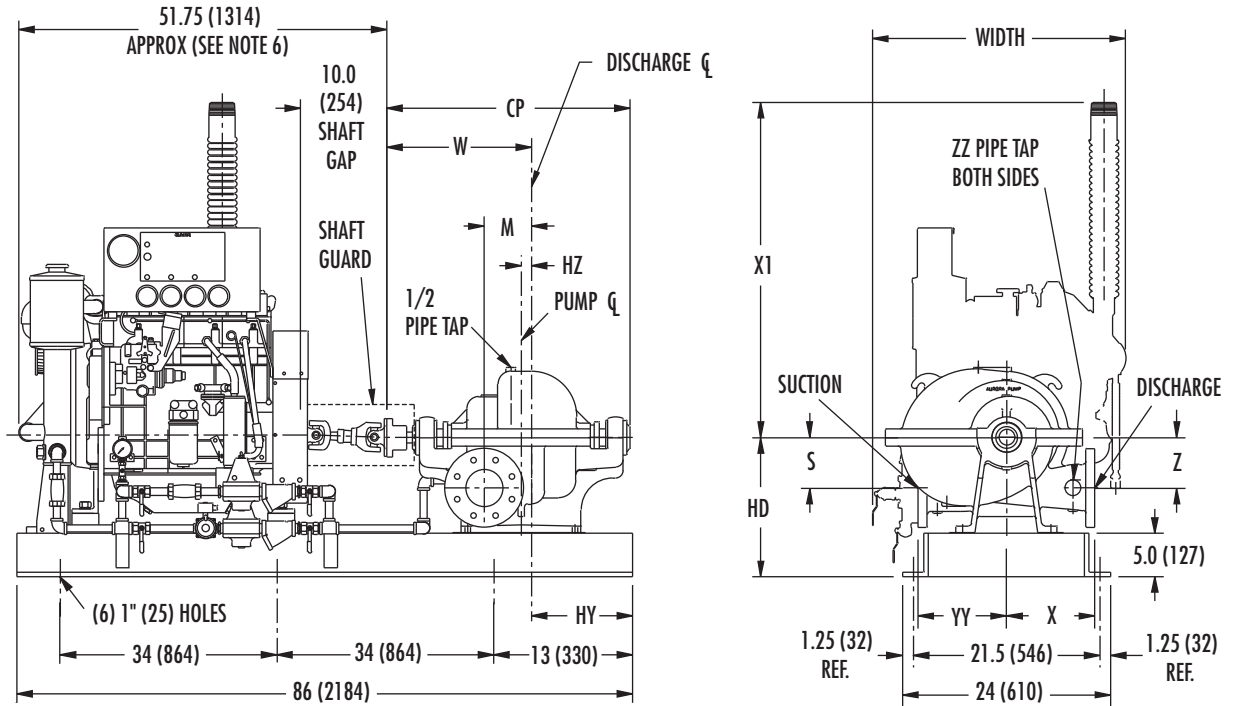
CLARKE VMFP-06HT, -T6HT, -L6HR & -T6HR

DIESEL DRIVE

Section **913** Page **207**

Date **February 2005**

Supersedes Section 913 Page 207
Dated November 2001



STANDARD										OPTIONAL							
 125# SUCTION FLANGE 250# DISCHARGE FLANGES					 250# SUCTION AND DISCHARGE FLANGES												
PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	YY	ZZ	HD	HY VMFP-06HT	HY VMFP-T6HT VMFP-L6HR VMFP-T6HR	HZ	
DISCH	MODEL	CASE BORE															
5	485	12	5	4A	6.63 (168)	7 (178)	20.88 (530)	13 (330)	7 (178)	35.38 (899)	13 (330)	1-1/4	19 (483)	13.25 (337)	12.77 (324)	1.38 (35)	
6	485	12	6	5A	7.5 (191)	8 (203)	22.88 (581)	14 (356)	8 (203)	38.5 (978)	14 (356)	1-1/4	20 (508)	11.25 (286)	10.77 (274)	1.63 (41)	

ENGINE MODEL	X1	WIDTH
VMFP-06HT	37.5 (953)	30 (762)
VMFP-T6HT VMFP-L6HR VMFP-T6HR	37.75 (959)	31.25 (794)

NOTES

- All dimensions are in inches (mm).
- Dimensions may vary $\pm 3/8"$ (9).
- Not for construction purposes unless certified.
- The drive shaft is not designed to operate at 0° . The engine crankshaft must be parallel offset 0.2 ± 0.1 inch above the pump shaft and may be parallel offset from the pump shaft .02 inch laterally. Refer to the engine manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine overall engine length.
- Left hand (CCW) rotation is not available.

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AURORA MODELS 481, 491 & 492

SINGLE STAGE FIRE PUMPS

CLARKE MODEL JU4H-UF10/12/14 & JU4H-UF20/22/24

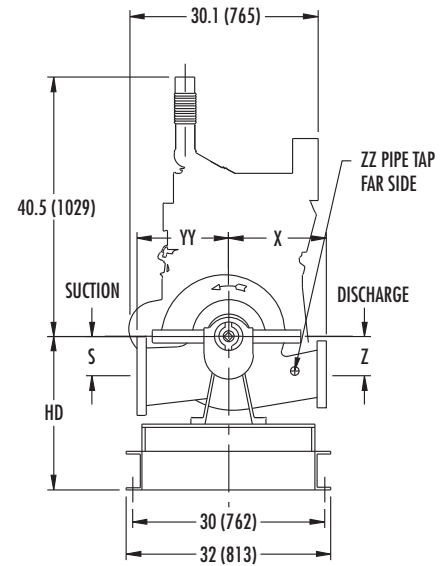
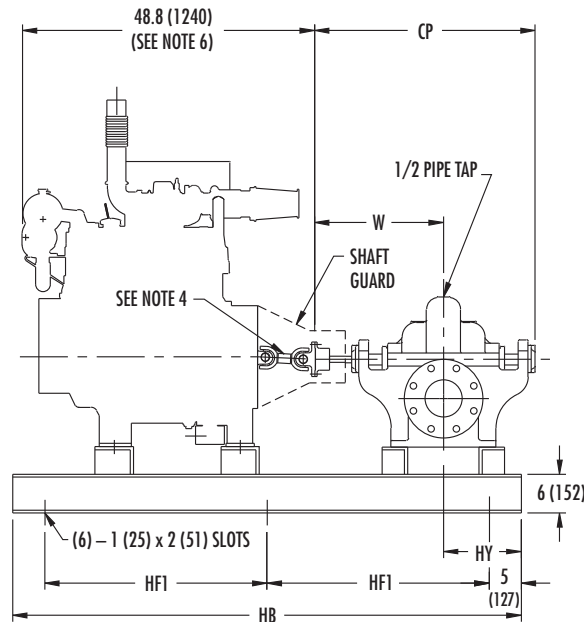
DIESEL DRIVE

Section **913** Page **209**

Date **June 1, 2007**

Supersedes Section 913 Page 209

Dated October 1, 2006



STANDARD *					OPTIONAL*					OPTIONAL					
125# SUCTION AND DISCHARGE FLANGES					125# SUCTION FLANGE, 250# DISCHARGE FLANGE					250# SUCTION AND DISCHARGE FLANGES					
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
3	481	10	4	2	4.5 (114)	13.5 (343)	10 (254)	4.5 (114)	24 (610)	11 (279)	1.25	78 (1981)	20 (508)	34 (864)	15.5 (394)
4	481	11A/C	5	3	5 (127)	14.5 (368)	11.25 (286)	5 (127)	26 (660)	12.75 (324)	1.25	78 (1981)	20 (508)	34 (864)	16.5 (419)
4	481	11D	5	3	5 (127)	14.5 (368)	12 (305)	5 (127)	26 (660)	12.75 (324)	1.25	78 (1981)	20 (508)	34 (864)	16.5 (419)
4	481	15	5	3	5.5 (140)	14.5 (368)	13 (330)	5.5 (140)	26 (660)	14 (356)	1.25	78 (1981)	20 (508)	34 (864)	15.5 (394)
4	491	8A	6	N/A	5.75 (146)	14.63 (9372)	10 (250)	5.5 (140)	25.94 (659)	11.25 (286)	.75	78 (1981)	20 (508)	34 (864)	15.3 (391)
4	491	14C	6	N/A	6.88 (175)	17.63 (448)	13 (330)	8.38 (213)	31.69 (805)	15.25 (387)	.75	88 (2235)	20 (508)	39 (991)	22.3 (568)
4	492	14	5	N/A	7.38 (187)	18.38 (467)	13.5 (343)	7.38 (187)	33.19 (843)	14 (356)	.75	78 (1981)	20 (508)	34 (864)	11.6 (295)
5	481	11C/D	6	4	5.5 (140)	16 (406)	11.25 (286)	5.5 (140)	28.5 (724)	13.25 (337)	1.25	78 (1981)	20 (508)	34 (864)	14 (356)
5	481	15	6	4	6.25 (159)	16 (406)	13.25 (337)	6.25 (159)	28.5 (724)	15 (381)	1.25	78 (1981)	20 (508)	34 (864)	14 (356)
6	481	11	8	4	6.25 (159)	16 (406)	11.75 (298)	6.25 (159)	28.5 (724)	14.5 (368)	1.25	78 (1981)	21 (533)	34 (864)	14 (356)
6	481	11HH	8	4A	8.63 (219)	18.13 (461)	10 (254)	8.63 (219)	32.88 (835)	15 (381)	1.25	78 (1981)	23 (584)	34 (864)	11.8 (302)
6	481	14HH	8	5A	7.5 (191)	20.44 (519)	15 (381)	7.5 (191)	36.75 (933)	17 (432)	1.25	88 (2235)	23 (584)	39 (991)	19.5 (497)
6	491	12A	6	N/A	6.88 (175)	16.63 (422)	20.5 (521)	7.13 (181)	29.69 (754)	14 (356)	1	78 (1981)	23 (584)	34 (864)	13.3 (340)
8	481	12	10	5	8 (9203)	18 (457)	17 (432)	9 (229)	32 (813)	17.75 (451)	1.25	78 (1981)	23 (584)	34 (864)	12 (305)

NOTES

1. All dimensions are in inches (mm).
2. Dimensions may vary $\pm 3/8"$ (9).
3. Not for construction purposes unless certified.
4. The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset .35 $\pm$.15 above the pump shaft. The engine crankshaft may be parallel offset from the pump shaft .35 right or left. Refer to the engine manual for alignment instructions.
5. Pump suction and discharge flanges are ANSI Standard flat face.
6. Refer to individual engine dimension print for reference point used to determine engine overall length.
7. Left hand (CCW) rotation not available.

* Standard flanges for 6-491-12A, 6-481-11HH & 6-481-14HH are 125# suction, 250 # discharge.

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AURORA MODELS 481, 491 & 492

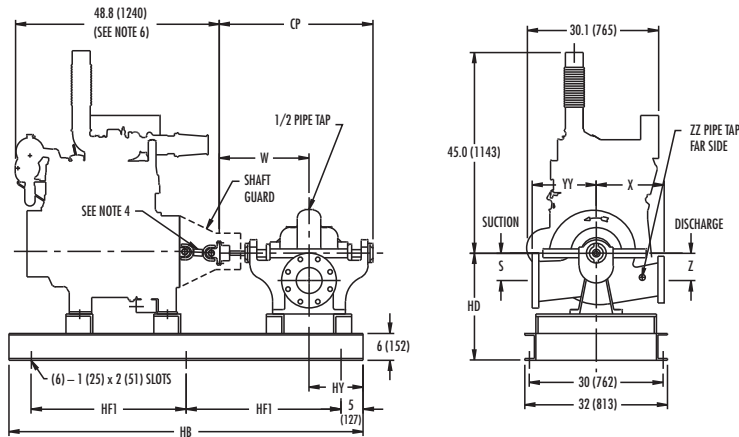
SINGLE STAGE FIRE PUMPS

CLARKE MODEL JU4H-UF30/32/34, JU4H-UF40/42/44
& JU4H-UF50/52/54, JU4H-UF58, JU4H-UFHO, JU4H-UFH2 & JU4H-UFH8
DIESEL DRIVE

Section **913** Page **211**

Date **June 2007**

Supersedes Section 913 Page 211
Dated April 2006



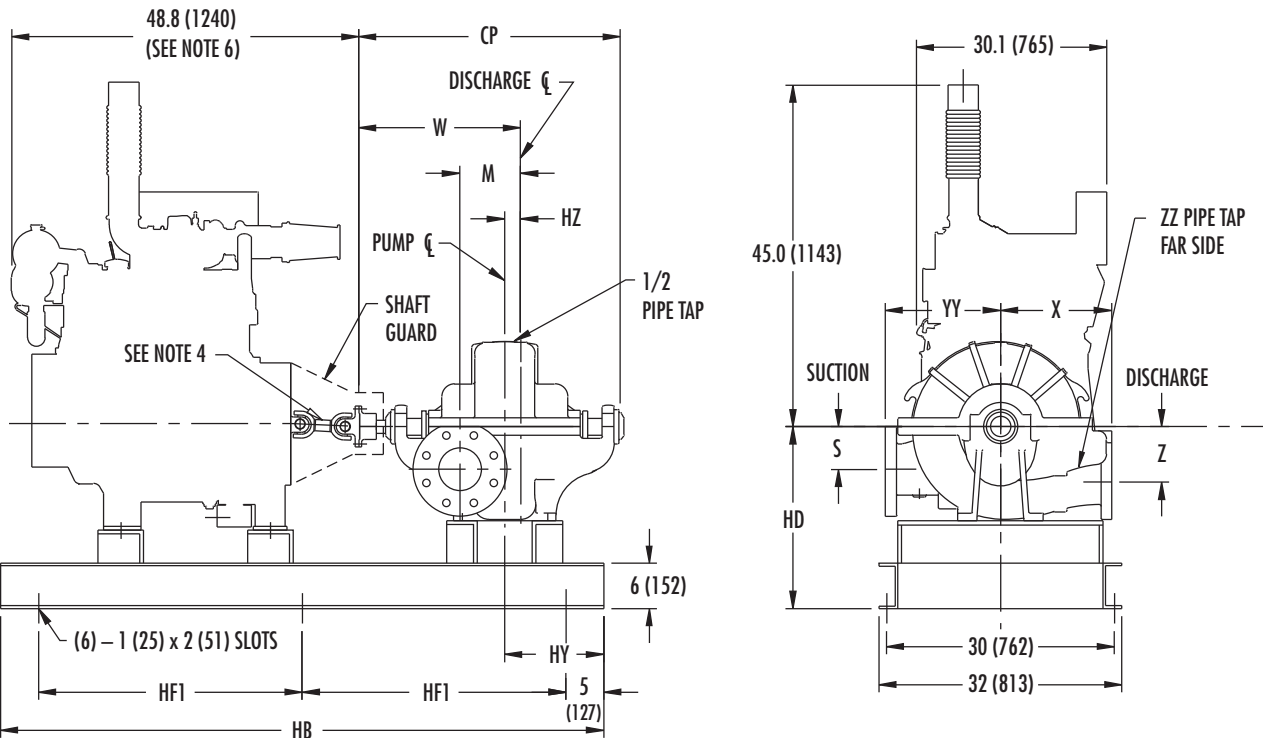
STANDARD *					OPTIONAL *					OPTIONAL						
125# SUCTION AND DISCHARGE FLANGES					125# SUCTION FLANGE, 250# DISCHARGE FLANGE					250# SUCTION AND DISCHARGE FLANGES						
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY	
DISCH	MODEL	CASE BORE														
4	481	11A/C D	5	3	5 (127)	14.5 (368)	11.25 (286) 12 (305)	5 (127)	26 (660)	12.75 (324)	1.25	78 (1981)	20 (508)	34 (864)	15.5 (394)	
4	481	15	5	3	5.5 (140)	14.5 (368)	13 (330)	5.5 (140)	26 (660)	14 (356)	1.25	78 (1981)	20 (508)	34 (864)	15.5 (394)	
4	491	14C	6	N/A	6.88 (175)	17.63 (448)	13 (330)	8.38 (213)	31.69 (805)	15.25 (387)	.75	88 (2235)	20 (508)	39 (991)	22.38 (568)	
4	492	14	5	N/A	7.38 (187)	18.38 (467)	13.5 (343)	7.38 (187)	33.19 (843)	14 (356)	.75	78 (1981)	20 (508)	34 (864)	11.63 (295)	
4	492	18	5	N/A	9.5 (241)	18.38 (467)	14 (356)	9.5 (241)	33.25 (845)	14 (356)	.75	88 (2235)	22 (559)	39 (991)	21.63 (549)	
5	481	11	6	4	5.5 (140)	16 (406)	11.25 (286)	5.5 (140)	28.5 (724)	13.25 (337)	1.25	78 (1981)	20 (508)	34 (864)	14 (356)	
5	481	15	6	4	6.25 (159)	16 (406)	13.25 (337)	6.25 (159)	28.5 (724)	15 (381)	1.25	78 (1981)	20 (508)	34 (864)	14 (356)	
5	481	17	6	4	6.25 (159)	16 (406)	14 (356)	6.25 (159)	28.5 (724)	15 (381)	1.25	78 (1981)	20 (508)	34 (864)	14 (356)	
5	491	14A	8	N/A	8.25 (210)	17.63 (448)	13.5 (343)	9.75 (248)	31.69 (805)	17.25 (438)	1	88 (2235)	23 (584)	39 (991)	22.38 (568)	
5	491	18A	8	N/A	8.13 (207)	18.88 (480)	15 (381)	10.63 (270)	33.38 (848)	18.75 (476)	1	88 (2235)	23 (584)	39 (991)	21.13 (537)	
6	481	11	8	4	6.25 (159)	16 (406)	11.75 (298)	6.25 (159)	28.5 (724)	14.5 (368)	1.25	78 (1981)	21 (533)	34 (864)	14 (356)	
6	481	11HH	8	4A	8.63 (219)	18.13 (461)	10 (254)	8.63 (219)	32.88 (835)	15 (3810)	1.25	78 (1981)	23 (584)	34 (864)	11.88 (302)	
6	481	14HH	8	5A	7.5 (191)	20.44 (519)	15 (381)	7.5 (191)	36.75 (933)	17 (432)	1.25	88 (2235)	23 (584)	39 (991)	19.56 (497)	
6	481	15	8	5	6.75 (171)	18 (457)	14.25 (362)	6.75 (171)	32 (813)	16.75 (425)	1.25	78 (1981)	21 (533)	34 (864)	12 (305)	
6	481	18B/C	8	5	8 (203)	18 (457)	16 (406)	8 (203)	32 (813)	18 (457)	1.25	78 (1981)	22 (559)	34 (864)	12 (305)	
6	491	12A	6	N/A	6.88 (175)	16.63 (422)	20.5 (521)	7.13 (181)	29.69 (754)	14 (356)	1	78 (1981)	23 (584)	34 (864)	13.38 (340)	
6	491	14	10	N/A	9.38 (238)	20.13 (511)	13.25 (337)	10 (254)	35.88 (911)	18 (457)	1	88 (2235)	25 (635)	39 (991)	19.88 (505)	
8	481	12	10	5	8 (203)	18 (457)	17 (432)	9 (229)	32 (813)	17.75 (451)	1.25	78 (1981)	24 (610)	34 (864)	12 (305)	
8	481	17B	10	5	8 (203)	18 (457)	17 (432)	9 (229)	32 (813)	17.75 (451)	1.25	78 (1981)	24 (610)	34 (864)	12 (305)	

NOTES

1. All dimensions are in inches (mm).
2. Dimensions may vary $\pm 3/8"$ (9).
3. Not for construction purposes unless certified.
4. The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset .35 $\pm$.15 above the pump shaft. The engine crankshaft may be parallel offset from the pump shaft .35 right or left. Refer to the engine manual for alignment instructions.
5. Pump suction and discharge flanges are ANSI Standard flat face.
6. Refer to individual engine dimension print for reference point used to determine engine overall length.
7. Left hand (CCW) rotation not available.

* Standard flanges for 6-491-12A, 6-481-11HH & 6-481-14HH are 125# suction, 250 # discharge.

AURORA MODEL 485
TWO STAGE FIRE PUMPS
CLARKE MODEL JU4H-UF50/52/58 DIESEL DRIVE



STANDARD 125# SUCTION AND 250# DISCHARGE FLANGE										OPTIONAL 250# SUCTION AND DISCHARGE FLANGES							
PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY	HZ
DISCH	MODEL	CASE BORE															
4	485	15	5	3	7.13 (181)	5 (127)	18.88 (480)	13 (330)	6.5 (165)	31 (787)	13.5 (343)	1-1/4	78 (1981)	20 (508)	34 (864)	13 (330)	1.88 (48)

- NOTES
1. All dimensions are in inches (mm).
 2. Dimensions may vary $\pm 3/8"$ (9).
 3. Not for construction purposes unless certified.
 4. The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset .35 $\pm$.15 above the pump shaft. The engine crankshaft may be parallel offset from the pump shaft .35 right or left. Refer to the engine manual for alignment instructions.
 5. Pump suction and discharge flanges are ANSI Standard flat face.
 6. Refer to individual engine dimension print for reference point used to determine engine overall length.
 7. Left hand (CCW) rotation not available.

AURORA MODEL 481

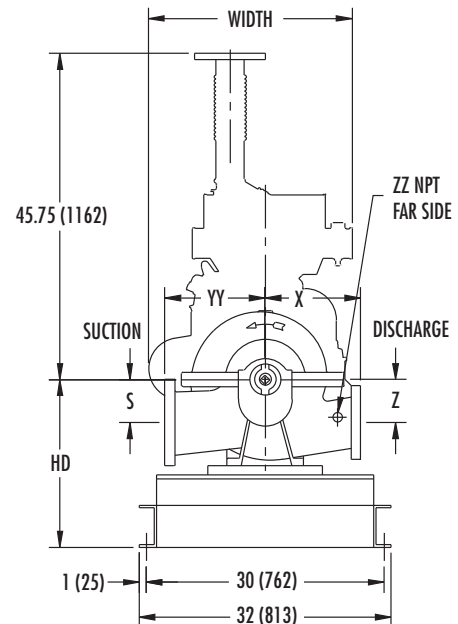
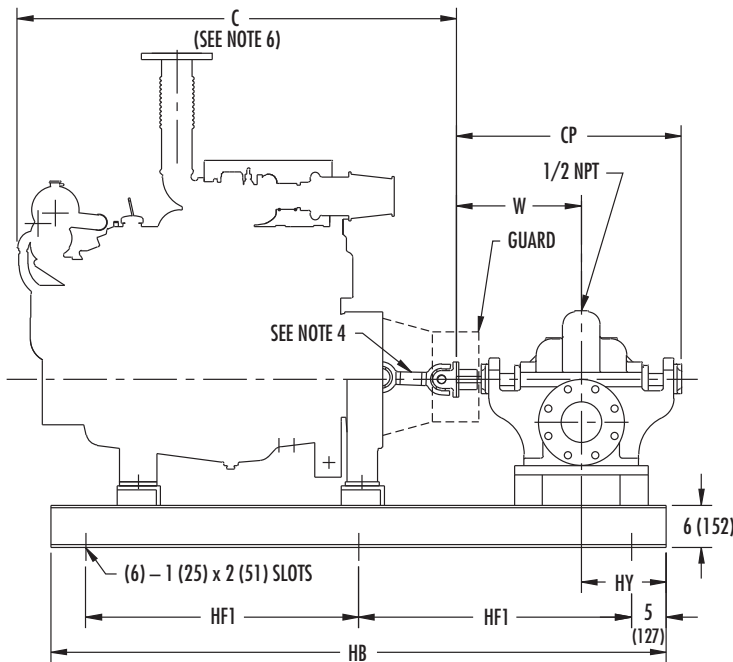
SINGLE STAGE FIRE PUMPS

CLARKE JU6H-UF30/32/34, -UF50/52/54/58/60/62/68/84,
-UFDO/D2, -UFG8, -UFMO/M2/M8
DIESEL DRIVE

Section **913** Page **213**

Date **June 2007**

Supersedes Section 913 Page 213
Dated April 2006



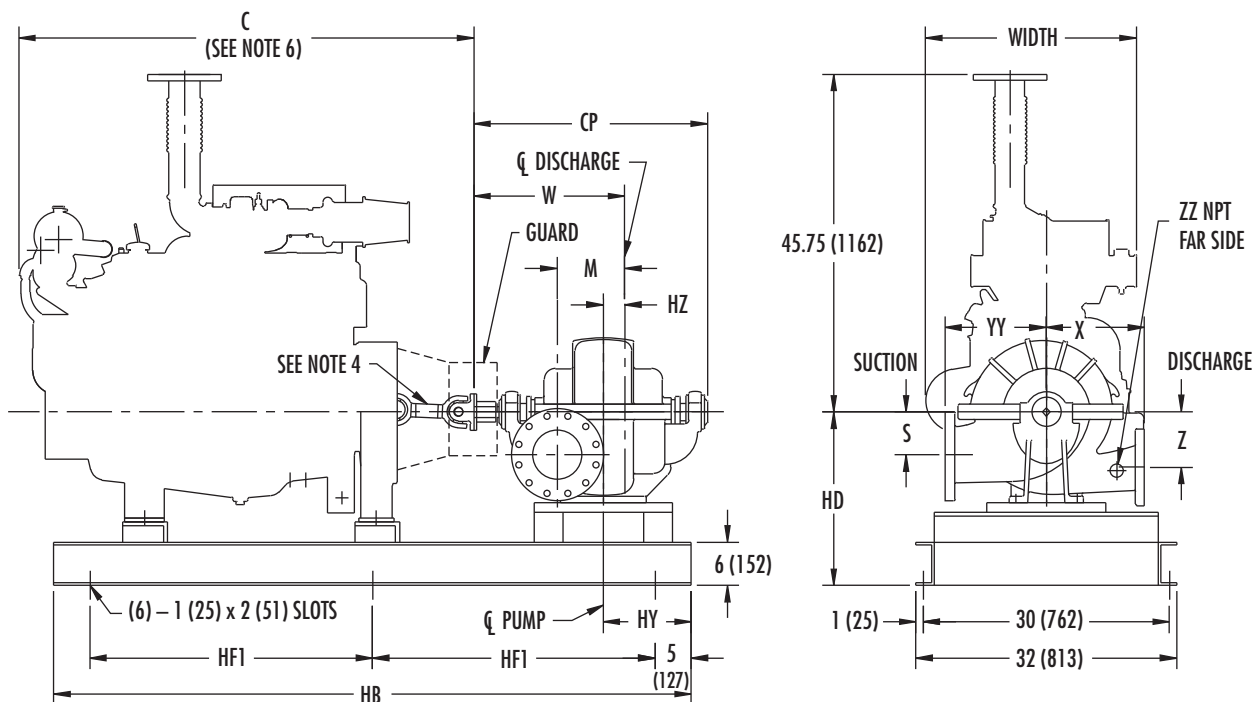
		STANDARD*		OPTIONAL*		OPTIONAL									
		125# SUCTION AND DISCHARGE FLANGES		125# SUCTION FLANGE, 250# DISCHARGE FLANGE		250# SUCTION AND DISCHARGE FLANGES									
PUMP SIZE															
DISCH	MODEL	CASE BORE	SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
4	481	11A/C	5	3	5 (127)	14.5 (368)	11.25 (286)	5 (127)	26 (660)	12.75 (324)	1.25	88 (2235)	20 (508)	39 (991)	15.5 (394)
4	481	11D	5	3	5 (127)	14.5 (368)	12 (305)	5 (127)	26 (660)	12.75 (324)	1.25	88 (2235)	20 (508)	39 (991)	15.5 (394)
4	481	15	5	3	5.5 (140)	14.5 (368)	13 (330)	5.5 (140)	26 (660)	14 (356)	1.25	88 (2235)	20 (508)	39 (991)	15.5 (394)
5	481	11	5	4	5.5 (140)	16 (406)	11.25 (286)	5.5 (140)	28.5 (724)	13.25 (337)	1.25	88 (2235)	20 (508)	39 (991)	14 (356)
5	481	15	6	4	6.25 (159)	16 (406)	13.25 (337)	6.25 (159)	28.5 (724)	15 (381)	1.25	88 (2235)	20 (508)	39 (991)	14 (356)
5	481	17	6	4	6.25 (159)	16 (406)	14 (356)	6.25 (159)	28.5 (724)	15 (381)	1.25	88 (2235)	20 (508)	39 (991)	14 (356)
6	481	11HH	8	4A	8.63 (219)	18.13 (461)	10 (254)	8.63 (219)	32.88 (835)	15 (381)	1.25	88 (2235)	23 (584)	39 (991)	11.88 (302)
6	481	14HH	8	5A	7.5 (191)	20.44 (519)	15 (381)	7.5 (191)	36.75 (933)	17 (432)	1.25	98 (2489)	23 (584)	44 (1118)	19.56 (497)
6	481	15/B	8	5	6.75 (171)	18 (457)	14.25 (362)	6.75 (171)	32 (813)	16.75 (425)	1.25	88 (2235)	21 (533)	39 (991)	12 (305)
6	481	18B/C	8	5	8 (203)	18 (457)	16 (406)	8 (203)	32 (813)	18 (457)	1.25	88 (2235)	22 (559)	39 (991)	12 (305)
6	481	20	8	5	8 (203)	18 (457)	15.75 (400)	8 (203)	32 (813)	18 (457)	1.25	88 (2235)	22 (559)	39 (991)	12 (305)
8	481	17B	10	5	8 (203)	18 (457)	17 (432)	8 (203)	32 (813)	17.75 (451)	2 (51)	88 (2235)	24 (610)	39 (991)	12 (305)
10	481	18D	12	7A	12.25 (311)	24.31 (617)	20 (508)	12.25 (311)	42.94 (1091)	24 (610)	1.25	98 (2489)	31 (787)	44 (1118)	15.69 (399)

ENGINE MODEL	C	WIDTH
JU6H-UF30 -UF32, -UF34 -UF50, -UF52 -UF54, -UF58 -UFDO, -UFDO2 -UFG8, -UFMO -UFM2, -UFM8	61.06 (1551)	29.64 (753)
JU6H-UF60 -UF62, -UF68 -UF84	62.80 (1595)	31.74 (806)

NOTES

- All dimensions are in inches (mm).
- Dimensions may vary $\pm 3/8"$ (9).
- Not for construction purposes unless certified.
- The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset .35 $\pm$.18 above the pump shaft. The engine crankshaft may be parallel offset from the pump shaft .35 right or left. Refer to the engine manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine "C" dimension.
- Left hand (CCW) rotation not available.

* Pump sizes 6-481-11HH & 6-481-14HH are furnished as standard with 125# suction flange and 250# discharge flange.

AURORA MODEL 485**TWO STAGE FIRE PUMPS****CLARKE JU6H-UF30/32/34, -UF50/52/54/58 & -UF60/62/84/84****UFD0/D2/G8/M0/M2/M8****DIESEL DRIVE**

STANDARD 125# SUCTION AND 250# DISCHARGE FLANGE					OPTIONAL 250# SUCTION AND DISCHARGE FLANGES												
PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY	HZ
DISCH	MODEL	CASE BORE															
4	485	15	5	3	7.13 (181)	5 (127)	18.88 (480)	13 (330)	6.5 (165)	31 (787)	13.5 (343)	1-1/4	88 (2235)	20 (508)	39 (991)	13 (330)	1.88 (48)
5	485	12	5	4A	6.63 (168)	7 (178)	20.88 (5300)	13 (330)	7 (178)	35.38 (899)	13 (330)	1.25	98 (2489)	20 (508)	44 (1118)	20.5 (521)	1.38 (35)
6	485	12	6	5A	7.5 (191)	8 (203)	22.88 (9581)	14 (356)	8 (203)	38.5 (978)	14 (356)	1-1/4	98 (2489)	22 (559)	44 (1118)	18.75 (476)	1.63 (41)
6	485	16/ 168	8	5	10.5 (267)	8.25 (210)	23.63 (600)	19 (483)	7.75 (197)	37.88 (962)	17 (432)	1-1/4	98 (2489)	22 (584)	44 (1118)	19 (483)	3.5 (67)
6	485	17A	8	5	11 (279)	7 (178)	24.5 (622)	16 (406)	9 (229)	38 (965)	16.5 (419)	1-1/4	98 (2489)	22 (559)	44 (1118)	19 (483)	3.5 (89)

ENGINE MODEL	C	WIDTH
JU6H-UF30/32/34	61.06 (1551)	29.64 (753)
JU6H-UF50/52/54/58	61.06 (1551)	29.64 (753)
JU6H-UF DO, UFD2, UFG8	61.06 (1551)	29.64 (753)
JU6H-UFMO, UFM2, UFM8	61.06 (1551)	29.64 (753)
JU6H-UF60/62/68/84	62.80 (1595)	31.74 (806)

NOTES

1. All dimensions are in inches (mm).
2. Dimensions may vary $\pm 3/8"$ (9).
3. Not for construction purposes unless certified.
4. The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset .35 $\pm$.18 above the pump shaft. The engine crankshaft may be parallel offset from

- the pump shaft .35 right or left. Refer to the engine manual for alignment instructions.
5. Pump suction and discharge flanges are ANSI Standard flat face.
6. Refer to individual engine dimension print for reference point used to determine "C" dimension.
7. Left hand (CCW) rotation not available.

AURORA MODELS 491 & 492

SINGLE STAGE FIRE PUMPS

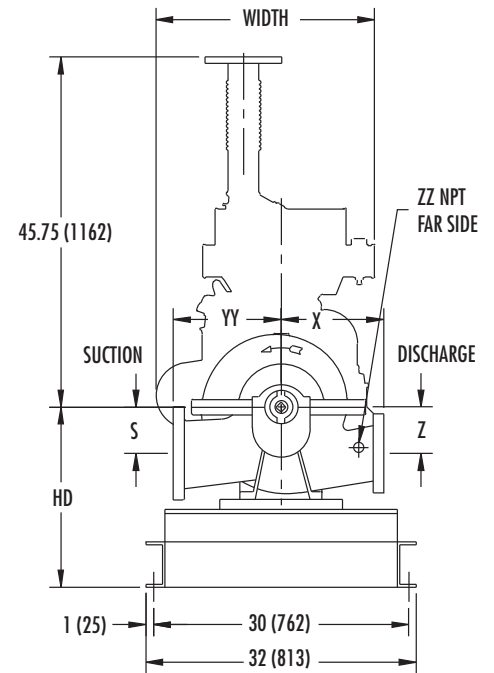
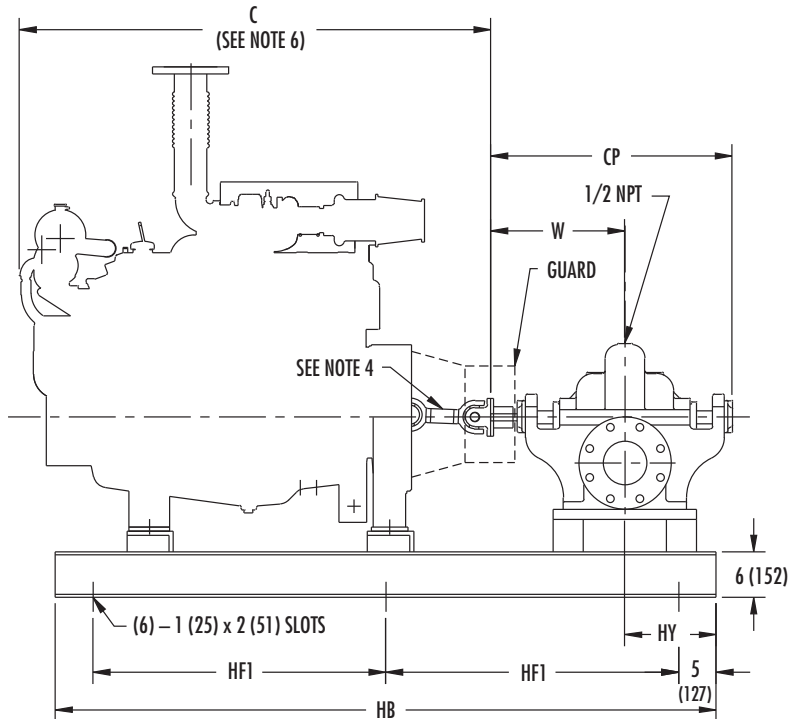
CLARKE JU6H-UF30/32/34, -UF50/52/54/58/60/62/68/84,
-UFDO/D2, -UFG8, -UFM0/M2/M8
DIESEL DRIVE

Section **913** Page **215**

Date **March 2009**

Supersedes Section 913 Page 215

Dated April 2005



STANDARD *				OPTIONAL						OPTIONAL				
	125# SUCTION AND DISCHARGE FLANGES				125# SUCTION FLANGE, 250# DISCHARGE FLANGE				250# SUCTION AND DISCHARGE FLANGES					
PUMP SIZE			SUCTION	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE												
4	491	14C	6	6.88 (175)	17.63 (448)	13 (330)	8.38 (213)	31.69 (805)	15.25 (387)	3/4	98 (2489)	20 (508)	44 (1118)	22.38 (568)
4	492	18	5	9.5 (241)	18.38 (467)	14 (356)	9.5 (241)	33.25 (845)	14 (356)	3/4	98 (2489)	22 (559)	44 (1118)	21.63 (549)
5	491	14A	8	8.25 (210)	17.63 (448)	13.5 (343)	9.75 (248)	31.69 (805)	17.25 (438)	1	98 (2489)	23 (584)	44 (1118)	22.38 (568)
5	491	18A	8	8.13 (207)	18.88 (480)	15 (381)	10.63 (270)	33.38 (848)	18.75 (476)	1	98 (2489)	23 (584)	44 (1118)	21.13 (537)
5	492	18	6	10 (254)	21 (533)	14 (356)	10 (254)	37.13 (943)	14 (356)	1	98 (2489)	23 (584)	44 (1118)	19 (483)
6	491	12A	6	6.88 (175)	16.63 (422)	20.5 (521)	7.13 (181)	29.69 (754)	14 (356)	1	98 (2489)	23 (584)	44 (1118)	13.38 (340)
6	491	14C	10	9.38 (238)	20.13 (511)	13.25 (337)	10 (254)	35.88 (911)	18 (457)	1	98 (2489)	25 (635)	44 (1118)	19.88 (505)
6	491	18C	10	9.38 (238)	20.13 (511)	16 (406)	11.75 (298)	35.88 (911)	20 (508)	1	98 (2489)	25 (635)	44 (1118)	19.88 (505)
6	492	15	8	8.75 (222)	22.5 (572)	15.5 (394)	8.75 (222)	40.25 (1022)	15 (381)	1	98 (2489)	23 (584)	44 (1118)	17.5 (445)
8	491	14A	12	10.75 (273)	20.5 (521)	16 (406)	10.75 (273)	36.63 (930)	22 (559)	1	98 (2489)	28 (711)	44 (1118)	19.5 (495)
8	491	18A	12	10.75 (273)	23.75 (603)	16 (406)	12.5 (318)	41.5 (1054)	22 (559)	1	98 (2489)	28 (711)	44 (1118)	16.25 (413)
8	492	15	10	9.25 (235)	22.5 (572)	17 (432)	9.25 (235)	40.25 (1022)	17 (432)	1	98 (2489)	25 (635)	44 (1118)	17.5 (445)

ENGINE MODEL	C	WIDTH
JU6H-UF30 -UF32, -UF34 -UF50, -UF52 -UF54, -UF58 -UFDO, -UFD2 -UFG8, -UFM0 -UFM2, -UFM8	61.06 (1551)	29.64 (753)
JU6H-UF60 -UF62, -UF68 -UF84	62.80 (1595)	31.74 (806)

NOTES

- All dimensions are in inches (mm).
- Dimensions may vary $\pm 3/8"$ (9).
- Not for construction purposes unless certified.
- The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset .35 $\pm$.18 above the pump shaft. The engine crankshaft may be parallel offset from the pump shaft .35 right or left. Refer to the engine manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine "C" dimension.
- Left hand (CCW) rotation not available.

* Standard flanges for 6-491-12A are 125# suction, 250 # discharge

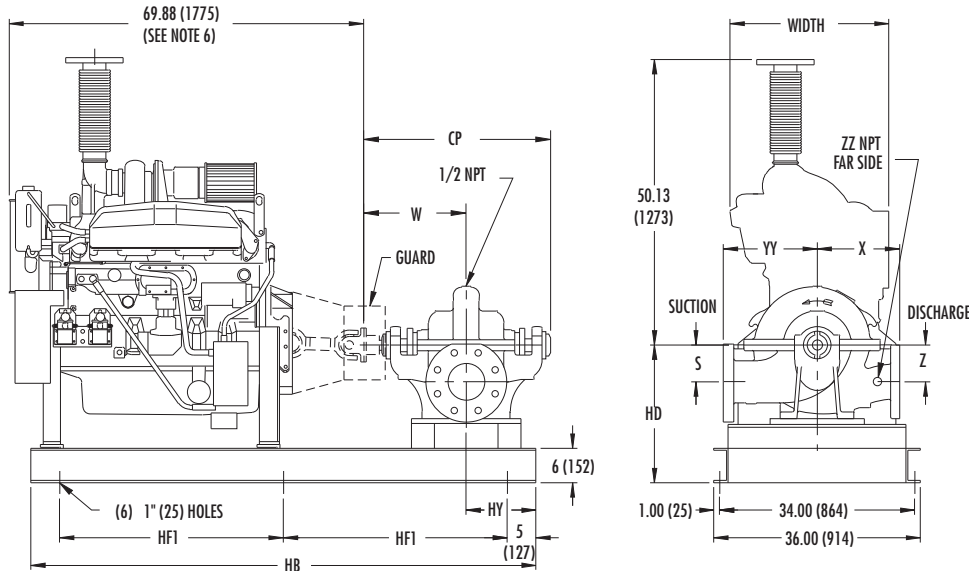
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SINGLE STAGE FIRE PUMPS

Date **March 2009**

CLARKE JW6H-UF30/38/40/48/UF50/58/60 & UFH8 DIESEL DRIVE

Supersedes Section 913 Page 217
Dated November 2008



STANDARD					OPTIONAL					OPTIONAL					
 125# SUCTION AND DISCHARGE FLANGES			 125# SUCTION FLANGE, 250# DISCHARGE FLANGE			 250# SUCTION AND DISCHARGE FLANGES									
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
5	481	17	6	4	6.25 (159)	16 (406)	14 (356)	6.25 (159)	28.5 (724)	15 (381)	1.25	98 (2489)	24 (610)	44 (1118)	14 (356)
5	491	18A	8	N/A	8.13 (207)	18.88 (480)	15 (381)	10.63 (270)	33.38 (848)	18.75 (476)	1	108 (2997)	24 (610)	49 (1245)	21.13 (537)
6	481	14HH	8	5A	7.5 (190)	20.5 (521)	15 (381)	7.5 (190)	36.75 (933)	17 (190)	1	108 (2997)	24 (610)	49 (1245)	19.5 (495)
6	481	15	8	5	6.75 (171)	18 (457)	14.25 (362)	6.75 (171)	32 (813)	16.75 (425)	1.25	98 (2489)	24 (610)	44 (1118)	12 (305)
6	481	18B/C	8	5	8 (203)	18 (457)	16 (406)	8 (203)	32 (813)	18 (457)	1.25	98 (2489)	24 (610)	44 (1118)	12 (305)
6	481	20	8	5	8 (203)	18 (457)	15.75 (400)	8 (203)	32 (813)	18 (457)	1.25	98 (2489)	24 (610)	44 (1118)	12 (305)
6	491	14A/C	10	N/A	9.38 (238)	20.13 (511)	13.25 (337)	10 (254)	35.88 (911)	18 (457)	1	108 (2743)	26 (660)	49 (1245)	19.88 (505)
6	491	18C	10	N/A	9.38 (238)	20.13 (511)	16 (406)	11.75 (298)	35.88 (911)	20 (508)	1	108 (2743)	26 (660)	49 (1245)	19.88 (505)
6	491	19A	10	N/A	9.38 (238)	22.63 (575)	18 (457)	12.13 (308)	39.25 (997)	22 (559)	1	108 (2743)	25 (635)	49 (1245)	17.38 (491)
8	481	17B	10	5	8 (203)	18 (457)	17 (432)	8 (203)	32 (813)	17.75 (451)	1.25	98 (2489)	24 (610)	44 (991)	12 (305)
8	481	21/A	10	6B	9.5 (241)	21.88 (556)	18 (457)	9.5 (241)	38 (965)	21 (533)	1.25	108 (2473)	25 (635)	49 (1245)	18.13 (461)
8	491	14A	12	N/A	10.75 (273)	20.5 (521)	16 (406)	10.75 (273)	36.63 (930)	22 (559)	1	108 (2743)	28 (711)	49 (1245)	18.13 (461)
8	491	18A	12	N/A	10.75 (273)	23.75 (603)	16 (406)	12.5 (318)	41.5 (1054)	22 (559)	1	108 (2743)	28 (711)	49 (1245)	16.25 (413)
8	481	24	12	7	15 (381)	25.25 (641)	20 (508)	15 (381)	43.88 (1115)	25 (635)	2	118 (2997)	32 (813)	54 (1372)	24.75 (629)
10	481	15C	12	6B	13.5 (343)	21.88 (556)	17 (432)	13.5 (343)	38 (965)	20 (559)	1.25	108 (2743)	31 (787)	49 (1245)	18.13 (461)
10	481	18	12	6B	13.5 (343)	21.88 (556)	18 (457)	13.5 (343)	38 (965)	22 (559)	1.25	108 (2743)	31 (787)	49 (1245)	18.13 (461)
10	481	18D	12	7A	12.25 (311)	24.31 (617)	20 (508)	12.25 (311)	42.94 (1091)	24 (610)	1.25	118 (2997)	31 (787)	54 (1372)	15.69 (399)
10	492	18	12	N/A	11.5 (292)	25.56 (649)	21 (533)	11.5 (292)	45.81 (1164)	21 (533)	1	118 (2997)	29 (737)	54 (1372)	24.44 (621)

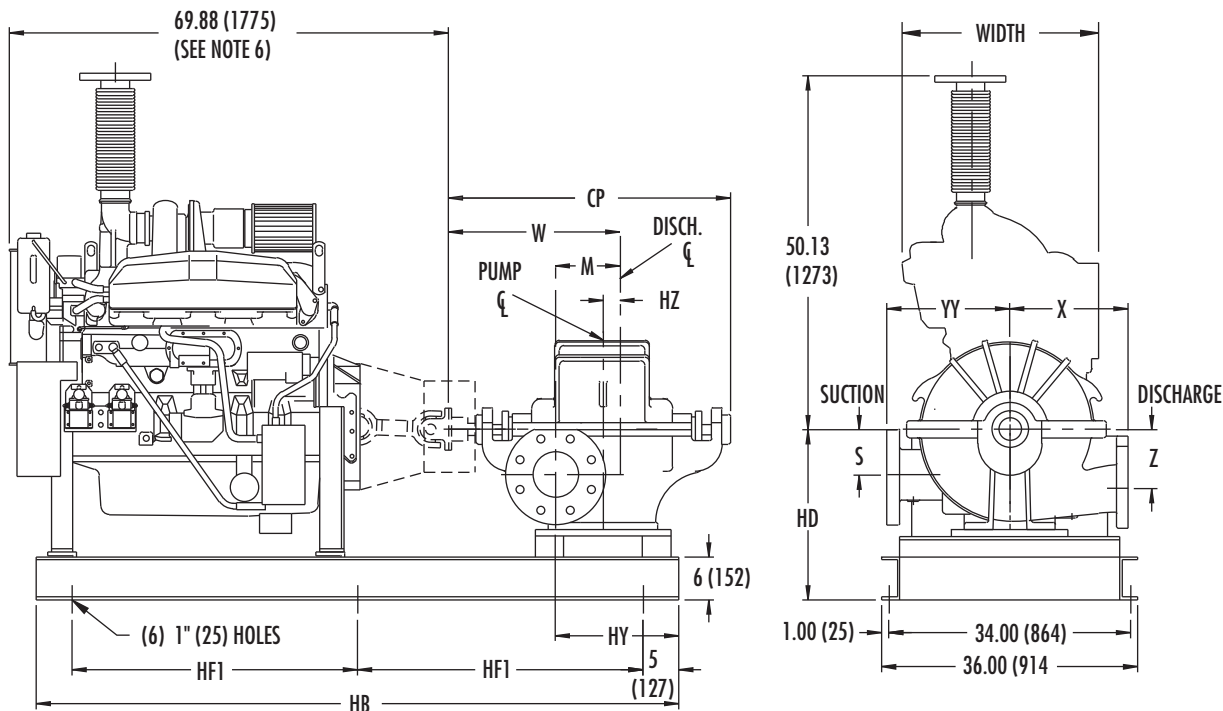
ENGINE MODEL	WIDTH
JW6H-UF30-UF38	29.5 (749)
JW6H-UF40-UF48, -UF50-UF58, -UF60	28.6 (726)

NOTES

1. All dimensions are in inches (mm).
2. Dimensions may vary $\pm 3/8"$ (9).
3. Not for construction purposes unless certified.
4. The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset .35 $\pm$.18 above the pump shaft. The engine crankshaft may be parallel offset from the pump shaft up to .35 laterally. Refer to the engine manual for alignment instructions.
5. Pump suction and discharge flanges are ANSI Standard flat face.
6. Refer to individual engine dimension print for reference point used to determine overall engine length.
7. Left hand (CCW) rotation is not available.

AURORA MODELS 485 & 495

TWO STAGE FIRE PUMPS
CLARKE JW6H-UF30 & JW6H-UF40
DIESEL DRIVE



STANDARD					OPTIONAL												
125# SUCTION AND 250# DISCHARGE FLANGE					250# SUCTION AND DISCHARGE FLANGES												
PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY	HZ
DISCH	MODEL	CASE BORE															
4	485	15	5	3	7.13 (181)	5 (127)	18.88 (480)	13 (330)	6.5 (165)	31 (787)	13.5 (343)	1-1/4	98 (2489)	24 (610)	44 (1118)	18.25 (464)	1.88 (48)
5	485	15	6	4	9.13 (232)	5.5 (140)	21.13 (537)	15 (381)	7.5 (191)	34.5 (876)	15.44 (392)	1-1/4	98 (2489)	24 (610)	44 (1118)	18 (457)	2.13 (54)
6	485	16/ 16B	8	5	10.5 (267)	8.25 (210)	23.63 (600)	19 (483)	7.75 (197)	37.88 (962)	17 (432)	1.25	108 (2743)	23 (584)	49 (1245)	19 (483)	3.5 (89)
6	485	17A	8	5	11 (279)	7 (178)	24.5 (622)	16 (406)	9 (229)	38 (965)	16.5 (419)	1-1/4	98 (2489)	24 (610)	44 (1118)	16.5 (419)	3.5 (89)
6	495	17	8	N/A	13 (330)	10.5 (267)	31.63 (803)	16.5 (419)	10.5 (267)	52.5 (1334)	16.5 (419)	1	118 (2997)	25 (635)	54 (1372)	31.38 (797)	3.25 (83)

ENGINE MODEL	WIDTH
JW6H-UF30 (JDFP-06WA)	29.5 (749)
JW6H-UF40 (JDFP-06WR)	28.6 (726)

- NOTES
1. All dimensions are in inches (mm).
 2. Dimensions may vary $\pm 3/8"$ (9).
 3. Not for construction purposes unless certified.
 4. The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset .35 $\pm$.15 above the pump shaft. The engine crankshaft may be parallel offset from the pump shaft .35 right or left. Refer to the engine manual for alignment instructions.
 5. Pump suction and discharge flanges are ANSI Standard flat face.
 6. Refer to individual engine dimension print for reference point used to determine engine overall length.
 7. Left hand (CCW) rotation not available.

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AURORA MODEL 481

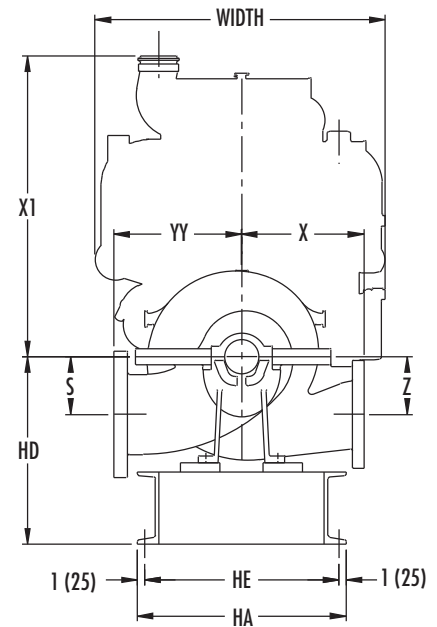
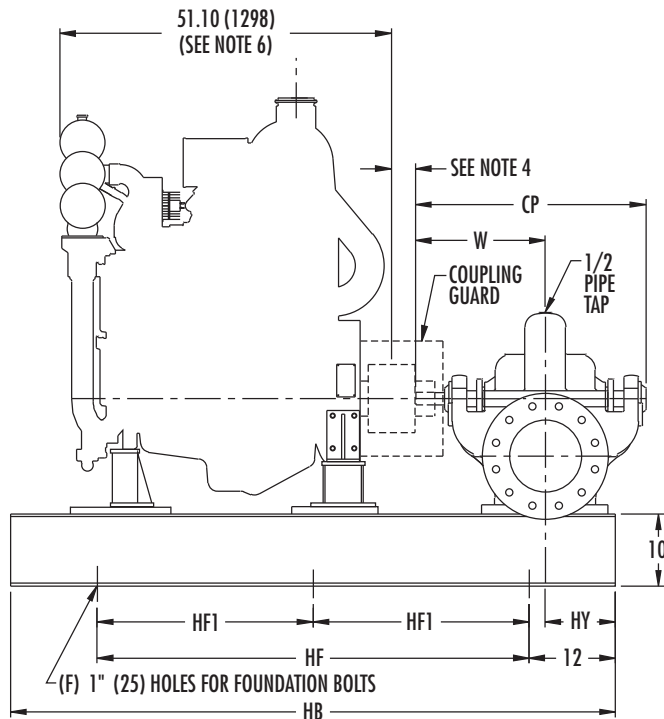
SINGLE STAGE FIRE PUMPS

CLARKE DDFP-08FA & -08FH DIESEL DRIVE

Section **913** Page **221**

Date **February 2005**

Supersedes Section 913 Page 221
Dated November 2001

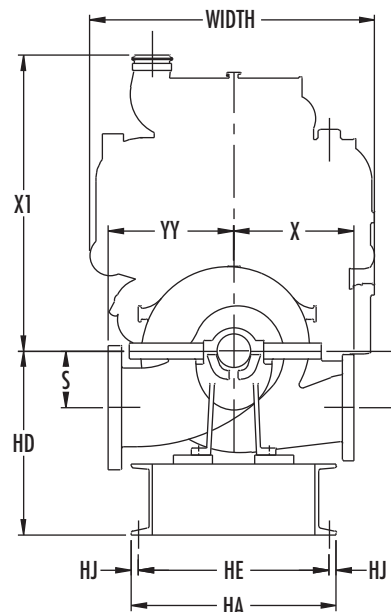
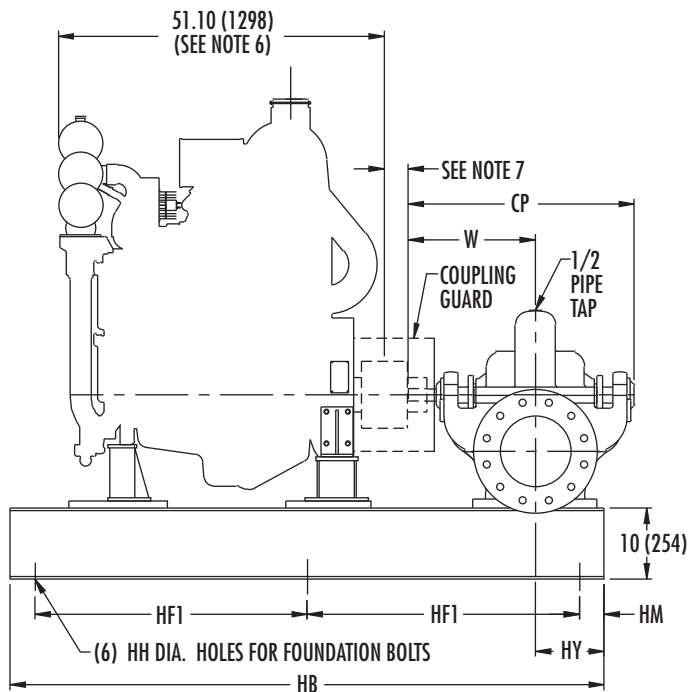


STANDARD					OPTIONAL					OPTIONAL									
125# SUCTION AND DISCHARGE FLANGES					125# SUCTION FLANGE, 250# DISCHARGE FLANGE					250# SUCTION AND DISCHARGE FLANGES									
PUMP SIZE																			
DISCH	MODEL	CASE BORE	SUCTION	POWER SERIES	S	W	X	Z	CP	YY	HA	HB	HD	HE	HF	HF1	F	HY	
8	481	17B	10	5	8 (203)	18 (457)	17 (432)	8 (203)	32 (813)	17.75 (451)	29 (737)	84 (2134)	25.5 (648)	27 (686)	60 (1524)	N/A	4	12 (305)	
8	481	21/A	10	6B	9.5 (241)	21.88 (556)	18 (457)	9.5 (241)	38 (965)	21 (533)	31 (787)	90 (2286)	35.75 (908)	29 (737)	66 (1676)	33 (838)	6	18.13 (461)	
10	481	15C	12	6B	13.5 (343)	21.88 (556)	17 (432)	13.5 (343)	38 (965)	20 (508)	31 (787)	90 (2286)	35.75 (908)	29 (737)	66 (1676)	33 (838)	6	18.13 (461)	
10	481	18	12	6B	13.5 (343)	21.88 (556)	18 (457)	13.5 (343)	38 (965)	22 (559)	31 (787)	90 (2286)	35.75 (908)	29 (737)	66 (1676)	33 (838)	6	18.13 (461)	
10	481	18D	12	7A	12.25 (311)	24.31 (617)	20 (508)	12.25 (311)	42.94 (1091)	24 (610)	31 (787)	90 (2286)	35.75 (908)	29 (737)	66 (1676)	33 (838)	6	12 (305)	
12	481	18A	14	7	15 (381)	25.25 (641)	18 (457)	15 (381)	43.88 (1115)	23 (584)	31 (787)	90 (2286)	35.75 (908)	29 (737)	66 (1676)	33 (838)	6	18.13 (461)	

ENGINE MODEL	C	WIDTH
DDFP-08FA	43.75 (1111)	41.02 (1042)
DDFP-08FH	39.38 (1000)	52.75 (1340)

NOTES

1. All dimensions are in inches (mm).
2. Dimensions may vary $\pm 3/8"$ (9).
3. Not for construction purposes unless certified.
4. Coupling gap is approximately 3.63 (92).
5. Pump suction and discharge flanges are ANSI Standard flat face.
6. Refer to individual engine dimension print for reference point used to determine overall engine length.
7. Left hand (CCW) rotation is not available.

AURORA MODELS 491 & 492**SINGLE STAGE FIRE PUMPS****CLARKE DDFP-08FA & -08FH DIESEL DRIVE**

STANDARD *				OPTIONAL						OPTIONAL										
	125# SUCTION AND DISCHARGE FLANGES				125# SUCTION FLANGE, 250# DISCHARGE FLANGE							250# SUCTION AND DISCHARGE FLANGES								
PUMP SIZE			SUCTION	S	W	X	Z	CP	YY	HA	HB	HD	HF1	HE	HH	HJ	HM	HY		
DISCH	MODEL	CASE BORE																		
6	491	19A	10	9.38 (238)	22.63 (575)	18 (457)	12.13 (308)	39.25 (997)	22 (559)	36.75 (933)	96.5 (2451)	27.75 (705)	45 (1143)	35 (889)	.69 (18)	.88 (22)	3.25 (83)	13.13 (334)		
8	491	18A	12	10.75 (273)	23.75 (603)	16 (406)	12.5 (318)	41.5 (1054)	22 (559)	36.75 (933)	96.5 (2451)	30.5 (775)	45 (1143)	35 (889)	0.69 (18)	0.88 (22)	3.25 (83)	13.13 (334)		
10	492	18	12	11.5 (292)	25.63 (651)	21 (533)	11.5 (292)	45.88 (1165)	21 (533)	36.75 (933)	96.5 (2451)	30.75 (781)	45 (1143)	35 (889)	0.69 (18)	0.88 (22)	3.25 (83)	13.75 (349)		
10	491	20	16	13 (330)	25.56 (649)	23 (584)	14.25 (362)	44.56 (1132)	25 (635)	31 (787)	90 (2286)	35.75 (908)	33 (838)	29 (737)	1 (25)	1 (25)	12 (305)	12 (305)		

ENGINE MODEL	C	WIDTH
DDFP-08FA	43.75 (1111)	41.02 (1042)
DDFP-08FH	39.38 (1000)	52.75 (1340)

NOTES

1. All dimensions are in inches (mm).
2. Dimensions may vary $\pm 3/8"$ (9).
3. Not for construction purposes unless certified.
4. Pump suction and discharge flanges are ANSI Standard flat face.
5. Flange ratings are either 125# or 250# and must be specified for each order submittal.
6. Refer to individual engine dimension print for reference point used to determine overall engine length.
7. Coupling gap is approximately 3.63 (92).
8. Left hand (CCW) rotation is not available.

* Standard flanges for 10-491-20 are 125# suction, 250 # discharge

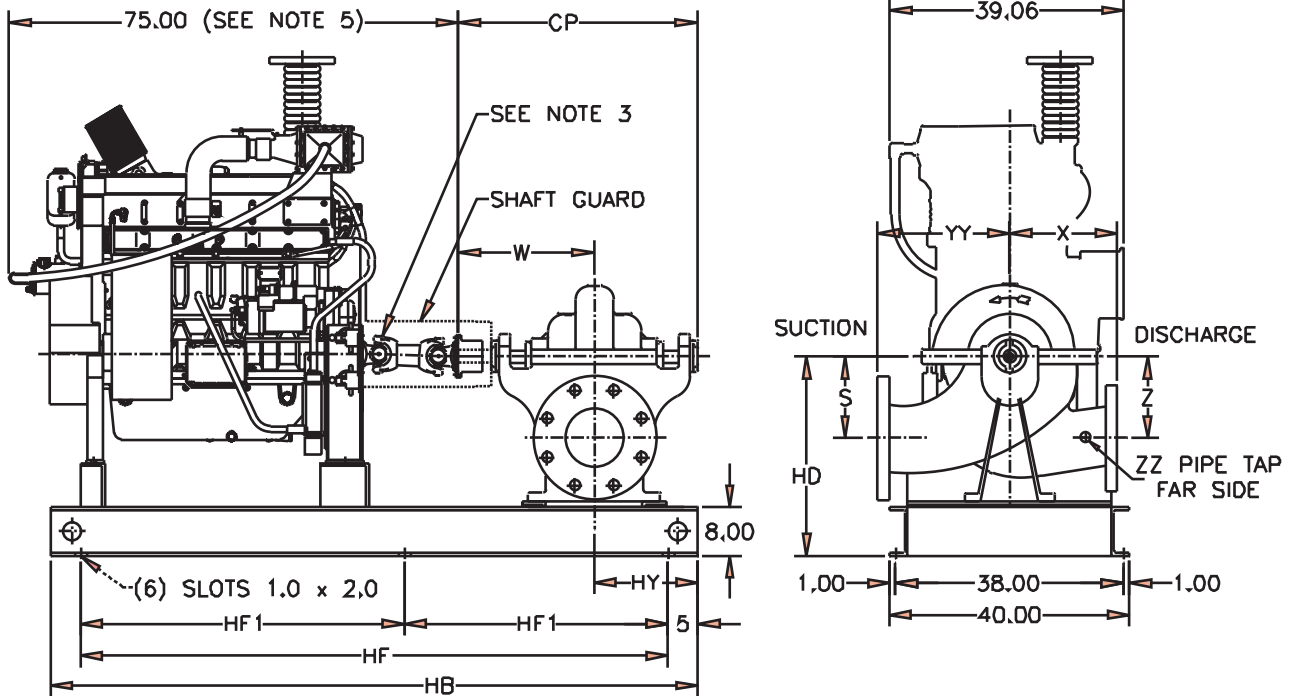
AURORA 481 FIRE PUMPS

CLARKE MODEL JX6H-UF30, -UF40,
-UF50, -UF60 & UF70 DIESEL ENGINES

Section **913** Page **223**

Date **June 2007**

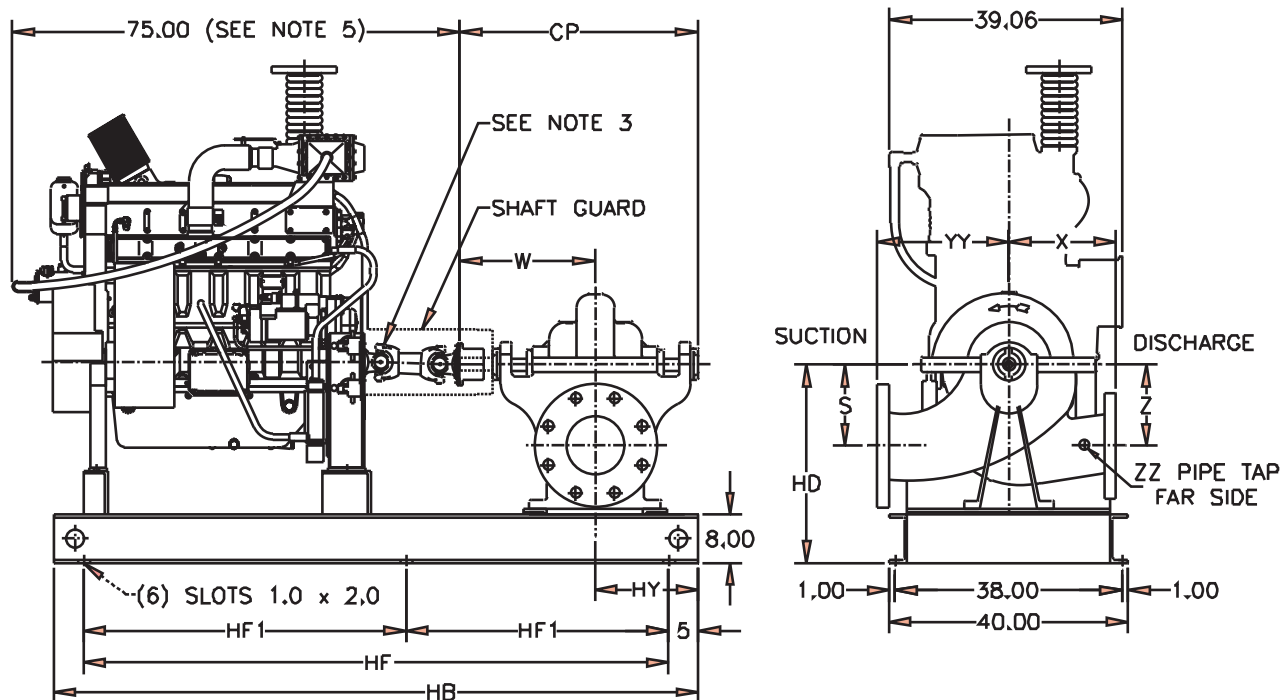
Supersedes Section 913 Page 223
Dated April 2006



STANDARD 125# SUCTION AND DISCHARGE FLANGES																	OPTIONAL 125# SUCTION FLANGE, 250# DISCHARGE FLANGE					OPTIONAL 250#SUCTION AND DISCHARGE FLANGES				
PUMP SIZE																										
DISCH	MODEL	CASE BORE	SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF	HF1	HY										
6	481	18B/C	8	5	8 (203)	18 (457)	16 (406)	8 (203)	32 (813)	18 (457)	1.25 (32)	108 (2743)	26 (660)	98 (2498)	49 (1245)	22 (559)										
8	481	21	10	6B	9.5 (241)	21.88 (556)	18 (457)	9.5 (241)	38 (965)	21 (533)	2 (51)	108 (2743)	27 (686)	98 (2489)	49 (1245)	18.13 (461)										
10	481	18	12	6B	13.5 (343)	21.88 (556)	18 (457)	13.5 (343)	38 (965)	22 (559)	2 (51)	108 (2743)	33 (838)	98 (2489)	49 (1245)	18.13 (461)										
10	481	18D	12	7A	12.25 (311)	24.31 (617)	20 (508)	12.25 (311)	42.94 (1091)	24 (610)	2 (51)	108 (2743)	33 (838)	98 (2489)	49 (1245)	15.69 (399)										
12	481	18A	14	7	15 (381)	25.25 (641)	18 (457)	15 (381)	43.88 (1115)	23 (584)	2 (51)	118 (2997)	33 (838)	108 (2743)	54 (1372)	24.75 (629)										

NOTES:

1. All dimensions are in inches and may vary $\pm 3/8"$ (10 MM)
2. Not for construction purposes unless certified.
3. The driveshaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset 0.35 ± 0.18 inch above the pump shaft. The engine crankshaft may be parallel offset from the pump shaft 0.35 inch right or left. Refer to the engine manual for alignment instructions.
4. Suction and discharge flanges are ANSI Standard flat face.
5. Refer to individual engine dimension print for reference point used to determine this dimension.
6. Left hand (CCW) rotation not available.

AURORA 491 & 492 FIRE PUMPSCLARKE MODEL JX6H-UF30, -UF40,
-UF50, -UF60 & UF70 DIESEL ENGINES

STANDARD 125# SUCTION AND DISCHARGE FLANGES			OPTIONAL 125# SUCTION FLANGE, 250# DISCHARGE FLANGE			OPTIONAL 250# SUCTION AND DISCHARGEFR FLANGES									
PUMP SIZE															
DISCH	MODEL	CASE BORE	SUCTION	S	W	X	Z	CP	YY	ZZ	HB	HD	HF	HF1	HY
6	491	18C	10	9.38 (238)	20.13 (511)	16 (406)	11.75 (298)	35.88 (911)	20 (508)	1 (25)	108 (2743)	28 (711)	98 (2489)	49 (1245)	19.88 (505)
6	491	19A	10	9.38 (238)	22.63 (575)	18 (457)	12.13 (308)	39.25 (997)	22 (559)	1 (25)	108 (2743)	28 (711)	98 (2489)	49 (1245)	17.38 (441)
8	491	18A	12	12.50 (273)	20.5 (521)	16 (406)	12.50 (273)	36.63 (930)	22 (599)	1 (25)	108 (2743)	30 (762)	98 (2489)	49 (1245)	19.5 (495)
8	492	24	12	13.5 (343)	28.63 (727)	20 (508)	15 (381)	51.5 (1308)	25 (635)	1 (25)	118 (2997)	33 (838)	108 (2743)	54 (1372)	21.38 (543)
10	491	20	16	13 (330)	25.56 (649)	23 (584)	14.25 (362)	44.56 (1132)	25 (635)	1 (25)	108 (2743)	31 (787)	98 (2489)	49 (1245)	14.44 (367)
10	492	18	12	11.5 (292)	22.56 (649)	21 (533)	11.5 (292)	45.81 (1164)	21 (533)	1 (25)	118 (2997)	31 (787)	108 (2743)	54 (1372)	24.44 (621)

NOTES:

- All dimensions are in inches and may vary $\pm 3/8"$ (10 MM)
- Not for construction purposes unless certified.
- The driveshaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset 0.35 ± 0.18 inch above the pump shaft. The engine crankshaft may be parallel offset from the pump shaft 0.35 inch right or left. Refer to the engine manual for alignment instructions.
- Suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine this dimension.
- Left hand (CCW) rotation not available.

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AURORA MODEL 481, 491 & 492

SINGLE STAGE FIRE PUMPS

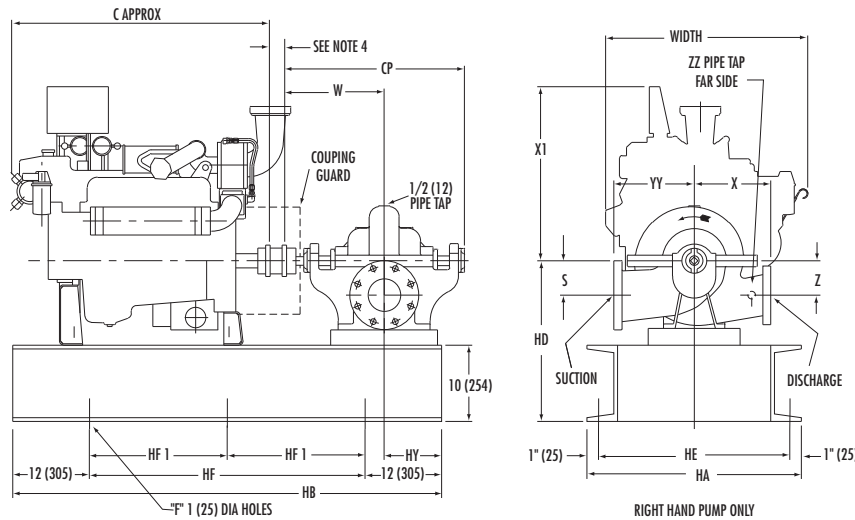
3208-DINA & DIT CATERPILLAR DIESEL ENGINE DRIVE

Section **913** Page **229**

Date **March 2009**

Supersedes Section 913 Page 323

Dated June 2007



ENGINE MODEL	C	X1	WIDTH
3208-DINA	47-3/8 (1200)	33-5/8 (853)	39-5/8 (1003)
3208-DIT	53-3/4 (1364)	33-5/8 (853)	39-5/8 (1003)

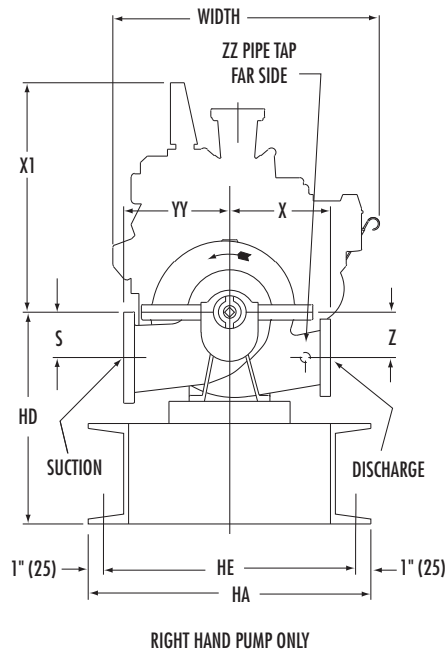
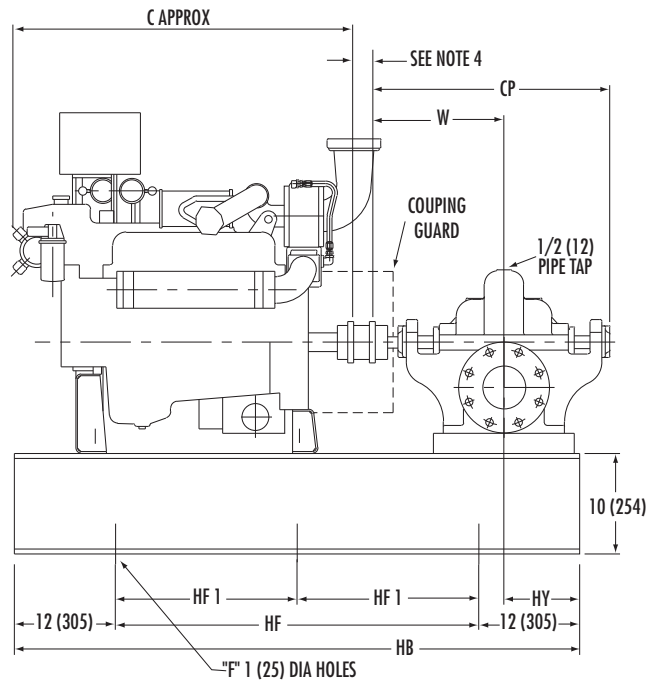
NOTES

1. All dimensions are in inches.
2. Dimensions may vary $\pm 3/8"$ (9).
3. Not for construction purposes unless certified.
4. Coupling Gap will vary with engine and pump model.
5. Suction & discharge flanges ANSI Standard flat face.
6. Refer to individual engine dimension print for reference point used to determine "C" dimension.
7. Left hand rotation not available.

PUMP SIZE		STANDARD * 125# SUCTION AND DISCHARGE FLANGES		OPTIONAL 125# SUCTION FLANGE, 250# DISCHARGE FLANGE		OPTIONAL 250# SUCTION AND DISCHARGE FLANGES							BASE LETTER
DISCH	MODEL	CASE BORE	SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	
2 1/2	481	10	3	2	4 (102)	13-1/2 (343)	9-3/4 (247)	4 (102)	24 (609)	10 (254)	1-1/4	8-1/2 (216)	M
4	481	11A	5	3	5 (127)	14-1/2 (268)	11-1/4 (286)	5 (127)	26 (660)	12-3/4 (324)	1-1/4	8-1/2 (216)	
4	481	11C	5		5 (127)	14-1/2 (268)	11-1/4 (286)	5 (127)	26 (660)	12-3/4 (324)	1-1/4	8-1/2 (216)	
4	481	11D	5		5 (127)	14-1/2 (268)	12 (305)	5 (127)	26 (660)	12-3/4 (324)	1-1/4	8-1/2 (216)	
4	481	15	5	NA	5-1/2 (140)	14-1/2 (268)	13 (330)	5-1/2 (140)	26 (660)	14 (355)	1-1/4	8-1/2 (216)	M4
4	491	14C	6		6-7/8 (175)	17-5/8 (447)	13 (330)	8-3/8 (213)	31-3/4 (806)	15-1/4 (387)	3/4	11-1/2 (292)	
4	492	18	5		9-1/2 (241)	18-3/8 (466)	14 (355)	9-1/2 (241)	33-1/4 (844)	14 (355)	3/4	10-1/2 (266)	
5	481	11B	6		5-1/2 (140)	16 (406)	11-1/4 (286)	5-1/2 (140)	28-1/2 (723)	13-1/4 (336)	1-1/4	8-1/2 (216)	M
5	481	11C	6	4	5-1/2 (140)	16 (406)	11-1/4 (286)	5-1/2 (140)	28-1/2 (723)	13-1/4 (336)	1-1/4	8-1/2 (216)	
5	481	15	6		6-1/4 (159)	16 (406)	13-1/4 (336)	6-1/4 (159)	28-1/2 (723)	15 (381)	1-1/4	8-1/2 (216)	
5	481	17	6		6-1/4 (159)	16 (406)	14 (355)	6-1/4 (159)	28-1/2 (723)	15 (381)	1-1/4	8-1/2 (216)	
5	491	14A	8	NA	8-1/4 (209)	17-5/8 (447)	13-1/2 (343)	9-3/4 (247)	31-3/4 (806)	17-1/4 (438)	1	11-1/2 (292)	M1
5	491	18A	8		8-1/8 (206)	18-7/8 (479)	15 (381)	10-5/8 (270)	33-3/8 (847)	18-3/4 (476)	1	11-1/2 (292)	
5	492	18	6		10 (254)	21 (533)	14 (355)	10 (254)	37-1/8 (942)	14 (355)	1	11-1/2 (292)	
6	481	11	8	4	6-1/4 (159)	16 (406)	11-3/4 (298)	6-1/4 (159)	28-1/2 (723)	14-1/2 (362)	1-1/4	8-1/2 (216)	M
6	481	15	8	5	6-3/4 (171)	18 (457)	14-1/4 (362)	6-3/4 (171)	32 (812)	16-3/4 (425)	1-1/4	8-1/2 (216)	
6	481	15B	8		6-3/4 (171)	18 (457)	14-1/4 (362)	6-3/4 (171)	32 (812)	16-3/4 (425)	1-1/4	8-1/2 (216)	
6	481	18B	8		8 (203)	18 (457)	16 (406)	8 (203)	32 (812)	18 (457)	1-1/4	8-1/2 (216)	
6	481	18C	8		8 (203)	18 (457)	16 (406)	8 (203)	32 (812)	18 (457)	1-1/4	8-1/2 (216)	M2
6	481	20	8	NA	8 (203)	18 (457)	15-3/4 (400)	8 (203)	32 (812)	18 (457)	1-1/4	8-1/2 (216)	
6	491	14A	10		9-3/8 (238)	20-1/8 (511)	13-1/4 (336)	10 (254)	35-7/8 (911)	18 (457)	1	11-1/2 (292)	
6	491	14C	10		9-3/8 (238)	20-1/8 (511)	13-1/4 (336)	10 (254)	35-7/8 (911)	18 (457)	1	11-1/2 (292)	
6	491	18A	10	NA	9-3/8 (238)	20-1/8 (511)	16 (406)	11-3/4 (286)	35-7/8 (911)	20 (508)	1	11-1/2 (292)	M
6	491	12C	6		6-7/8 (175)	16-5/8 (422)	15-3/4 (400)	20-1/2 (520)	29-3/4 (755)	14 (355)	1	10-1/2 (254)	
6	492	15	8		8-3/4 (222)	22-1/2 (571)	15 (381)	8-3/4 (222)	40-1/4 (1022)	15-1/2 (393)	1	10-1/2 (254)	
8	481	12	10	5	8 (203)	18 (457)	17 (431)	9 (228)	32 (812)	17-3/4 (450)	1-1/4	8-1/2 (216)	
8	481	17B	10		8 (203)	18 (457)	17 (431)	8 (203)	32 (812)	17-3/4 (450)	2	8-1/2 (216)	M3
8	491	14A	12		10-3/4 (273)	20-1/2 (520)	16 (406)	10-3/4 (273)	36-5/8 (930)	22 (558)	1	11-1/2 (292)	
8	491	18A	12		10-3/4 (273)	23-3/4 (603)	16 (406)	10-3/4 (273)	41-1/2 (1053)	22 (558)	1	11-1/2 (292)	
8	492	15	10	NA	9-1/4 (235)	22-1/2 (571)	17 (431)	9-1/4 (235)	40-1/4 (1022)	17 (431)	1	10-1/2 (254)	M1

* Standard flanges for 6-491-12A are 125# suction, 250 # discharge

BASE	HB	HA	HE	HF	HF1	HD	F
M	72 (1827)	28 (711)	26 (660)	48 (1218)	NA	26 (660)	4
M1	78 (1980)	28 (711)	26 (660)	54 (1371)	NA	28 (711)	4
M2	78 (1980)	28 (711)	26 (660)	54 (1371)	NA	29-1/2 (749)	4
M3	78 (1980)	28 (711)	26 (660)	54 (1371)	NA	32 (812)	4
M4	78 (1980)	28 (711)	26 (660)	54 (1371)	NA	26 (660)	4

AURORA MODEL 481, 491 & 492**SINGLE STAGE FIRE PUMPS****3306B-DIT & DITA CATERPILLAR DIESEL ENGINE
DRIVE**

STANDARD * 125# SUCTION AND DISCHARGE FLANGES					OPTIONAL 125# SUCTION FLANGE, 250# DISCHARGE FLANGE					OPTIONAL 250# SUCTION AND DISCHARGE FLANGES				
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	BASE LETTER	
DISCH	MODEL	CASE BORE												
5	491	18A	8	NA	8-1/8 (206)	18-7/8 (479)	15 (381)	10-5/8 (270)	33-3/8 (847)	18-3/4 (476)	1	11-1/2 (292)	E1	
6	481	15	8	5	6-3/4 (171)	18 (457)	14-1/4 (362)	6-3/4 (171)	32 (812)	16-3/4 (425)	1-1/4	8-1/2 (216)	E	
6	481	15B	8		6-3/4 (171)	18 (457)	14-1/4 (362)	6-3/4 (171)	32 (812)	16-3/4 (425)	1-1/4	8-1/2 (216)		
6	481	18B	8		8 (216)	18 (457)	16 (406)	8 (216)	32 (812)	18 (457)	1-1/4	8-1/2 (216)		
6	481	18C	8		8 (216)	18 (457)	16 (406)	8 (216)	32 (812)	18 (457)	1-1/4	8-1/2 (216)		
6	481	20	8		8 (216)	18 (457)	15-3/4 (400)	8 (216)	32 (812)	18 (457)	1-1/4	8-1/2 (216)		
6	491	14A	10	NA	9-3/8 (238)	20-1/8 (511)	13-1/4 (336)	10 (254)	35-7/8 (911)	18 (457)	1	11-1/2 (292)	E2	
6	491	14C	10		9-3/8 (238)	20-1/8 (511)	13-1/4 (336)	10 (254)	35-7/8 (911)	18 (457)	1	11-1/2 (292)		
6	491	18C	10		9-3/8 (238)	20-1/8 (511)	16 (406)	11-3/4 (298)	35-7/8 (911)	20 (508)	1	11-1/2 (292)		
6	491	19A	10		9-3/8 (238)	22-5/8 (574)	18 (457)	12-1/8 (308)	39-1/4 (996)	22 (558)	1	11-1/2 (292)		
6	491	12A	6		6-7/8 (175)	16-5/8 (422)	15-3/4 (400)	20-1/2 (520)	29-3/4 (755)	14 (355)	1	10-1/2 (266)		
6	492	15	8	5	8-3/4 (222)	22-1/2 (571)	15 (381)	8-3/4 (222)	40-1/4 (1022)	15-1/2 (393)	1	10-1/2 (266)	E1	
8	481	17B	10		8 (216)	18 (457)	17 (431)	8 (216)	32 (812)	17-3/4 (450)	2	8-1/2 (209)	E	
8	481	21	10		9-1/2 (241)	21-7/8 (555)	18 (457)	9-1/2 (241)	38 (964)	21 (533)	2	13-5/8 (346)	P	
8	481	21A	10		9-1/2 (241)	21-7/8 (555)	18 (457)	9-1/2 (241)	38 (964)	21 (533)	2	13-5/8 (346)		
8	491	14A	12		NA	10-3/4 (273)	20-1/2 (520)	16 (406)	10-3/4 (273)	36-5/8 (930)	22 (558)	1	11-1/2 (292)	E3
8	491	18A	12	10-3/4 (273)		23-3/4 (603)	16 (406)	12-1/2 (317)	41-1/2 (1053)	22 (558)	1	11-1/2 (292)	P	
10	481	15C	10	13-1/2 (343)		21-7/8 (555)	17 (431)	13-1/2 (343)	38 (964)	20 (508)	1-1/4	13-5/8 (346)		
12	481	18	10	7	15 (381)	25-1/4 (641)	18 (457)	15 (381)	44 (1117)	23 (584)	2	13-5/8 (346)		

ENGINE MODEL	C	X1	WIDTH
3306B-DIT	66-7/8 (1695)	32-1/2 (824)	36 (914)
3306B-DITA	66-7/8 (1695)	34-3/8 (872)	36 (914)

BASE	HB	HA	HE	HF	HF1	HD	F
E	93 (2360)	29 (736)	27 (685)	69 (1751)	NA	25-1/4 (641)	4
E1	93 (2360)	29 (736)	27 (685)	69 (1751)	NA	28 (711)	4
E2	93 (2360)	29 (736)	27 (685)	69 (1751)	NA	29-1/2 (749)	4
E3	93 (2360)	29 (736)	27 (685)	69 (1751)	NA	32 (812)	4
P	96 (2436)	29 (736)	27 (685)	72 (1827)	NA	35-3/4 (907)	4

NOTES

1. All dimensions are in inches.
2. Dimensions may vary $\pm 3/8"$ (9).
3. Not for construction purposes unless certified.
4. Coupling Gap will vary with engine and pump model.
5. Suction & discharge flanges ANSI Standard flat face.
6. Refer to individual engine dimension print for reference point used to determine "C" dimension.
7. Left hand rotation not available.

* Standard flanges for 6-491-12A are 125# suction, 250 # discharge

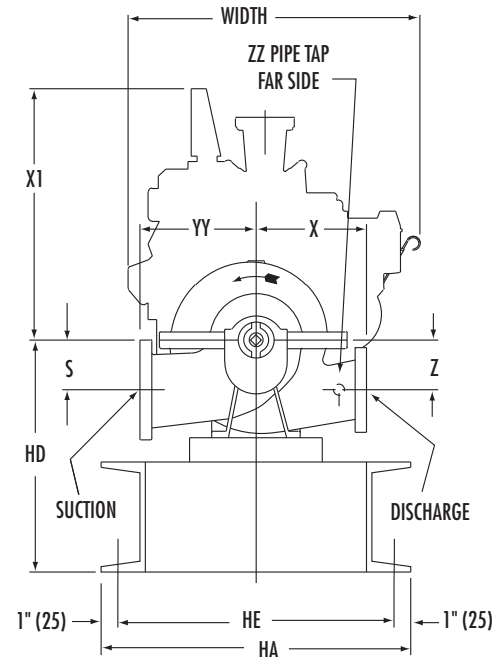
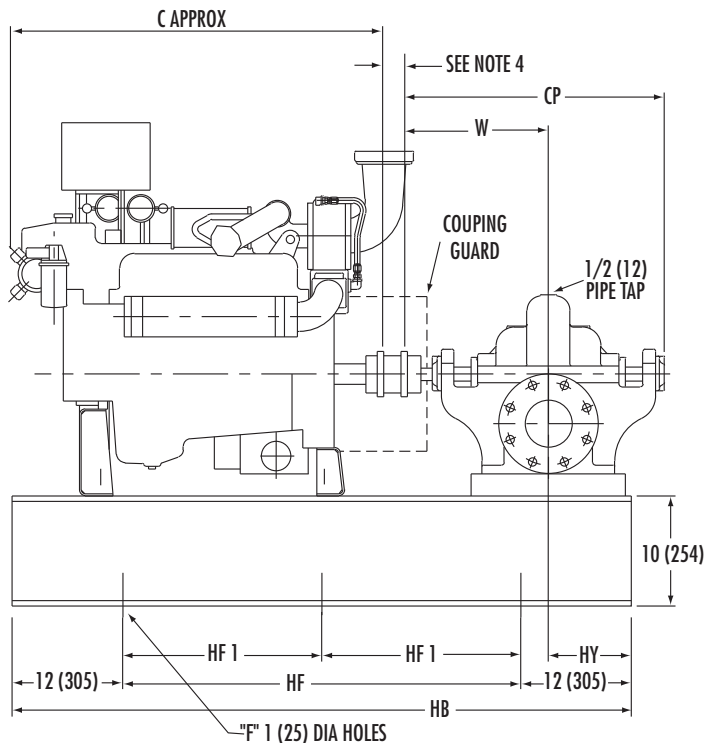
SINGLE STAGE FIRE PUMPS

Date **March 2009**

3406B-DIT & DITA CATERPILLAR DIESEL ENGINE

Supersedes Section 913 Page 325
Dated February 2005

DRIVE



RIGHT HAND PUMP ONLY

STANDARD *				OPTIONAL						OPTIONAL			
125# SUCTION AND DISCHARGE FLANGES				125# SUCTION FLANGE, 250# DISCHARGE FLANGE						250# SUCTION AND DISCHARGE FLANGES			
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	BASE LETTER
DISCH	MODEL	CASE BORE											
6	481	20	8	5	8 (203)	18 (457)	15-3/4 (400)	8 (203)	32 (812)	18 (457)	1-1/4	8-1/2 (216)	B
6	491	14A	10	NA	9-3/8 (238)	20-1/8 (511)	13-1/4 (336)	10 (254)	35-7/8 (911)	18 (457)	1	11-1/2 (292)	B1
6	491	14C	10		9-3/8 (238)	20-1/8 (511)	13-1/4 (336)	10 (254)	35-7/8 (911)	18 (457)	1	11-1/2 (292)	
6	491	18C	10		9-3/8 (238)	20-1/8 (511)	16 (406)	11-3/4 (298)	35-7/8 (911)	20 (508)	1	11-1/2 (292)	
6	491	19A	10		9-3/8 (238)	22-5/8 (574)	18 (457)	12-1/8 (308)	39-1/4 (996)	22 (558)	1	11-1/2 (292)	
8	481	17B	10	5	8 (203)	18 (457)	17 (431)	8 (203)	32 (812)	17-3/4 (450)	2	8-1/2 (216)	B
8	481	21	10	6B	9-1/2 (241)	21-7/8 (555)	18 (457)	9-1/2 (241)	38 (964)	21 (533)	2	13-5/8 (346)	0
8	481	21A	10		9-1/2 (241)	21-7/8 (555)	18 (457)	9-1/2 (241)	38 (964)	21 (533)	2	13-5/8 (346)	
8	491	14A	12	NA	10-3/4 (273)	20-1/2 (520)	16 (406)	10-3/4 (273)	36-5/8 (930)	22 (558)	1	11-1/2 (292)	B2
8	491	18A	12		10-3/4 (273)	23-3/4 (607)	16 (406)	12-1/2 (317)	41-1/2 (1053)	22 (558)	1	11-1/2 (292)	
10	481	15C	12	6B	13-1/2 (343)	21-7/8 (555)	17 (431)	13-1/2 (343)	38 (964)	20 (508)	1-1/4	13-5/8 (346)	0
10	481	18	12		13-1/2 (343)	21-7/8 (555)	18 (457)	13-1/2 (343)	38 (964)	22 (558)	2	13-5/8 (346)	
10	481	18D	12	7A	12.25 (311)	24.31 (617)	20 (508)	12.25 (311)	42.94 (1091)	24 (610)	1.25	14.5 (368)	04
10	491	20	16	NA	13 (330)	25-5/8 (650)	23 (584)	14-1/4 (362)	44-5/8 (1133)	25 (635)	1	13-1/2 (343)	01
10	492	18	12		11-1/2 (292)	25-5/8 (650)	21 (533)	11-1/2 (292)	45-7/8 (1164)	21 (533)	1	13-1/2 (343)	

ENGINE MODEL	C	X1	WIDTH
3406B-DIT	78-3/4 (1997)	36-1/2 (924)	42 (1066)
3406B-DITA	78-3/4 (1997)	40-1/8 (1018)	42 (1066)

BASE	HB	HA	HE	HF	HF1	HD	F
B	102 (2589)	28 (710)	26 (660)	78 (1980)	39 (990)	27-7/8 (708)	6
B1	102 (2589)	28 (710)	26 (660)	78 (1980)	39 (990)	29-1/2 (749)	6
B2	102 (2589)	28 (710)	26 (660)	78 (1980)	39 (990)	32 (812)	6
0	106 (2690)	33 (838)	31 (787)	82 (2081)	41 (1041)	35-3/4 (907)	6
01	110 (2792)	33 (710)	31 (660)	86 (2183)	43 (1091)	34-3/4 (882)	6
04	110 (2792)	33 (710)	31 (660)	86 (2183)	43 (1091)	35.75 (908)	6

NOTES

1. All dimensions are in inches.
2. Dimensions may vary $\pm 3/8"$ (9).
3. Not for construction purposes unless certified.
4. Coupling Gap will vary with engine and pump model.
5. Suction & discharge flanges ANSI Standard flat face.
6. Refer to individual engine dimension print for reference point used to determine "C" dimension.
7. Left hand rotation not available.

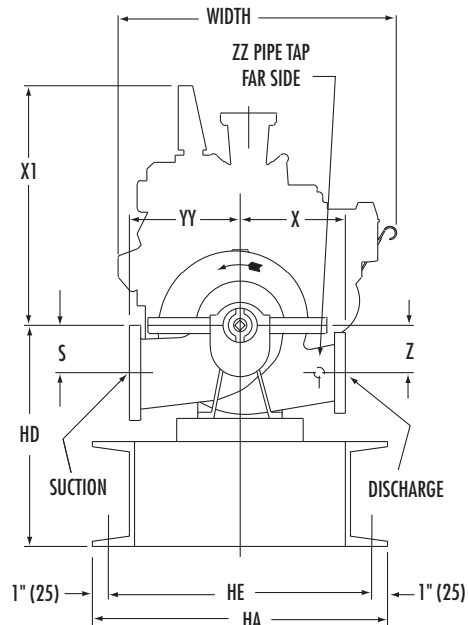
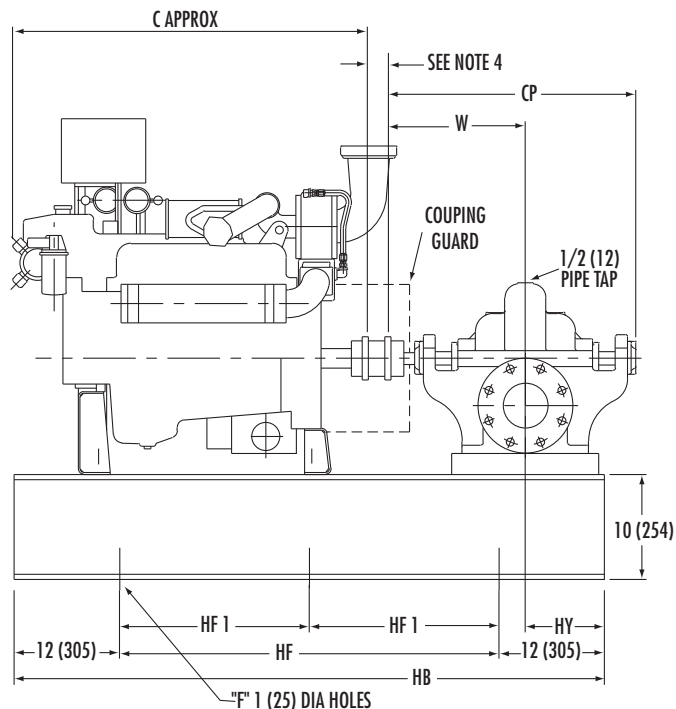
* Standard flanges for 10-491-20 are 125# suction, 250 # discharge

AURORA MODEL 481, 491 & 492

SINGLE STAGE FIRE PUMPS

3408B—DITA CATERPILLAR

DIESEL ENGINE DRIVE



RIGHT HAND PUMP ONLY

STANDARD *					OPTIONAL					OPTIONAL				
 125# SUCTION AND DISCHARGE FLANGES					 125# SUCTION FLANGE, 250# DISCHARGE FLANGE					 250# SUCTION AND DISCHARGE FLANGES				
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	BASE LETTER	
DISCH	MODEL	CASE BORE												
5	491	18A	8	NA	8.13 (206)	18.88 (479)	15 (380)	10.63 (270)	33.38 (847)	18.75 (476)	1	11.5 (292)	G1	
8	481	21	10	6B	9.5 (241)	21.88 (555)	18 (457)	9.5 (241)	38 (964)	21 (533)	2	13.13 (333)	G	
8	481	21A	10		9.5 (241)	21.88 (555)	18 (457)	9.5 (241)	38 (964)	21 (533)	2	13.13 (333)		
10	481	18	12		13.5 (342)	21.88 (555)	18 (457)	13.5 (342)	38 (964)	22 (558)	2	13.13 (333)		
10	481	18D	12	7A	12.25 (311)	24.31 (617)	20 (508)	12.25 (311)	42.94 (1091)	24 (610)	1.25	14.5 (368)	G4	
10	491	20	16	NA	13 (330)	25.25 (650)	23 (584)	14.25 (362)	44.88 (1133)	25 (635)	1	13.5 (343)	G2	
10	492	18	12		11.5 (292)	25.63 (650)	21 (533)	11.5 (292)	45.88 (1164)	21 (533)	1	13.5 (343)		

BASE	HB	HA	HE	HF	HF1	HD	F
G	96 (2436)	36 (914)	34 (863)	72 (1827)	36 (914)	35.75 (907)	6
G1	96 (2436)	36 (914)	34 (863)	72 (1827)	36 (914)	28 (711)	6
G2	98 (2487)	36 (914)	34 (863)	74 (1878)	37 (939)	34-3/4 (882)	6
G4	100 (2540)	36 (914)	34 (863)	76 (1930)	38 (965)	35.75 (908)	6

ENGINE MODEL	C	X1	WIDTH
3408B-DITA	65.38 (1657)	44.63 (1132)	51.63 (1310)

NOTES

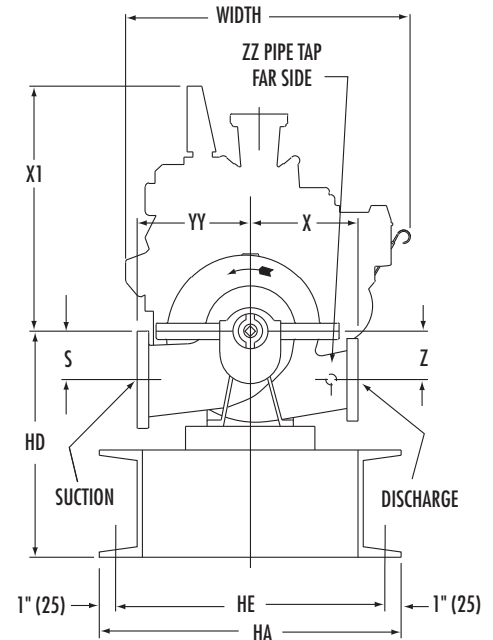
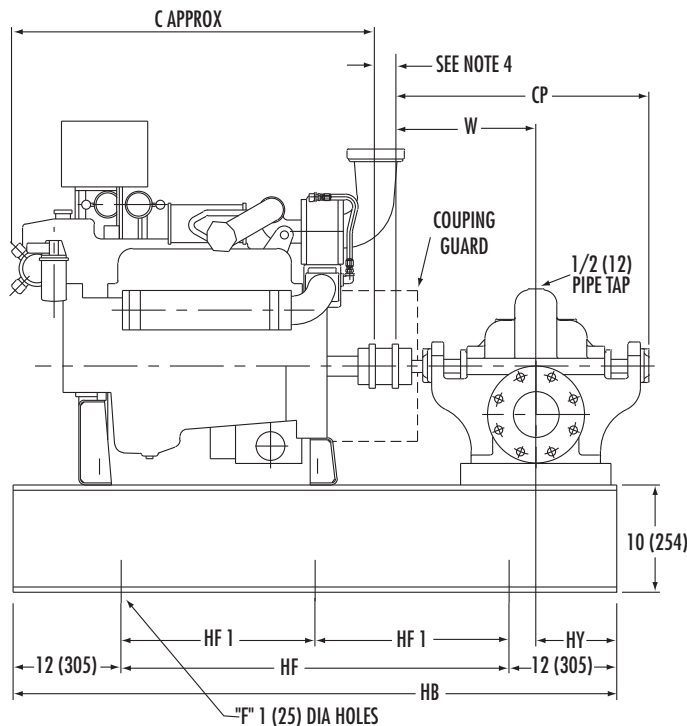
- All dimensions are in inches.
- Dimensions may vary $\pm 3/8"$ (9).
- Not for construction purposes unless certified.
- Coupling Gap will vary with engine and pump model.
- Suction & discharge flanges ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine "C" dimension.
- Left hand rotation not available.

* Standard flanges for 10-491-20 are 125# suction, 250 # discharge

SINGLE STAGE FIRE PUMPS 3412-DIT & DITA CATERPILLAR DIESEL ENGINE DRIVE

Date **February 2005**

Supersedes Section 913 Page 327
Dated April 2003



RIGHT HAND PUMP ONLY

STANDARD *					OPTIONAL					OPTIONAL				
 125# SUCTION AND DISCHARGE FLANGES					 125# SUCTION FLANGE, 250# DISCHARGE FLANGE					 250# SUCTION AND DISCHARGE FLANGES				
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	BASE LETTER	
DISCH	MODEL	CASE BORE												
8	481	21	10	6B	9-1/2 (241)	21-7/8 (555)	18 (457)	9-1/2 (241)	38 (964)	21 (533)	2	13-1/8 (333)	F	
8	481	21A	10		9-1/2 (241)	21-7/8 (555)	18 (457)	9-1/2 (241)	38 (964)	21 (533)	2	13-1/8 (333)		
10	481	18	12		13-1/2 (343)	21-7/8 (555)	18 (457)	13-1/2 (343)	38 (964)	22 (558)	2	13-1/8 (333)		
10	491	20	16	NA	13 (330)	25-5/8 (650)	23 (584)	14-1/4 (362)	44-5/8 (1133)	25 (635)	1	13-1/2 (343)	F1	
10	492	18	12		11-1/2 (292)	25-5/8 (650)	21 (533)	11-1/2 (292)	45-7/8 (1164)	21 (533)	1	13-1/2 (343)		
10	481	18D	12	7A	12.25 (311)	24.31 (617)	20 (508)	12.25 (311)	42.94 (1091)	24 (610)	1.25	13.63 (346)	F3	
12	481	18A	14	7	15 (381)	25-1/4 (641)	18 (457)	15 (381)	44 (1117)	23 (584)	2	13-1/8 (333)	F	

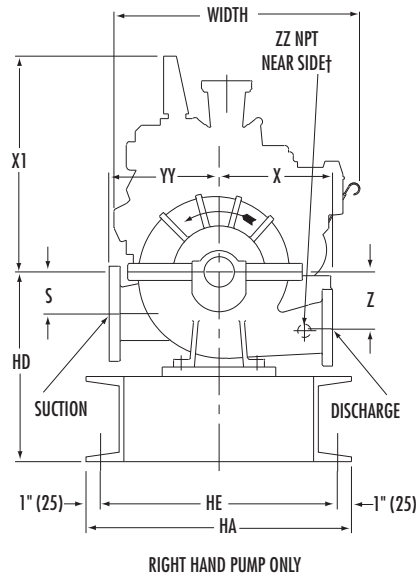
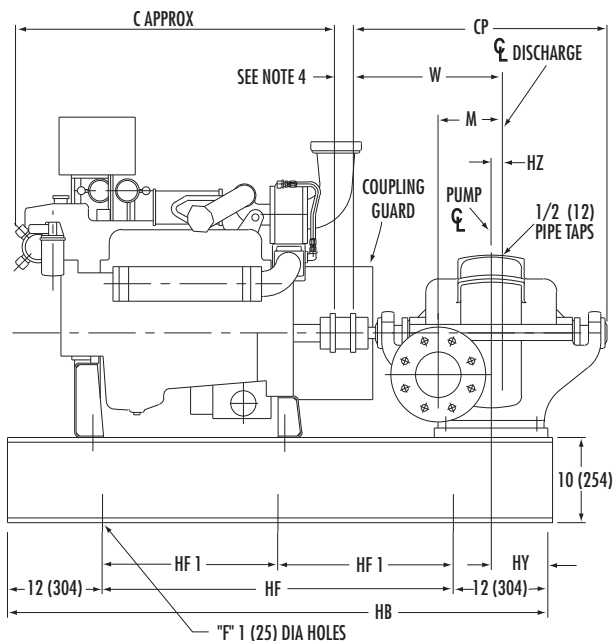
ENGINE MODEL	C	X1	WIDTH
3412-DIT	78-3/4 (1997)	38-7/8 (987)	53 (1345)
3412-DITA	78-3/4 (1997)	38-7/8 (987)	58-3/8 (1480)

BASE	HB	HA	HE	HF	HF1	HD	F
F	114 (2893)	36 (914)	34 (863)	90 (2284)	45 (1142)	35.75 (908)	6
F1	114 (2893)	36 (914)	34 (863)	90 (2284)	45 (1142)	34.75 (882)	6
F3	114 (2893)	36 (914)	34 (863)	90 (2284)	45 (1142)	35.75 (908)	6

NOTES

1. All dimensions are in inches.
2. Dimensions may vary $\pm 3/8"$ (9).
3. Not for construction purposes unless certified.
4. Coupling Gap will vary with engine and pump model.
5. Suction & discharge flanges ANSI Standard flat face.
6. Refer to individual engine dimension print for reference point used to determine "C" dimension.
7. Left hand rotation not available.

* Standard flanges for 10-491-20 are 125# suction, 250 # discharge

AURORA MODEL 485 & 495
TWO STAGE FIRE PUMPS
3208-DINA & DIT CATERPILLAR DIESEL
ENGINE DRIVE


BOTH SIDES FOR 5-485-12 AND 6-485-12.
ONE ON NEAR SIDE FOR OTHER PUMPS.

STANDARD*						OPTIONAL*								
 125# SUCTION FLANGE, 250# DISCHARGE FLANGE						 250# SUCTION AND DISCHARGE FLANGES								
PUMP SIZE			SUCTION	POWER SERIES	BASE LETTER	M	S	W	X	Z	CP	YY	HZ	ZZ
DISCH	MODEL	CASE BORE												
4	485	15	5	3	M	7-1/8 (181)	5 (127)	18-7/8 (479)	13 (330)	6-1/2 (165)	31 (787)	13-1/2 (343)	1-7/8 (47)	1-1/4
5	485	12	5	4A	M6	6-5/8 (168)	7 (179)	20-7/8 (530)	13 (330)	7 (179)	35-3/8 (876)	13 (330)	1-3/8 (35)	1-1/4
5	485	15	6	4	M4	9-1/8 (232)	5-1/2 (140)	21-1/8 (536)	15 (381)	7-1/2 (190)	34-1/2 (876)	15-7/16 (392)	2-1/8 (54)	1-1/4
5	495	15	6	NA	M5	11 (279)	9 (228)	28-3/8 (720)	15 (381)	9 (228)	46-7/8 (1190)	15 (381)	2-1/2 (63)	1
6	485	12	6	5A	M6	7-1/2 (191)	8 (203)	22-7/8 (581)	14 (356)	8 (203)	38-1/2 (978)	14 (356)	1-5/8 (41)	1-1/4
6	485	17A	8	5	M4	11 (279)	7 (178)	24-1/2 (622)	16 (406)	9 (228)	38 (964)	16-1/2 (419)	3-1/2 (89)	1-1/4
6	495	17	8	NA	M5	13 (330)	9 (228)	31-5/8 (803)	16-1/2 (419)	10-1/2 (266)	52-1/8 (1323)	16-1/2 (419)	3-1/4 (82)	1

* 150# AND 300# OR 300# AND 300# SUCTION AND DISCHARGE FLANGES FOR 5-485-12 AND 6-485-12.

BASE	HB	HA	HE	HF	HF1	HD	F	HY
M	72 (1827)	28 (711)	26 (660)	48 (1218)	NA	26 (660)	4	8-1/2 (216)
M6	78 (1980)	28 (711)	26 (660)	50 (1270)	NA	26 (660)	4	10-1/2 (267)
M4	78 (1980)	28 (711)	26 (660)	54 (1371)	NA	26 (660)	4	8-1/2 (216)
M5	92 (2335)	28 (711)	26 (660)	68 (1726)	34 (863)	26 (660)	6	16 (406)

ENGINE MODEL	C	X1	WIDTH
3208-DINA	47-3/8 (1201)	33-5/8 (854)	36-5/8 (927)
3208-DIT	53-3/4 (1364)	33-5/8 (853)	36-5/8 (927)

NOTES

1. All dimensions are in inches (mm).
2. Dimensions may vary $\pm 3/8"$ (10).
3. Not for construction purposes unless certified.
4. Coupling Gap will vary with engine and pump model.
5. Suction & discharge flanges ANSI Standard flat face.
6. Refer to individual engine dimension print for reference point used to determine "C" dimension.
7. Left hand rotation not available.

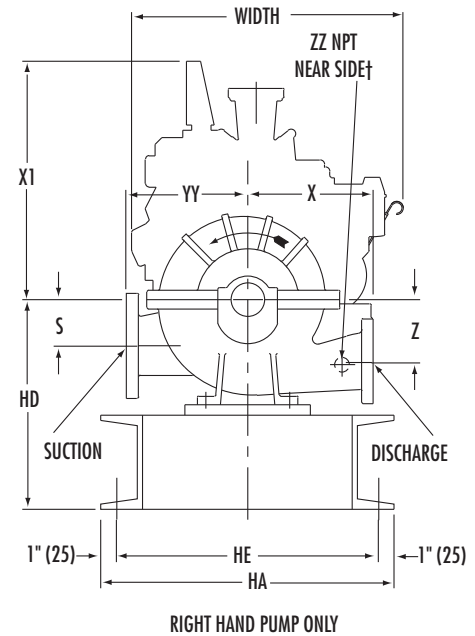
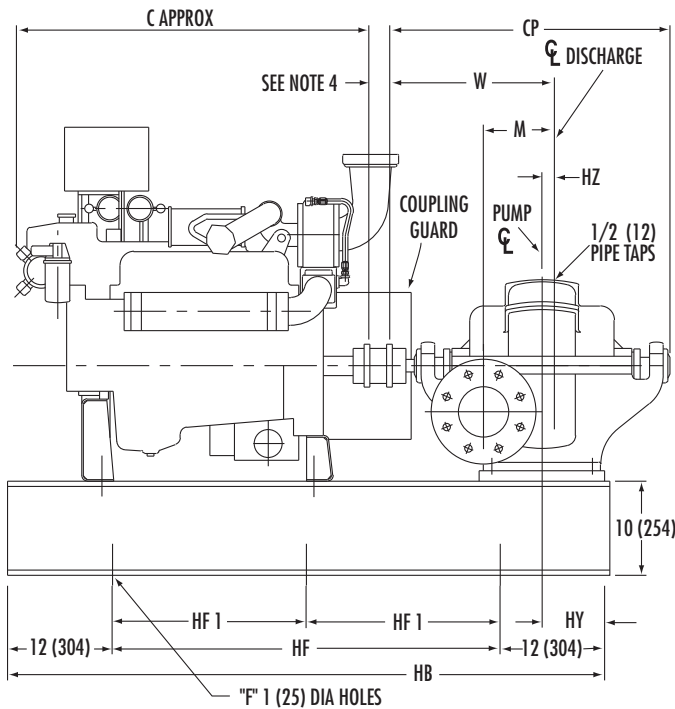
AURORA MODEL 485 & 495

TWO STAGE FIRE PUMPS 3306B-DIT & DITA CATERPILLAR DIESEL ENGINE DRIVE

Section **913** Page **235**

Date **February 2005**

Supersedes Section 913 Page 329
Dated November 2001



RIGHT HAND PUMP ONLY

STANDARD						OPTIONAL									
		125# SUCTION FLANGE 250# DISCHARGE FLANGE						250# SUCTION AND DISCHARGE FLANGES							
PUMP SIZE			SUCTION	POWER SERIES	BASE LETTER	M	S	W	X	Z	CP	YY	HZ	ZZ	
DISCH	MODEL	CASE BORE													
6	485	17A	8	5	E	11 (279)	7 (178)	24-1/2 (622)	16 (406)	9 (228)	38 (964)	16-1/2 (419)	3-1/2 (89)	1-1/4	
6	495	17	8	N.A.	E4	13 (330)	9 (228)	31-5/8 (803)	16-1/2 (419)	10-1/2 (266)	52-1/8 (1323)	16-1/2 (418)	3-1/4 (82)	1	

BASE	HB	HA	HE	HF	HF1	HD	F	HY
E	93 (2360)	29 (736)	27 (685)	69 (1751)	NA	25-1/4 (641)	4	8-1/2 (216)
E4	115 (2919)	29 (711)	27 (660)	91 (2310)	45-1/2 (1155)	28 (711)	6	16 (406)

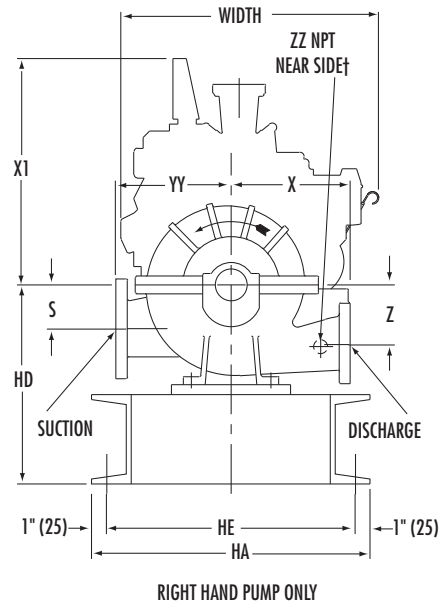
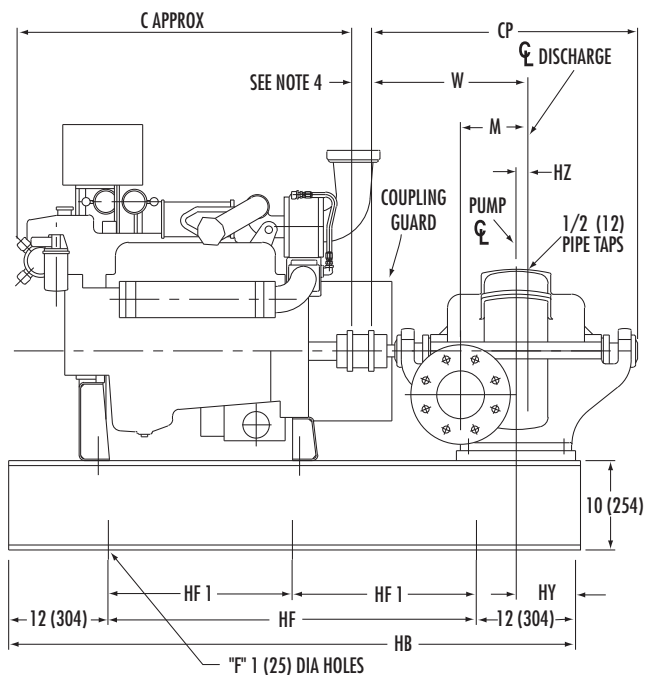
ENGINE MODEL	C	X1	WIDTH
3306B-DIT	66-7/8 (1695)	32-1/2 (824)	36 (914)
3306B-DITA	66-7/8 (1695)	34-3/8 (872)	36 (914)

NOTES

1. All dimensions are in inches.
2. Dimensions may vary $\pm 3/8"$ (9).
3. Not for construction purposes unless certified.
4. Coupling Gap will vary with engine and pump model.
5. Suction & discharge flanges ANSI Standard flat face.
6. Refer to individual engine dimension print for reference point used to determine "C" dimension.
7. Left hand rotation not available.

AURORA MODEL 495

TWO STAGE FIRE PUMPS
3406B-DIT & DITA CATERPILLAR DIESEL
ENGINE DRIVE



PUMP SIZE			SUCTION	POWER SERIES	BASE LETTER	M	S	W	X	Z	CP	YY	HZ	ZZ
DISCH	MODEL	CASE BORE												
6	495	17	8	NA	02	13 (330)	9 (228)	31-5/8 (803)	16-1/2 (419)	10-1/2 (266)	52-1/8 (1323)	16-1/2 (419)	3-1/4 (82)	1

BASE	HB	HA	HE	HF	HF1	HD	F	HY
02	114 (2893)	33 (838)	31 (787)	90 (2284)	45 (1142)	28-1/4 (717)	6	16 (406)

ENGINE MODEL	C	X1	WIDTH
3406B-DIT	78-3/4 (1997)	36-1/2 (924)	42 (1066)
3406B-DITA	78-3/4 (1997)	40-1/8 (1018)	42 (1066)

NOTES

1. All dimensions are in inches.
2. Dimensions may vary $\pm 3/8"$ (9).
3. Not for construction purposes unless certified.
4. Coupling Gap will vary with engine and pump model.
5. Suction & discharge flanges ANSI Standard flat face.
6. Refer to individual engine dimension print for reference point used to determine "C" dimension.
7. Left hand rotation not available.

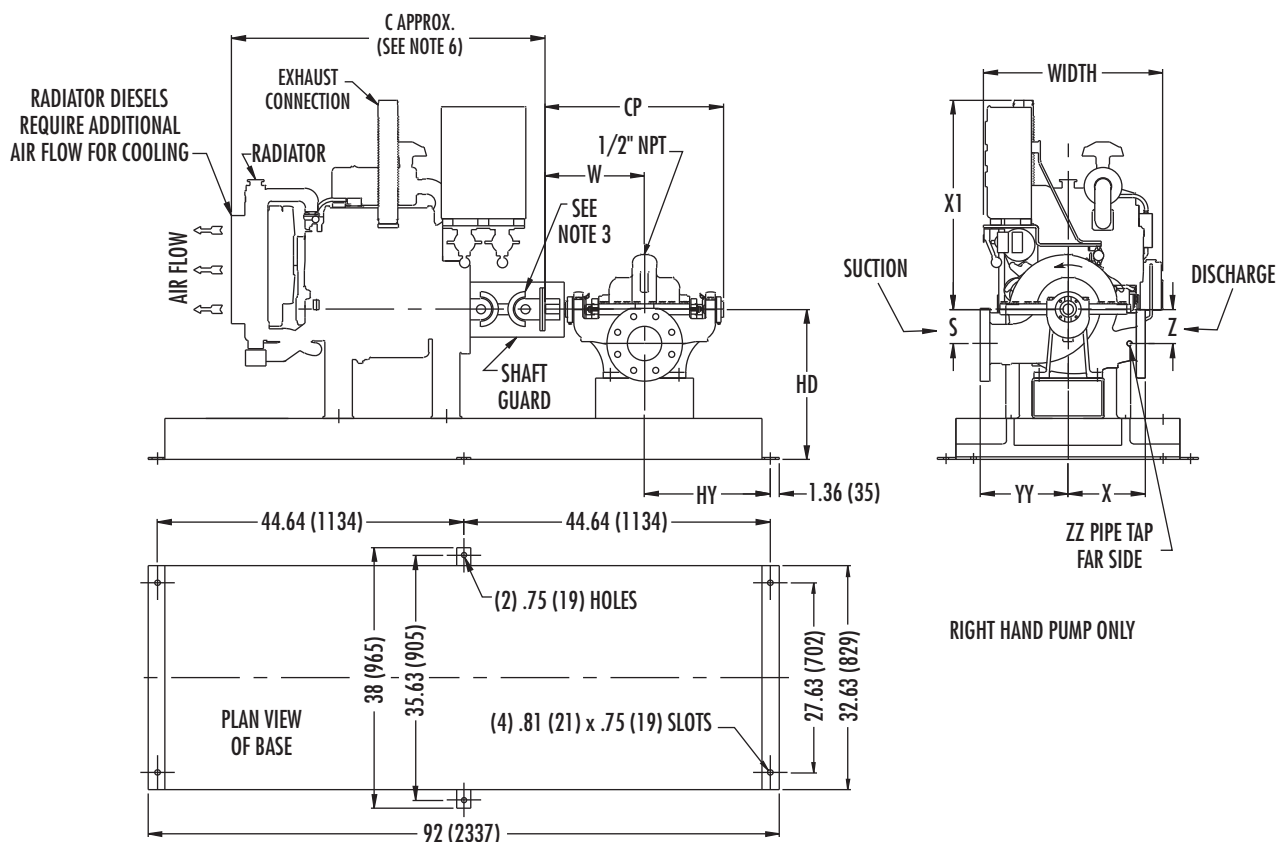
AURORA MODEL 481 PUMPS

SINGLE STAGE FIRE PUMPS EDWARDS RADIATOR DIESEL DRIVE

Section **913** Page **237**

Date **February 2005**

Supersedes Section 913 Page 341
Dated May 2004



STANDARD					OPTIONAL				OPTIONAL				
	125# SUCTION AND DISCHARGE FLANGES				125# SUCTION FLANGE, 250# DISCHARGE FLANGE				250# SUCTION AND DISCHARGE FLANGES				
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	
DISCH	MODEL	CASE BORE											
2.5	481	10	3	2	4 (102)	13.5 (343)	9.75 (248)	4 (102)	24 (610)	10 (254)	1-1/4	19.30 (490)	
3	481	10	4	2	4.5 (114)	13.5 (343)	10 (254)	4.5 (114)	24 (610)	11 (279)	1-1/4	19.30 (490)	
4	481	11A/C	5	3	5 (127)	14.5 (368)	11.25 (286)	5 (127)	26 (660)	12.75 (324)	1-1/4	18.30 (465)	
4	481	15	5	3	5.5 (140)	14.5 (368)	13 (330)	5.5 (140)	26 (660)	14 (356)	1-1/4	18.26 (464)	
5	481	15	6	4	6.25 (159)	16 (406)	13.25 (337)	6.25 (159)	28.5 (724)	15 (381)	1-1/4	16.76 (426)	
6	481	11	8	4	6.25 (159)	16 (406)	11.75 (298)	6.25 (159)	28.5 (724)	14.5 (368)	1-1/4	16.76 (426)	
6	481	15	8	5	6.75 (171)	18 (457)	14.25 (362)	6.75 (171)	32 (813)	16.75 (425)	1-1/4	14.76 (375)	
8	481	12	10	5	8 (203)	18 (457)	17 (432)	9 (229)	32 (813)	17.75 (451)	1-1/4	14.76 (375)	

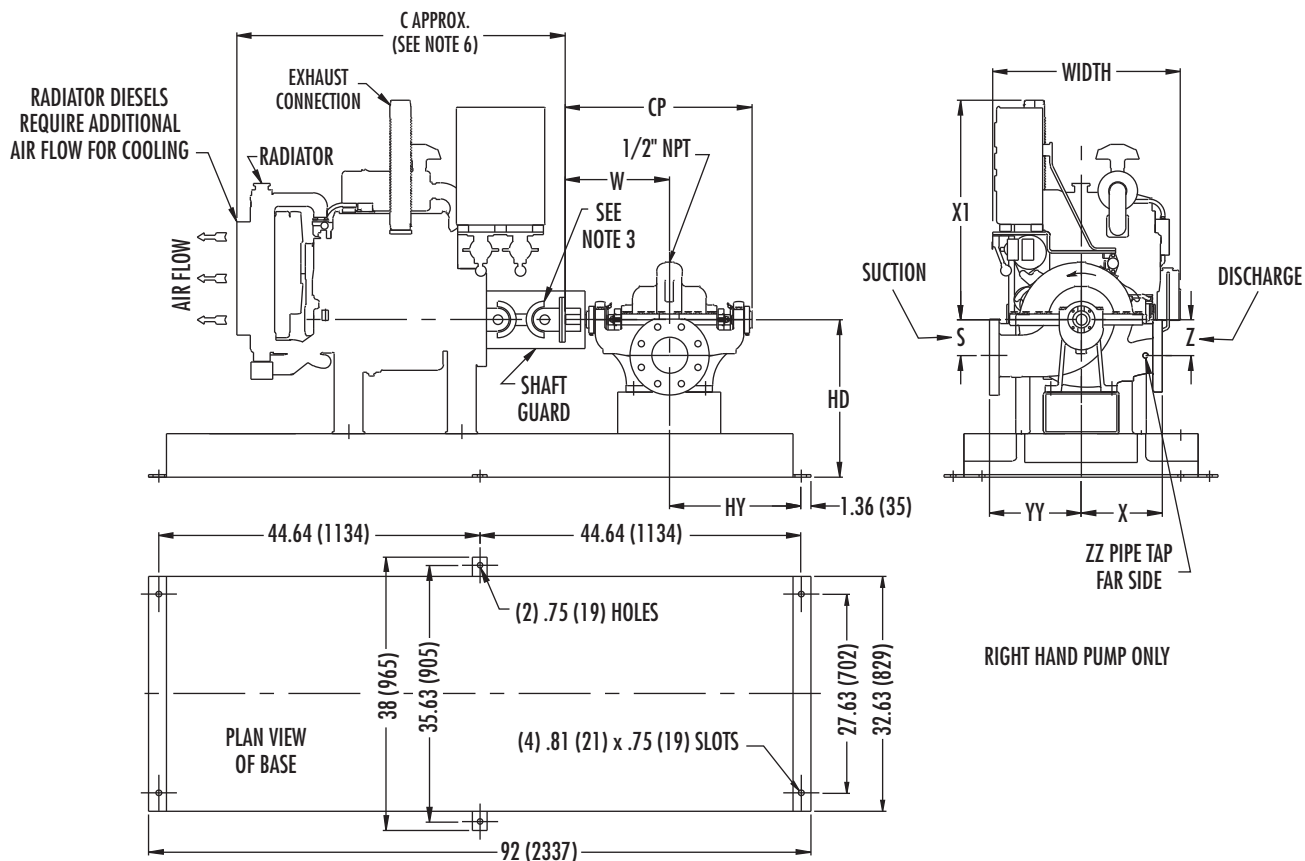
ENGINE MODEL	HD	C	WIDTH	X1
EMI 4041D	21.87 (555)	45.63 (1159)	26.10 (663)	30.50 (775)
EMI 4050T	21.87 (555)	45.63 (1159)	26.10 (663)	36.50 (927)
EMI 4JB1R	22.52 (572)	48.00 (1219)	29.04 (738)	33.00 (838)
EMI 4080D	22.52 (572)	52.00 (1321)	29.62 (752)	41.80 (1062)
EMI 4099T	22.52 (572)	50 (1270)	29.62 (752)	45.14 (1147)

NOTES

1. All dimensions are in inches (mm).
2. Dimensions may vary $\pm 3/8"$ (9).
3. Not for construction purposes unless certified.
4. The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset .35 $\pm$.15 above the pump shaft. The engine crankshaft may be parallel offset from the pump shaft .35 right or left. Refer to the engine manual for alignment instructions.
5. Pump suction and discharge flanges are ANSI Standard flat face.
6. Refer to individual engine dimension print for reference point used to determine engine overall length.
7. Left hand (CCW) rotation not available.

AURORA MODEL 491 & 492 PUMPS

SINGLE STAGE FIRE PUMPS EDWARDS RADIATOR DIESEL DRIVE



STANDARD *			OPTIONAL			OPTIONAL					
125# SUCTION AND DISCHARGE FLANGES			125# SUCTION FLANGE, 250# DISCHARGE FLANGE			250# SUCTION AND DISCHARGE FLANGES					
PUMP SIZE			SUCTION	S	W	X	Z	CP	YY	ZZ	HY
DISCH	MODEL	CASE BORE									
3	491	9C	5	6.13 (156)	14.63 (372)	11 (279)	6.13 (156)	25.94 (659)	12 (305)	3/4	18.17 (462)
4	491	8A	6	5.75 (146)	14.63 (372)	10 (254)	5.5 (140)	25.94 (659)	11.25 (286)	3/4	18.17 (462)
4	491	11A	6	6.88 (175)	16.63 (422)	11.25 (286)	7.13 (181)	29.69 (754)	14 (356)	3/4	16.17 (411)
4	491	14C	6	6.88 (175)	17.63 (448)	13 (330)	8.38 (213)	31.69 (805)	15.25 (387)	3/4	15.18 (386)
4	492	14	5	7.38 (187)	18.38 (467)	13.5 (343)	7.38 (187)	33.19 (843)	14 (356)	3/4	14.42 (366)
4	492	18	5	9.5 (241)	18.38 (467)	14 (356)	9.5 (241)	33.25 (845)	14 (356)	3/4	14.38 (365)
5	491	14A	8	8.25 (210)	17.63 (448)	13.5 (343)	9.75 (248)	31.69 (805)	17.25 (438)	1	15.14 (385)
5	491	18A	8	8.13 (207)	18.88 (480)	15 (381)	10.63 (270)	33.38 (848)	18.75 (476)	1	13.88 (353)
6	491	12A	6	6.88 (175)	16.63 (422)	20.5 (521)	7.13 (181)	29.69 (754)	14 (356)	1	16.18 (411)
8	492	15	10	9.25 (235)	22.5 (572)	17 (432)	9.25 (235)	40.25 (1022)	17 (432)	1	10.26 (261)

* Standard flanges for 6-491-12A are 125# suction, 250 # discharge

ENGINE MODEL	HD	C	X1	WIDTH
EMI 404TD	21.87 (555)	45.63 (1159)	26.10 (663)	30.50 (775)
EMI 4050T	21.87 (555)	45.63 (1159)	26.10 (663)	36.50 (927)
EMI 4JB1R	22.52 (572)	48.00 (1219)	29.04 (738)	33.00 (838)
EMI 4080D	22.52 (572)	52.00 (1321)	29.62 (752)	41.80 (1062)
EMI 4099T	22.52 (572)	50 (1270)	29.62 (752)	45.14 (1147)

NOTES

1. All dimensions are in inches (mm).
2. Dimensions may vary $\pm 3/8"$ (9).
3. Not for construction purposes unless certified.
4. The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset .35 $\pm$.15 above the pump shaft. The engine crankshaft may be parallel offset from the pump shaft .35 right or left. Refer to the engine manual for alignment instructions.
5. Pump suction and discharge flanges are ANSI Standard flat face.
6. Refer to individual engine dimension print for reference point used to determine engine overall length.
7. Left hand (CCW) rotation not available.

AURORA MODEL 481 PUMPS

SINGLE STAGE FIRE PUMPS

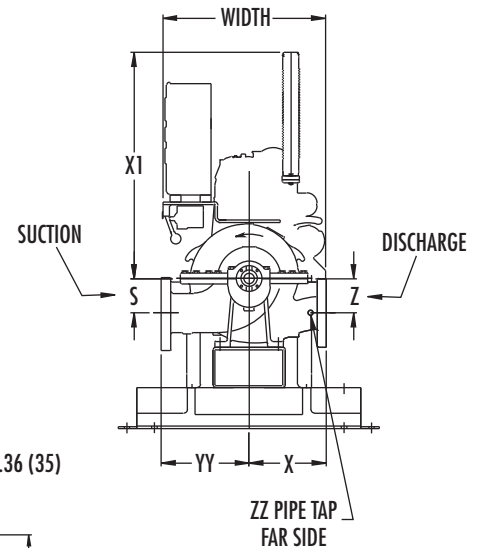
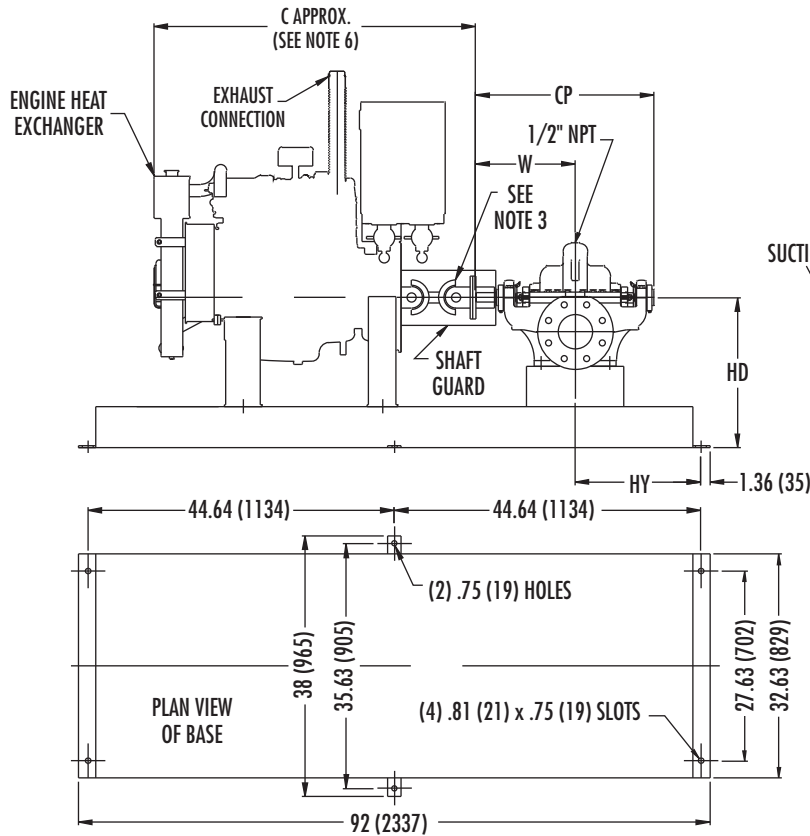
EDWARDS HEAT EXCHANGER DIESEL DRIVE

Section **913** Page **239**

Date **February 2005**

Supersedes Section 913 Page 343

Dated May 2004



RIGHT HAND PUMP ONLY

STANDARD				OPTIONAL				OPTIONAL				
 125# SUCTION AND DISCHARGE FLANGES	 125# SUCTION FLANGE, 250# DISCHARGE FLANGE	 250# SUCTION AND DISCHARGE FLANGES										
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY
DISCH	MODEL	CASE BORE										
3	481	10	4	2	4.5 (114)	13.5 (343)	10 (254)	4.5 (114)	24 (610)	11 (279)	1-1/4	19.30 (490)
4	481	11A/C	5	3	5 (127)	14.5 (368)	11.25 (286)	5 (127)	26 (660)	12.75 (324)	1-1/4	18.30 (465)
4	481	15	5	3	5.5 (140)	14.5 (368)	13 (330)	5.5 (140)	26 (660)	14 (356)	1-1/4	18.26 (464)
5	481	15	6	4	6.25 (159)	16 (406)	13.25 (337)	6.25 (159)	28.5 (724)	15 (381)	1-1/4	16.76 (426)
6	481	11	8	4	6.25 (159)	16 (406)	11.75 (298)	6.25 (159)	28.5 (724)	14.5 (368)	1-1/4	16.76 (426)
6	481	15	8	5	6.75 (171)	18 (457)	14.25 (362)	6.75 (171)	32 (813)	16.75 (425)	1-1/4	14.76 (375)
8	481	12	10	5	8 (203)	18 (457)	17 (432)	9 (229)	32 (813)	17.75 (451)	1-1/4	14.76 (375)

ENGINE MODEL	HD	C	WIDTH	X1
EMI 4JB1H	22.52 (572)	46.87 (1190)	23.63 (600)	33.00 (838)
EMI 4080DH	22.52 (572)	52.00 (1321)	30.00 (762)	41.80 (1062)
EMI 4099TH	22.52 (572)	50.07 (1272)	29.62 (752)	45.14 (1147)

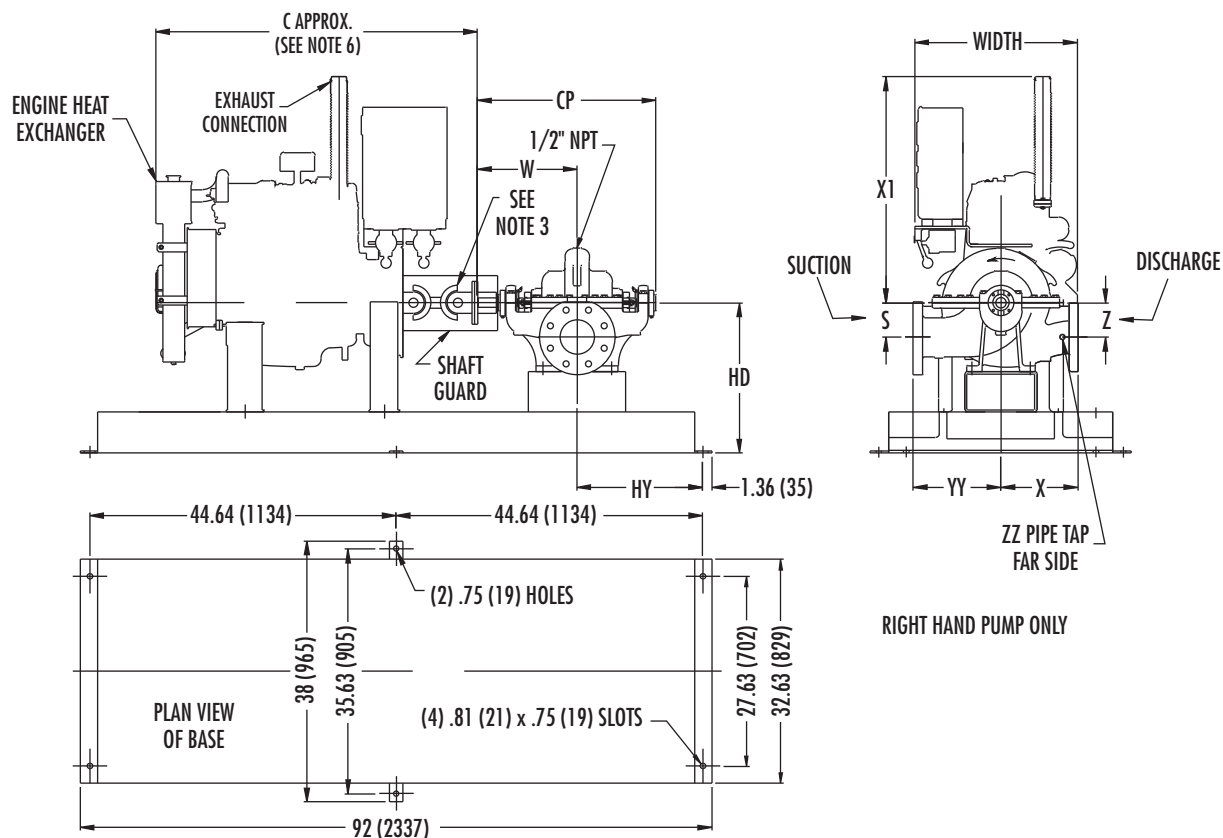
NOTES

1. All dimensions are in inches (mm).
2. Dimensions may vary $\pm 3/8"$ (9).
3. Not for construction purposes unless certified.
4. The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset .35 $\pm$.15 above the pump shaft. The engine crankshaft may be parallel offset from the pump shaft .35 right or left. Refer to the engine manual for alignment instructions.
5. Pump suction and discharge flanges are ANSI Standard flat face.
6. Refer to individual engine dimension print for reference point used to determine engine overall length.
7. Left hand (CCW) rotation not available.

AURORA MODEL 491 & 492 PUMPS

SINGLE STAGE FIRE PUMPS

EDWARDS HEAT EXCHANGER DIESEL DRIVE



STANDARD *				OPTIONAL				OPTIONAL			
	125# SUCTION AND DISCHARGE FLANGES				125# SUCTION FLANGE, 250# DISCHARGE FLANGE				250# SUCTION AND DISCHARGE FLANGES		
PUMP SIZE			SUCTION	S	W	X	Z	CP	YY	ZZ	HY
DISCH	MODEL	CASE BORE									
3	491	9C	5	6.13 (156)	14.63 (372)	11 (279)	6.13 (156)	25.94 (659)	12 (305)	3/4	18.17 (462)
4	491	8A	6	5.75 (146)	14.63 (372)	10 (254)	5.5 (140)	25.94 (659)	11.25 (286)	3/4	18.17 (462)
4	491	14C	6	6.88 (175)	17.63 (448)	13 (330)	8.38 (213)	31.69 (805)	15.25 (387)	3/4	15.18 (386)
4	492	14	5	7.38 (187)	18.38 (467)	13.5 (343)	7.38 (187)	33.19 (843)	14 (356)	3/4	14.42 (366)
4	492	18	5	9.5 (241)	18.38 (467)	14 (356)	9.5 (241)	33.25 (845)	14 (356)	3/4	14.38 (365)
5	491	14A	8	8.25 (210)	17.63 (448)	13.5 (343)	9.75 (248)	31.69 (805)	17.25 (438)	1	15.14 (385)
5	491	18A	8	8.13 (207)	18.88 (480)	15 (381)	10.63 (270)	33.38 (848)	18.75 (476)	1	13.88 (353)
6	491	12A	6	6.88 (175)	16.63 (422)	20.5 (521)	7.13 (181)	29.69 (754)	14 (356)	1	16.18 (411)
8	492	15	10	9.25 (235)	22.5 (572)	17 (432)	9.25 (235)	40.25 (1022)	17 (432)	1	10.26 (261)

ENGINE MODEL	HD	C	X1	WIDTH
EMI 4JB1H	22.52 (591)	46.87 (1190)	33.00 (838)	23.63 (600)
EMI 4080DH	22.52 (572)	52.00 (1321)	41.80 (1062)	30.00 (762)
EMI 4099TH	22.52 (572)	50.07 (1272)	45.14 (1147)	29.62 (752)

NOTES

1. All dimensions are in inches (mm).
2. Dimensions may vary $\pm 3/8"$ (9).
3. Not for construction purposes unless certified.
4. The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset .35 $\pm$.15 above the pump shaft. The engine crankshaft may be parallel offset from the pump shaft .35 right or left. Refer to the engine manual for alignment instructions.
5. Pump suction and discharge flanges are ANSI Standard flat face.
6. Refer to individual engine dimension print for reference point used to determine engine overall length.
7. Left hand (CCW) rotation not available.

* Standard flanges for 6-491-12A are 125# suction, 250 # discharge

AURORA MODEL 481, 491 & 492 PUMPS

Section **913** Page **271**

SINGLE STAGE FIRE PUMPS

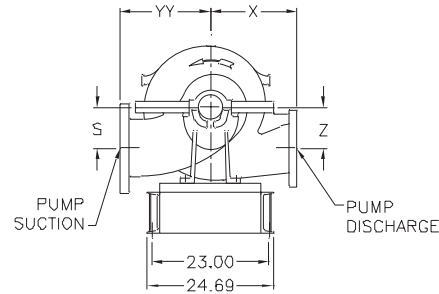
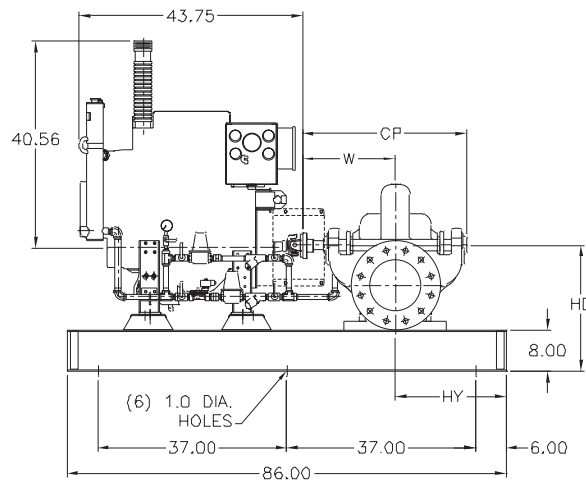
Date **June 2007**

CUMMINS CFP33

Supersedes Section 913 Page 271

DIESEL DRIVE

Dated October 2006



RIGHT HAND PUMP

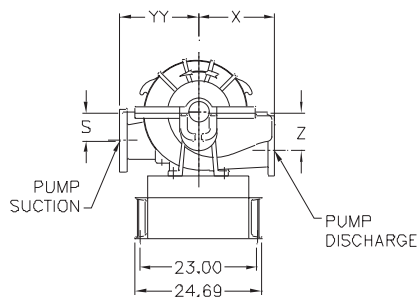
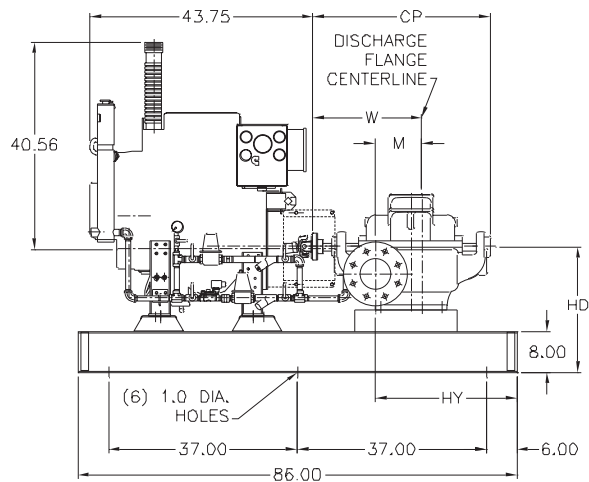
STANDARD*					OPTIONAL*			OPTIONAL						
	125# SUCTION AND DISCHARGE FLANGES					125# SUCTION FLANGE, 250# DISCHARGE FLANGE				250# SUCTION AND DISCHARGE FLANGES				
PUMP SIZE			NO. OF SUCTION BORE	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	HD	
DISCH	MODEL	CASE BORE												
4	481	11A	5	3	5 (127)	14.5 (368)	11.25 (286)	5 (127)	26 (660)	12.75 (324)	1-1/4	25.25 (641)	24.63 (626)	
4	481	15	5	3	5.5 (140)	14.5 (368)	13 (330)	5.5 (140)	26 (660)	14 (356)	1-1/4	25.25 (641)	24.63 (626)	
4	491	11A/C	6	N/A	6.88 (175)	16.63 (422)	11.25 (286)	7.13 (181)	29.69 (754)	14 (356)	3/4	23.13 (588)	24.63 (626)	
4	491	14C	6	N/A	6.88 (175)	17.63 (448)	13 (330)	8.38 (213)	31.69 (805)	15.25 (387)	3/4	22.13 (562)	24.63 (626)	
4	492	14	5	N/A	7.38 (187)	18.38 (467)	13.5 (343)	7.38 (187)	33.19 (843)	14 (356)	3/4	21.38 (543)	24.63 (626)	
4	492	18	5	N/A	9.5 (241)	18.38 (467)	14 (356)	9.5 (241)	33.25 (845)	14 (356)	3/4	21.38 (543)	24.63 (626)	
5	491	14A	8	N/A	8.25 (210)	17.63 (448)	13.5 (343)	9.75 (248)	31.69 (805)	17.25 (438)	1	22.13 (562)	24.63 (626)	
5	481	15	6	4	6.25 (159)	16 (406)	13.25 (337)	6.25 (159)	28.5 (724)	15 (381)	1-1/4	23.75 (603)	24.63 (626)	
6	481	11	8	4	6.25 (159)	16 (406)	11.75 (298)	6.25 (159)	28.5 (724)	14.5 (368)	1-1/4	23.75 (603)	24.63 (626)	
6	481	11HH*	8	4A	8.63 (219)	18.13 (461)	10 (254)	8.63 (219)	32.88 (835)	15 (381)	1-1/4	21.61 (549)	25.81 (656)	
6	481	14HH	8	5A	7.5 (191)	20.44 (519)	15 (381)	7.5 (191)	36.75 (933)	17 (432)	1-1/4	19.31 (490)	25.81 (656)	
6	491	12A	6	N/A	6.88 (175)	16.63 (422)	20.5 (521)	7.13 (181)	29.69 (754)	14 (356)	1	23.13 (588)	24.63 (626)	
6	481	15	8	5	6.75 (171)	18 (457)	14.25 (362)	6.75 (171)	32 (813)	16.75 (425)	1-1/4	21.75 (522)	24.63 (626)	
8	481	12	10	5	8 (203)	18 (457)	17 (432)	9 (229)	32 (813)	17.75 (451)	1-1/4	21.75 (522)	24.63 (626)	

NOTES

1. All dimensions are in inches (mm) and may vary $\pm 3/8"$ (9).
2. Not for construction purposes unless certified.
3. Suction and discharge flanges are ANSI Standard flat face.
4. Refer to individual engine dimension print for reference point used to determine engine overall length.
5. Left hand (CCW) rotation not available.
6. The drive shaft is not designed to operate at 0° angle. The endengine crankshaft is to be parallel offset 0.50 $\pm$ 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

*Pump size 6-481-11HH is furnished as standard with 125# suction flange and 250# discharge flange.

Pump size 6-491-12A is available only with 125# suction flange and 250# discharge flange.

AURORA MODEL 485 PUMPS**TWO STAGE FIRE PUMPS****CUMMINS CFP33****DIESEL DRIVE**

RIGHT HAND PUMP

STANDARD 125# SUCTION AND DISCHARGE FLANGES					OPTIONAL 250# SUCTION AND DISCHARGE FLANGES									
PUMP SIZE		CASE BORE	NOTES	POWER SERIES	S	M	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL													
4	485	15	6	4A	5 (127)	7.13 (181)	18.88 (480)	13 (330)	6.5 (165)	31 (787)	13.5 (343)	1.25	27.98 (711)	24.63 (626)
5	485	15	6	5A	5.5 (140)	9.13 (232)	21.13 (537)	15 (381)	7.5 (191)	34.5 (876)	15.44 (392)	1.25	27.73 (704)	24.63 (626)
6	485	16/ 16B	6	5	8-1/4 (210)	10-1/2 (267)	23-5/8 (600)	19 (483)	7-3/4 (197)	37-7/8 (962)	17 (432)	1.25	25.86 (657)	30.00 (762)

NOTES

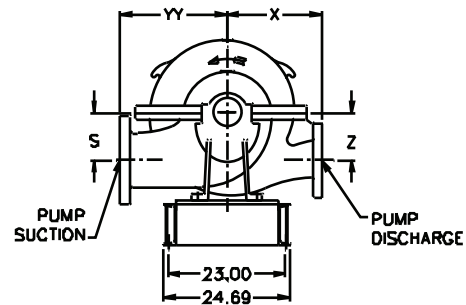
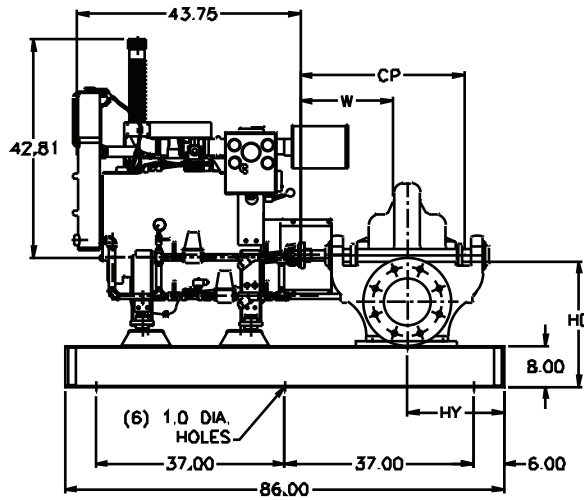
1. All dimensions are in inches (mm) and may vary $\pm 3/8"$ (9).
2. Not for construction purposes unless certified.
3. Suction and discharge flanges are ANSI Standard flat face.
4. Refer to individual engine dimension print for reference point used to determine engine overall length.
5. Left hand (CCW) rotation not available.
6. The drive shaft is not designed to operate at 0° angle. The endgine crankshaft is to be parallel offset 0.50 ± 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

SINGLE STAGE FIRE PUMPS

Date **April 2006**

CUMMINS CFP39

DIESEL DRIVE



RIGHT HAND PUMP

STANDARD*					OPTIONAL*			OPTIONAL					
 125# SUCTION AND DISCHARGE FLANGES					 125# SUCTION FLANGE, 250# DISCHARGE FLANGE			 250# SUCTION AND DISCHARGE FLANGES					
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL	CASE BORE											
4	491	14C	6	N/A	6.88 (175)	17.63 (448)	13 (330)	8.38 (213)	31.69 (805)	15.75 (400)	1	22.11 (562)	25.81 (656)
5	491	14A	8	N/A	8.25 (210)	17.63 (448)	13.5 (343)	9.75 (248)	31.69 (805)	17.25 (438)	1	22.10 (561)	25.81 (656)
6	491	12A	6	N/A	6.88 (175)	16.63 (422)	20.5 (521)	7.13 (181)	29.69 (754)	14 (356)	1	23.10 (587)	25.81 (656)
6	481	11HH*	8	4A	8.63 (219)	18.13 (461)	10 (254)	8.63 (213)	32.88 (835)	15 (381)	1.25	21.61 (549)	25.81 (656)
6	481	14HH*	8	5A	7.5 (191)	20.44 (519)	15 (381)	7.5 (191)	36.75 (933)	17 (432)	1.25	19.33 (491)	25.81 (656)

NOTES

1. All dimensions are in inches (mm) and may vary $\pm 3/8"$ (9).
2. Not for construction purposes unless certified.
3. Suction and discharge flanges are ANSI Standard flat face.
4. Refer to individual engine dimension print for reference point used to determine engine overall length.
5. Left hand (CCW) rotation not available.
6. The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset 0.50 $\pm$ 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

*Pump size 6-481-11HH and 6-481-14HH are furnished as standard with 125# suction flange and 250# discharge flange.

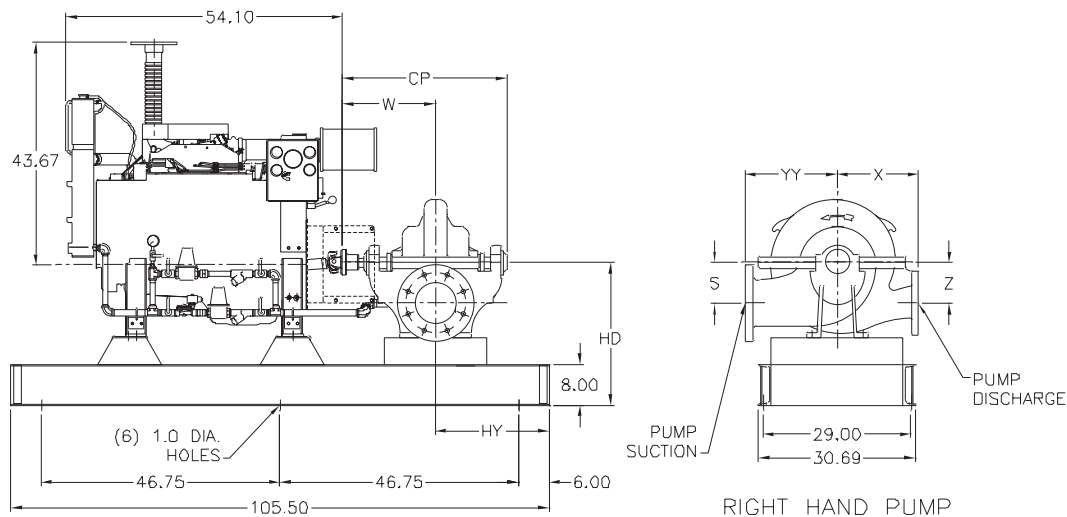
Pump size 6-491-12A is available only with 125# suction flange and 250# discharge flange.

AURORA MODEL 481 PUMPS

SINGLE STAGE FIRE PUMPS

CUMMINS CFP59 & CFP6E

DIESEL DRIVE



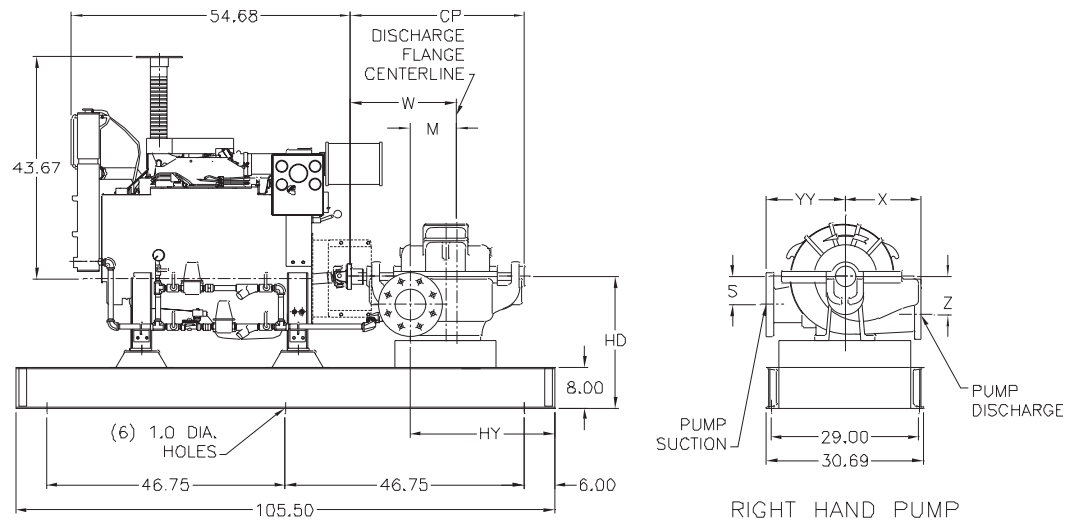
STANDARD*					OPTIONAL*			OPTIONAL					
 125# SUCTION AND DISCHARGE FLANGES					 125# SUCTION FLANGE, 250# DISCHARGE FLANGE			 250# SUCTION AND DISCHARGE FLANGES					
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL	CASE BORE											
5	481	15	6	4	6.25 (159)	16 (406)	13.25 (337)	6.25 (159)	28.5 (724)	15 (381)	1.25	24.31 (617)	28 (711)
5	481	17	5	4	6.25 (159)	16 (406)	14 (356)	6.25 (159)	28.5 (724)	15 (381)	1.25	24.31 (617)	28 (711)
6	481	11HH*	6	4A	8.63 (219)	18.13 (461)	10 (254)	8.63 (219)	32.88 (835)	15 (381)	1.25	22.18 (563)	28 (711)
6	481	14HH*	8	5A	7.5 (191)	20.44 (519)	15 (381)	7.5 (191)	36.75 (933)	17 (432)	1.25	19.88 (505)	28 (711)
6	481	15	8	5	6.75 (171)	18 (457)	14.25 (362)	6.75 (171)	32 (813)	16.75 (425)	1.25	22.31 (567)	28 (711)
6	481	18B/C	8	5	8 (203)	18 (457)	16 (406)	8 (203)	32 (813)	18 (457)	1.25	22.31 (567)	28 (711)
6	481	20	8	5	8 (203)	18 (457)	15.75 (400)	8 (203)	32 (813)	18 (457)	1.25	22.31 (567)	28 (711)
8	481	17B	10	5	8 (203)	18 (457)	17 (432)	8 (203)	32 (813)	17.75 (451)	1.25	22.31 (567)	28 (711)
8	481	21	10	6B	9.5 (241)	21.88 (556)	18 (457)	9.5 (241)	38 (965)	21 (533)	1.25	18.43 (468)	28 (711)
10	481	18	12	6B	13.5 (343)	21.88 (556)	18 (457)	13.5 (343)	38 (965)	22 (559)	1.25	18.43 (468)	33 (711)

NOTES

1. All dimensions are in inches (mm) and may vary $\pm 3/8"$ (9).
2. Not for construction purposes unless certified.
3. Suction and discharge flanges are ANSI Standard flat face.
4. Refer to individual engine dimension print for reference point used to determine engine overall length.
5. Left hand (CCW) rotation not available.
6. The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset 0.50 $\pm$ 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

*Pump size 6-481-11HH & 6-481-14HH are furnished as standard with 125# suction flange and 250# discharge flange.

TWO STAGE FIRE PUMPS
CUMMINS CFP59 & CFP6E
DIESEL DRIVE



STANDARD					OPTIONAL									
125# SUCTION AND DISCHARGE FLANGES					250# SUCTION AND DISCHARGE FLANGES									
PUMP SIZE			SUCTION	POWER SERIES	S	M	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL	CASE BORE												
4	485	15	6	4A	5 (127)	7.13 (181)	18.88 (480)	13 (330)	6.5 (165)	31 (787)	13.5 (343)	1.25	28.56 (725)	28 (711)
5	485	15	6	5A	5.5 (140)	9.13 (232)	21.13 (537)	15 (381)	7.5 (191)	34.5 (876)	15.44 (392)	1.25	28.31 (719)	28 (711)
5	495	15	6	N/A	9 (229)	11 (279)	28.38 (721)	15 (381)	9 (229)	46.88 (1191)	15.44 (392)	1	22.94 (583)	28 (711)
6	485	12	6	5A	8 (203)	7.5 (191)	22.88 (581)	14 (356)	8 (203)	38.5 (978)	14 (356)	1.25	24.93 (633)	28 (711)
6	485	17A	8	5	7 (178)	11 (279)	24.5 (645)	16 (406)	9 (229)	38 (965)	16.5 (419)	1.25	26.81 (681)	28 (711)

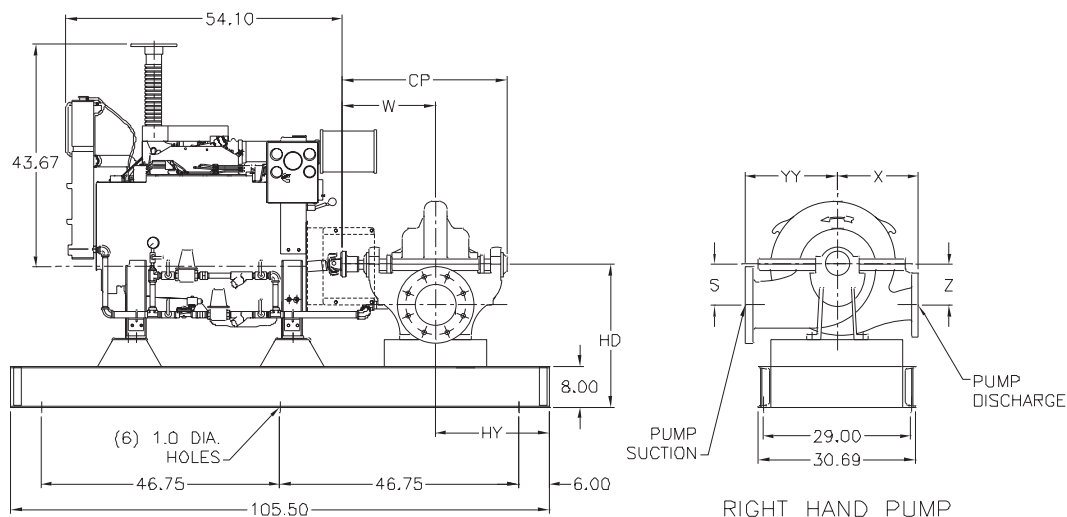
NOTES

1. All dimensions are in inches (mm) and may vary $\pm 3/8"$ (9).
2. Not for construction purposes unless certified.
3. Suction and discharge flanges are ANSI Standard flat face.
4. Refer to individual engine dimension print for reference point used to determine engine overall length.
5. Left hand (CCW) rotation not available.
6. The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset 0.50 $\pm$ 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

Date **March 2009**

Supersedes Section 913 Page 276

Dated April 2006

SINGLE STAGE FIRE PUMPS**CUMMINS CFP59 & CFP6E****DIESEL DRIVE**

STANDARD				OPTIONAL				OPTIONAL				
125# SUCTION AND DISCHARGE FLANGES				125# SUCTION FLANGE, 250# DISCHARGE FLANGE				250# SUCTION AND DISCHARGE FLANGES				
PUMP SIZE			SUCTION	S	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL	CASE BORE										
4	491	14C	6	6.88 (175)	17.63 (448)	13 (330)	8.38 (213)	31.69 (805)	15.25 (387)	3/4	22.69 (576)	28 (711)
4	492	18	5	9.5 (241)	18.38 (467)	14 (356)	9.5 (241)	33.25 (845)	14 (356)	3/4	21.93 (557)	28 (711)
5	491	14A	8	8.25 (210)	17.63 (448)	13.5 (343)	9.75 (248)	31.69 (805)	17.25 (438)	1	22.68 (576)	28 (711)
5	491	18A	8	8.13 (207)	18.88 (480)	15 (381)	10.63 (270)	33.38 (848)	18.75 (476)	1	21.43 (544)	28 (711)
6	491	14A/C	10	9.38 (238)	20.13 (511)	13.25 (337)	10 (254)	35.88 (911)	18 (464)	1	20.19 (513)	28 (711)
6	492	15	8	8.75 (222)	22.5 (572)	15.5 (394)	8.75 (222)	40.25 (1022)	15 (381)	1	17.81 (452)	28 (711)
6	491	18C	10	9.38 (238)	20.13 (511)	16 (406)	11.75 (298)	35.88 (911)	20 (508)	1	20.19 (513)	28 (711)
8	491	14A	12	10.75 (273)	20.5 (521)	16 (406)	10.75 (273)	36.63 (930)	22 (559)	1	19.81 (503)	29.5 (749)
8	491	18A	12	10.75 (273)	23.75 (603)	16 (406)	12.5 (318)	41.5 (1054)	22 (559)	1	16.56 (421)	29.5 (749)
8	492	15	10	9.25 (235)	22.5 (572)	17 (432)	9.25 (235)	40.25 (1022)	17 (432)	1	17.81 (452)	28 (711)

NOTES

1. All dimensions are in inches (mm) and may vary $\pm 3/8"$ (9).
2. Not for construction purposes unless certified.
3. Suction and discharge flanges are ANSI Standard flat face.
4. Refer to individual engine dimension print for reference point used to determine engine overall length.
5. Left hand (CCW) rotation not available.
6. The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset 0.50 $\pm$ 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

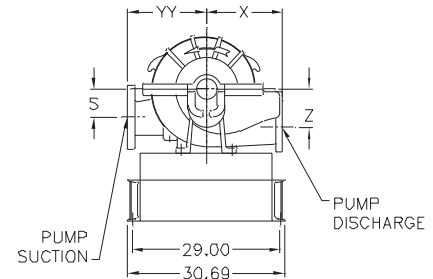
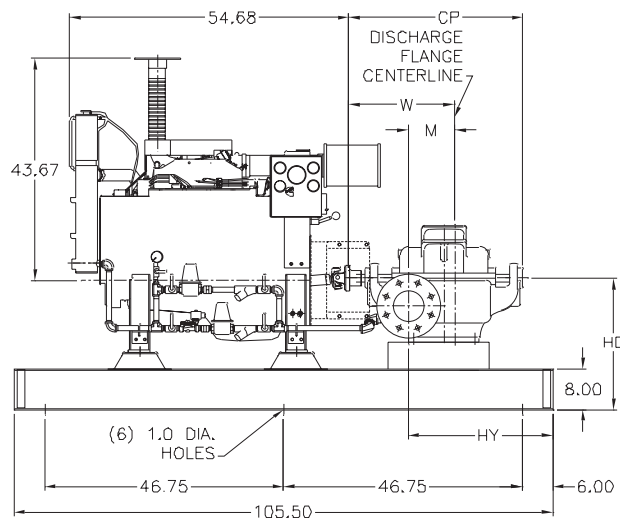
AURORA MODEL 485 PUMPS

TWO STAGE FIRE PUMPS
CUMMINS CFP59 & CFP6E
DIESEL DRIVE

Section **913** Page **277**

Date **July 2009**

Supersedes Section 913 Page 277
Dated June 2008



RIGHT HAND PUMP

STANDARD 125# SUCTION AND 250# DISCHARGE FLANGES					OPTIONAL 250# SUCTION AND DISCHARGE FLANGES									
PUMP SIZE			SUCTION	POWER SERIES	S	M	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL	CASE BORE												
4	485	15	5	3	5 (127)	7.13 (181)	18.88 (480)	13 (330)	6.5 (165)	31 (787)	13.5 (343)	1.25	28.56 (725)	28 (711)
5	485	15	6	4	5.5 (140)	9.13 (232)	21.13 (537)	15 (381)	7.5 (191)	34.5 (876)	15.44 (392)	1.25	28.31 (719)	28 (711)
6	485	12	6	5A	8 (203)	7.5 (191)	22.88 (581)	14 (356)	8 (203)	38.5 (978)	14 (356)	1.25	24.93 (633)	28 (711)
6	485	16/ 16B	8	5	8.25 (210)	10.5 (267)	23-5/8 (600)	19 (483)	7.75 (197)	37-7/8 (962)	17 (432)	1.25	25.86 (657)	30 (762)
6	485	17A	8	5	7 (178)	11 (279)	24.5 (645)	16 (406)	9 (229)	38 (965)	16.5 (419)	1.25	26.81 (681)	28 (711)

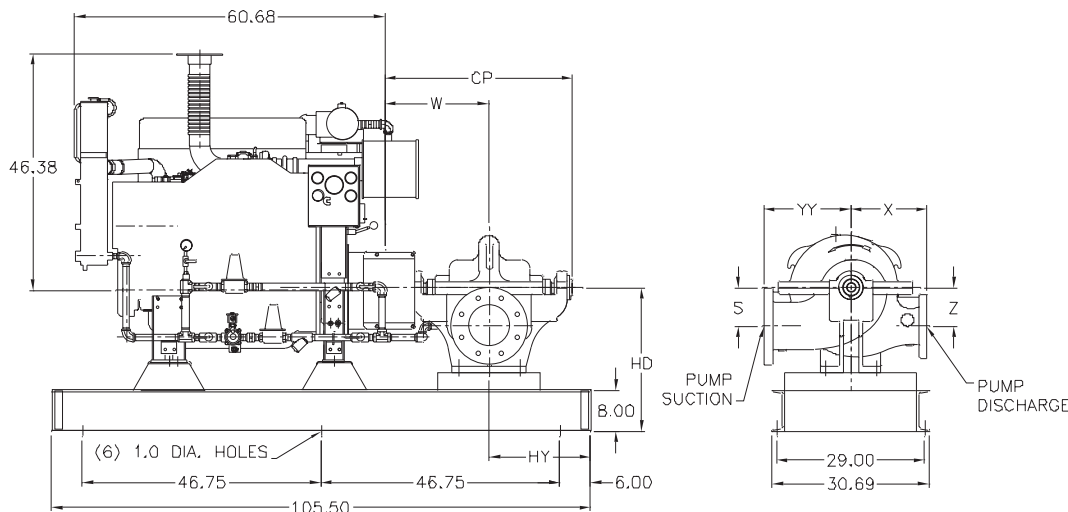
NOTES

1. All dimensions are in inches (mm) and may vary $\pm 3/8"$ (9).
2. Not for construction purposes unless certified.
3. Suction and discharge flanges are ANSI Standard flat face.
4. Refer to individual engine dimension print for reference point used to determine engine overall length.
5. Left hand (CCW) rotation not available.
6. The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset 0.50 $\pm$ 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

Date **April 2006**

Supersedes Section 913 Page 278

Dated April 2006

SINGLE STAGE FIRE PUMPS
CUMMINS CFP83 & CFP8E
DIESEL DRIVE

RIGHT HAND PUMP

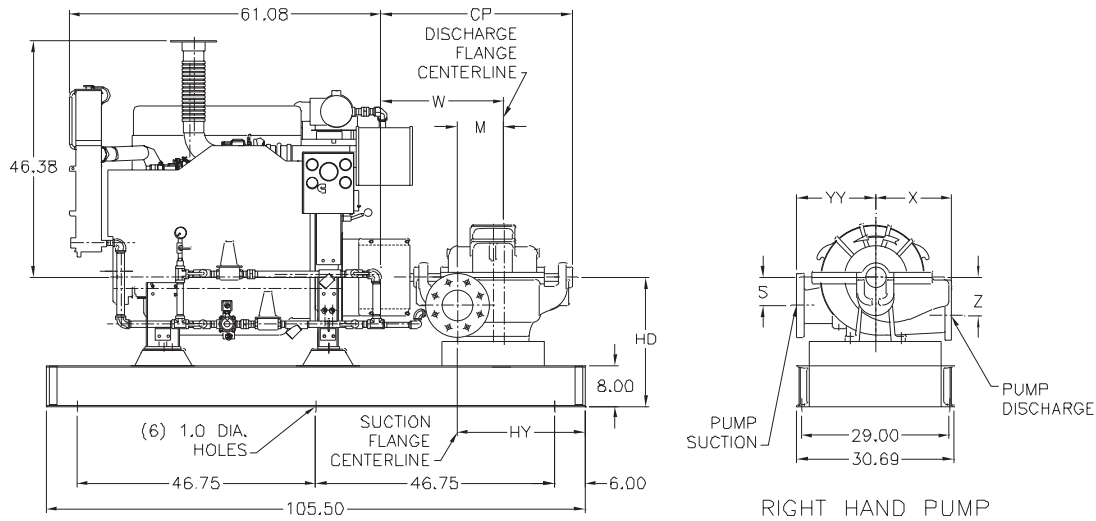
STANDARD					OPTIONAL			OPTIONAL					RIGHT HAND PUMP	
 125# SUCTION AND DISCHARGE FLANGES					 125# SUCTION FLANGE, 250# DISCHARGE FLANGE			 250# SUCTION AND DISCHARGE FLANGES						
PUMP SIZE		CASE BORE	SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	HD	
DISCH	MODEL													
5	491	18A	8	N/A	8.13 (207)	18.88 (480)	15 (381)	10.63 (270)	31.38 (797)	18.75 (476)	1	21.44 (545)	28 (711)	
6	491	14A	10	N/A	9.38 (238)	20.13 (511)	13.25 (337)	10 (254)	31.38 (797)	18.75 (476)	1	20.19 (513)	28 (711)	
6	491	18C	10	N/A	9.38 (238)	20.13 (511)	16 (406)	11.75 (298)	35.88 (911)	20 (508)	1	20.19 (513)	28 (711)	
6	491	19A	10	N/A	9.38 (238)	22.63 (575)	18 (457)	12.13 (308)	35.88 (911)	18 (457)	1	17.69 (449)	28 (711)	
6	481	15	8	5	6.75 (171)	18 (457)	14.25 (362)	6.75 (171)	32 (813)	16.75 (425)	1.25	22.31 (567)	28 (711)	
6	481	18B/C	8	5	8 (203)	18 (457)	16 (406)	8 (203)	32 (813)	18 (457)	1.25	22.31 (567)	28 (711)	
6	481	20	8	5	8 (203)	18 (457)	15.75 (400)	8 (203)	32 (813)	18 (457)	1.25	22.31 (567)	28 (711)	
8	481	17B	10	5	8 (203)	18 (457)	17 (432)	8 (203)	32 (813)	17.75 (451)	1.25	22.31 (567)	28 (711)	
8	491	14A/AU	12	N/A	10.75 (273)	20.5 (521)	16 (406)	10.75 (273)	36.63 (930)	22 (559)	1	19.81 (503)	29.5 (749)	
8	491	18A	12	N/A	10.75 (273)	23.75 (603)	16 (406)	12.5 (318)	41.5 (1054)	22 (559)	1	16.56 (421)	29.5 (749)	
8	481	21/A	10	6B	9.5 (241)	21.88 (556)	18 (457)	9.5 (241)	38 (965)	21 (533)	1.25	18.43 (468)	28 (711)	
10	481	18	12	6B	13.5 (343)	21.88 (556)	18 (457)	13.5 (343)	38 (965)	22 (559)	1.25	18.43 (468)	33 (838)	
10	492	18	12	N/A	11.5 (292)	25.56 (649)	21 (533)	11.5 (292)	45.81 (1164)	21 (533)	1	14.75 (375)	33 (838)	
10	481	18D	12	7A	12.25 (311)	24.31 (617)	20 (508)	12.25 (311)	43 (1092)	24 (610)	1.25	16 (406)	33 (838)	
12	481	18A	14	7	15 (381)	25.25 (641)	18 (457)	15 (381)	43.88 (1115)	23 (584)	1.25	15.06 (383)	34 (864)	

NOTES

1. All dimensions are in inches (mm) and may vary $\pm 3/8"$ (9).
2. Not for construction purposes unless certified.
3. Suction and discharge flanges are ANSI Standard flat face.
4. Refer to individual engine dimension print for reference point used to determine engine overall length.
5. Left hand (CCW) rotation not available.
6. The drive shaft is not designed to operate at 0° angle. The endengine crankshaft is to be parallel offset 0.50 ± 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

TWO STAGE FIRE PUMPS CUMMINS CFP83 & CFP8E DIESEL DRIVE

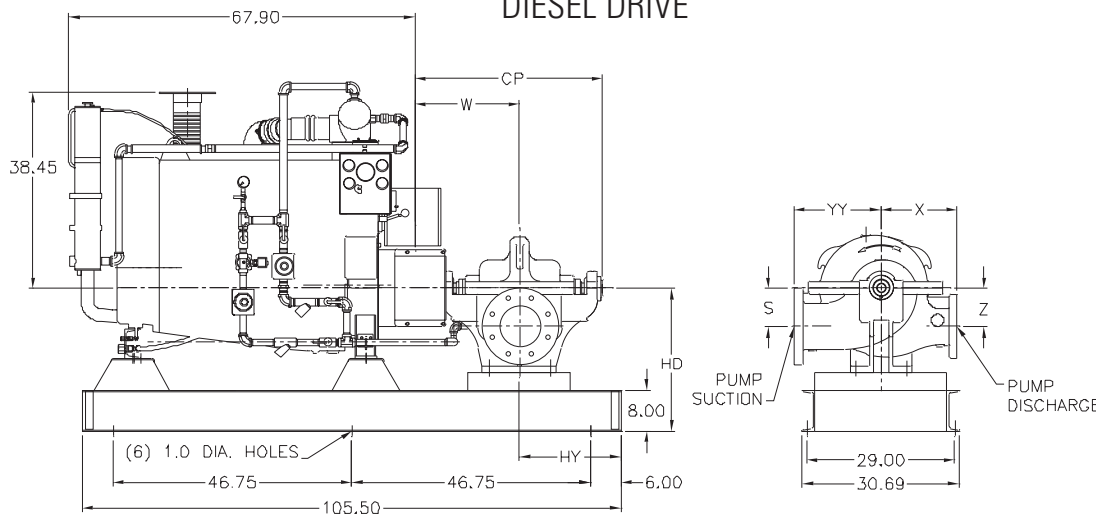
Date **April 2006**



STANDARD					OPTIONAL									
 125# SUCTION AND DISCHARGE FLANGES					 250# SUCTION AND DISCHARGE FLANGES									
PUMP SIZE			SUCTION	POWER SERIES	S	M	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL	CASE BORE												
6	485	17A	8	5	7 (178)	11 (279)	24.5 (622)	16 (406)	9 (229)	38 (965)	16.5 (419)	1.25	26.81 (681)	28 (711)
6	495	17	8	N/A	9 (229)	13 (330)	31.63 (803)	16.5 (419)	10.5 (367)	52.5 (1334)	16.5 (419)	1	21.69 (551)	28 (711)

NOTES

1. All dimensions are in inches (mm) and may vary $\pm 3/8"$ (9).
2. Not for construction purposes unless certified.
3. Suction and discharge flanges are ANSI Standard flat face.
4. Refer to individual engine dimension print for reference point used to determine engine overall length.
5. Left hand (CCW) rotation not available.
6. The drive shaft is not designed to operate at 0° angle. The endgine crankshaft is to be parallel offset 0.50 $\pm$ 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

AURORA MODEL 481, 491, 492 PUMPS**SINGLE STAGE FIRE PUMPS****CUMMINS CFP11E****DIESEL DRIVE****RIGHT HAND PUMP**

STANDARD 125# SUCTION AND DISCHARGE FLANGES				OPTIONAL 125# SUCTION FLANGE, 250# DISCHARGE FLANGE				OPTIONAL 250# SUCTION AND DISCHARGE FLANGES					
PUMP SIZE													
DISCH	MODEL	CASE BORE	SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	HD
6	481	20	8	5	8 (203)	18 (457)	15.75 (400)	8 (203)	32 (813)	18 (457)	1.25 (32)	21.6 (549)	30 (762)
6	491	18C	10	N/A	9.38 (238)	20.13 (511)	16 (406)	11.75 (298)	35.88 (911)	20 (508)	1	19.47 (495)	30 (762)
8	491	18A	12	N/A	10.75 (273)	23.75 (603)	16 (406)	10.75 (273)	36.63 (930)	22 (559)	1	15.85 (403)	30 (762)
8	492	24	12	N/A	13.5 (343)	28.63 (727)	20 (508)	15 (381)	51.5 (1308)	25 (635)	1	10.97 (279)	30 (762)
8	481	21/A	10	6B	9.5 (241)	21.88 (556)	18 (457)	9.5 (241)	38 (965)	21 (533)	1.25	17.72 (450)	30 (762)
10	481	18	12	6B	13.5 (241)	21.88 (556)	18 (457)	13.5 (343)	38 (965)	22 (559)	1.25	17.72 (450)	33 (838)
10	481	18D	12	7A	12.25 (311)	24.31 (617)	20 (508)	12.25 (311)	43 (1092)	24 (610)	1.25	15.29 (388)	33 (838)
10	491	20	16	N/A	13 (330)	25.56 (649)	23 (584)	14.25 (362)	44.56 (1132)	25 (635)	1	14.04 (357)	30 (762)
10	492	18	12	N/A	11.75 (298)	25.56 (649)	21 (533)	11.5 (292)	45.81 (1164)	21 (533)	1	14.04 (357)	30 (762)
12	481	18A	14	7	15 (381)	25.25 (641)	18 (457)	15 (381)	43.88 (1115)	23 (584)	1.25	14.35 (364)	32 (813)

NOTES

1. All dimensions are in inches (mm) and may vary $\pm 3/8"$ (9).
2. Not for construction purposes unless certified.
3. Suction and discharge flanges are ANSI Standard flat face.
4. Refer to individual engine dimension print for reference point used to determine engine overall length.
5. Left hand (CCW) rotation not available.
6. The drive shaft is not designed to operate at 0° angle. The engine crankshaft is to be parallel offset 0.50 $\pm$ 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.