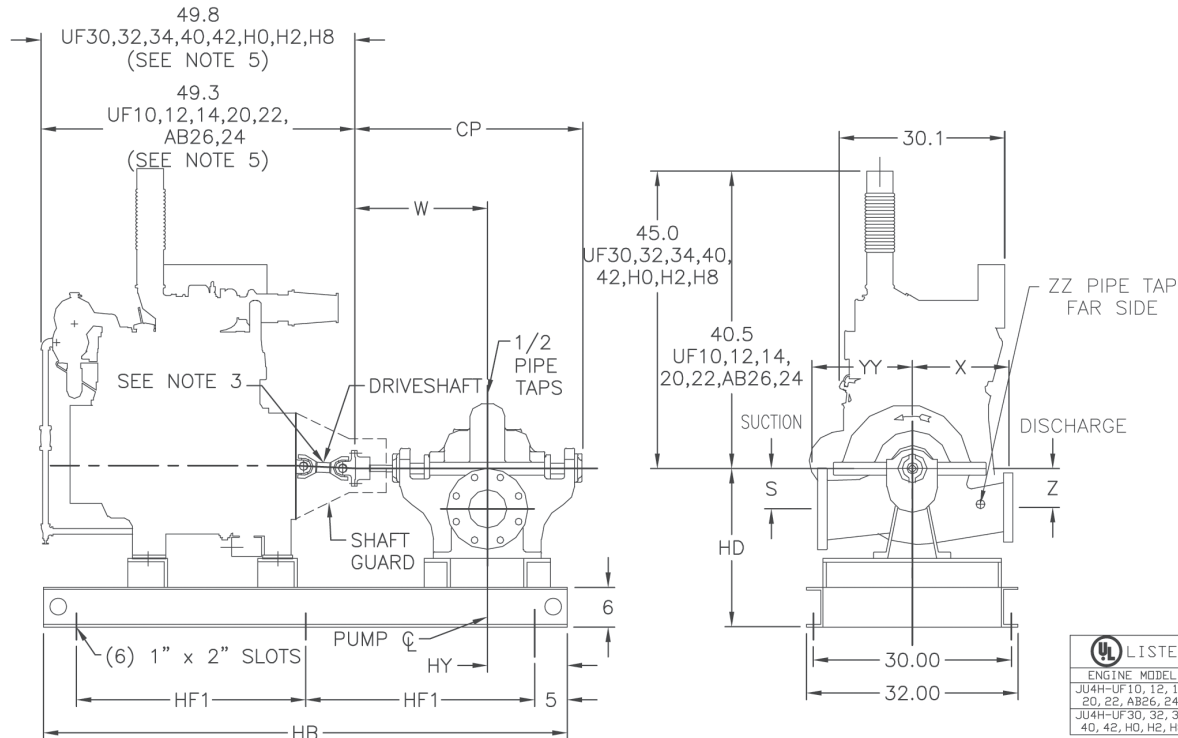
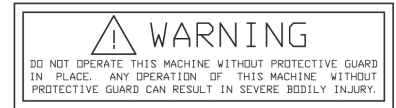


AURORA® 481 PUMPS
SINGLE-STAGE FIRE PUMPS
CLARKE MODELS JU4H-UF10, UF12, UF14, UF20,
UF22, UF24, UF34, UFH0, UFH2, UF40, UF42

Section **913** Page **201**
 Date **OCTOBER 2017**
 Supersedes **JULY 2013**



UL LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UF10, 12, 14, 20, 22, AB26, 24	CDS10-SC
JU4H-UF30, 32, 34, 40, 42, H0, H2, H8	CDS20-SC

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
2-1/2	481	10B	3	2	4	13-1/2	9-3/4	4	24	10	1-1/4	78	20	34	16-1/2
3	481	10	4	2	4-1/2	13-1/2	10	4-1/2	24	11	1-1/4	78	20	34	16-1/2
4	481	11/A/C	5	3	5	14-1/2	11-1/4	5	26	12-3/4	1-1/4	78	20	34	15-1/2
4	481	11D	5	3	5	14-1/2	12	5	26	12-3/4	1-1/4	78	20	34	15-1/2
4	481	15	5	3	5-1/2	14-1/2	13	5-1/2	26	14	1-1/4	78	20	34	15-1/2
5	481	11	6	4	5-1/2	16	11-1/4	5-1/2	28-1/2	13-1/4	1-1/4	78	20	34	14
5	481	15/A	6	4	6-1/4	16	13-1/4	6-1/4	28-1/2	15	1-1/4	78	20	34	14
5	481	17	6	4	6-1/4	16	14	6-1/4	28-1/2	15	1-1/4	78	20	34	14
6	481	11	8	4	6-1/4	16	11-3/4	6-1/4	28-1/2	14-1/2	1-1/4	78	21	34	14
6	481	11HH	8	-	8-5/8	18-1/8	10	8-5/8	32-7/8	15	1-1/4	78	23	34	11-7/8
6	481	14HH	8	-	7-1/2	20-7/16	15	7-1/2	36-3/4	17	1-1/4	88	23	39	19-9/16
6	481	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
6	481	18	8	5	8	18	16	8	32	18	1-1/4	78	22	34	12
6	481	20	8	5	8	18	15-3/4	8	32	18	1-1/4	78	22	34	12
8	481	12	10	5	8	18	17	9	32	17-3/4	1-1/4	78	24	34	12
8	481	17	10	5	8	18	17	8	32	17-3/4	2	78	24	34	12

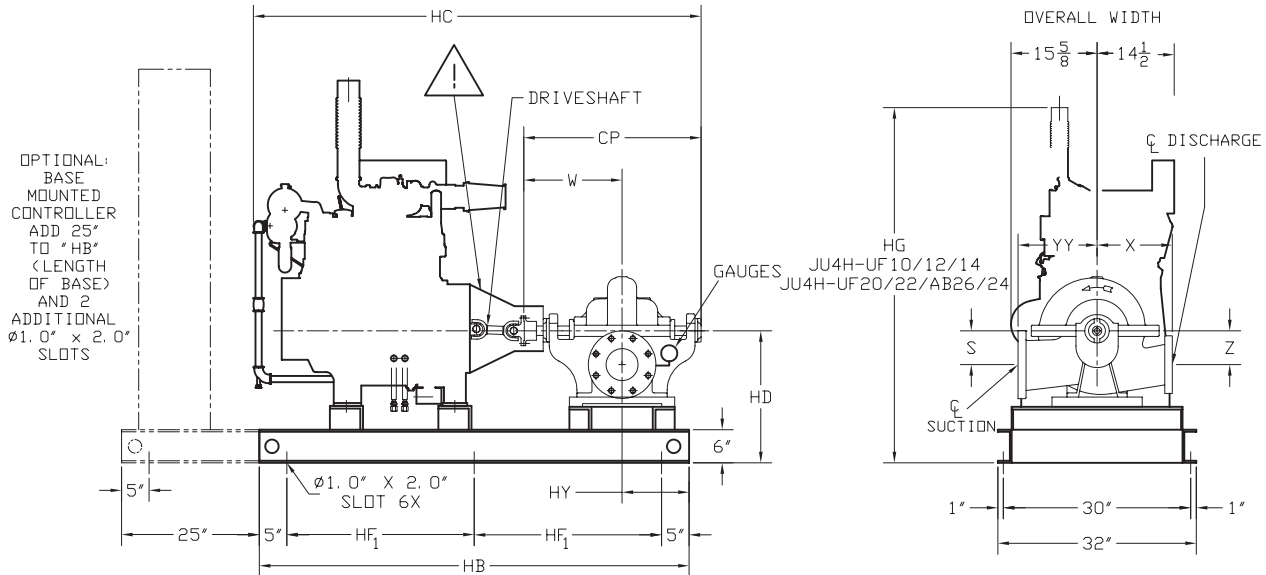
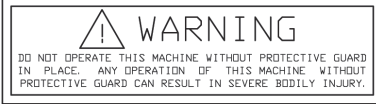
NOTES:

- All dimensions are in inches and may vary $\pm 3/8"$.
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $0.25" \pm 0.08$ inches vertically above the pump shaft and $0.00" \pm 0.08$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions 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 engine overall length.
- Left-hand (counterclockwise) rotation is not available.

AURORA® PUMPS

SINGLE-STAGE HSC FIRE PUMPS

CLARKE MODELS JU4H-UF10,UF12,UF14, UF20, UF22, AB26, AB24



UL LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UF10, 12, 14, 20, 22, AB26, 24	CDS10-SC

PUMP SIZE			SUCTION	POWER SERIES													
DISCH	MODEL	CASE BORE			S	W	X	Z	CP	HB	HC	HD	HF1	HG	HY	YY	
3	491	9	5	-	6-1/8	14-5/8	11	6-1/8	25-15/16	78	75-1/8	20	34	60-7/8	15-3/8	12	
4	491	14	6	-	6-7/8	17-5/8	13	8-3/8	31-11/16	88	80-7/8	20	39	60-7/8	22-3/8	15-1/4	
4	491	8	6	-	5-3/4	14-5/8	10	5-1/2	25-15/16	78	75-1/8	20	34	60-7/8	15-3/8	11-1/4	
4	491	11	6	-	6-7/8	16-5/8	11-1/4	7-1/8	29-11/16	78	78-7/8	21	34	61-7/8	13-3/8	14	
4	491	14	5	-	7-3/8	18-3/8	13-1/2	7-3/8	33-3/16	78	82-3/8	20	34	60-7/8	11-5/8	14	
4	491	18	5	-	9-1/2	18-3/8	14	9-1/2	33-1/4	88	82-7/16	22	39	62-7/8	21-5/8	14	
4	491	10	6	-	6-1/2	16-7/8	10-1/4	6-1/2	29-13/16	78	79	20	34	60-7/8	13-1/8	11	
5	491	14	8	-	8-1/4	17-5/8	13-1/2	9-3/4	31-11/16	88	80-7/8	23	39	63-7/8	22-3/8	17-1/4	
5	491	18	8	-	8-1/8	18-7/8	15	10-5/8	33-3/8	88	82-9/16	23	39	63-7/8	21-1/8	18-3/4	
5	491	10	8	-	8	20	12-1/2	7	35-1/2	88	84-11/16	23	39	63-7/8	20	13	
6	491	14	10	-	9-3/8	20-1/8	13-1/4	10	35-7/8	88	85-1/16	25	39	65-7/8	19-7/8	18	
6	491	12	10	-	6-7/8	16-5/8	20-1/2	7-1/8	29-11/16	78	78-7/8	23	34	63-7/8	13-3/8	14	
6	491	15	8	-	8-3/4	22-1/2	15-1/2	8-3/4	40-1/4	88	89-7/16	23	39	63-7/8	17-1/2	15	
6	491	10	10	-	9	20-5/8	13	7-1/2	36-3/4	88	85-15/16	25	39	65-7/8	19-3/8	15	
8	491	14	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	88	85-3/4	28	39	68-7/8	19-1/2	22	

NOTES:

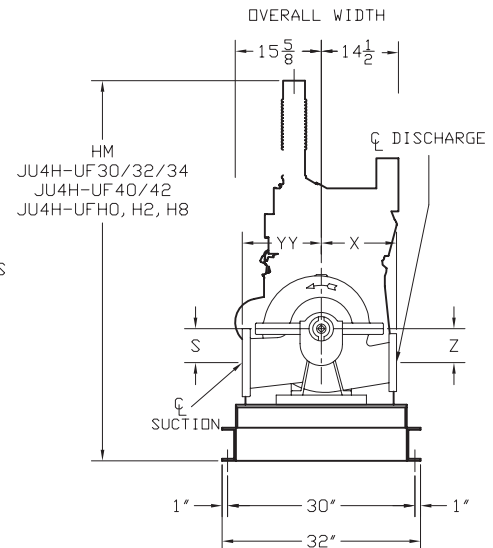
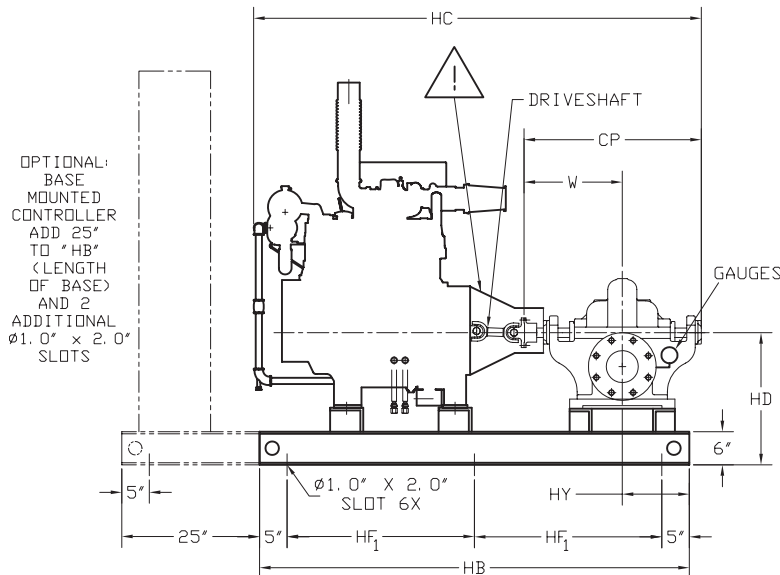
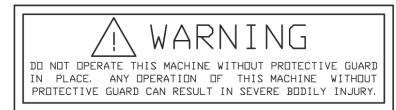
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application puposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.25"±0.09 inches vertically above the pump shaft and 0.00"±0.09 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® PUMPS
SINGLE-STAGE HSC FIRE PUMPS
CLARKE MODELS JU4H-UF30, UF32, UF34
UF40, UF42, JU4H-UFH0, UFH2, UFH8

Section **913** Page **203**
 Date **JULY 2013**



FROM DRIVER END
 C.W. ROTATION VIEWED

UL LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UF30, 32, 34, 40, 42, H0, H2, H8	CDS20-SC

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
3	491	9	5	-	6-1/8	14-5/8	11	6-1/8	25-15/16	78	78-5/8	20	34	65-3/8	15-3/8	12
4	491	14	6	-	6-7/8	17-5/8	13	8-3/8	31-11/16	88	81-3/8	20	39	65-3/8	22-3/8	15-1/4
4	491	8	6	-	5-3/4	14-5/8	10	5-1/2	25-15/16	78	75-5/8	20	34	65-3/8	15-3/8	11-1/4
4	491	11	6	-	6-7/8	16-5/8	11-1/4	7-1/8	29-11/16	78	79-3/8	21	34	66-3/8	13-3/8	14
4	492	14	5	-	7-3/8	18-3/8	13-1/2	7-3/8	33-3/16	78	82-7/8	20	34	65-3/8	11-5/8	14
4	492	18	5	-	9-1/2	18-3/8	14	9-1/2	33-1/4	88	82-15/16	22	39	67-3/8	21-5/8	14
4	492	10	6	-	6-1/2	16-7/8	10-1/4	6-1/2	29-13/16	78	79-1/2	20	34	65-3/8	13-1/8	11
5	491	14	8	-	8-1/4	17-5/8	13-1/2	9-3/4	31-11/16	88	81-3/8	23	39	68-3/8	22-3/8	17-1/4
5	491	18	8	-	8-1/8	18-7/8	15	10-5/8	33-3/8	88	83-1/16	23	39	68-3/8	21-1/8	18-3/4
5	492	10	8	-	8	20	12-1/2	7	35-1/2	88	85-3/16	23	39	68-3/8	20	13
6	491	14	10	-	9-3/8	20-1/8	13-1/4	10	35-7/8	88	85-9/16	25	39	70-3/8	19-7/8	18
6	491	12	10	-	6-7/8	16-5/8	20-1/2	7-1/8	29-11/16	78	79-3/8	23	34	68-3/8	13-3/8	14
6	492	15	8	-	8-3/4	22-1/2	15-1/2	8-3/4	40-1/4	88	89-15/16	23	39	68-3/8	17-1/2	15
6	492	10	10	-	9	20-5/8	13	7-1/2	36-3/4	88	86-7/16	25	39	70-3/8	19-3/8	15
8	491	14	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	88	86-1/4	28	39	73-3/8	19-1/2	22

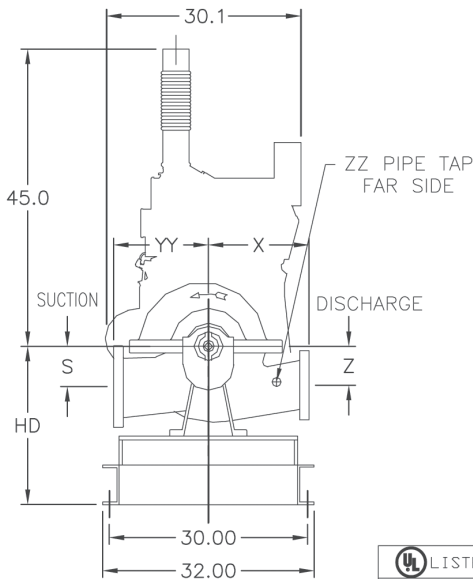
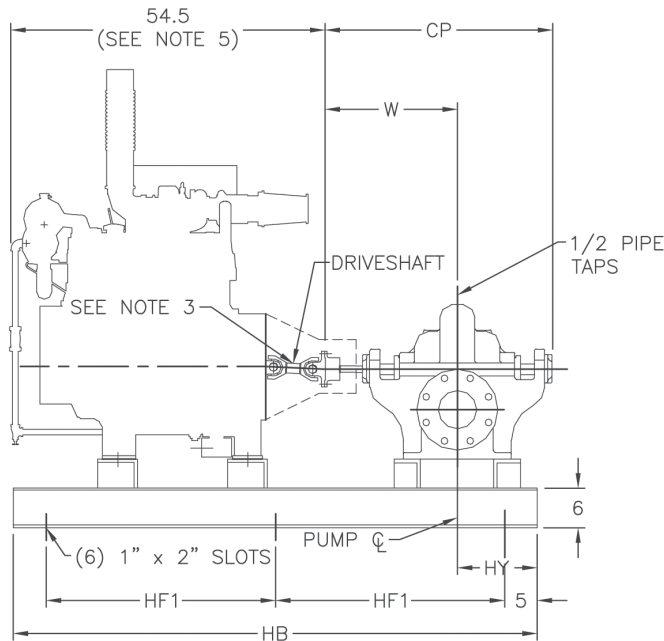
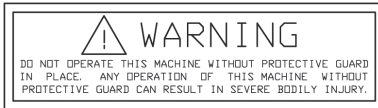
NOTES:

1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.25"± 0.08 inches vertically above the pump shaft and 0.00"± 0.08 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® 481 PUMPS
SINGLE-STAGE FIRE PUMPS
CLARKE MODELS JU4H-UF50, UF52,
UF54, UF58



LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UF50, 52, 54, 58	CDS30-S1

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
2-1/2	481	10B	3	2	4	13-1/2	9-3/4	4	24	10	1-1/4	78	20	34	16-1/2
3	481	10	4	2	4-1/2	13-1/2	10	4-1/2	24	11	1-1/4	78	20	34	16-1/2
4	481	11/A/C	5	3	5	14-1/2	11-1/4	5	26	12-3/4	1-1/4	78	20	34	15-1/2
4	481	11D	5	3	5	14-1/2	12	5	26	12-3/4	1-1/4	78	20	34	15-1/2
4	481	15	5	3	5-1/2	14-1/2	13	5-1/2	26	14	1-1/4	78	20	34	15-1/2
5	481	11	6	4	5-1/2	16	11-1/4	5-1/2	28-1/2	13-1/4	1-1/4	78	20	34	14
5	481	15/A	6	4	6-1/4	16	13-1/4	6-1/4	28-1/2	15	1-1/4	78	20	34	14
5	481	17	6	4	6-1/4	16	14	6-1/4	28-1/2	15	1-1/4	78	20	34	14
6	481	11	8	4	6-1/4	16	11-3/4	6-1/4	28-1/2	14-1/2	1-1/4	78	21	34	14
6	481	11HH	8	-	8-5/8	18-1/8	10	8-5/8	32-7/8	15	1-1/4	78	23	34	11-7/8
6	481	14HH	8	-	7-1/2	20-7/16	15	7-1/2	36-3/4	17	1-1/4	88	23	39	19-9/16
6	481	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
6	481	18	8	5	8	18	16	8	32	18	1-1/4	78	22	34	12
6	481	20	8	5	8	18	15-3/4	8	32	18	1-1/4	78	22	34	12
8	481	12	10	5	8	18	17	9	32	17-3/4	1-1/4	78	24	34	12
8	481	17	10	5	8	18	17	8	32	17-3/4	2	78	24	34	12

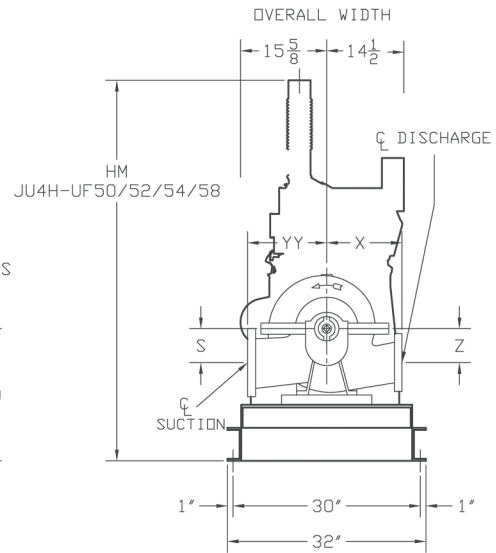
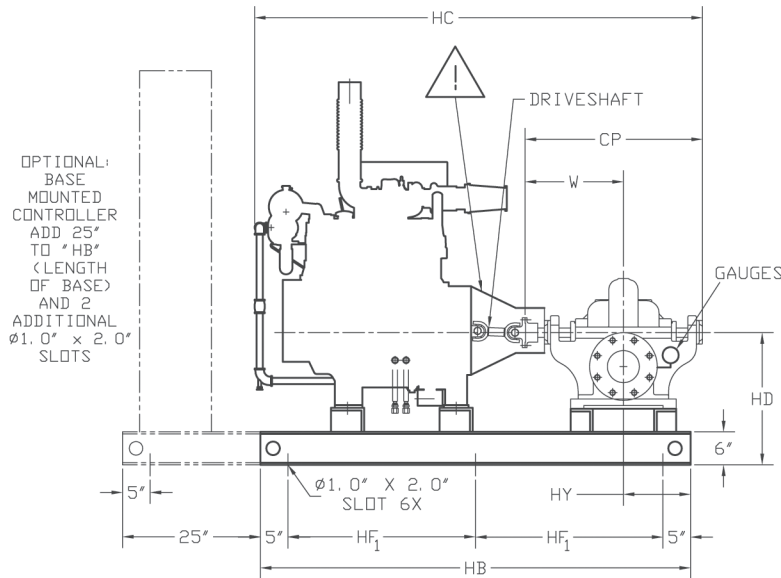
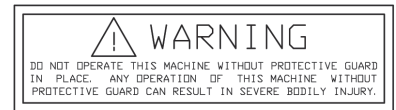
NOTES:

- All dimensions are in inches and may vary $\pm 3/8"$.
- Not for construction purposes, unless certified.
- Cauton: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $0.35" \pm 0.10$ inches vertically above the pump shaft and $0.00" \pm 0.10$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions 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 engine overall length.
- Left-hand (counterclockwise) rotation is not available.

AURORA® PUMPS
SINGLE-STAGE HSC FIRE PUMPS
CLARKE MODELS JU4H-UF50, UF52,
UF54, UF58

Section **913** Page **205**

Date **JULY 2013**



UL LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UF50, -UF52, 54, 58	CDS10-S1

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
3	491	9	5	-	6-1/8	14-5/8	11	6-1/8	25-15/16	78	80-3/8	20	34	65-3/8	15-3/8	12
4	491	14	6	-	6-7/8	17-5/8	13	8-3/8	31-11/16	88	86-1/8	20	39	65-3/8	22-3/8	15-1/4
4	491	8	6	-	5-3/4	14-5/8	10	5-1/2	25-15/16	78	80-3/8	20	34	65-3/8	15-3/8	11-1/4
4	491	11	6	-	6-7/8	16-5/8	11-1/4	7-1/8	29-11/16	78	84-1/8	21	34	66-3/8	13-3/8	14
4	492	14	5	-	7-3/8	18-3/8	13-1/2	7-3/8	33-3/16	78	87-5/8	20	34	65-3/8	11-5/8	14
4	492	18	5	-	9-1/2	18-3/8	14	9-1/2	33-1/4	88	87-11/16	22	39	67-3/8	21-5/8	14
4	492	10	6	-	6-1/2	16-7/8	10-1/4	6-1/2	29-13/16	78	84-1/4	20	34	65-3/8	13-1/8	11
5	491	14	8	-	8-1/4	17-5/8	13-1/2	9-3/4	31-11/16	88	86-1/8	23	39	68-3/8	22-3/8	17-1/4
5	491	18	8	-	8-1/8	18-7/8	15	10-5/8	33-3/8	88	87-13/16	23	39	68-3/8	21-1/8	18-3/4
5	492	10	8	-	8	20	12-1/2	7	35-1/2	88	89-15/16	23	39	68-3/8	20	13
6	491	14	10	-	9-3/8	20-1/8	13-1/4	10	35-7/8	88	90-5/16	25	39	70-3/8	19-7/8	18
6	491	12	10	-	6-7/8	16-5/8	20-1/2	7-1/8	29-11/16	78	84-1/8	23	34	68-3/8	13-3/8	14
6	492	15	8	-	8-3/4	22-1/2	15-1/2	8-3/4	40-1/4	88	94-11/16	23	39	68-3/8	17-1/2	15
6	492	10	10	-	9	20-5/8	13	7-1/2	36-3/4	88	91-3/16	25	39	70-3/8	19-3/8	15
8	491	14	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	88	91	28	39	73-3/8	19-1/2	22

NOTES:

- Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
- Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
- All bases are required to be completely filled with grout.
- Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

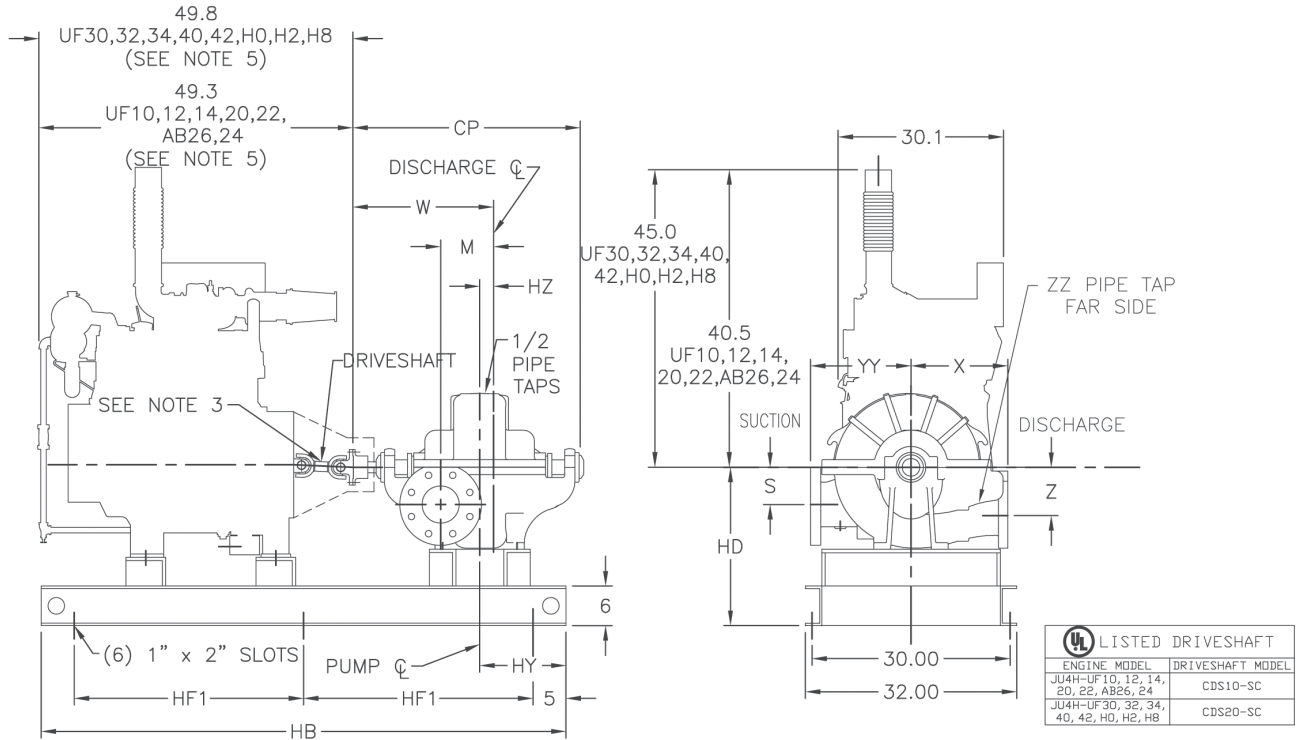
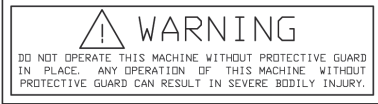
The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.35"± 0.10 inches vertically above the pump shaft and 0.00"± 0.10 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.



AURORA® 485 PUMPS

TWO-STAGE FIRE PUMPS

CLARKE MODELS JU4H-UF10, UF12, UF14, UF20, UF22, UFAB26, UF24, UF30, UF32, UF34, UFH8, UFH0, UFH2, UF40, UF42



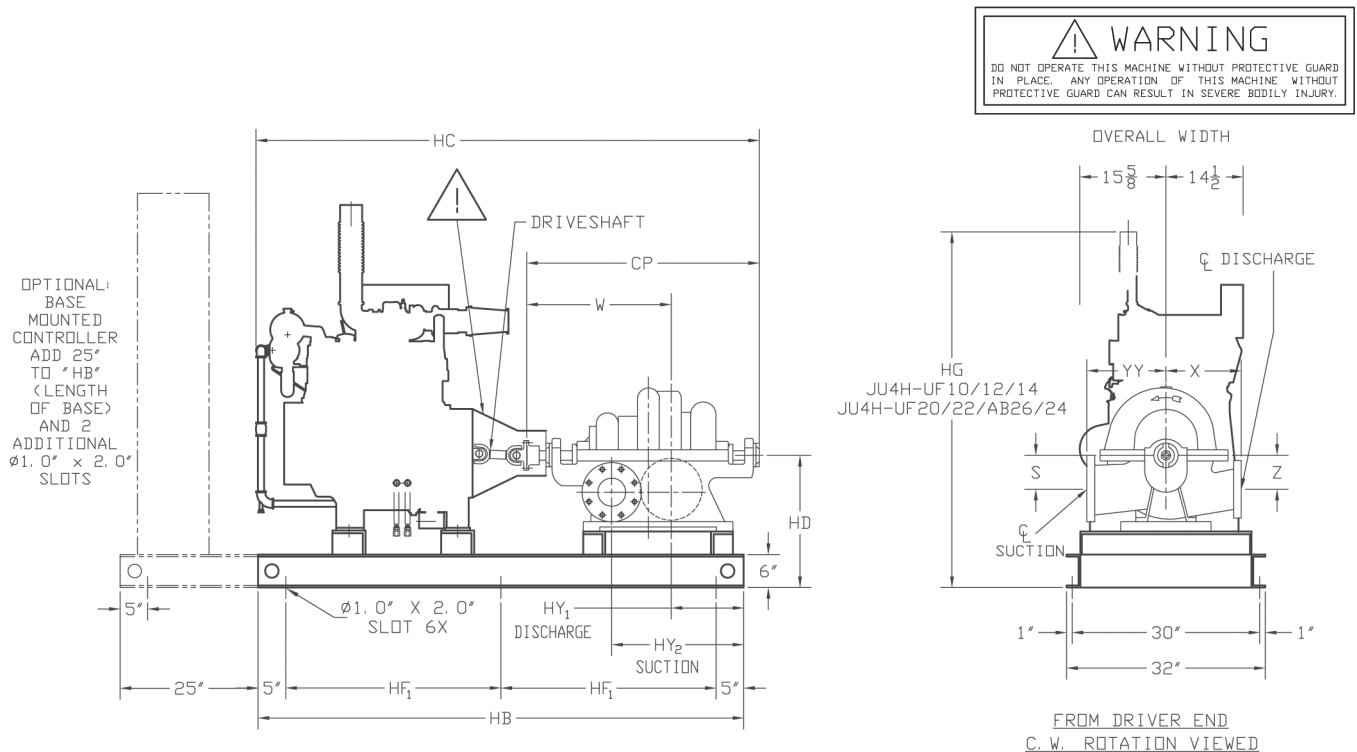
PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	YY	HZ	HB	HD	HF1	HY	ZZ
DISCH	MODEL	CASE BORE															
4	485	15	5	3	7.13	5	18.88	13	6.5	31	13.5	1.88	78	20	34	13	1.25
5	485	12	5	4A	6.63	7	20.88	13	7	35.38	13	1.38	88	20	39	20.5	1.25
5	485	15	6	5	7.13	5.5	21.13	15	7.5	34.5	15.44	2.13	78	20	34	11	1.25
6	485	17A	8	5	11	7	24.5	16	9	38	16.5	3.5	88	22	39	19	1.25

NOTES:

- All dimensions are in inches and may vary $\pm 3/8"$.
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $0.25" \pm 0.08$ inches vertically above the pump shaft and $0.00" \pm 0.08$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions 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 engine overall length.
- Left-hand (counterclockwise) rotation is not available.

AURORA® PUMPS
MULTI-STAGE HSC FIRE PUMPS
CLARKE MODELS JU4H-UF10, UF12, UF14
UF20, UF22, AB26, AB24

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 Date **JULY 2013**



UL LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UF10, 12, 14, 20, 22, AB26, 24	CDS10-SC

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HG	HY	YY
DISCH	MODEL	CASE BORE														
5	495	15	6	-	9	28-3/8	15	9	46-7/8	98	96-1/16	23	44	63-7/8	32-5/8	15
6	495	17	8	-	10-1/2	31-5/8	16-1/2	10-1/2	52-1/2	98	101-11/16	25	44	65-7/8	31-3/8	16-1/2

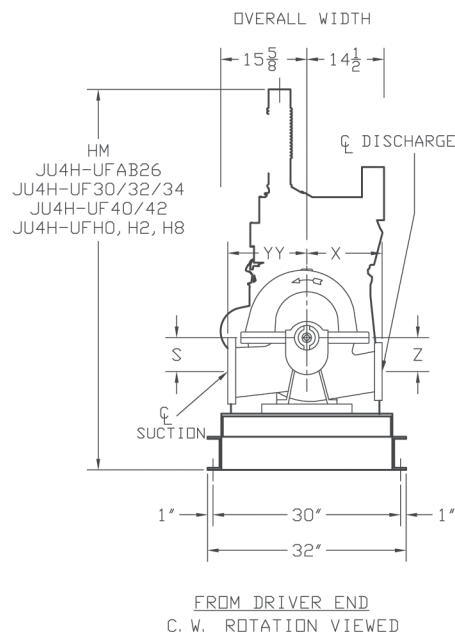
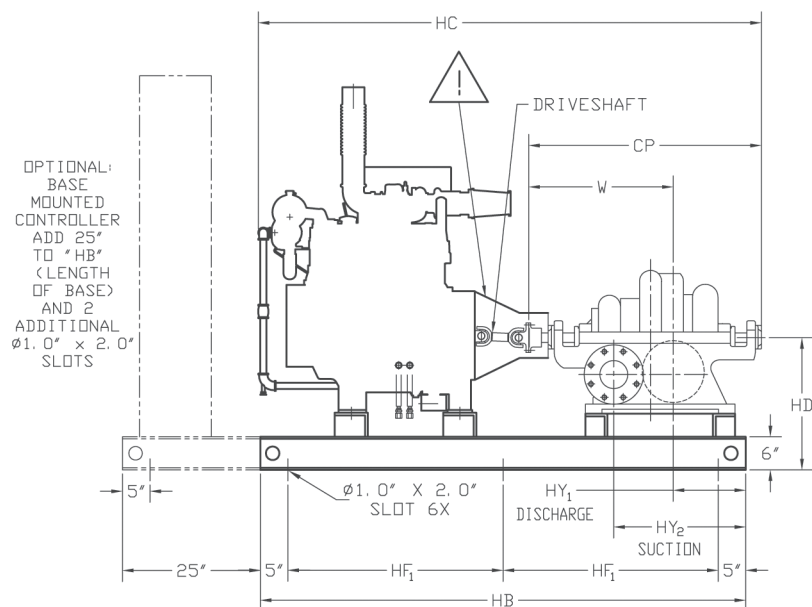
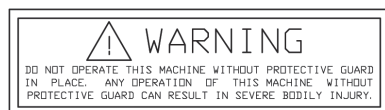
NOTES:

1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application puposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.25"± 0.09 inches vertically above the pump shaft and 0.00"± 0.09 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® PUMPS
MULTI-STAGE HSC FIRE PUMPS
CLARKE MODELS JU4H-UF30, UF32, UF34
UF40, UF42, UFH0, UFH2, UFH8



 LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UF30, 32, 34, 40, 42, H0, H2, H8	CDS20-SC

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
5	495	15	6	-	9	28-3/8	15	9	46-7/8	98	96-3/8	23	44	68-3/8	32-5/8	15
6	495	17	8	-	10-1/2	31-5/8	16-1/2	10-1/2	52-1/2	98	102-3/16	25	44	70-3/8	31-3/8	16-1/2

NOTES:

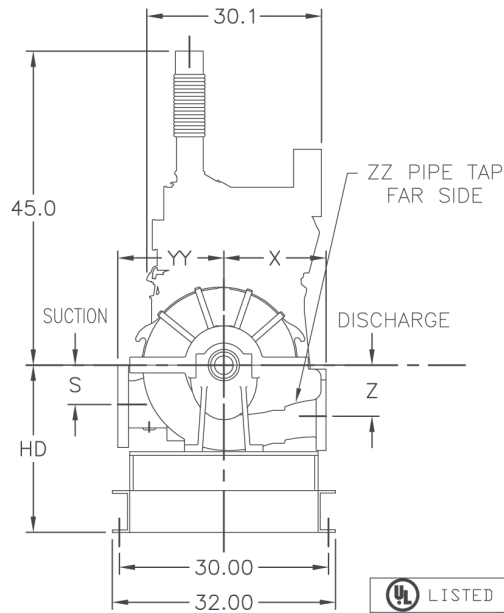
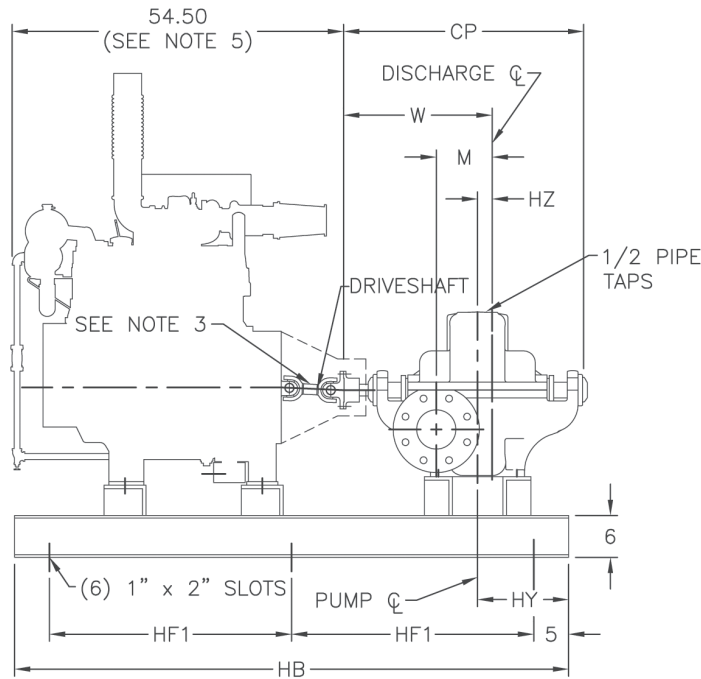
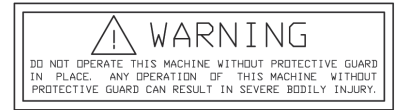
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.25"± 0.08 inches vertically above the pump shaft and 0.00"± 0.08 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® 485 PUMPS
TWO-STAGE FIRE PUMPS
CLARKE MODELS JU4H-UF50, UF52, UF54, UF58

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 Date **JULY 2013**



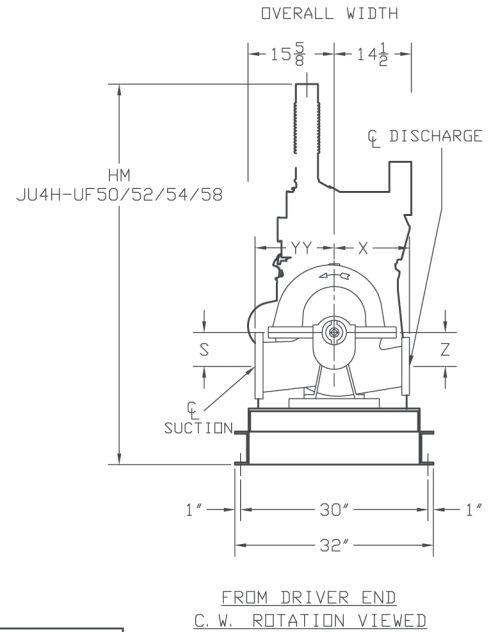
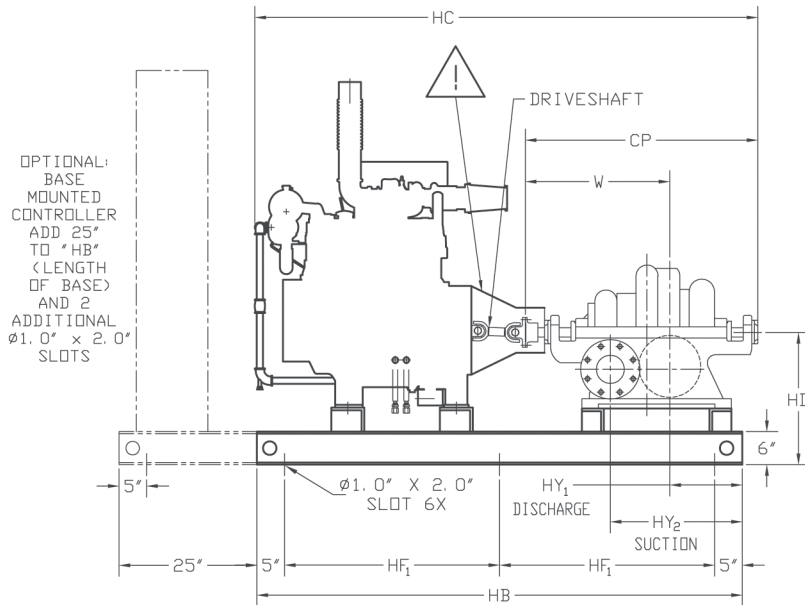
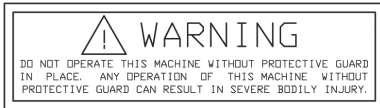
LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UF50, 52, 54, 58	CDS30-S1

PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	YY	HZ	HB	HD	HF1	HY	ZZ
DISCH	MODEL	CASE BORE															
4	485	15	5	3	7.13	5	18.88	13	6.5	31	13.5	1.88	78	20	34	13	1.25
5	485	12	5	4A	6.63	7	20.88	13	7	35.38	13	1.38	88	20	39	20.5	1.25
5	485	15	6	5	7.13	5.5	21.13	15	7.5	34.5	15.44	2.13	78	20	34	11	1.25
6	485	17A	8	5	11	7	24.5	16	9	38	16.5	3.5	88	22	39	19	1.25

NOTES:

1. All dimensions are in inches and may vary $\pm 3/8"$.
2. Not for construction purposes, unless certified.
3. Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $0.35" \pm 0.10$ inches vertically above the pump shaft and $0.00" \pm 0.10$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
4. Pump suction and discharge flanges are ANSI Standard flat face.
5. Refer to individual engine dimension print for reference point used to determine engine overall length.
6. Left-hand (counterclockwise) rotation is not available.

AURORA® PUMPS
MULTI-STAGE HSC FIRE PUMPS
CLARKE MODELS JU4H-UF50, UF52,
UF54, UF58



UL LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UF50, 52, 54, 58	CDS30-S1

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
5	495	15	6	-	9	28-3/8	15	9	46-7/8	98	101-5/16	23	44	68-1/2	32-5/8	15
6	495	17	8	-	10-1/2	31-5/8	16-1/2	10-1/2	52-1/2	98	106-15/16	25	44	70-1/2	31-3/8	16-1/2

NOTES:

1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application puposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

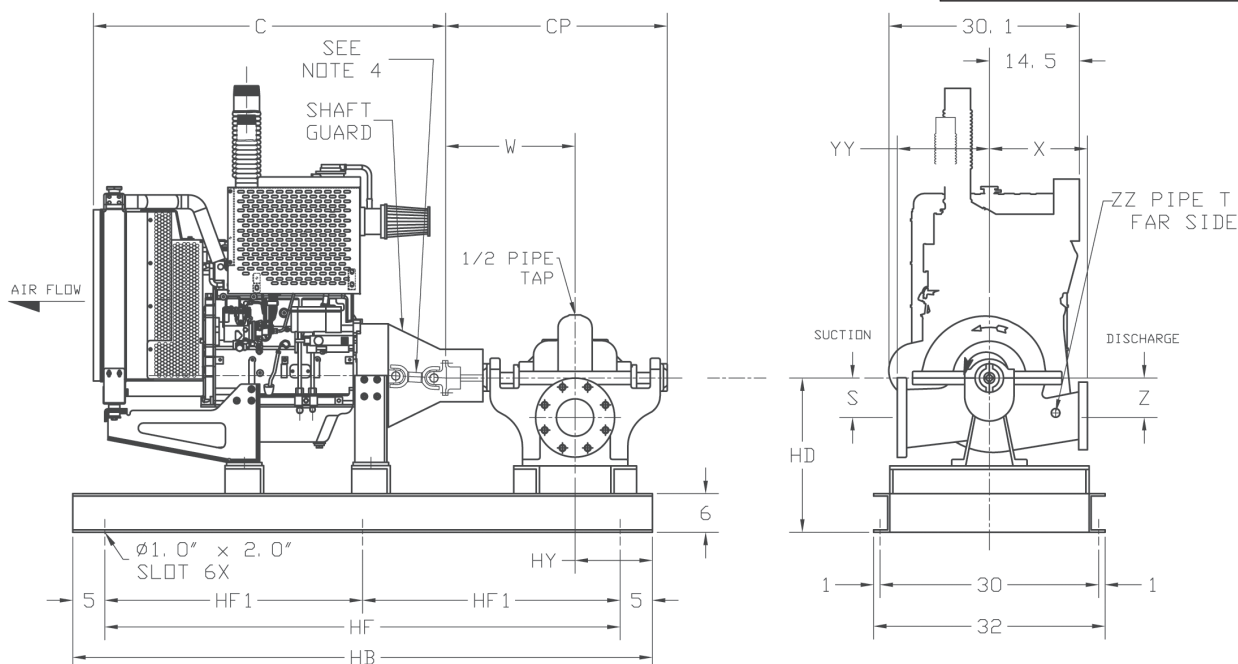
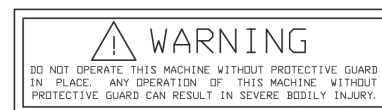
The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.35"± 0.10 inches vertically above the pump shaft and 0.00"± 0.10 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® 481 PUMPS
SINGLE-STAGE FIRE PUMPS
CLARKE MODELS JU4R-UF09, UF11,
UF13, UF19, UF21, UF23

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Date **OCTOBER 2017**

Supersedes **JULY 2013**



ENGINE MODEL	C	UL LISTED DRIVESHAFTS
JU4R-UF09, -UF11, -UF13, -UF19, -UF21, -UF23	54.75	CDS10-SC
JU4R-UF40	55.75	CDS20-SC

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF	HF1	HY
DISCH	MODEL	CASE BORE														
2-1/2	481	10B	3	2	4	13-1/2	9-3/4	4	24	10	1-1/4	88	20	78	39	16-1/2
3	481	10	4	2	4-1/2	13-1/2	10	4-1/2	24	11	1-1/4	88	20	78	39	16-1/2
4	481	11/A/C	5	3	5	14-1/2	11-1/4	5	26	12-3/4	1-1/4	88	20	78	39	15-1/2
4	481	11D	5	3	5	14-1/2	12	5	26	12-3/4	1-1/4	88	20	78	39	15-1/2
4	481	15	5	3	5-1/2	14-1/2	13	5-1/2	26	14	1-1/4	88	20	78	39	15-1/2
5	481	11	6	4	5-1/2	16	11-1/4	5-1/2	28-1/2	13-1/4	1-1/4	88	20	78	39	14
5	481	15/A	6	4	6-1/4	16	13-1/4	6-1/4	28-1/2	15	1-1/4	88	20	78	39	14
5	481	17	6	4	6-1/4	16	14	6-1/4	28-1/2	15	1-1/4	88	20	78	39	14
6	481	11	8	4	6-1/4	16	11-3/4	6-1/4	28-1/2	14-1/2	1-1/4	88	21	78	39	14
6	481	11HH	8	-	8-5/8	18-1/8	10	8-5/8	32-7/8	15	1-1/4	88	23	78	39	11-7/8
6	481	14HH	8	-	7-1/2	20-7/16	15	7-1/2	36-3/4	17	1-1/4	98	23	88	44	19-9/16
6	481	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	88	21	78	39	12
6	481	18	8	5	8	18	16	8	32	18	1-1/4	88	22	78	39	12
6	481	20	8	5	8	18	15-3/4	8	32	18	1-1/4	88	22	78	39	12
8	481	12	10	5	8	18	17	9	32	17-3/4	1-1/4	88	24	78	39	12
8	481	17	10	5	8	18	17	8	32	17-3/4	2	88	24	78	39	12

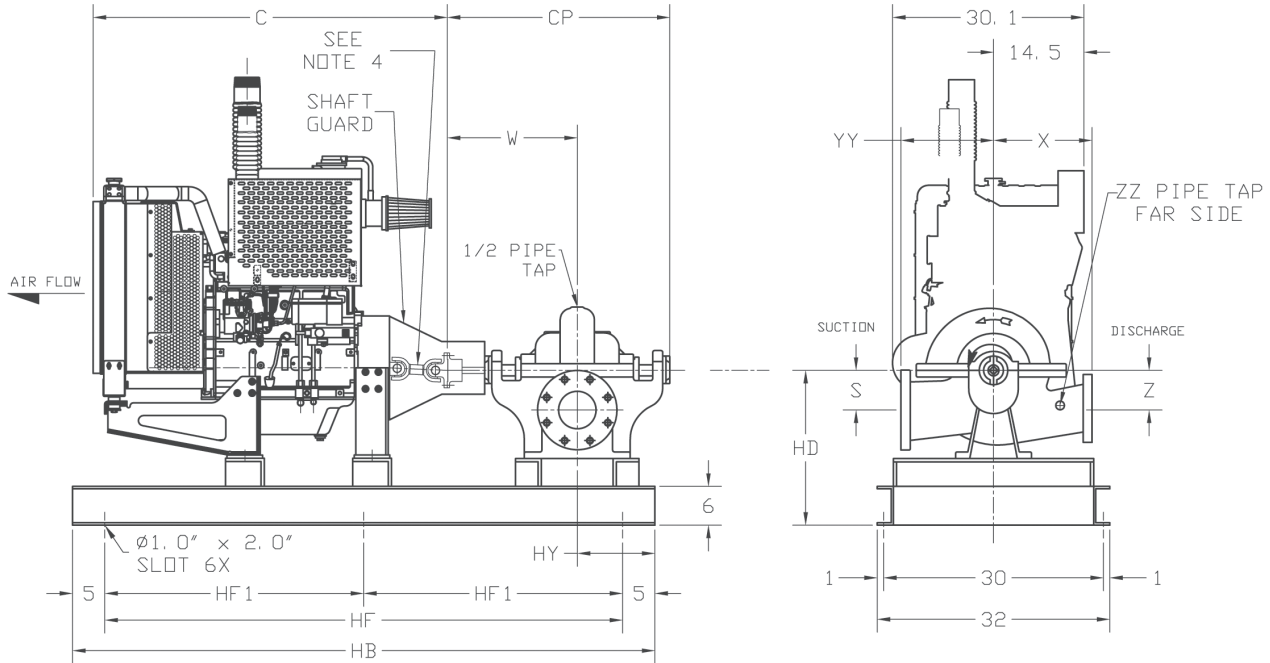
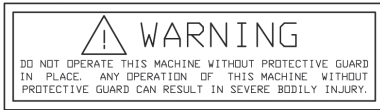
NOTES:

- All dimensions are in inches.
- Dimensions may vary $\pm 3/8"$.
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $0.25" \pm 0.08$ inches vertically above the pump shaft and $0.00" \pm 0.08$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions 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 (counterclockwise) rotation is not available.

AURORA® 481 PUMPS

SINGLE-STAGE FIRE PUMPS

CLARKE MODELS JU4R-UF49, UF51, UF53



ENGINE MODEL	C	UL LISTED DRIVESHAFTS
JU4R-UF49, -UF51, -UF53	60.00	CDS30-S1

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF	HF1	HY
DISCH	MODEL	CASE BORE														
2-1/2	481	10B	3	2	4	13-1/2	9-3/4	4	24	10	1-1/4	88	20	78	39	16-1/2
3	481	10	4	2	4-1/2	13-1/2	10	4-1/2	24	11	1-1/4	88	20	78	39	16-1/2
4	481	11/A/C	5	3	5	14-1/2	11-1/4	5	26	12-3/4	1-1/4	88	20	78	39	15-1/2
4	481	11D	5	3	5	14-1/2	12	5	26	12-3/4	1-1/4	88	20	78	39	15-1/2
4	481	15	5	3	5-1/2	14-1/2	13	5-1/2	26	14	1-1/4	88	20	78	39	15-1/2
5	481	11	6	4	5-1/2	16	11-1/4	5-1/2	28-1/2	13-1/4	1-1/4	88	20	78	39	14
5	481	15/A	6	4	6-1/4	16	13-1/4	6-1/4	28-1/2	15	1-1/4	88	20	78	39	14
5	481	17	6	4	6-1/4	16	14	6-1/4	28-1/2	15	1-1/4	88	20	78	39	14
6	481	11	8	4	6-1/4	16	11-3/4	6-1/4	28-1/2	14-1/2	1-1/4	88	21	78	39	14
6	481	11HH	8	-	8-5/8	18-1/8	10	8-5/8	32-7/8	15	1-1/4	88	23	78	39	11-7/8
6	481	14HH	8	-	7-1/2	20-7/16	15	7-1/2	36-3/4	17	1-1/4	98	23	88	44	19-9/16
6	481	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	88	21	78	39	12
6	481	18	8	5	8	18	16	8	32	18	1-1/4	88	22	78	39	12
6	481	20	8	5	8	18	15-3/4	8	32	18	1-1/4	88	22	78	39	12
8	481	12	10	5	8	18	17	9	32	17-3/4	1-1/4	88	24	78	39	12
8	481	17	10	5	8	18	17	8	32	17-3/4	2	88	24	78	39	12

NOTES:

- All dimensions are in inches and may vary $\pm 3/8$ ".
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $0.35" \pm 0.10$ inches vertically above the pump shaft and $0.00" \pm 0.10$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions 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 (counterclockwise) rotation is not available.

AURORA® 481 PUMPS

SINGLE-STAGE FIRE PUMPS

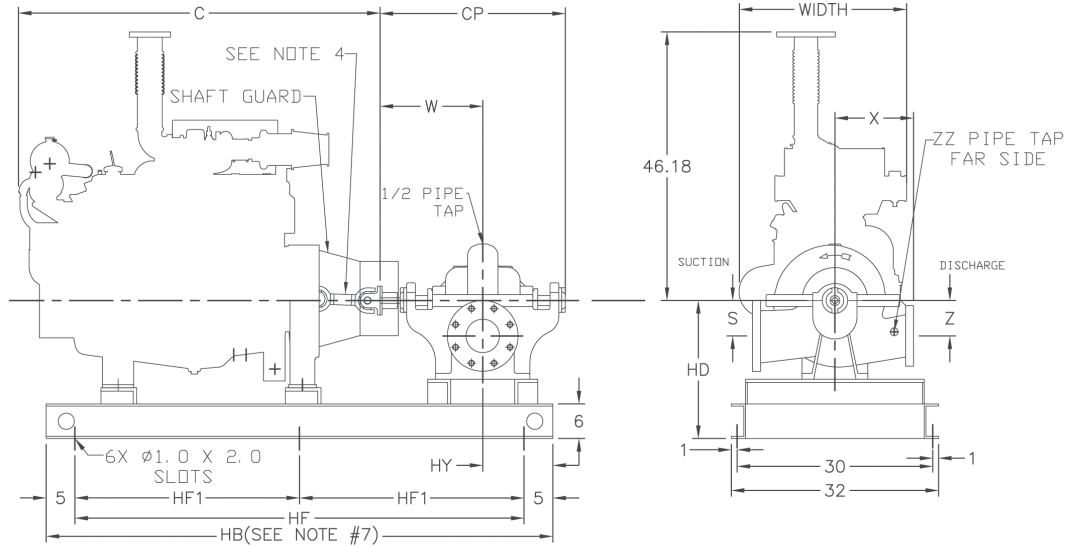
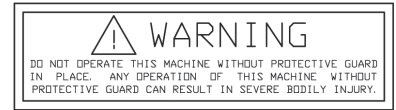
CLARKE DIESEL ENGINE DRIVE

JU6H-UF30, UF32, UF34, UF50, UF52, UF54,
UF60, UF62, UF84, UFD0, UFD2, UFM0, UFM8,
UFAAPG, UFAAQ8, UFAARG, UFAAS0

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Date **OCTOBER 2017**

Supersedes **AUGUST 2015**



ENGINE MODEL	C	WIDTH
JU6H-UF30, UF32, UF34, UF50 JU6H-UF52, UF54, UF58 JU6H-UFD0, UFD2, UFG8 JU6H-UFAAB8, ABL0, ABL2 JU6H-UFM0, UFM2, UFM8	61. 625	29. 64
JU6H-UF60, 62, UFA876, UF68, JU6H-UF84	63. 625	31. 74
JU6H-UFAAPG, UFAAQ8 JU6H-UFAARG, UFAAS0	68. 375	31. 74

UL LISTED DRIVESHAFT		
ENGINE MODEL	DRIVESHAFT MODEL	"B" DRIVESHAFT OFFSET
JU6H-UFD0, D2, 30, 32, 34	CDS20-S1	0. 35"
JU6H-UF68, ABL8, ABL0, ABL2, M0, M2, 58, 50, 52, 54, 60, 62, A876, 68, 84	CDS30-S1	0. 35"
JU6H-UFAAPG, AAG8, AARG, AAS0	CDS50-SC	0. 45"

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF	HF1	HY
DISCH	MODEL	CASE BORE														
4	481	11/A/C	5	3	5	14-1/2	11-1/4	5	26	12-3/4	1-1/4	88	20	78	39	15-1/2
4	481	11D	5	3	5	14-1/2	12	5	26	12-3/4	1-1/4	88	20	78	39	15-1/2
4	481	15	5	3	5-1/2	14-1/2	13	5-1/2	26	14	1-1/4	88	20	78	39	15-1/2
5	481	15/A	6	4	6-1/4	16	13-1/4	6-1/4	28-1/2	15	1-1/4	88	20	78	39	14
5	481	17	6	4	6-1/4	16	14	6-1/4	28-1/2	15	1-1/4	88	20	78	39	14
6	481	11HH	8	-	8-5/8	18-1/8	10	8-5/8	32-7/8	15	1-1/4	88	23	78	39	11-7/8
6	481	14HH	8	-	7-1/2	20-7/16	15	7-1/2	36-3/4	17	1-1/4	98	23	88	44	19-9/16
6	481	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	88	21	78	39	12
6	481	18	8	5	8	18	16	8	32	18	1-1/4	88	22	78	39	12
6	481	20	8	5	8	18	15-3/4	8	32	18	1-1/4	88	22	78	39	12
8	481	17B	10	5	8	18	17	8	32	17-3/4	2	88	24	78	39	12
8	481	21	10	7A	12-1/4	24-1/4	20	12-1/4	43	24	2	98	31	88	44	15-11/16
10	481	18	12	6B	13-1/2	21-7/8	18	13-1/2	38	22	2	98	32	88	44	18-1/8
10	481	18D	12	7A	12-1/4	24-5/16	20	12-1/4	24-5/16	24	2	98	31	88	44	15-11/16

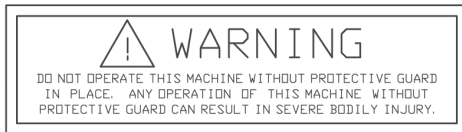
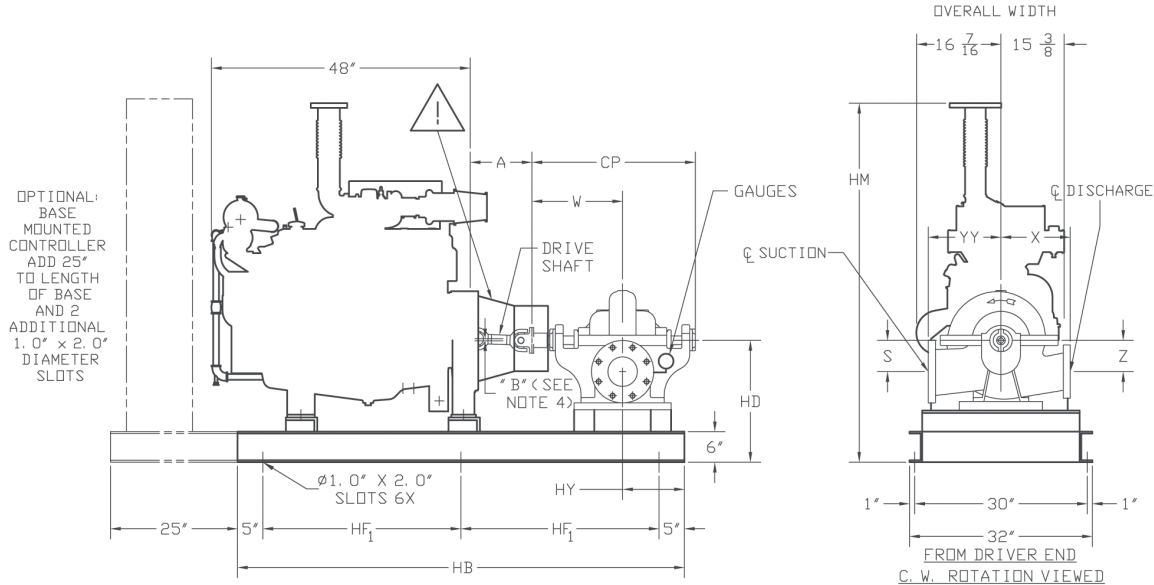
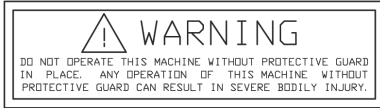
NOTES:

- All dimensions are in inches and may vary $\pm 3/8$ ".
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.10 inches vertically above the pump shaft and 0.00 ± 0.10 inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions 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 engine overall length.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional $\phi 1.00 \times 2.00$ slots.

AURORA® PUMPS

SINGLE-STAGE HSC FIRE PUMPS

JU6H-UF30, UF32, UF34, UFABL8, UFABL0
UFABL2, AB76, UF50, UF52, UF54
UF58, UFD0, UFD2, UFG8, UFM0, UFM2,
UFM8, UF60, AAQ8, AARG, UF62, UF68, UF84



LISTED DRIVESHAFT			
ENGINE MODEL	DRIVESHAFT MODEL	A	B
JU6H-UFD0, D2, 30, 32, 34	CDS20-S1	15-5/8	0.35
JU6H-UFG8, ABL8, ABLO, ABL2, MD, M2, 58, 50, 52, 54, 60, 62, AB76, 68, 84	CDS30-S1	15-5/8	0.35
JU6H-UFAAPG, AAQ8, AARG, AAS0	CDS50-SC	20-3/8	0.45

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE													
4	491	14	6	-	6-7/8	17-5/8	13	8-3/8	31-11/16	98	20	44	65-3/4	22-3/8	15-1/4
4	492	18	5	-	9-1/2	18-3/8	14	9-1/2	33-1/4	98	22	44	67-3/4	21-5/8	14
5	491	14	8	-	8-1/4	17-5/8	13-1/2	9-3/4	31-11/16	98	23	44	68-3/4	22-3/8	17-1/4
5	491	18	8	-	8-1/8	18-7/8	15	10-5/8	33-3/8	98	23	44	68-3/4	21-1/8	18-3/4
6	491	14	10	-	9-3/8	20-1/8	13-1/4	10	35-7/8	98	25	44	70-3/4	19-7/8	18
6	491	18	10	-	9-3/8	20-1/8	16	11-3/4	35-7/8	98	25	44	70-3/4	19-7/8	20
6	491	18	10	-	9-3/8	22-5/8	18	12-1/8	39-1/4	98	26	44	71-3/4	17-3/8	22
6	491	12	10	-	6-7/8	16-5/8	20-1/2	7-1/8	29-11/16	88	23	39	68-3/4	13-3/8	14
6	492	15	8	-	8-3/4	22-1/2	15-1/2	8-3/4	40-1/4	98	23	44	68-3/4	17-1/2	15
6	492	18	8	-	9-5/8	22-1/2	16	9-5/8	40-1/8	98	24	44	69-3/4	17-1/2	16
6	492	10	10	-	9	20-5/8	13	7-1/2	36-3/4	98	25	44	70-3/4	19-3/8	15
8	491	14	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	98	28	44	73-3/4	19-1/2	22
8	491	18	12	-	10-3/4	23-3/4	16	12-1/2	41-1/2	98	28	44	73-3/4	16-1/4	22
8	481	24	12	7	13-1/2	28-5/8	20	15	51-1/2	108	31	49	76-3/4	21-3/8	25

NOTES:

1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.10 inches vertically above the pump shaft and 0.00" ± 0.10 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® 485 PUMPS

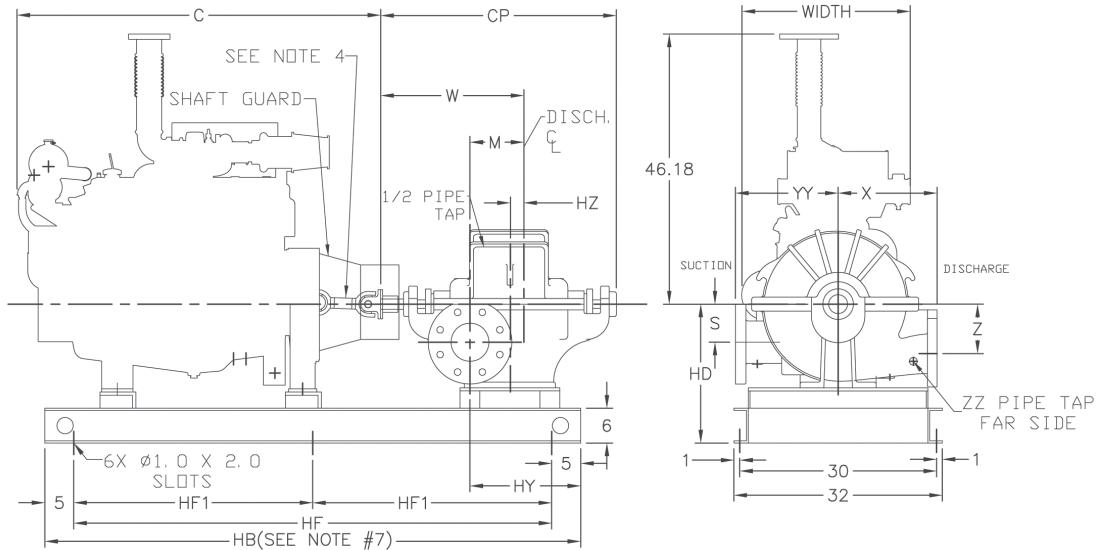
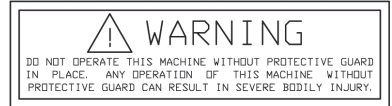
MULTI-STAGE FIRE PUMPS

CLARKE DIESEL ENGINE DRIVE

JU6H-UF30, UF32, UF34, UF50, UF52, UF54, UF58, UFDO, UFD2, UFG8,
UFABL8, ABL0, ABL2, UFM0, UFM2, UFM8, JU6H-UF60, 62, UFAB76,
UF68, UF84, JU6H-UFAAPG, UFAAQ8, UFAARG, UFAASO

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Date **JULY 2013**



ENGINE MODEL	C	WIDTH
JU6H-UF30, UF32, UF34, UF50 JU6H-UF52, UF54, UF58 JU6H-UFDO, UFD2, UFG8 JU6H-UFABL8, ABL0, ABL2 JU6H-UFM0, UFM2, UFM8	61.625	29.64
JU6H-UF60, 62, UFAB76, UF68, JU6H-UF84	63.625	31.74
JU6H-UFAAPG, UFAAQ8 JU6H-UFAARG, UFAASO	68.375	31.74

ENGINE MODEL	DRIVESHAFT MODEL	"B" DRIVESHAFT OFFSET
JU6H-UFDO, D2, 30, 32, 34	CDS20-S1	0.35"
JU6H-UFG8, ABL8, ABL0, ABL2, M0, M2, 58, 50, 52, 54, 60, 62, AB76, 68, 84	CDS30-S1	0.35"
JU6H-UFAAPG, AAQ8, AARG, AASO	CDS50-SC	.45"

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
4	485	15	5	3	5	18-7/8	13	6-1/2	31	13-1/2	1-1/4	88	20	39	13
5	485	12	5	4A	7	20-7/8	13	7	35-3/8	13	1-1/4	98	20	44	20-1/2
5	485	15	6	4	5-1/2	21-1/8	15	7-1/2	34-1/2	15-7/16	1-1/4	88	20	39	11
6	485	12	6	5A	8	22-7/8	14	8	38-1/2	14	1-1/4	98	22	44	18-3/4
6	485	16	8	5	8-1/4	23-5/8	19	7-3/4	37-7/8	17	1-1/4	98	23	44	26-7/8
6	485	17	8	5	7	24-1/2	16	9	38	16-1/2	1-1/4	98	22	44	19

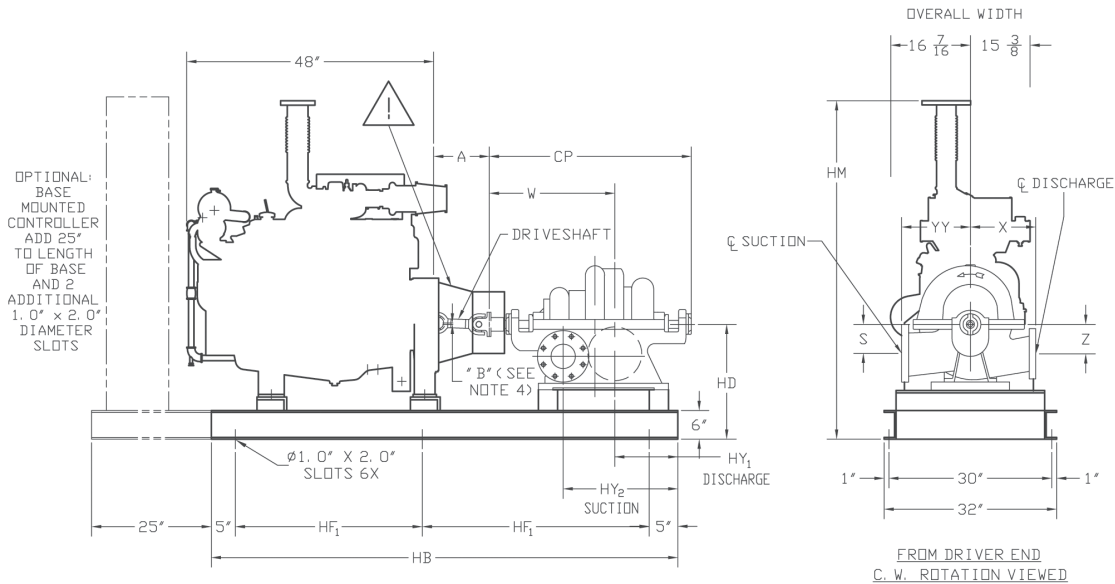
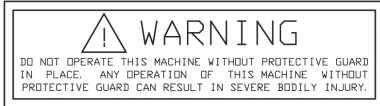
NOTES:

- All dimensions are in inches and may vary $\pm 3/8"$.
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.10 inches vertically above the pump shaft and $0.00" \pm 0.10$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions 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 engine overall length.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional $\phi 1.00 \times 2.00$ slots.

AURORA® PUMPS

MULTI-STAGE HSC FIRE PUMPS

JU6H-UF30, UF32, UF34, ABL8, ABL0
ABL2, AB76, UF50, UF52, UF54, UF58, UFD0,
UFD2, UFG8, UFM0, UFM2, UFM8, UF60,
AAPG, AAS0, AAQ8, AARG, UF62, UF68, UF84



UL LISTED DRIVESHAFT			
ENGINE MODEL	DRIVESHAFT MODEL	A	B
JU6H-UFD0, D2, 30, 32, 34	CDS20-S1	15-5/8	0.35
JU6H-UFG8, ABL8, ABL0, ABL2, MD, M2, 38, 50, 52, 54, 60, 62, AB76, 68, 84	CDS30-S1	15-5/8	0.35
JU6H-UFAAPG, AAQ8, AARG, AAS0	CDS50-SC	20-3/8	0.45

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF1	HM	YY	HY1	HY2
DISCH	MODEL	CASE BORE														
5	495	15	6	-	9	28-3/8	15	9	46-7/8	108	23	49	68-3/4	15	21-5/8	32-5/8
6	495	17	8	-	10-1/2	31-5/8	16-1/2	10-1/2	52-1/2	108	25	49	70-3/4	16-1/2	18-3/8	31-3/8

NOTES:

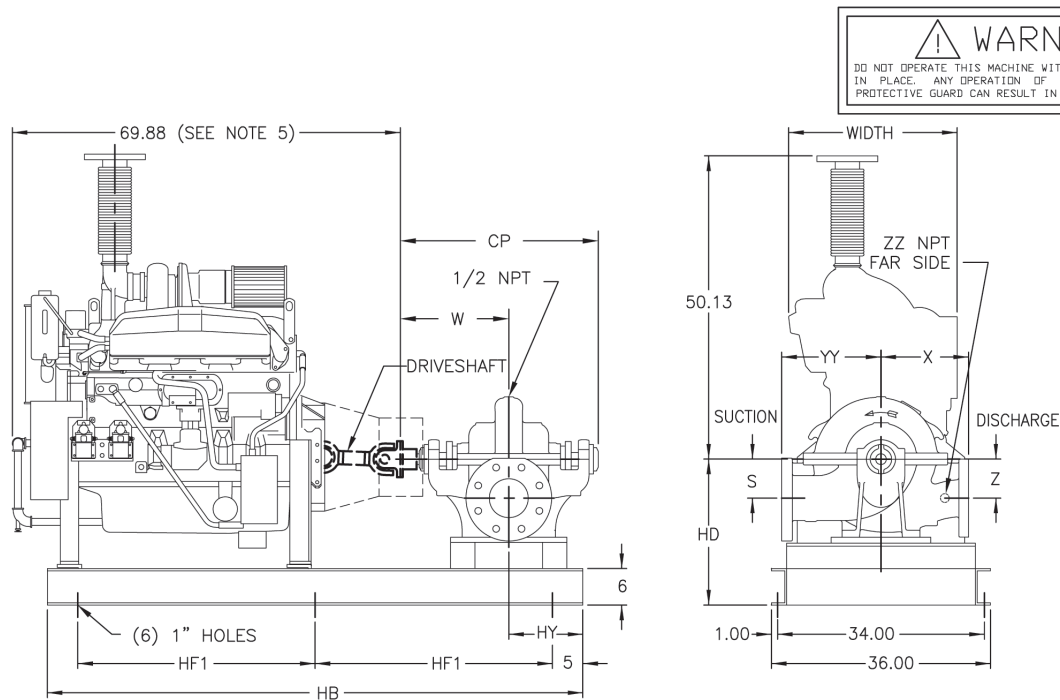
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table Z-19.
2. Not for construction, installation or application puposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.10 inches vertically above the pump shaft and 0.00"± 0.10 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® 481 PUMPS
SINGLE-STAGE FIRE PUMPS
CLARKE ENGINE JW6H-UF30, UF40, UF48,
UF50, UFH8, UF58 AND UF60 DIESEL DRIVE

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 Date **JULY 2013**



UL LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
1470 THRU 2100 RPM ONLY	CDS50-SC

NON-LISTED DRIVESHAFT	
ENGINE MODEL	WIDTH
JW6H-UF30	29.5
ALL EXCEPT JW6H-UF30 & -UF38	28.6

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	16	14	6.25	28.5	15	1.25	98	24	44	14
6	481	15	8	5	6.75	18	14.25	6.75	32	16.75	1.25	98	24	44	12
6	481	18	8	5	8	18	16	8	32	18	1.25	98	24	44	12
6	481	20	8	5	8	18	15.75	8	32	18	1.25	98	24	44	12
8	481	17	10	5	8	18	17	8	32	17.75	2	98	24	44	12
8	481	21	10	6B	9.5	21.88	18	9.5	38	21	2	108	25	49	18.13
8	481	24	12	7	15	25.25	20	15	43.88	25	1.25	118	32	54	24.75
10	481	15	12	6B	13.5	21.88	17	13.5	38	20	1.25	108	31	49	18.13
10	481	18	12	6B	13.5	21.88	18	13.5	38	22	2	108	31	49	18.13
10	481	18D	12	7A	12.25	24.31	20	12.25	42.93	24	2	108	31	49	15.69

NOTES:

- All dimensions are in inches and may vary $\pm .38$.
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.45 ± 0.11 inches vertically above the pump shaft and 0.00 ± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions 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 engine overall length.
- Left-hand (counterclockwise) rotation is not available.

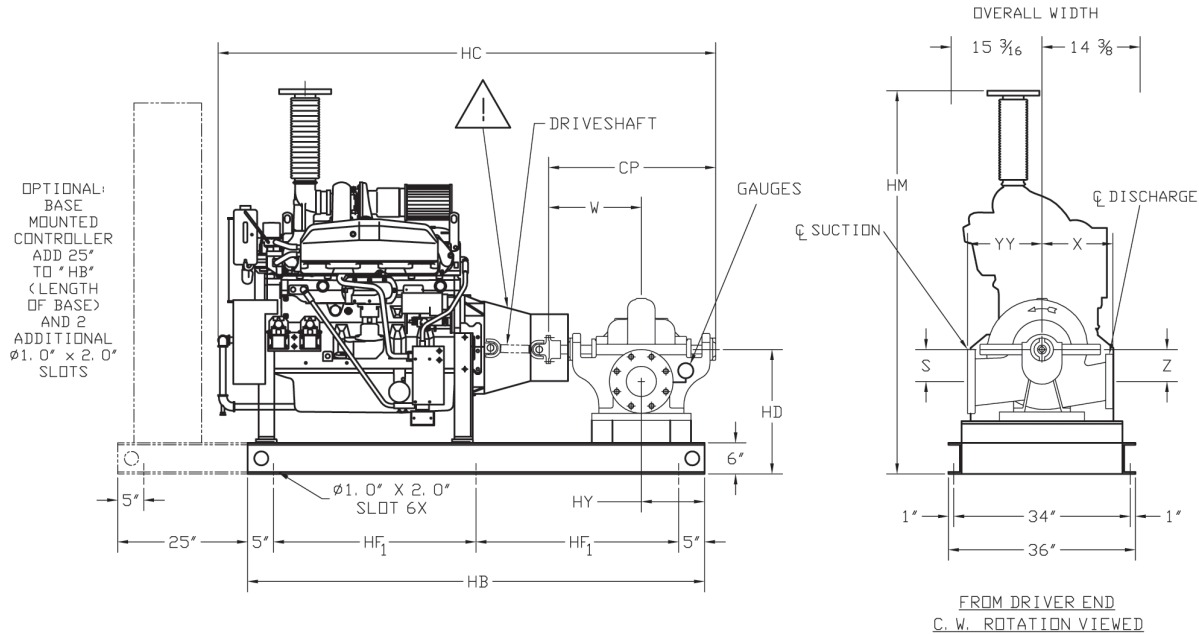
AURORA® PUMPS

SINGLE-STAGE HSC FIRE PUMPS

CLARKE ENGINE JW6H-UF30, UF40, UF48, UF50, UFH8, UF58, UF60

⚠ WARNING

DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.



UL LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
1760 & 2100 RPM	CDS50-SC

NON-LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
ALL JW6H MODELS	SC81A

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
5	491	18	8	-	8-1/8	18-7/8	15	10-5/8	33-3/8	98	103-1/4	24	44	74-1/4	11-1/8	18-3/4
6	491	14	10	-	9-3/8	20-1/8	13 1/4	10	35-7/8	108	105-3/4	25	49	76-1/4	19-7/8	18
6	491	18	10	-	9-3/8	20-1/8	16	11-3/4	35-7/8	108	105-3/4	26	49	76-1/4	19-7/8	20
6	491	19	10	-	9-3/8	22-5/8	18	12-1/8	39-1/4	108	109-1/8	25	49	75-1/4	17-3/8	22
6	492	18	8	-	9-5/8	22-1/2	16	9-5/8	40-1/8	108	110	24	49	74-1/4	17-1/2	16
8	491	14	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	108	106-1/2	28	49	78-1/4	19-1/2	22
8	491	18	12	-	10-3/4	23-3/4	16	12-1/2	41-1/2	108	111-3/8	28	49	78-1/4	16-1/4	22
8	481	24	12	7	13-1/2	28-5/8	20	15	51-1/2	118	121-3/8	31	54	81-1/4	21-3/8	25
10	491	20	16	-	13	25-9/16	23	14-1/4	49-9/16	118	119-1/2	32	54	82-1/4	24-7/16	25
10	492	18	12	-	11-1/2	25-9/16	21	11-1/2	14-13/16	108	115-11/16	29	49	79-1/4	14-7/16	21

NOTES:

1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.45" ± 0.11 inches vertically above the pump shaft and 0.00" ± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

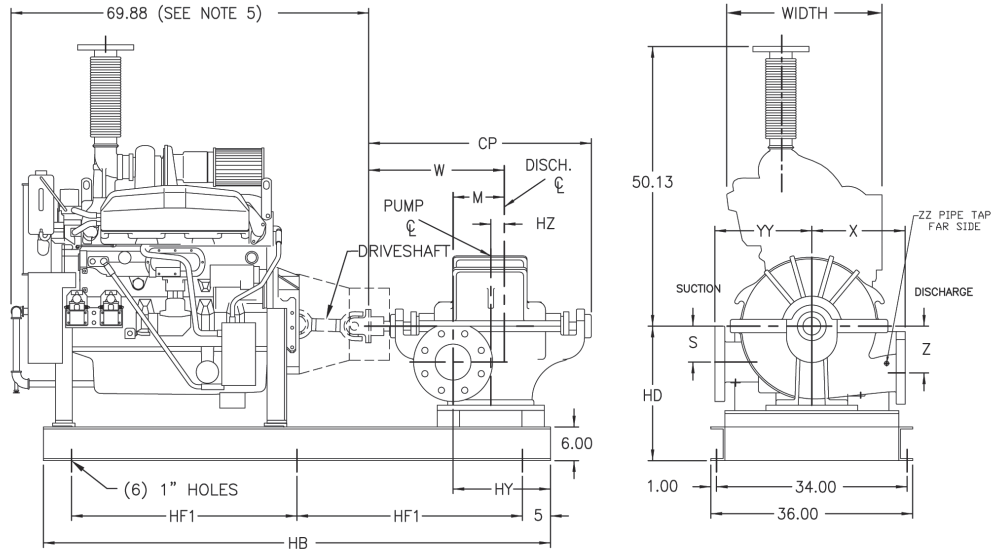
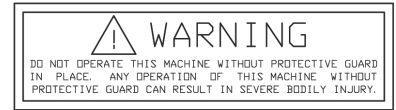
AURORA® 485 PUMPS

TWO-STAGE FIRE PUMPS

CLARKE ENGINE JW6H-UF30, UF40, UF48,
UF50, UFH8, UF58 AND UF60 DIESEL DRIVE

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Date **JULY 2013**



UL LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
1470 THRU 2100 RPM ONLY	CDS50-SC

NON-LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
2350 RPM ONLY	SC81A

ENGINE MODEL	WIDTH
JW6H-UF30	29.5
ALL EXCEPT JW6H-UF30 & -UF38	28.6

PUMP SIZE			SUCTION	M	S	W	X	Z	CP	HZ	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE														
4	485	15	5	7.13	5	18.88	13	6.5	31	1.88	13.5	1.25	98	24	44	18.25
5	485	15	6	9.13	5.5	21.13	15	7.5	34.5	2.13	15.44	1.25	98	24	44	18
6	485	16	8	10.5	8.25	23.63	19	7.75	37.88	2.63	17	1.25	108	24	49	26.88
6	485	17	8	11	7	24.5	16	9	38	3.5	16.5	1.25	108	24	49	16.5

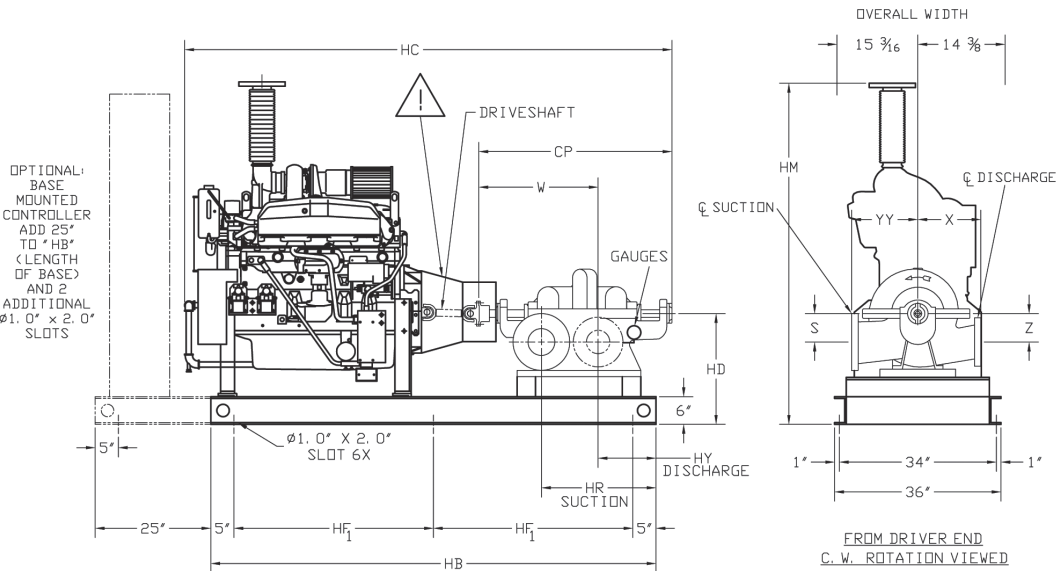
NOTES:

- All dimensions are in inches and may vary $\pm .38$.
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.45 ± 0.11 inches vertically above the pump shaft and 0.00 ± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions 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 engine overall length.
- Left-hand (counterclockwise) rotation is not available.

AURORA® PUMPS
MULTI-STAGE HSC FIRE PUMPS
CLARKE ENGINE JW6H-UF30, UF40, UF48,
UF50, UFH8, UF58, UF60

WARNING

DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.



LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
1760 & 2100 RPM	CDS50-SC

NON-LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
ALL JW6H MODELS	SC81A

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HM	HY	HR	YY
DISCH	MODEL	CASE BORE															
6	495	17	8	-	10-1/2	31-5/8	16-1/2	10-1/2	52-1/2	118	122-3/8	25	54	74-1/4	18-3/8	31-3/8	16-1/2

- NOTES:
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.

2. Not for construction, installation or application puposes unless certified. Dimensions shown are typical and may vary due to various tolerances.

3. All bases are required to be completely filled with grout.

4. Unit installation and final driveshaft alignment must be done by the installing contractor.

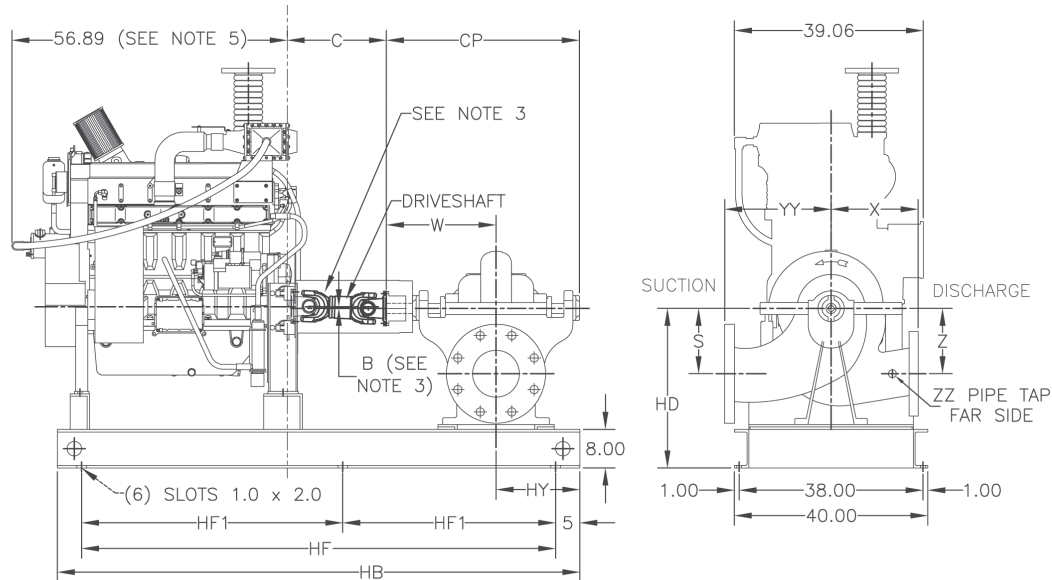
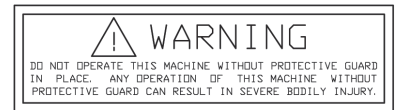
CAUTION: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.45 ± 0.11 inches vertically above the pump shaft and 0.00" ± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.
- PENTAIR

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AURORA® 481 PUMPS
SINGLE-STAGE FIRE PUMPS
CLARKE MODELS JX6H-UF40, UF50, UF60
AND UF70 DIESEL ENGINES

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 Date **JULY 2013**



UL LISTED DRIVESHAFTS			
ENGINE MODEL	DRIVESHAFT MODEL*	C	B
N/A	N/A		
There are no listed driveshafts available for these engines.			

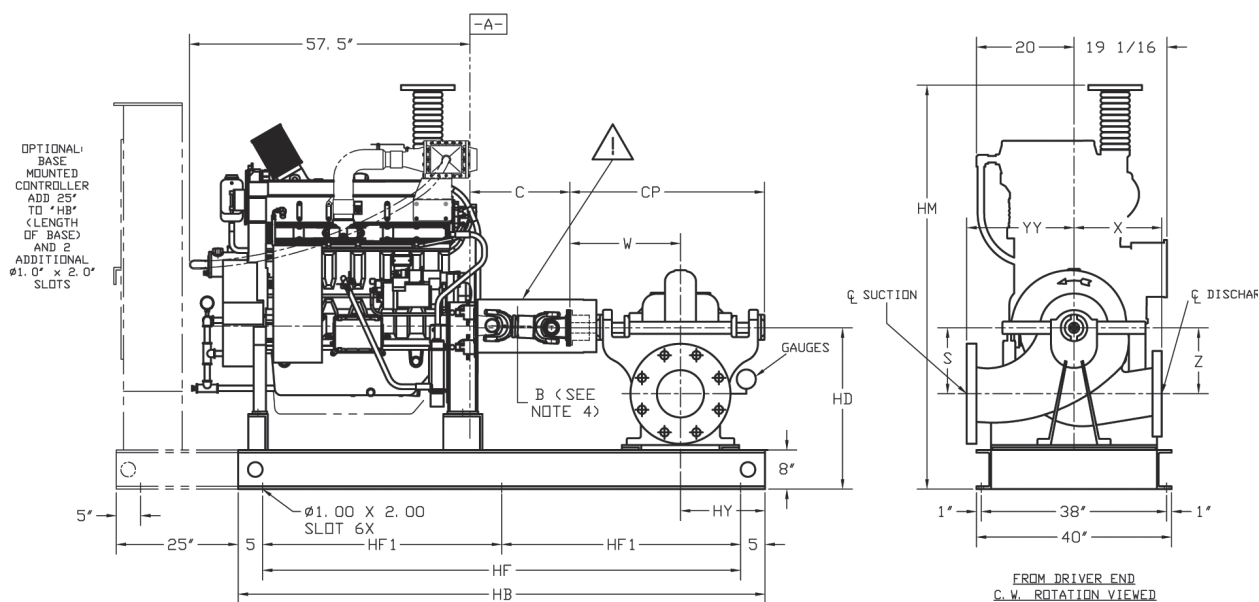
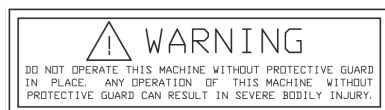
NON-LISTED DRIVESHAFTS			
ENGINE MODEL	DRIVESHAFT MODEL*	C	B
JX6H-UF 40	SC2140	17.00	0.35
JX6H-UF 50, 60, 70	SC2160A	20.50	0.35

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF	HF1	HY
DISCH	MODEL	CASE BORE														
6	481	18	8	5	8	18	16	8	32	18	1.25	98	26	88	44	12
8	481	17	10	5	8	18	17	8	32	17.75	2	98	26	88	44	12
8	481	21	10	6B	9.5	21.88	18	9.5	38	21	2	108	27	98	49	18.13
8	481	24	12	7	15	25.25	20	15	43.88	25	1.25	118	34	108	54	24.75
10	481	18	12	6B	13.5	21.88	18	13.5	38	22	2	108	33	98	49	18.13
10	481	18D	12	7A	12.25	24.25	20	12.25	43	24	2	108	33	98	49	15.75
12	481	18	14	7	15	25.25	18	15	43.88	23	2	118	35	108	54	24.75

NOTES:

- All dimensions are in inches and may vary $\pm .38$.
- Not for construction purposes, unless certified.
- Cauton: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.12 inches vertically above the pump shaft and 0.00" ± 0.12 inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions 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 engine overall length.
- Left-hand (counterclockwise) rotation is not available.

AURORA® PUMPS
SINGLE-STAGE FIRE PUMPS
CLARKE MODELS JX6H-UF40, UF50, UF60
AND UF70 DIESEL ENGINES



 LISTED DRIVESHAFTS			
ENGINE MODEL	DRIVESHAFT MODEL*	C	B
N/A	N/A		
*There are no listed driveshafts for these engines.			

NON-LISTED DRIVESHAFTS			
ENGINE MODEL	DRIVESHAFT MODEL*	C	B
JX6H-UF40	SC2140	17.00	0.35
JX6H-UF50, 60, 70	SC2160A	20.50	0.45

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
6	491	18	10	-	9-3/8	20-1/8	16	11-3/4	35-7/8	108	28	98	49	77-5/8	19-7/8	20
6	491	19	10	-	9-3/8	22-5/8	18	12-1/8	39-1/4	108	28	98	49	77-5/8	17-3/8	22
8	491	18	12	-	10-3/4	23-3/4	16	12-1/2	41-1/2	108	30	98	49	79-5/8	16-1/4	22
8	481	24	12	7	13-1/2	28-5/8	20	15	51-1/2	118	33	108	54	82-5/8	21-3/8	25
10	491	20	16	-	13	25-9/16	23	14-1/4	49-9/16	118	35	108	54	84-5/8	24-7/16	25
10	492	18	12	-	11-1/2	25-9/16	21	11-1/2	45-13/16	118	31	108	54	80-5/8	24-7/16	21

NOTES:

1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 5.25.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

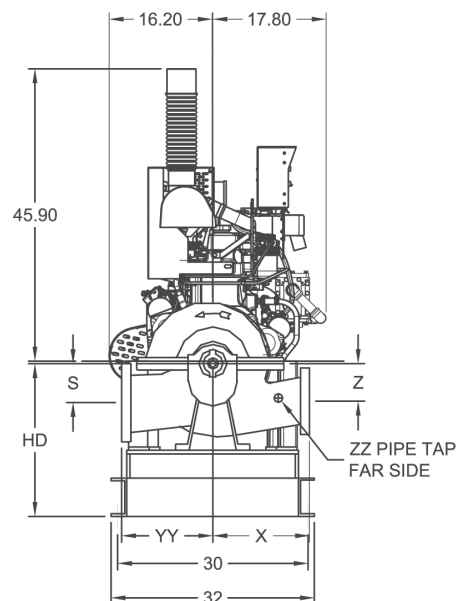
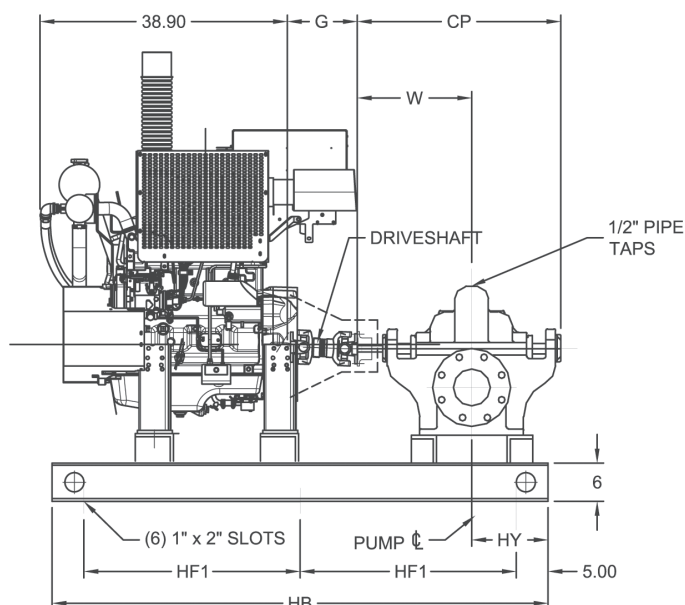
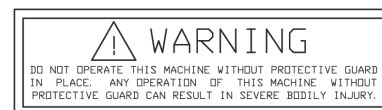
The driveshaft is designed to operate at a 0° angle. The engine crankshaft is to be set with a parallel offset of "B" ± 0.12 inches above the pump shaft. The engine crankshaft may be parallel offset from the pump shaft 0.45" left or right. Refer to the engine manual for alignment instructions.

AURORA® 481 PUMPS
SINGLE-STAGE FIRE PUMPS
CLARKE MODELS JU4H-UFAEAO,
AEE8, AEF2, ADJ8, ADJ2
EPA NSPS TIER 3 AND TIER IT4* CERTIFIED

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Date **OCTOBER 2017**

Supersedes **JULY 2013**



UL LISTED DRIVESHAFT		
ENGINE MODEL	DRIVESHAFT MODEL	G
JU4H-UFAEAO*	CDS10-SC	10.50
JU4H-UFAEE8*, AEF2*, ADJ8, ADJ2	CDS20-SC	11.00

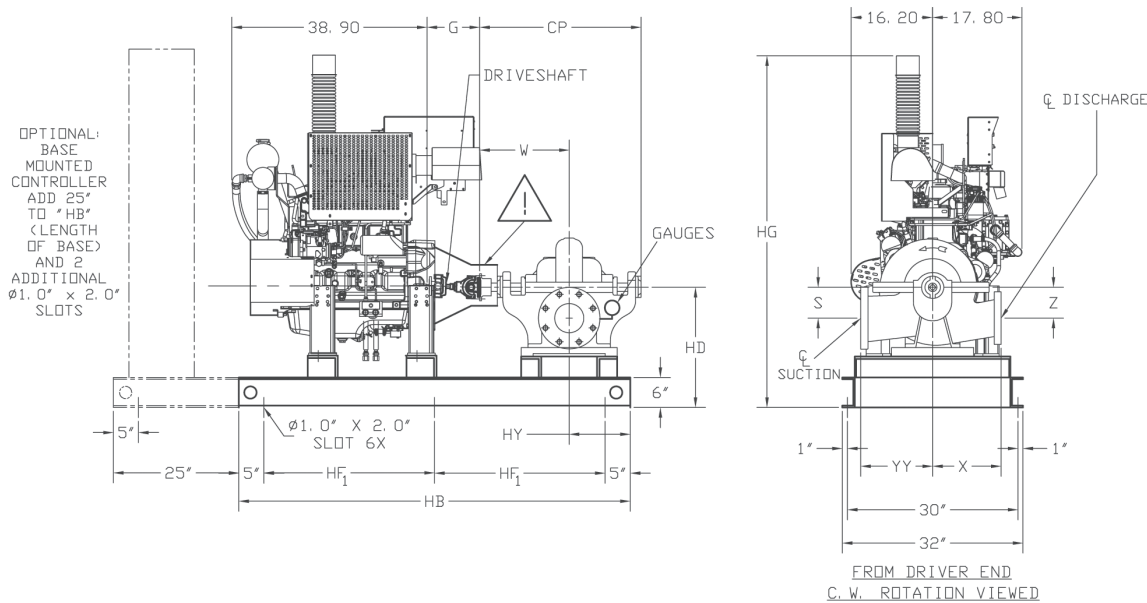
PUMP SIZE			ENGINE MODEL JU4H-UF	SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE														
4	481	11/A/C	AEA0	5	3	5	14.5	11.25	5	26	12.75	1.25	78	20	34	15.5
4	481	11D	AEA0	5	3	5	14.5	12	5	26	12.75	1.25	78	20	34	15.5
4	481	15	ADJ8, AEE8	5	3	5.5	14.5	13	5.5	26	14	1.25	78	20	34	15.5
5	481	15/A	ADJE8, AEA0, AEE8	6	4	6.25	16	13.25	6.25	28.5	15	1.25	78	20	34	14
5	481	17	ADJ8	6	4	6-1/4	16	14	6-1/4	28-1/2	15	1 1/4	78	20	34	14
6	481	11	AEA0	8	4	6.25	16	11.75	6.25	28.5	14.5	1.25	78	21	34	14
6	481	15	ADJ8, AEE8	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
6	481	11HH	ADJ2	8	4A	8-5/8	18-1/8	10	8-5/8	32-7/8	15	1-1/4	78	23	34	11-7/8
6	481	14HH	ADJ2	8	5A	7-1/2	20-7/16	15	7-1/2	36-3/4	17	1-1/4	88	23	39	19-9/16
6	481	15	ADJ8, AEE8	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
8	481	12	AEE8	10	5	8	18	17	9	32	17-3/4	1-1/4	78	24	34	12
8	481	24	ADJ2	12	7	15	25-1/4	20	15	43-7/8	25	1-1/4	88	32	39	14-3/4

NOTES:

- All dimensions are in inches and may vary $\pm .38$.
- Not for construction purposes, unless certified.
- Cauton: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.25 ± 0.08 inches vertically above the pump shaft and 0.00 ± 0.08 inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions 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 engine overall length.
- Left-hand (counterclockwise) rotation is not available.

AURORA® PUMPS
SINGLE-STAGE HSC FIRE PUMPS
CLARKE MODELS JU4HADJ8, AEE8, AEA0,
ADJ2, AND AEF2
EPA NSPS TIER 3 AND i4* CERTIFIED

WARNING
DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.



UL LISTED DRIVESHAFT		
ENGINE MODEL	DRIVESHAFT MODEL	G
JU4H-UF AEA0*	CDS10-SC	10.50
JU4H-UF AEE8*, AEF2*, ADJ8	CDS20-SC	11.00

PUMP SIZE			ENGINE MODEL JU4H-UF	SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF1	HG	HY	YY
DISCH	MODEL	CASE BORE														
4	491	14	AEA0*, AEE8*, AEF2*, ADJ2*	6	-	6-7/8	17-5/8	13	8-3/8	31-11/16	88	20	39	66	22-3/8	15-1/4
4	492	18	AEE8*, ADJ8	5	-	9-1/2	18-3/8	14	9-1/2	33-1/4	88	22	39	68	21-5/8	14

- NOTES:
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
 2. Not for construction, installation or application puposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
 3. All bases are required to be completely filled with grout.
 4. Unit installation and final driveshaft alignment must be done by the installing contractor.

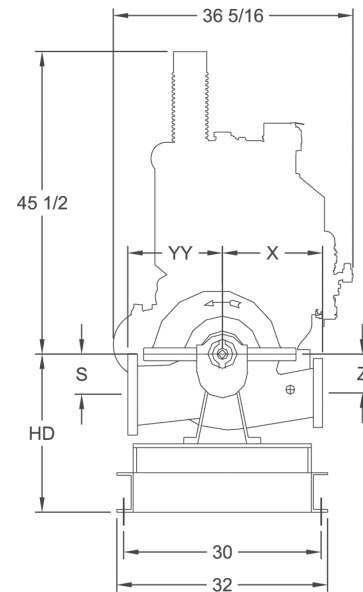
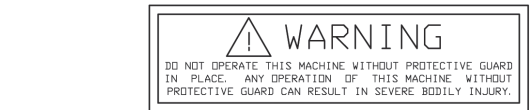
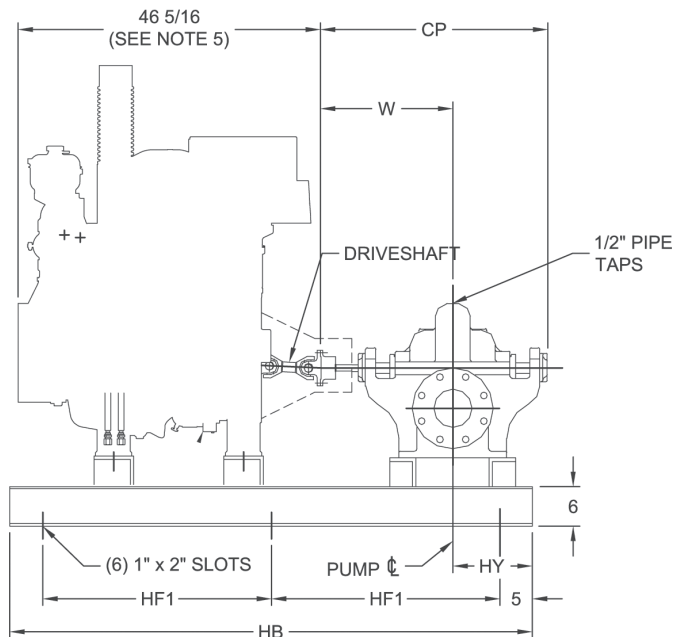
CAUTION:
The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.25" ± 0.08 inches vertically above the pump shaft and 0.00"± 0.08 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® 481 PUMPS

SINGLE-STAGE FIRE PUMPS

CLARKE MODEL JU4H-UFAD4G

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Date **JULY 2013**



LISTED DRIVESHAFT

ENGINE MODEL

DRIVESHAFT MODEL

JU4H-UFAD4G

CDS20-SC

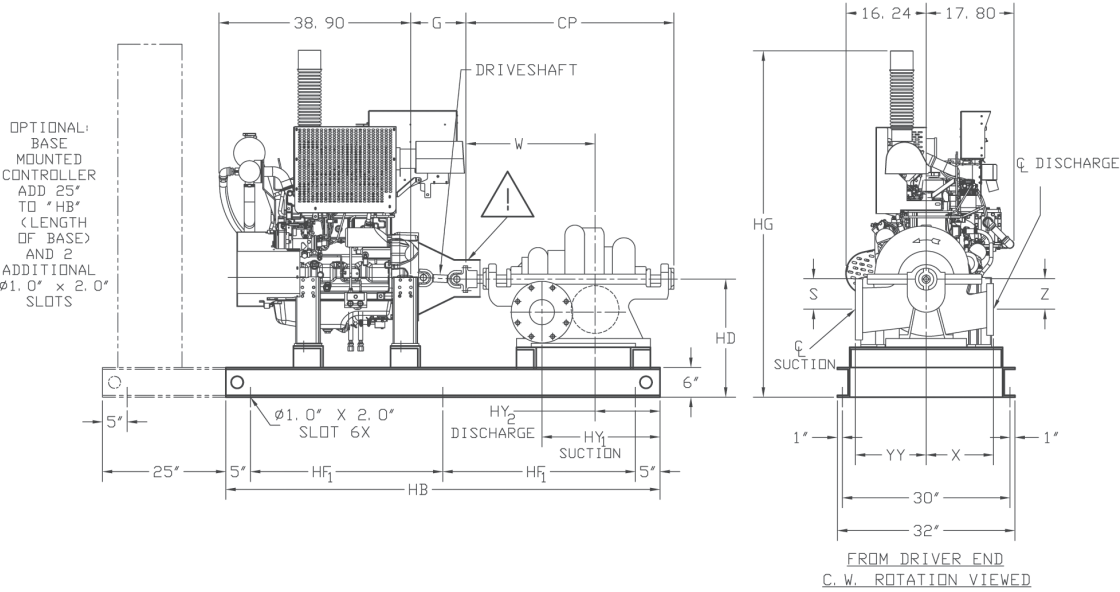
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
5	481	17	6	4	6-1/4	16	14	6-1/4	28-1/2	15	1-1/4	78	20	34	14
6	481	15C	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
6	481	14HH	8	5A	7-1/2	20-7/16	15	7-1/2	36-3/4	17	1-1/4	88	23	39	19-9/16
6	481	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
8	481	24	12	7	15	25-1/4	20	15	43-7/8	25	1-1/4	98	32	44	24-3/4

NOTES:

- All dimensions are in inches and may vary $\pm .38$.
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.25 ± 0.08 inches vertically above the pump shaft and 0.00 ± 0.08 inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions 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 engine overall length.
- Left-hand (counterclockwise) rotation is not available.

AURORA® PUMPS
MULTI-STAGE HSC FIRE PUMPS
CLARKE MODELS JU4H-UFAD4G, AD5G,
ADJG, ADP0, ADR0, ADW8, ADY8
EPA NSPS TIER 3

WARNING
DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.



UL LISTED DRIVESHAFT		
ENGINE MODEL	DRIVESHAFT MODEL	G
JU4H-UFAD4G	CDS20-SC	11.00"
JU4H-UFAD5G, ADJG, ADP0, ADR0, ADW8, ADY8	CDS30-S1	15.75"

PUMP SIZE			ENGINE MODEL JU4H-UF	SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF1	HG	HY1	HY2	YY
DISCH	MODEL	CASE BORE															
5	495	15	ADY8	6	-	9	28-3/8	15	9	46-7/8	98	23	44	69	32-5/8	21-5/8	15

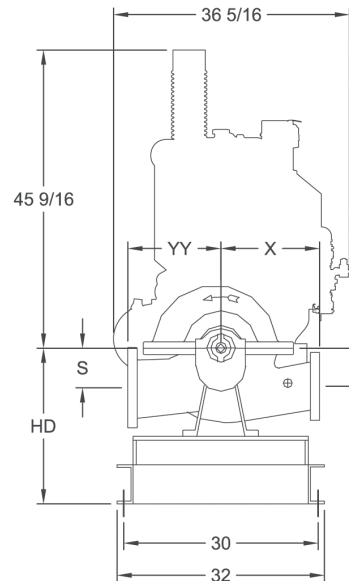
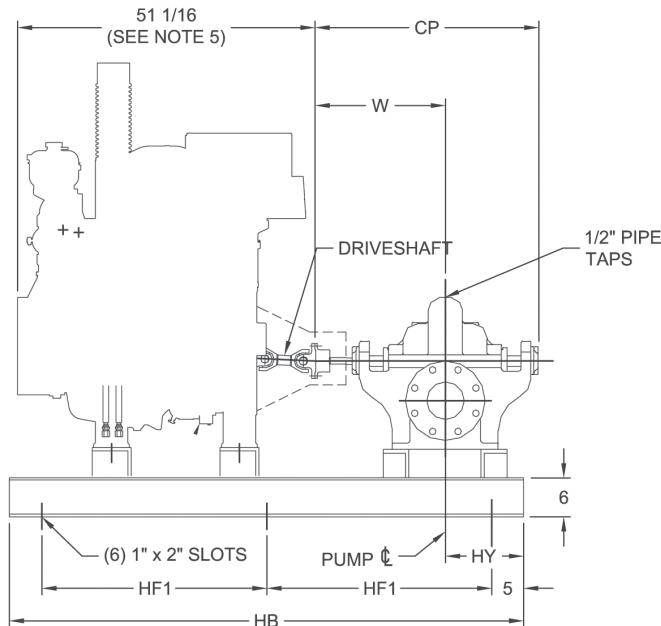
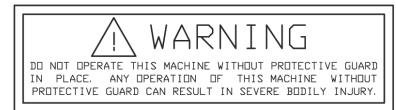
- NOTES:

 1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
 2. Not for construction, installation or application puposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
 3. All bases are required to be completely filled with grout.
 4. Unit installation and final driveshaft alignment must be done by the installing contractor.
- CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.25" ± 0.08 inches vertically above the pump shaft and 0.00"± 0.08 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® 481 PUMPS
SINGLE-STAGE FIRE PUMPS
CLARKE MODELS JU4H-UFADJG,
UFADP0, UFADR0, UFADW8, UFADY8

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 Date **OCTOBER 2017**
 Supersedes **JULY 2013**

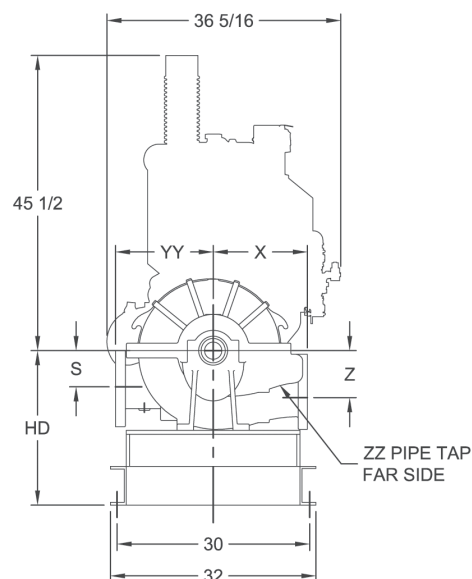
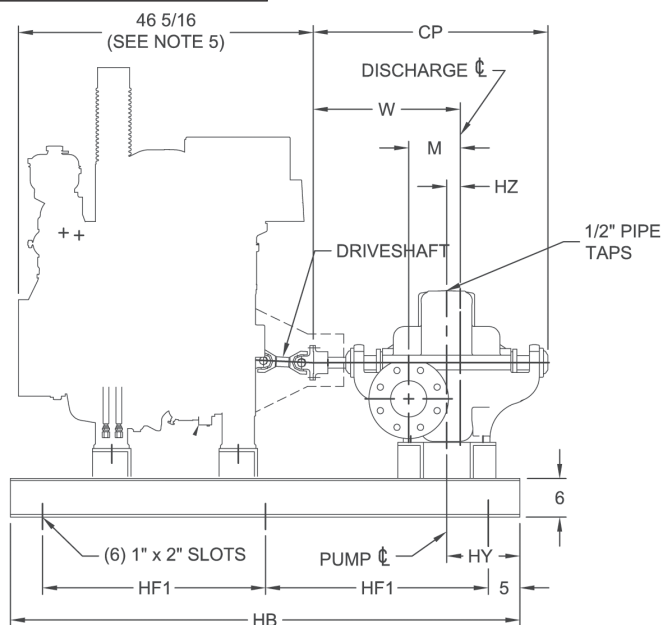


UL LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UFAD5G, -UFADJG, -UFADP0, -UFADR0, -UFADW8, -UFADY8	CDS30-S1

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
5	481	15/A	6	4	6-1/4	16	13-1/4	6-1/4	28-1/2	15	1-1/4	78	20	34	14
5	481	17	6	4	6-1/4	16	14	6-1/4	28-1/2	15	1-1/4	78	20	34	14
6	481	20B	8	5	8	18	15-3/4	8	32	188	1-1/4	78	22	34	12
6	481	18B/C	8	5	8	18	16	8	32	18	1-1/4	78	22	34	12
6	481	15C	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
6	481	15B	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
6	481	14HH	9	5A	7-1/2	20-7/16	15	7-1/2	36-3/4	17	1-1/4	88	23	39	19-9/16
6	481	20	8	5	8	18	15-3/4	8	32	18	1-1/4	78	22	34	12
6	481	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	78	21	34	12
8	481	17B	10	5	8	18	17	8	32	17-3/4	2	78	24	34	12

NOTES:

- All dimensions are in inches and may vary $\pm .38$.
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $0.35" \pm 0.10$ inches vertically above the pump shaft and $0.00" \pm 0.10$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions 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 engine overall length.
- Left-hand (counterclockwise) rotation is not available.



 LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UFAD4G	CDS20-SC

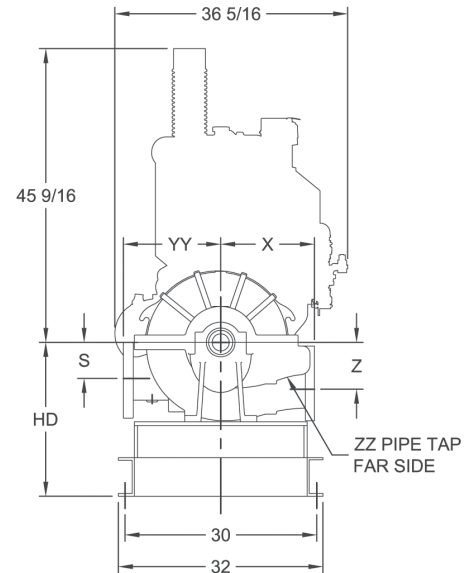
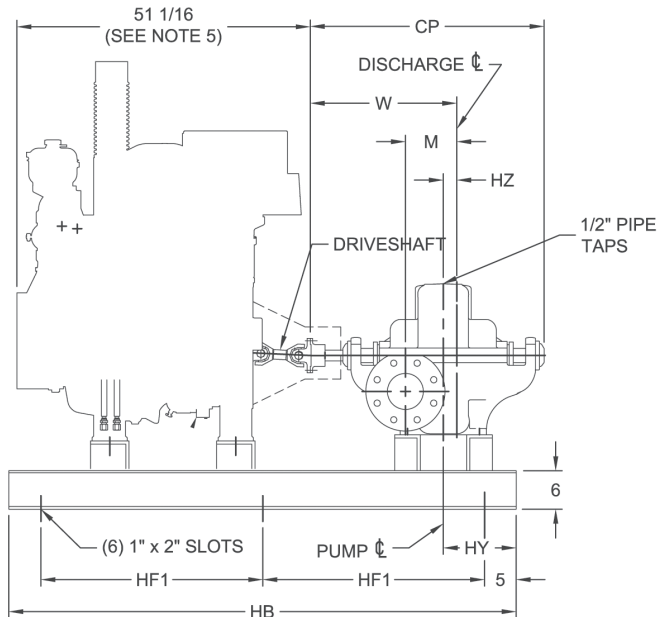
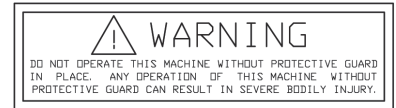
PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	YY	HZ	HB	HD	HF1	HY	ZZ
DISCH	MODEL	CASE BORE															
4	485	15	5	3	7-1/8	5	18-7/8	13	6-1/2	31	13-1/2	1-7/8	78	20	34	13	1-1/4

1. All dimensions are in inches and may vary $\pm .38$.
2. Not for construction purposes, unless certified.
3. Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $0.25" \pm 0.08$ inches vertically above the pump shaft and $0.00" \pm 0.08$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.

4. Pump suction and discharge flanges are ANSI Standard flat face.
5. Refer to individual engine dimension print for reference point used to determine engine overall length.
6. Left-hand (counterclockwise) rotation is not available.

AURORA® 485 PUMPS
TWO-STAGE FIRE PUMPS
CLARKE MODELS JU4H-UFAD5G, UFADJG,
UFADP0, UFADR0, UFADW8, UFADY8

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 Date **JULY 2013**



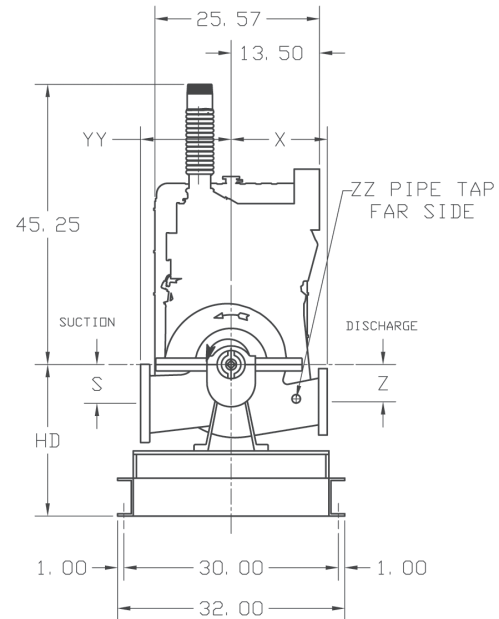
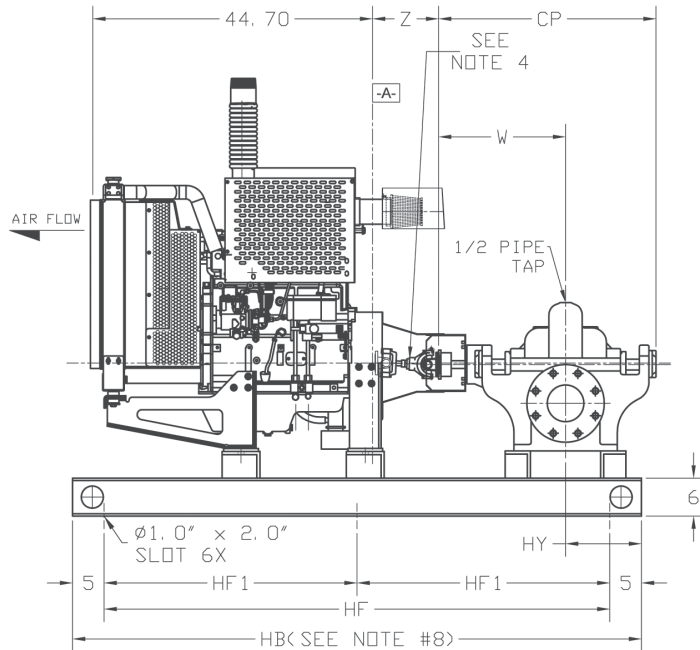
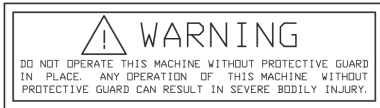
UL LISTED DRIVESHAFT	
ENGINE MODEL	DRIVESHAFT MODEL
JU4H-UFAD5G, -UFADJG, -UFADP0, -UFADR0, -UFADW8, -UFADY8	CDS30-S1

PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	YY	HZ	HB	HD	HF1	HY	ZZ
DISCH	MODEL	CASE BORE															
4	485	15	5	3	7-1/8	5	18-7/8	13	6-1/2	31	13-1/2	1-7/8	78	20	34	13	1-1/4
6	485	17A	8	5	11	7	24-1/2	16	9	38	16-1/2	3-1/2	88	22	39	19	1-1/4
6	485	17A/DI	8	5	11	7	24-1/2	16	9	38	16-1/2	3-1/2	88	22	39	19	1-1/4

NOTES:

- All dimensions are in inches and may vary $\pm .38$.
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $0.35" \pm 0.10$ inches vertically above the pump shaft and $0.00" \pm 0.10$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions 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 engine overall length.
- Left-hand (counterclockwise) rotation is not available.

AURORA® 481 PUMPS
 SINGLE-STAGE FIRE PUMPS
 CLARKE ENGINE DRIVE
 JU4R-UFAEE7, AEF1
 EPA NSPS TIER IT4 CERTIFIED



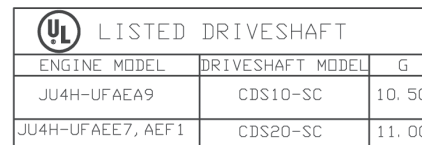
ENGINE MODEL	UL LISTED DRIVESHAFTS	Z
JU4R-UFAEA9	CDS10-SC	10.50
JU4R-UFAEE7, AEF1	CDS20-SC	11.00

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF	HF1	HY
DISCH	MODEL	CASE BORE														
4	481	11/A/C	5	3	5	14-1/2	11-1/4	5	26	12-3/4	1-1/4	88	20	78	39	15-1/2
4	481	11D	5	3	5	14-1/2	12	5	26	12-3/4	1-1/4	88	20	78	39	15-1/2
4	481	15	5	3	5-1/2	14-1/2	13	5-1/2	26	14	1-1/4	88	20	78	39	15-1/2
5	481	15/A	6	4	6-1/4	16	13-1/4	6-1/4	28-1/2	15	1-1/4	88	20	78	39	14
6	481	11	8	4	6-1/4	16	11-3/4	6-1/4	28-1/2	14-1/2	1-1/4	88	21	78	39	14
6	481	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	88	21	78	39	12
8	481	12	10	5	8	18	17	9	32	17-3/4	1-1/4	88	24	78	39	12

NOTES:

- All dimensions are in inches and may vary $\pm 3/8"$.
- Not for construction purposes, unless certified.
- Cauton: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $0.25" \pm 0.08$ inches vertically above the pump shaft and $0.00" \pm 0.08$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions 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 (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional $\phi 1.00 \times 2.00$ slots.

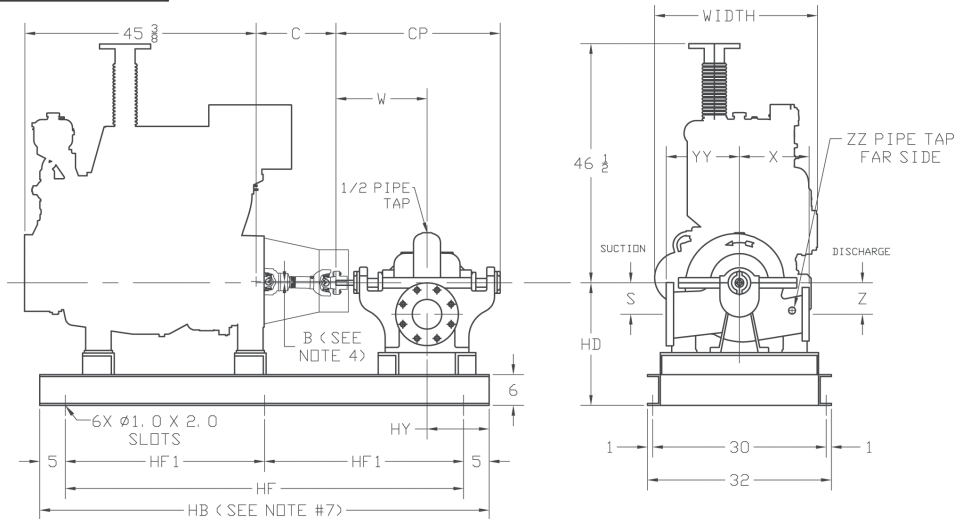
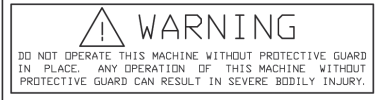
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PUMP SIZE			ENGINE MODEL JU4H-UF	SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
4	491	11	AEA9	6	-	6-7/8	16-5/8	11-1/4	7-1/8	29-11/16	88	21	39	66-1/4	13-3/8	14
4	491	14	AEA9, AEE7, AEF1	6	-	6-7/8	17-5/8	13	8-3/8	31-11/16	98	20	44	65-1/4	22-3/8	15-1/4
4	492	18	AEA9, AEE7, AEF1	5	-	9-1/2	18-3/8	14	9-1/2	33-1/4	98	22	44	67-1/4	21-5/8	14
4	492	14	AEA9	5	-	7-3/8	18-3/8	13-1/2	7-3/8	33-3/16	88	20	39	65-1/2	11-5/8	14
5	491	14	AEE7, AEF1	8	-	8-1/4	17-5/8	13-1/2	9-3/4	31-11/16	98	23	44	68-1/4	22-3/8	17-1/4

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $0.25" \pm 0.08$ inches vertically above the pump shaft and $0.00" \pm 0.08$ inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® 481 PUMPS
SINGLE-STAGE FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
JU6H-UFAD-K0, M8, MG, 58, NG, N0, P8, P0,
Q0, R0, S0, T0, 88, R8, S8, W8, X8, 98
EPA NSPS TIER 3 CERTIFIED



ENGINE MODEL: JU6H-UFAD__	C	UL LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
K0*, M8, MG, 58, NG, N0, Q0, R0	15-5/8	CDS30-S1	0.35
P8, P0, S0, T0, 88, R8, S8, W8, X8, 98	20-3/8	CDS50-SC (1760 & 2100 RPM)	0.45

*For engines with speeds of 1760 & 2100 RPM only. For 2350 RPM use a non-listed driveshaft.

ENGINE MODEL: JU6H-UFAD__	C	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
T0, S0, P0, R0	20-3/8	SC81A (2350 RPM)	0.45

**For engines with speeds of 2350 RPM only. There is no listed driveshaft available in this HP range.

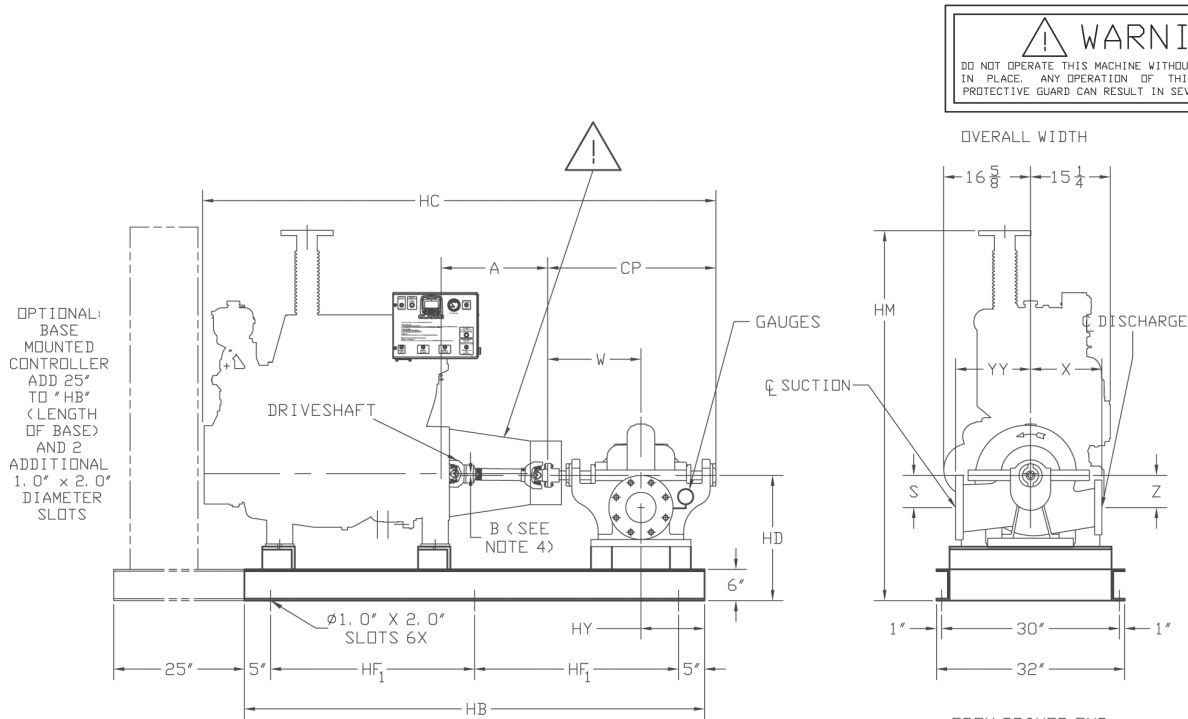
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF	HF1	HY
DISCH	MODEL	CASE BORE														
5	481	17	6	4	6-1/4	16	14	5-1/4	28-1/2	15	1-1/4	88	20	78	39	14
6	481	11HH	8	4A	8-5/8	18-1/8	10	8-5/8	32-7/8	15	1-1/4	88	23	78	39	11-7/8
6	481	14HH	8	5A	7-1/2	20-1/2	15	7-1/2	36-3/4	17	1-1/4	98	23	88	44	19-9/16
6	481	15	8	5	6-3/4	18	14-1/4	6-3/4	32	16-3/4	1-1/4	88	21	78	39	12
6	481	18	8	5	8	18	16	8	32	18	1-1/4	88	22	78	39	12
6	481	20	8	5	8	18	15-3/4	8	32	18	1-1/4	88	22	78	39	12
8	481	17B	10	5	8	18	17	8	32	17-3/4	2	88	24	78	39	12
8	481	21	10	6B	9-1/2	21-7/8	18	9-1/2	38	21	2	98	25	88	44	18-1/8
10	481	15	12	6B	13-1/2	21-7/8	17	13-1/2	38	20	1-1/4	98	31	88	44	13-1/8
10	481	18	12	6B	13-1/2	21-7/8	17	13-1/2	38	22	2	98	31	88	44	13-1/8
10	481	18D	12	7A	12-1/4	24-1/4	20	12-1/4	43	24	2	98	31	88	44	15.69

NOTES:

1. All dimensions are in inches and may vary $\pm 3/8"$.
2. Not for construction purposes, unless certified.
3. Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.10 inches vertically above the pump shaft and $0.00" \pm 0.10$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
4. Pump suction and discharge flanges are ANSI Standard flat face.
5. Left-hand (counterclockwise) rotation is not available.
6. Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional $\phi 1.00 \times 2.00$ slots.

AURORA® PUMPS
SINGLE-STAGE HSC FIRE PUMPS
JU6H-UFAD-K0, M8, MG, 58, NG, N0, P8, P0,
Q0, R0, S0, T0, 88, R8, S8, W8, X8, 98
EPA SNPS TIER 3 CERTIFIED

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 Date **JULY 2013**



ENGINE MODEL: JU6H-UFAD__	A	UL LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION	ENGINE MODEL: JU6H-UFAD__	A	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
K0*, M8, MG, 58, NG, N0, Q0, R0	15 -5/8	CDS30-S1	0.35	T0, S0, P0, R0	20 -3/8	SC81A (2350 RPM)	0.45
P8, P0, S0, T0, 88, R8, S8, W8, X8, 98	20 -3/8	CDS50-SC (1760 & 2100 RPM)	0.45	**For engines with speeds of 2350 RPM only. There is no listed driveshaft available in this HP range.			

*For engines with speeds of 1760 & 2100 RPM only. For 2350 RPM use a non-listed driveshaft.
 **ONLY SOLD AS PLD IN US & US TERRITORIES

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
5	491	14	8	-	8-1/4	17-5/8	13-1/2	9-3/4	31-11/16	98	97-7/16	23	44	70	22-3/8	17-1/4
5	491	18	8	-	8-1/8	18-7/8	15	10-5/8	33-3/8	98	99-1/8	23	44	70	21-1/8	18-3/4
6	491	14	10	-	9-3/8	20-1/8	13-3/4	10	35-7/8	98	101-5/8	25	44	72	19-7/8	18
6	491	18	10	-	9-3/8	20-1/8	16	11-3/4	35-7/8	98	101-5/8	25	44	72	19-7/8	20
6	491	19	10	-	9-3/8	22-5/8	18	12-1/8	39-1/4	98	105	26	44	73	17-3/8	22
6	492	18	8	-	9-5/8	22-1/2	16	9-5/8	40-1/8	98	105-7/8	24	44	71	17-1/2	16
8	491	14	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	98	102-3/8	28	44	75	19-1/2	22
8	491	18	12	-	10-3/4	23-3/4	16	12-1/2	41-1/2	98	107-1/4	28	44	75	16-1/4	22
8	481	24	12	7	13-1/2	28-5/8	20	15	51-1/2	108	117-1/4	31	49	78	21-3/8	25
10	492	18	12	-	11-1/2	25-9/16	21	11-1/2	45-13/16	108	111-9/16	23	49	70	14-7/16	21

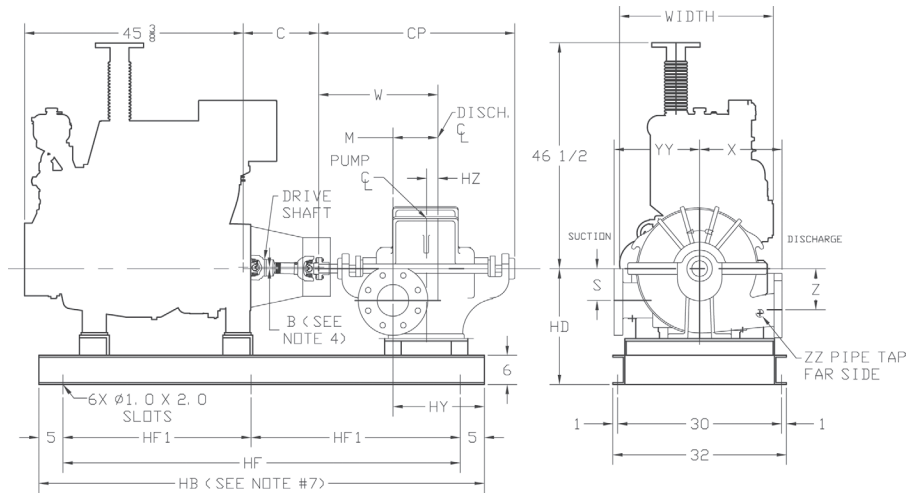
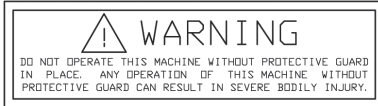
NOTES:

1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.18 inches vertically above the pump shaft and 0.00" ± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® 485 PUMPS
TWO-STAGE FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
JU6H-UFAD-K0, M8, MG, 58, NG, N0, P8, P0,
Q0, R0, S0, T0, 88, R8, S8, W8, X8, 98
EPA NSPS TIER 3 CERTIFIED



ENGINE MODEL: JU6H-UFAD_	C	UL LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
K0*, M8, MG, 58, NG, N0, Q0, R0	15-5/8	CDS30-S1	0.35
P8,P0,S0,T0,88,R8,S8,W8,X8,98	20-3/8	CDS60-SC (1760 & 2100 RPM)	0.45

*For engines with speeds of 1760 & 2100 RPM only. For 2350 RPM use a non-listed driveshaft.

ENGINE MODEL: JU6H-UFAD_	C	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
T0, S0, P0, R0	20-3/8	SC81A (2350 RPM)	0.45

**For engines with speeds of 2350 RPM only. There is no listed driveshaft available in this HP range.

* ONLY SOLD AS PLD IN US AND US TERRITORIES

PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	HZ	ZZ	YY	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE															
6	485	16	8	5	10-1/2	8-1/4	26-5/8	19	7-3/4	37-7/8	2-5/8	N/A	17	98	23	44	26-7/8
6	485	17	8	5	11	7	24-1/2	16	9	38	3-1/2	1-1/4	16-1/2	98	22	44	26-1/2

NOTES:

- All dimensions are in inches and may vary $\pm 3/8"$.
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.10 inches vertically above the pump shaft and $0.00" \pm 0.10$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional $\phi 1.00 \times 2.00$ slots.

AURORA® PUMPS

TWO-STAGE HSC FIRE PUMPS

CLARKE DIESEL ENGINE DRIVE

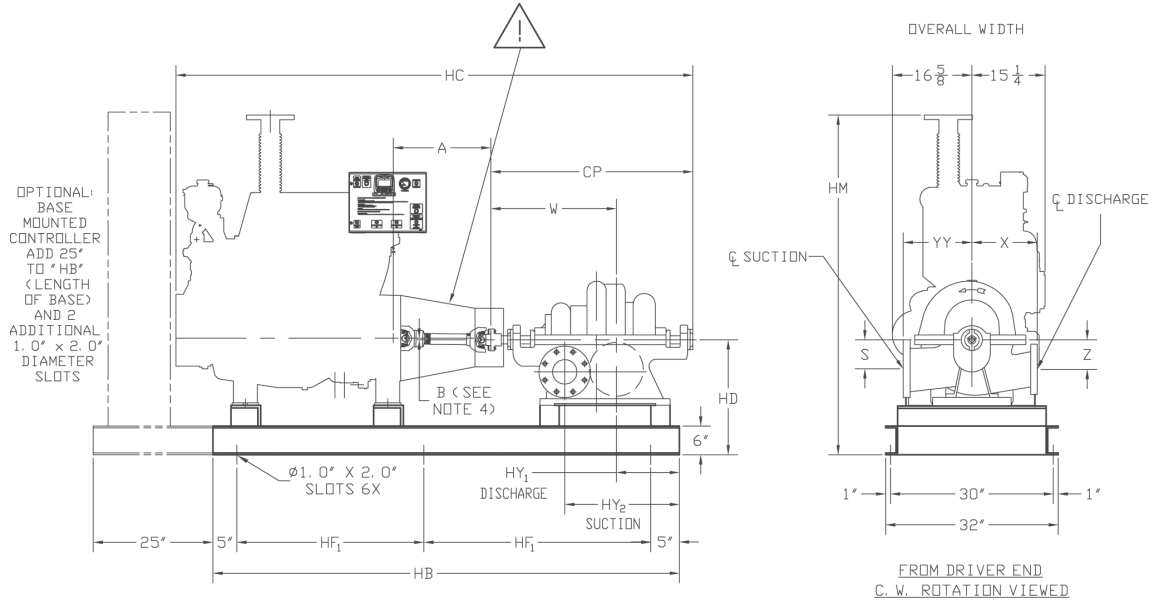
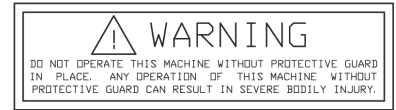
JU6H-UFAD-K0, M8, MG, 58, NG, N0, P8, P0,

Q0, R0, S0, T0, 88, R8, S8, W8, X8, 98

EPA NSPS TIER 3 CERTIFIED

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ENGINE MODEL: JU6H-UFAD__	A	UL LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
K0*, M8, MG, 58, NG, N0, Q0, R0	15-5/8	CDS30-S1	0.35
P8,P0,S0,T0,88,R8,S8,W8,X8,98	20-3/8	CDS50-SC (1760 & 2100 RPM)	0.45

*For engines with speeds of 1760 & 2100 RPM only. For 2350 RPM use a non-listed driveshaft.

ENGINE MODEL: JU6H-UFAD__	A	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
T0, S0, P0, R0	20-3/8	SC81A (2350 RPM)	0.45

**For engines with speeds of 2350 RPM only. There is no listed driveshaft available in this HP range.

* ONLY SOLD AS PLD IN US & US TERRITORIES

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HM	YY	HY1	HY2
DISCH	MODEL	CASE BORE															
6	495	17	8	-	10-1/2	31-5/8	16-1/2	10-1/2	52-1/2	108	118-1/4	25	49	72	16-1/2	18-3/8	31-3/8

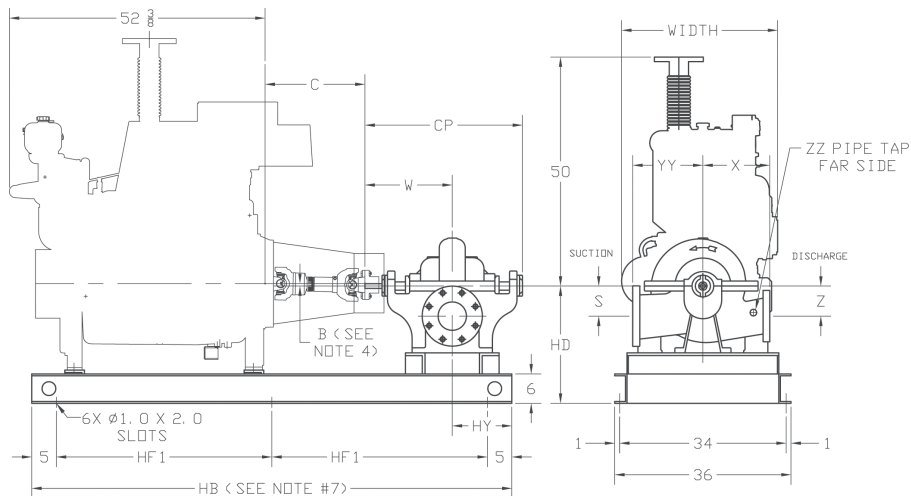
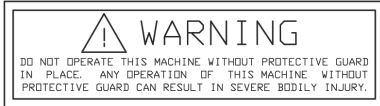
NOTES:

1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application puposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.18 inches vertically above the pump shaft and 0.00"± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® 481 PUMPS
SINGLE-STAGE FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
JW6H-UFADB0, UFADD0, UFADF0,
UFADJ0, UFAD70, UFAD80
EPA NSPS TIER 3 CERTIFIED



ENGINE MODEL: JW6H-UFAD__	C	UL LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
B0, D0, F0, J0, 70	20.38	CDS50-SC	0.45
80	20.38	CDS50-SC (2100 RPM ONLY)	0.45

*For engine with speed of 2100 RPM only. For 1760 RPM use a non-listed driveshaft.

ENGINE MODEL: JW6H-UFAD__	C	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
80	20-3/8	SC81A (1760 RPM)	0.45

**For engine with speed of 1760 RPM only. There is no listed driveshaft available in this HP range.

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
6	481	20	8	5	8	18	15.75	8	32	18	1.25	98	24	44	12
8	481	17	10	5	8	18	17	8	32	17.75	2	98	24	44	12
8	481	21	10	6B	9.5	21.88	18	9.5	38	21	2	108	25	49	18.13
8	481	24	12	7	15	25.25	20	15	43.88	25	1.25	118	32	54	24.75
10	481	18	12	6B	13.5	21.88	18	13.5	38	22	2	108	32	49	18.13
10	481	18D	12	7A	12.25	24.25	20	12.25	43	24	2	108	31	49	15.75

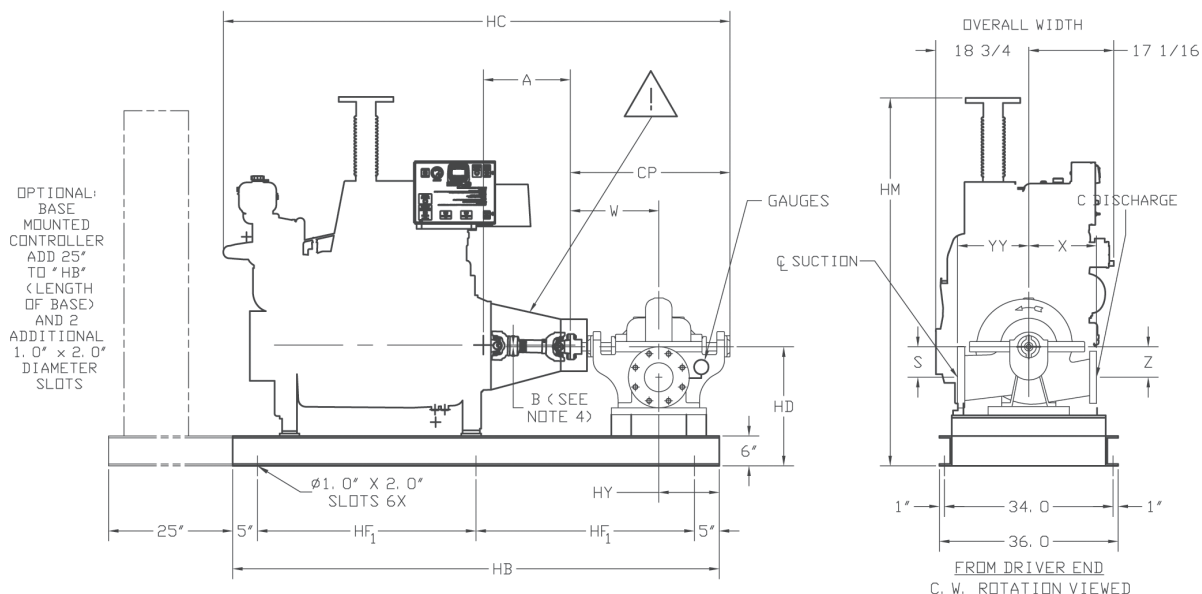
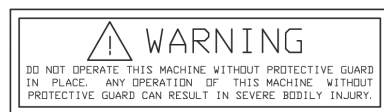
NOTES:

- All dimensions are in inches and may vary $\pm 3/8$ ".
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.10 inches vertically above the pump shaft and $0.00" \pm 0.10$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional $\phi 1.00 \times 2.00$ slots.

AURORA® PUMPS
SINGLE-STAGE HSC FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
JW6H-UFADB0, UFADD0, UFADF0,
UFADJ0, UFAD70, UFAD80
EPA NSPS TIER 3 CERTIFIED

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ENGINE MODEL: JU6H-UFAD__	A	LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
B0, D0, F0, J0, 70	20-3/8	CDS50-SC	0.45
80	20-3/8	CDS50-SC (2100 RPM ONLY)	0.45

ENGINE MODEL: JW6H-UFAD__	A	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
80	20-3/8	SC81A (1760 RPM)	0.45

*For engine with speed of 2100 RPM only. For 1760 RPM use a non-listed driveshaft.
 **For engine with speed of 1760 RPM only. There is no listed driveshaft available in this HP range.

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF	HM	HY	YY
DISCH	MODEL	CASE BORE														
6	491	18C	10	-	9-3/8	20-1/8	16	11-3/4	35-7/8	108	105-3/4	26	49	76-3/8	19-7/8	20
6	491	19A	10	-	9-3/8	22-5/8	18	12-1/8	39-1/4	108	109-1/8	25	49	75-3/8	17-3/8	22
8	491	14A	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	108	106-1/2	28	49	78-3/8	19-1/2	22
8	491	18A	12	-	10-3/4	23-3/4	16	12-1/2	41-1/2	108	111-3/8	28	49	78-3/8	16-1/4	22
8	481	24	12	-	13-1/2	28-5/8	20	15	51-1/2	118	121-3/8	31	54	81-3/8	21-3/8	25
10	491	20	16	-	13	25-9/16	23	14-1/4	44-9/16	118	114-7/16	32	54	82-3/8	24-7/16	25
10	492	18	12	-	11-1/2	25-9/16	21	11-1/2	45-13/16	108	115-11/16	29	49	79-3/8	17-7/16	21

NOTES:

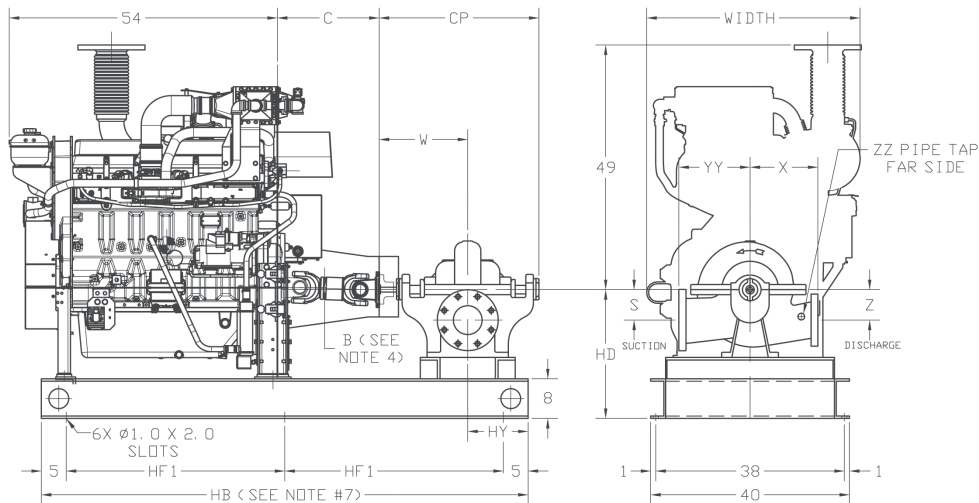
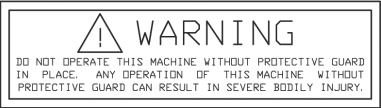
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application puposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.18 inches vertically above the pump shaft and 0.00"± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.



AURORA® 481 PUMPS
SINGLE-STAGE FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
JX6H-UFADF0, UFADK0, UFADN0, UFADP0,
UFAD60, UFAD88
EPA NSPS TIER 3 CERTIFIED



ENGINE MODEL	C	WIDTH	LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
All Tier 3 JX Models	NA	NA	NA	NA
*There are no listed driveshafts for these engines in their HP range.				

ENGINE MODEL	C	WIDTH	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
JX6H-UFADF0, 60, K0, N0, P0, 88	20 -1/2	41-3/4	SC2160A	0.45
**For all Tier 3 JX6H Models. There is no listed driveshaft available in this HP range.				

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
8	481	24	12	7	15	25.25	20	15	43.88	25	1.25	118	34	54	24.75
10	481	18	12	6B	13.5	21.88	18	13.5	38	22	2	108	33	49	18.13
10	481	18D	12	7A	12.25	24.25	20	12.25	43	24	2	108	33	49	15.75

NOTES:

1. All dimensions are in inches and may vary $\pm 3/8"$.

2. Not for construction purposes, unless certified.

3. Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.10 inches vertically above the pump shaft and $0.00" \pm 0.10$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
4. Pump suction and discharge flanges are ANSI Standard flat face.

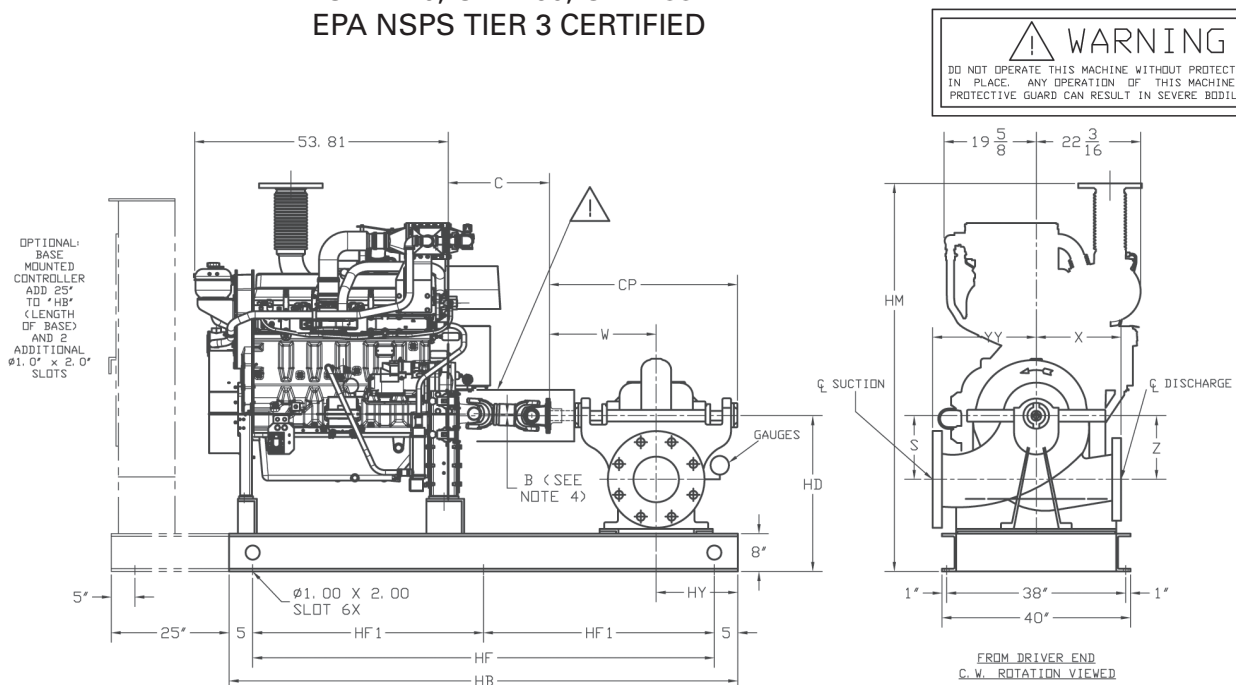
5. Left-hand (counterclockwise) rotation is not available.

6. Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional $\phi 1.00 \times 2.00$ slots.

AURORA® PUMPS
SINGLE-STAGE HSC FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
JX6H-UFADF0, UFADK0, UFADN0,
UFADP0, UFAD60, UFAD88
EPA NSPS TIER 3 CERTIFIED

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Date **JULY 2013**



ENGINE MODEL	C	WIDTH	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
JX6H-UFADF0,K0,N0, PO,60,88	20 -1/2	41-3/4	SC2160A	0.45

**For all Tier 3 JX6H Models. There is no listed driveshaft available in this HP range.

ENGINE MODEL	C	WIDTH	UL LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
All Tier 3 JX Models	NA	NA	NA	NA

*There are no listed driveshafts available for these engines.

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
6	491	19	10	-	9-3/8	22-5/8	18	12-1/8	39-1/4	108	28	98	49	76-7/8	16-5/8	22
8	491	18	12	-	10-3/4	23-3/4	16	12-1/2	41-1/2	108	30	98	49	78-7/8	16-1/4	22
10	492	18	12	-	11-1/2	25-9/16	21	11-1/2	45-13/16	118	31	108	54	79-7/8	24-7/16	21

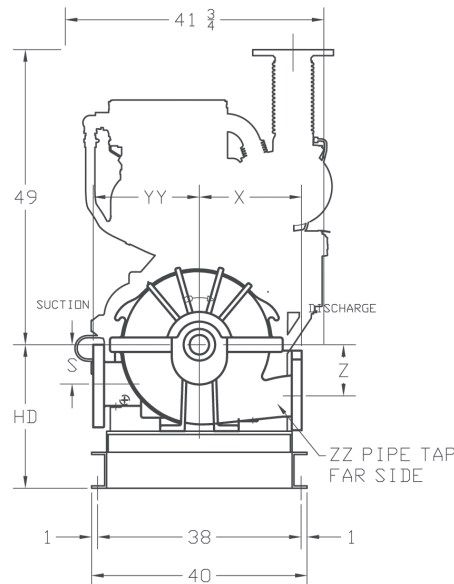
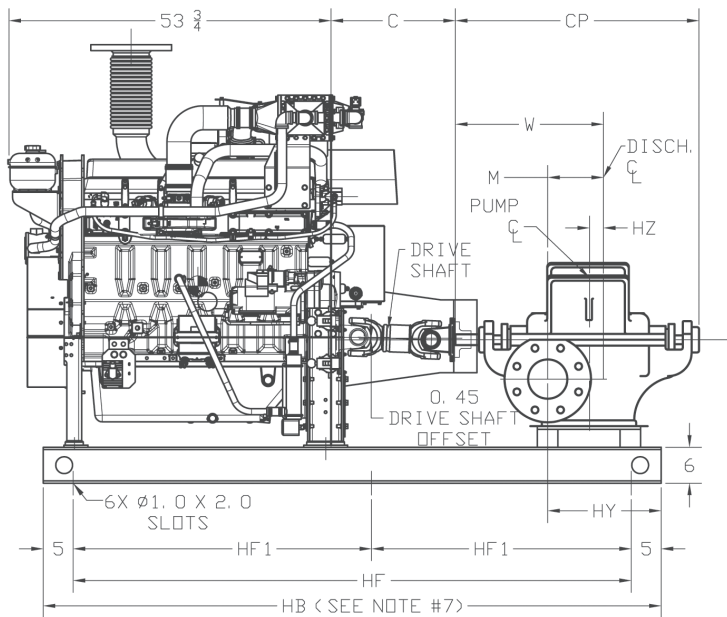
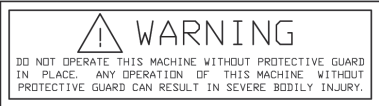
NOTES:

1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.18 inches vertically above the pump shaft and 0.00"± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® 485 PUMPS
TWO-STAGE FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
JX6H-UFADF0, UFADK0, UFADN0, UFADP0,
UFAD60, UFAD88
EPA NSPS TIER 3 CERTIFIED



ENGINE MODEL	C	WIDTH	LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
All Tier 3 JX Models	NA	NA	NA	NA
*There are no listed driveshafts for these engines in their HP range.				

ENGINE MODEL	C	NON-LISTED DRIVESHAFT**
JX6H-UFADF0, 60, K0, N0, P0, 88	20 -1/2	SC2160A
**For all Tier 3 JX6H Models. There is no listed driveshaft available.		

PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	HZ	ZZ	YY	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE															
6	485	16	8	5	10-1/2	8-1/4	26-5/8	19	7-3/4	37-7/8	2-5/8	N/A	17	108	26	49	26-7/8

NOTES:

1. All dimensions are in inches and may vary $\pm 3/8"$.

2. Not for construction purposes, unless certified.

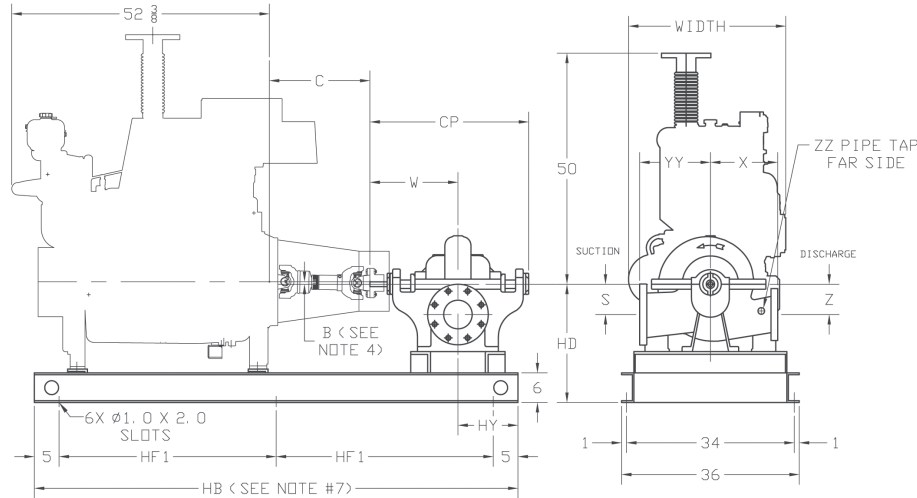
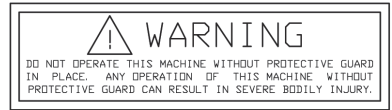
3. Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $.45" \pm 0.15$ inches vertically above the pump shaft and $0.00" \pm 0.15$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
4. Pump suction and discharge flanges are ANSI Standard flat face.

5. Left-hand (counterclockwise) rotation is not available.

6. Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional $\phi 1.00 \times 2.00$ slots.

AURORA® 481 PUMPS
SINGLE-STAGE FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
JW6H-UFAAM8, UFAA80
EPA NSPS TIER 3 CERTIFIED

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 Date **JULY 2013**



ENGINE MODEL: JW6H-UF ____	C	LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
AAM8	20.38	CDS50-SC	0.45
AA80	20.38	CDS50-SC (2100 RPM ONLY)	0.45

*For engine with speed of 2100 RPM only. For 1760 RPM use a non-listed driveshaft.

ENGINE MODEL: JW6H-UF ____	C	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
AA80	20-3/8	SC81A (1760 RPM)	0.45

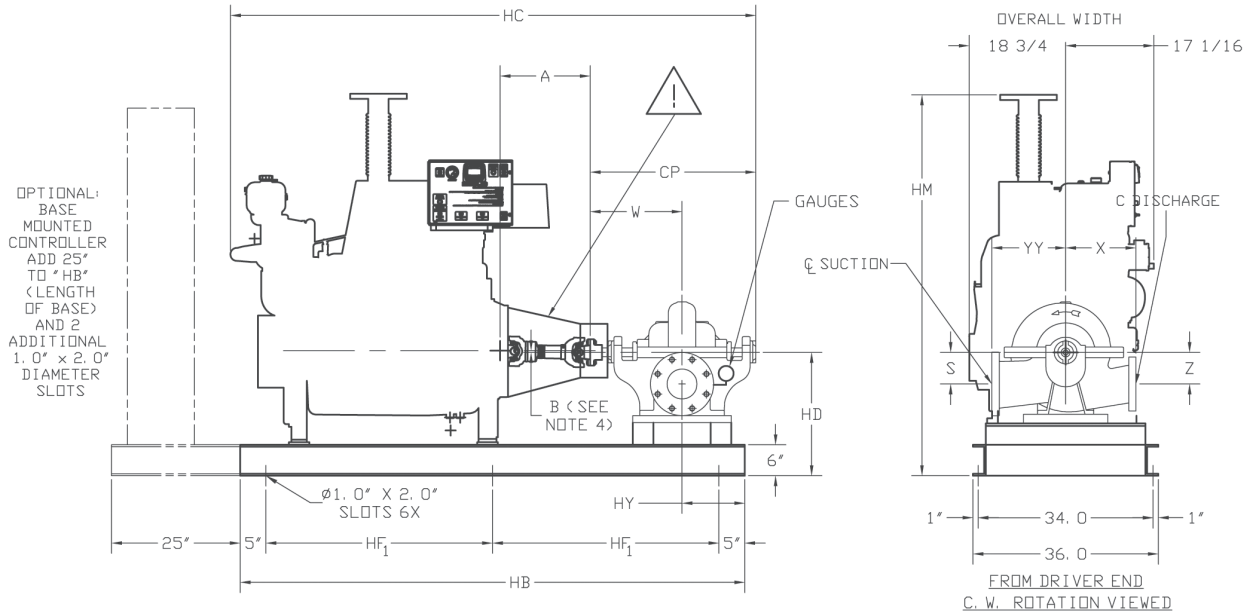
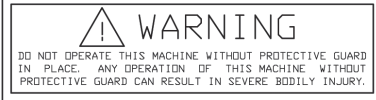
**For engine with speed of 1760 RPM only. There is no listed driveshaft available in this HP range.

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
8	481	17	10	5	8	18	17	8	32	17-3/4	2	98	24	44	12
8	481	21	10	6B	9.5	21.88	18	9.5	38	21	2	108	25	49	18.13
8	481	24	12	7	15	25.25	20	15	43.88	25	1.25	118	32	54	24.75
10	481	18	12	6B	13.5	21.88	18	13.5	38	22	2	108	32	49	18.13
10	481	18D	12	7A	12.25	24.25	20	12.25	43	24	2	108	31	49	15.75

NOTES:

- All dimensions are in inches and may vary $\pm 3/8"$.
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.10 inches vertically above the pump shaft and $0.00" \pm 0.10$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional $\phi 1.00 \times 2.00$ slots.

AURORA® PUMPS
SINGLE-STAGE HSC FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
JW6H-UFAAM8, -UFAA80
CERTIFIED (EXPORT ONLY)



ENGINE MODEL: JU6H-UF	A	LISTED DRIVESHAFT*	B DRIVESHAFT OFFSET DIMENSION
AAM8	20-3/8	CDS50-SC	0.45
AA80	20-3/8	CDS50-SC (2100 RPM ONLY)	0.45

*For engine with speed of 2100 RPM only. For 1760 RPM use a non-listed driveshaft.

ENGINE MODEL: JW6H-UF	A	NON-LISTED DRIVESHAFT**	B DRIVESHAFT OFFSET DIMENSION
AA80	20-3/8	SC81A (1760 RPM)	0.45

**For engine with speed of 1760 RPM only. There is no listed driveshaft available in this HP range.

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF	HM	HY	YY
DISCH	MODEL	CASE BORE														
6	491	18C	10	-	9-3/8	20-1/8	16	11-3/4	35-7/8	108	105-3/4	26	49	76-3/8	19-7/8	20
6	491	19	10	-	9-3/8	22-5/8	18	12-1/8	39-1/4	108	109-1/8	25	49	75-3/8	17-3/8	22
8	491	14	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	108	106-1/2	28	49	78-3/8	19-1/2	22
8	491	18	12	-	10-3/4	23-3/4	16	12-1/2	41-1/2	108	111-3/8	28	49	78-3/8	16-1/4	22
8	481	24	12	7	13-1/2	28-5/8	20	15	51-1/2	118	121-3/8	31	54	81-3/8	21-3/8	25
10	491	20	16	-	13	25-9/16	23	14-1/4	44-9/16	118	114-7/16	32	54	82-3/8	24-7/16	25
10	492	18	12	-	11-1/2	25-9/16	21	11-1/2	45-13/16	108	115-11/16	29	49	79-3/8	14-7/16	21

NOTES:

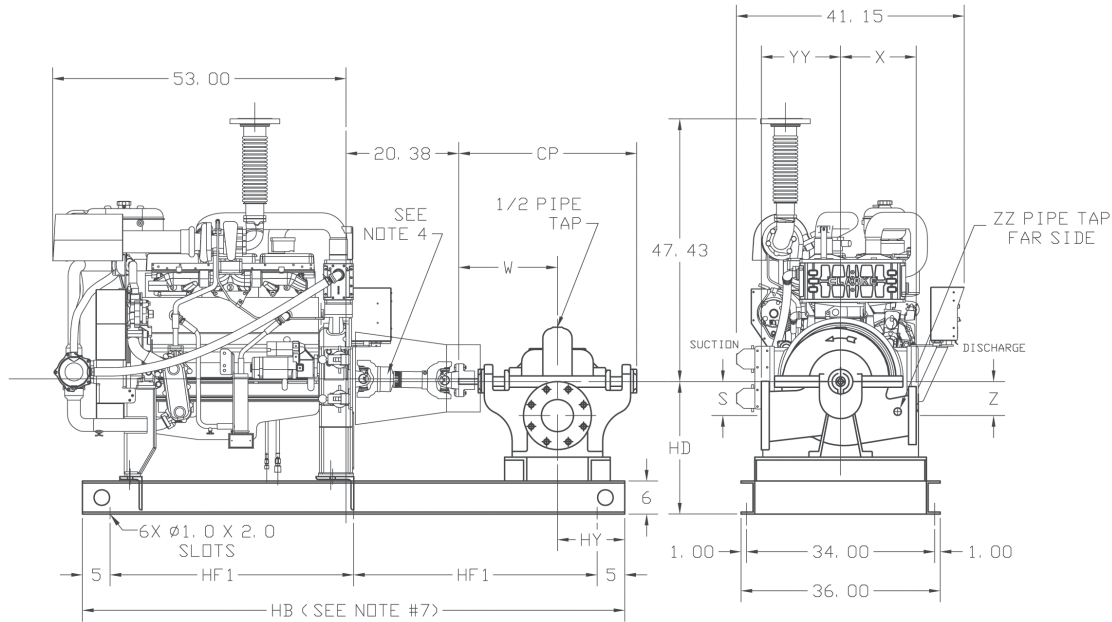
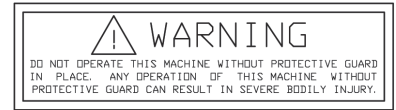
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.18 inches vertically above the pump shaft and 0.00" ± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® 481 PUMPS
SINGLE-STAGE FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
DP6H-UFAA50 AND UFAA62
CERTIFIED (EXPORT ONLY)

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ENGINE MODEL: DP6H-UFAA__	LISTED DRIVESHAFT*
50	CDS50-SC
*For engine with speed of 1470 to 2100 RPM only.	

ENGINE MODEL: DP6H-UFAA__	NON-LISTED DRIVESHAFT**
50, 62	SC81A (2600 RPM)
**For engine with speed of greater than 2100 RPM only.	

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
6	481	14HH	8	5A	7.5	20.44	15	7.5	36.75	17	1.25	108	24	49	19.56
6	481	20	8	5	8	18	15.75	8	32	18	1.25	98	24	44	12
8	481	17	10	5	8	18	17	8	32	17.75	1.25	98	24	44	12
8	481	21	10	6B	9.5	21.88	18	9.5	38	21	1.25	108	25	49	18.13
8	481	24	12	7	15	25.25	20	15	43.88	25	1.25	118	32	54	24.75
10	481	18	12	6B	13.5	21.88	18	13.5	38	22	1.25	108	31	49	18.13
10	481	18D	12	7A	12.25	24.25	20	12.25	43	24	1.25	108	31	49	15.75

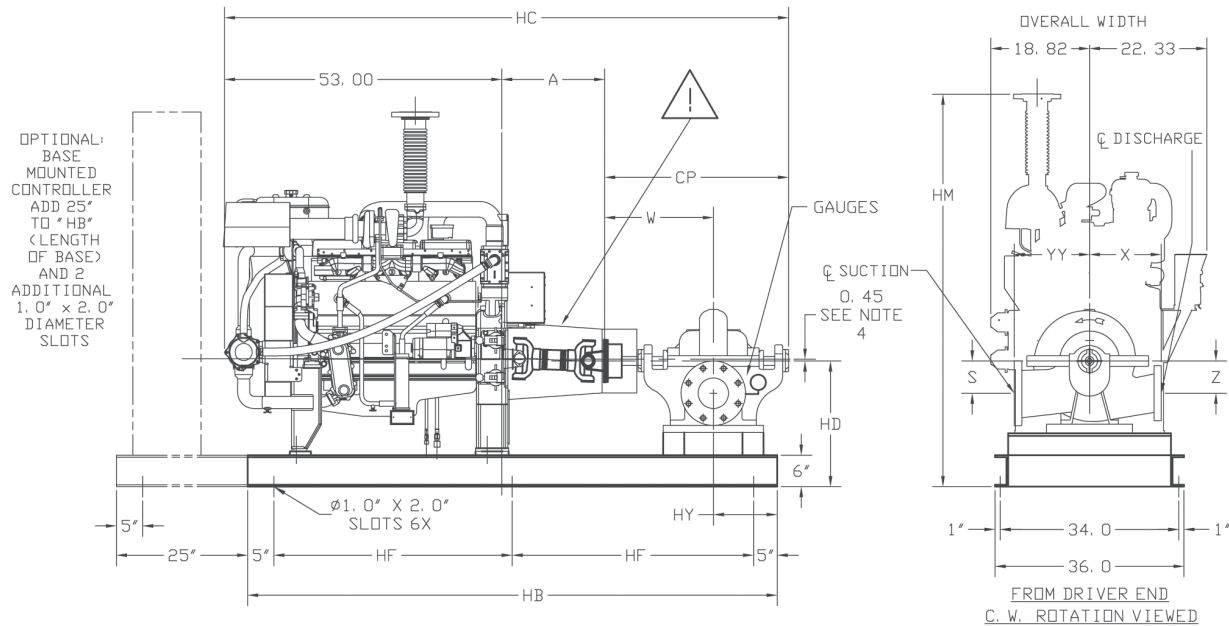
NOTES:

1. All dimensions are in inches and may vary $\pm 3/8"$.
2. Not for construction purposes, unless certified.
3. Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $.45" \pm 0.11$ inches vertically above the pump shaft and $0.00" \pm 0.11$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
4. Pump suction and discharge flanges are ANSI Standard flat face.
5. Left-hand (counterclockwise) rotation is not available.
6. Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional $\phi 1.00 \times 2.00$ slots.

AURORA® PUMPS
SINGLE-STAGE HSC FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
DP6H-UFAA50 AND UFAA62
CERTIFIED (EXPORT ONLY)

WARNING

DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.



ENGINE MODEL: DP6H-UF	A	UL LISTED DRIVESHAFT*
AA50, AA62	20 -3/8	CDS50-SC

*For engine with speed of 1760 & 2100 RPM only.

ENGINE MODEL: DP6H-UF	A	NON-LISTED DRIVESHAFT*
AA50, AA62	20 -3/8	SC81A

*For 2350 RPM use a non-listed driveshaft.

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF	HM	HY	YY
DISCH	MODEL	CASE BORE														
6	491	19A	10	-	9-3/8	20-5/8	18	12-1/8	39-1/4	108	112-5/8	25	49	72-7/16	17-3/8	22
8	491	14A	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	108	110	28	49	75-7/16	19-1/2	22
8	491	18A	12	-	10-3/4	23-3/4	16	12-1/2	41-1/2	108	114-7/8	28	49	75-7/16	16-1/4	22

NOTES:

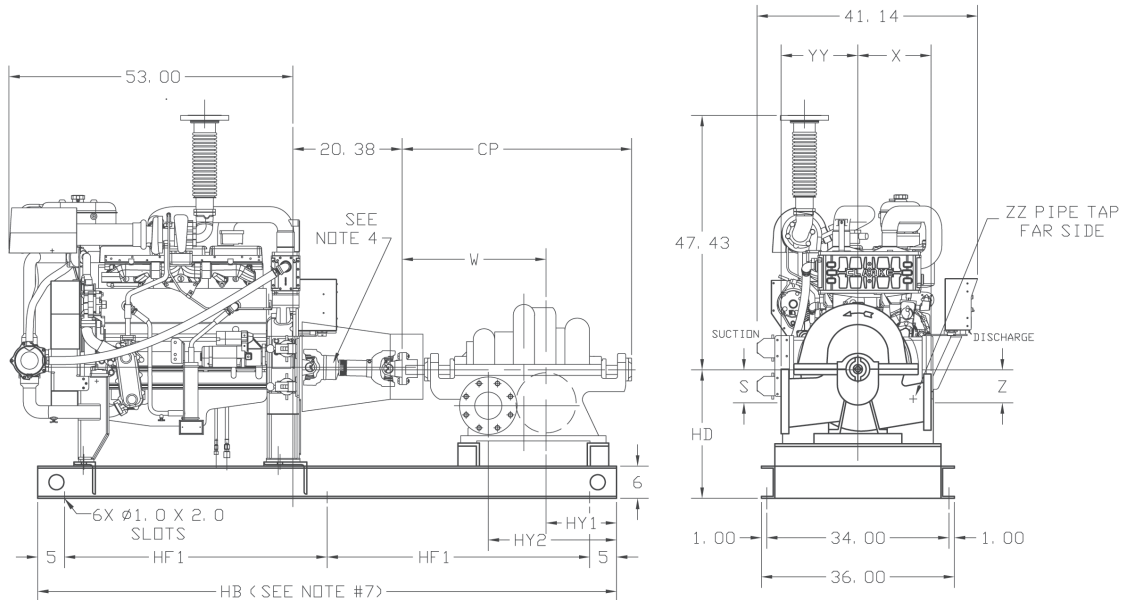
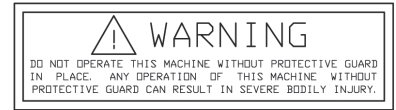
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.45" ± 0.11 inches vertically above the pump shaft and 0.00" ± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® 485 PUMPS
MULTI-STAGE FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
DP6H-UFAA50 AND UFAA62
CERTIFIED (EXPORT ONLY)

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 Date **JULY 2013**



ENGINE MODEL: DP6H-UFAA__	LISTED DRIVESHAFT*
50	CDS50-SC
*For engine with speed of 1470 to 2100 RPM only.	

ENGINE MODEL: DP6H-UFAA__	NON-LISTED DRIVESHAFT**
50, 62	SC81A (2600 RPM)
**For engine with speed of greater than 2100 RPM only.	

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY1	HY2
DISCH	MODEL	CASE BORE														
6	485	16	8	5	8.25	23.63	19	7.75	37.88	17	1.25	108	24	49	16.38	26.88
6	485	17	8	5	7	24.5	16	9	38	16.5	1.25	108	24	49	15.5	26.5

NOTES:

1. All dimensions are in inches and may vary $\pm 3/8"$.
2. Not for construction purposes, unless certified.
3. Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $.45" \pm 0.11$ inches vertically above the pump shaft and $0.00" \pm 0.11$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
4. Pump suction and discharge flanges are ANSI Standard flat face.
5. Left-hand (counterclockwise) rotation is not available.
6. Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional $\phi 1.00 \times 2.00$ slots.

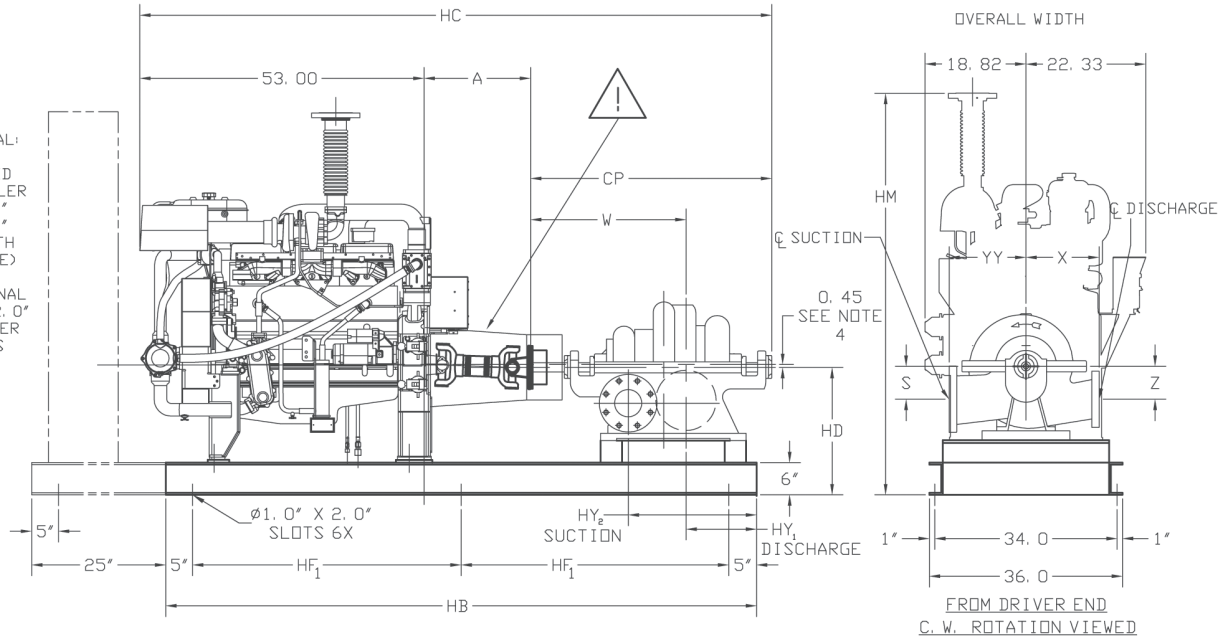
AURORA® PUMPS
MULTI-STAGE HSC FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
DP6H-UFAA50 AND UFAA62
CERTIFIED (EXPORT ONLY)



WARNING

DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.

OPTIONAL:
BASE
MOUNTED
CONTROLLER
ADD 25"
TO "HB"
(LENGTH
OF BASE)
AND 2
ADDITIONAL
1.0" x 2.0"
DIAMETER
SLOTS



ENGINE MODEL: DP6H-UF	A	LISTED DRIVESHAFT*
AA50, AA62	20-3/8	CDS50-SC
*For engine with speed of 1760 & 2100 RPM only.		

ENGINE MODEL: DP6H-UF	A	NON-LISTED DRIVESHAFT*
AA50, AA62	20-3/8	SC81A
*For 2350 RPM use a non-listed driveshaft.		

PUMP SIZE			SUC- TION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF1	HM	YY	HY1	HY2
DISCH	MODEL	CASE BORE															
6	495	17	8	-	10-1/2	31-5/8	16-1/2	10-1/2	52-1/2	118	125-7/8	25	54	72-7/16	16-1/2	18-3/8	31-3/8

NOTES:

1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

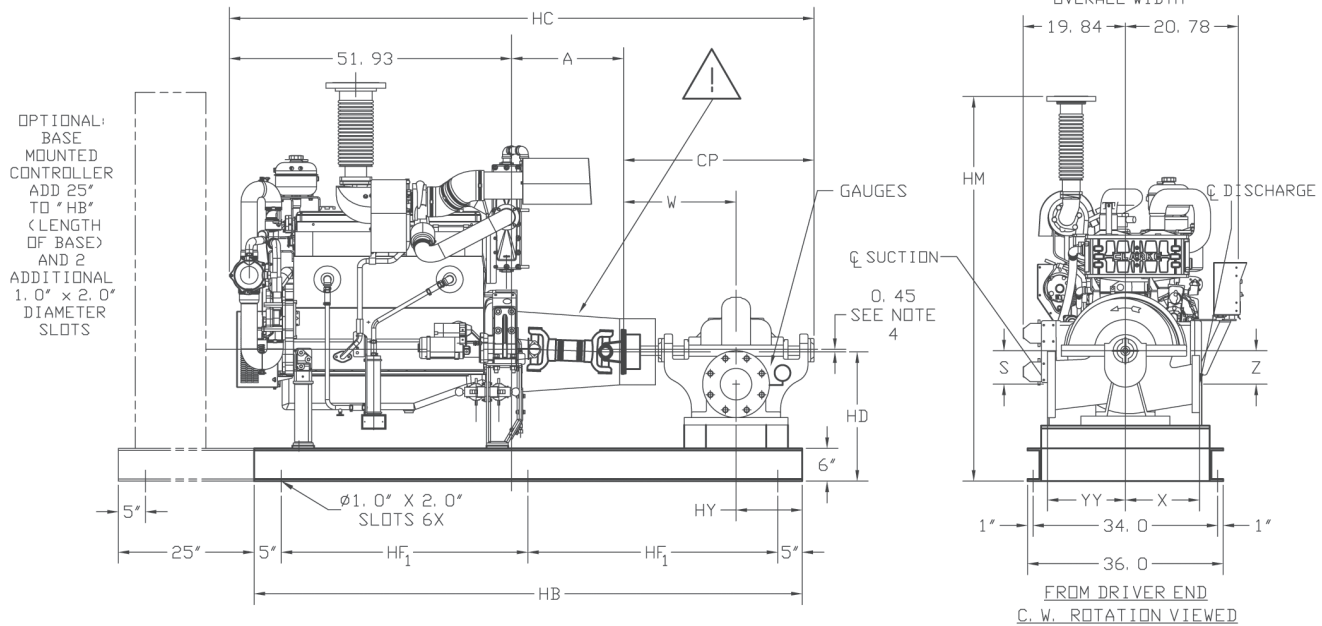
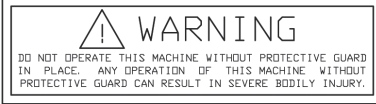
The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.45" ± 0.11 inches vertically above the pump shaft and 0.00" ± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

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PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
6	481	20	8	5	8	18	15.75	8	32	18	1.25	98	24	44	12
8	481	17	10	5	8	18	17	8	32	17.75	1.25	98	24	44	12
8	481	21	10	6B	9.5	21.88	18	9.5	38	21	1.25	108	25	49	18.13
8	481	24	12	7	15	25.25	20	15	43.88	25	1.25	118	32	54	24.75
10	481	18	12	6B	13.5	21.88	18	13.5	38	22	1.25	108	31	49	18.13
10	481	18D	12	7A	12.25	24.25	20	12.25	43	24	1.25	108	31	49	15.75

4. Pump suction and discharge flanges are ANSI Standard flat face.
5. Left-hand (counterclockwise) rotation is not available.
6. Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional $\varnothing 1.00 \times 2.00$ slots.

AURORA® PUMPS
SINGLE-STAGE HSC FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
DQ6H-UFAA48, UFAA4G, UFAA50,
UFAA60, UFAA88, UFAA98
CERTIFIED (EXPORT ONLY)



ENGINE MODEL: DQ6H-UF	A	LISTED DRIVESHAFT
AA48, 4G, 50, 60, 88, 98	20-3/8	CDS50-SC

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF	HM	HY	YY
DISCH	MODEL	CASE BORE														
6	491	18C	10	—	9-3/8	20-5/8	16	11-3/4	35-7/8	108	107-1/4	26	49	75-7/16	19-7/8	20
6	491	19A	10	—	9-3/8	22-5/8	18	12-1/8	39-1/4	108	111-1/2	25	49	74-7/16	17-3/8	22
8	491	18A	12	—	10-3/4	23-3/4	16	12-1/2	41-1/2	108	113-3/4	28	49	77-7/16	16-1/4	22
8	481	24	12	—	13-1/2	28-5/8	20	15	51-1/2	118	123-3/4	31	54	80-7/16	21-3/8	25
10	491	20A	16	—	13	25.56	23	14-1/4	44-9/16	118	116-7/8	32	54	81-7/16	24-7/16	25

NOTES:

1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application puposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.45" ± 0.11 inches vertically above the pump shaft and 0.00" ± 0.11 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® 485 PUMPS

MULTI-STAGE FIRE PUMPS

CLARKE DIESEL ENGINE DRIVE

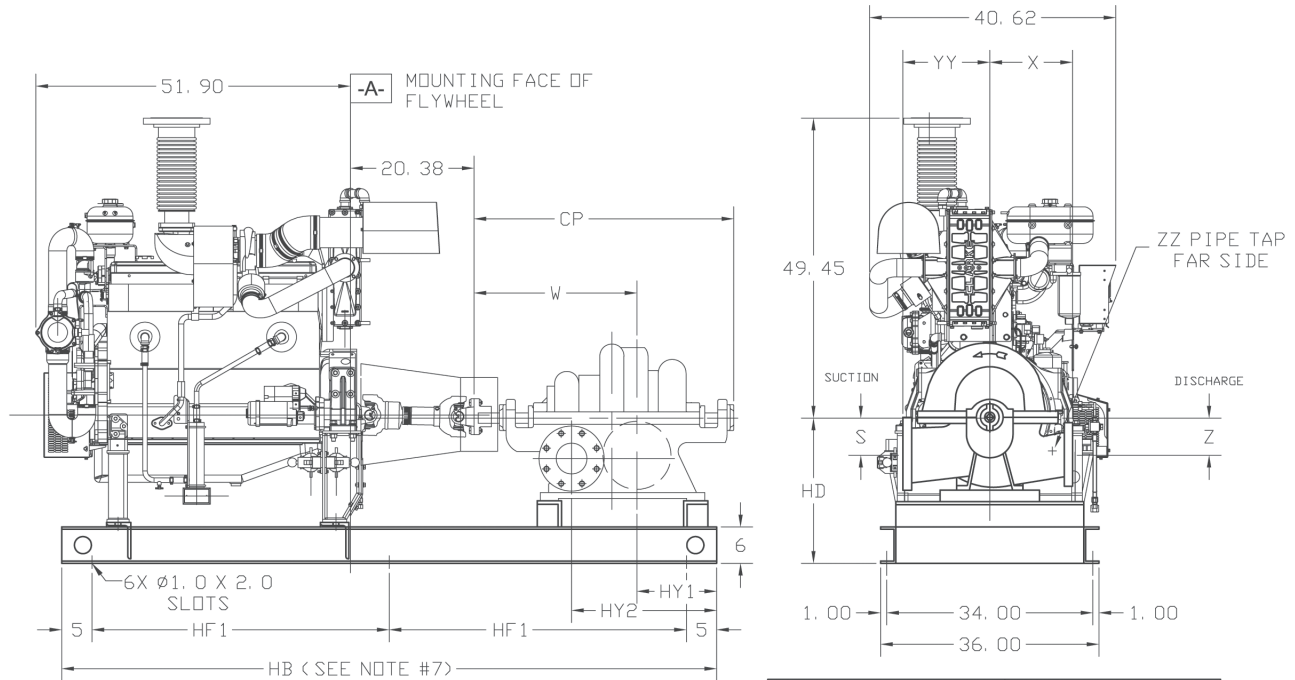
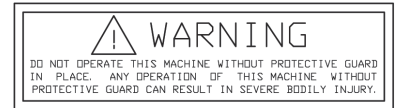
DQ6H-UFAA48, UFAA4G, UFAA50, UFAA60,

UFAA88, UFAA98

CERTIFIED (EXPORT ONLY)

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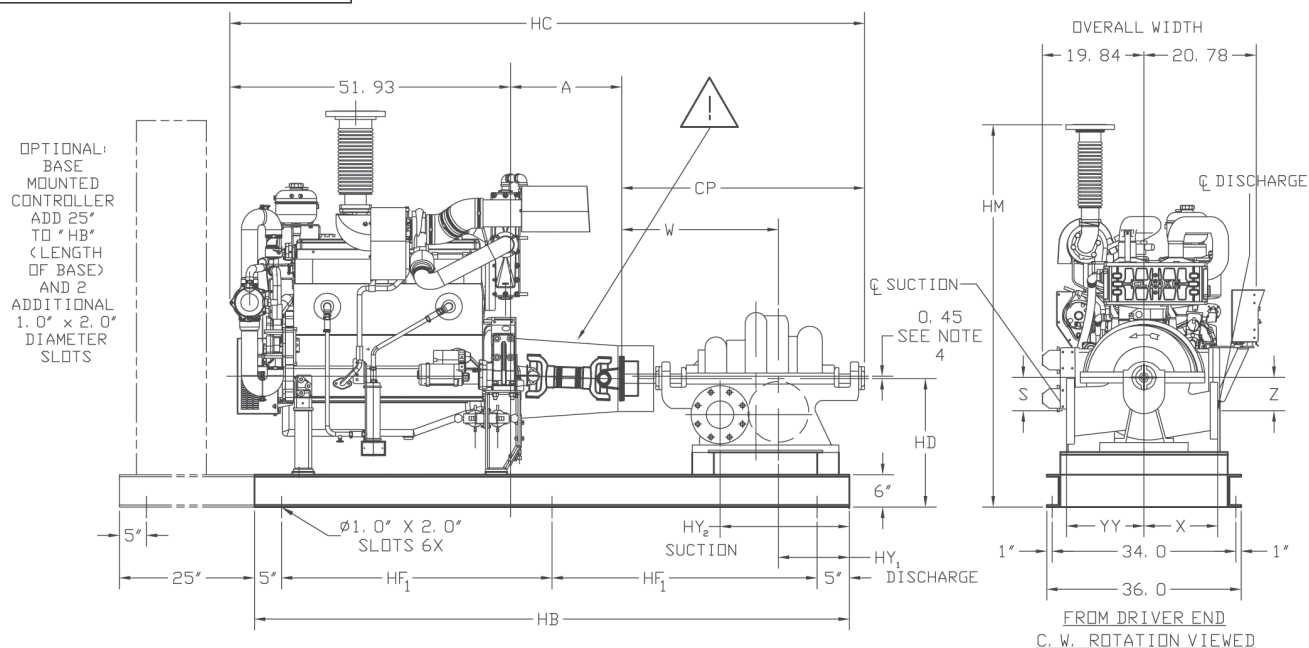
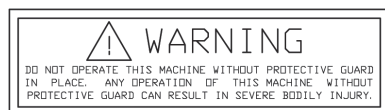
ENGINE MODEL: DQ6H-UFAA__	LISTED DRIVESHAFT
48, 4G, 50, 60, 88, 98	CDS50-SC

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY1	HY2
DISCH	MODEL	CASE BORE														
6	485	16	8	5	8.25	23.63	19	7.75	37.88	17	1.25	108	24	49	16.38	26.88
6	485	17	8	5	7	24.5	16	9	38	16.5	1.25	108	24	49	15.5	26.5

NOTES:

- All dimensions are in inches and may vary $\pm 3/8"$.
- Not for construction purposes, unless certified.
- Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $.45" \pm 0.11$ inches vertically above the pump shaft and $0.00" \pm 0.11$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
- Pump suction and discharge flanges are ANSI Standard flat face.
- Left-hand (counterclockwise) rotation is not available.
- Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional $\phi 1.00 \times 2.00$ slots.

AURORA® PUMPS
MULTI-STAGE FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
DQ6H-UFAA48, UFAA4G, UFAA50,
UFAA60, UFAA88, UFAA98
CERTIFIED (EXPORT ONLY)



ENGINE MODEL: DQ6H-UF____	A	 LISTED DRIVESHAFT
AA48, 4G, 60, 88, 98	20 -3/8	CDS50-SC

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF	HM	YY	HY1	HY2
DISCH	MODEL	CASE BORE															
6	495	17	8	-	10-1/2	31-5/8	16-1/2	10-1/2	52-1/2	118	124-13/16	25	54	74-7/16	16-1/2	18-3/8	31-3/8

NOTES:

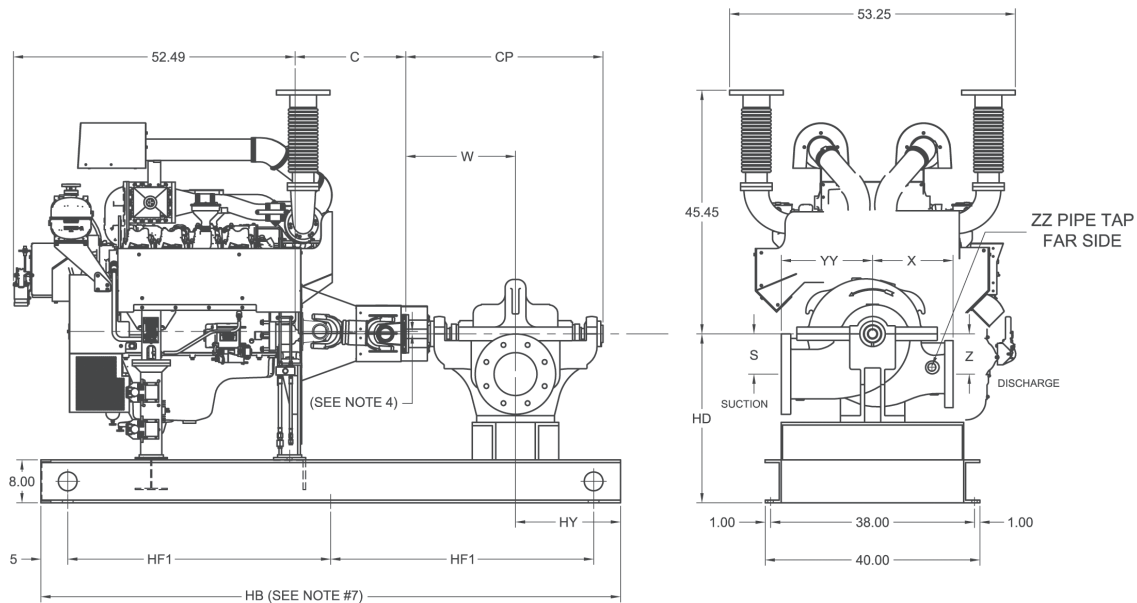
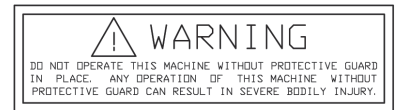
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $0.45^{\circ} \pm 0.11$ inches vertically above the pump shaft and $0.00^{\circ} \pm 0.11$ inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® 481 PUMPS
SINGLE-STAGE FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
DR8H-UFAA40, UFAA5G, UFAA68, UFAA62
CERTIFIED (EXPORT ONLY)

Section **913** Page **281**
 Date **JULY 2013**



ENGINE MODEL	C	NON-LISTED DRIVESHAFT**
ALL DR MODELS	20.63	SC2160A
**For all DR8H Models. There is no listed driveshaft available in this HP range.		

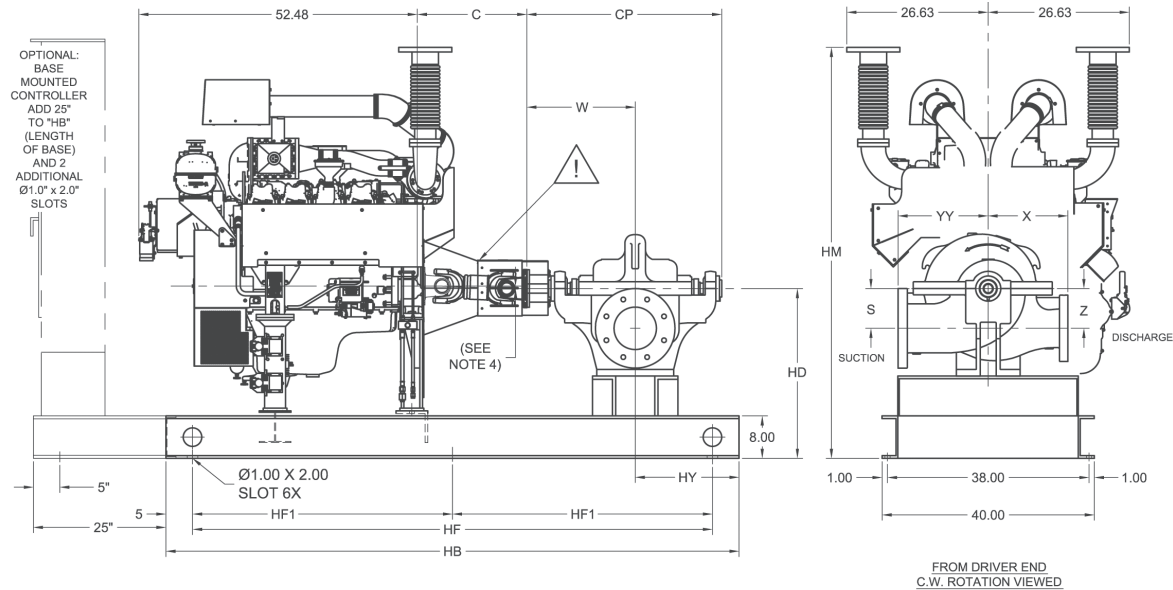
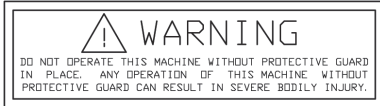
ENGINE MODEL	C	LISTED DRIVESHAFT*
All DR Models	NA	NA
*There are no listed driveshafts for these engines in their HP range.		

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
8	481	21	10	6B	9.5	21.88	18	9.5	38	21	1.25	108	32	49	18.13
8	481	24	12	7	15	25.25	20	15	43.88	25	1.25	118	34	54	24.75
10	481	18	12	6B	13.5	21.88	18	13.5	38	22	2	108	33	49	18.13
10	481	18D	12	7A	12.25	24.25	20.5	12.25	43	24	2	108	33	49	15.75
12	481	18	14	7	15	25.25	18	15	43.88	23	1.25	118	35	54	24.75

NOTES:

1. All dimensions are in inches and may vary $\pm 3/8"$.
2. Not for construction purposes, unless certified.
3. Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $.45" \pm 0.15$ inches vertically above the pump shaft and $0.00" \pm 0.15$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
4. Pump suction and discharge flanges are ANSI Standard flat face.
5. Left-hand (counterclockwise) rotation is not available.
6. Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional $\phi 1.00 \times 2.00$ slots.

AURORA® PUMPS
SINGLE-STAGE HSC FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
DR8H-UFAA40, UFAA5G, UFAA68, UFAA62
CERTIFIED (EXPORT ONLY)



ENGINE MODEL	C	NON-LISTED DRIVESHAFT**	DRIVESHAFT OFFSET DIMENSION
DR8H-UFAA40, 5G, 68, 62	20.63	SC2160A	0.45
**For all DR Models. There is no listed driveshaft available in this HP range.			

ENGINE MODEL	C	UL LISTED DRIVESHAFT*	DRIVESHAFT OFFSET DIMENSION
All DR Models	NA	NA	NA
*There are no listed driveshafts available for these engines.			

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
6	491	19	10	-	9-3/8	22-5/8	18	12-1/8	39-1/4	108	32	98	49	77-7/16	17-3/8	22
8	491	14	12	-	10-3/4	20-1/2	16	10-3/4	36-5/8	108	32	98	49	77-7/16	19-1/2	22
8	491	18	12	-	10-3/4	23-3/4	16	12-1/2	41-1/2	108	32	98	49	77-7/16	16-1/4	22
8	481	24	12	7	13-1/2	28-5/8	20	15	51-1/2	118	33	108	54	78-7/16	21-3/8	25
10	491	20	16	-	13	25-9/16	23	14-1/4	44-9/16	118	35	108	54	80-7/16	24-7/16	25
10	492	18	12	-	11-1/2	25-9/16	21	11-1/2	45-13/16	118	32	108	54	77-7/16	24-7/16	21

NOTES:

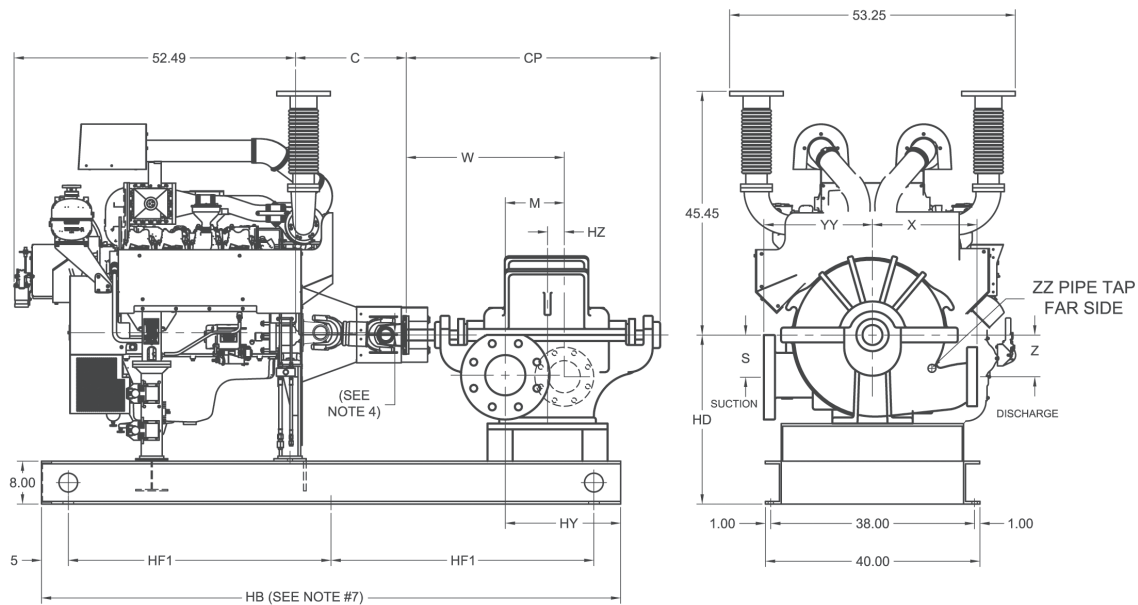
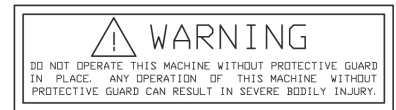
1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.45" ± 0.15 inches vertically above the pump shaft and 0.00" ± 0.15 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® 485 PUMPS
TWO-STAGE FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
DR8H-UFAA40, UFAA5G, UFAA68, UFAA62
CERTIFIED (EXPORT ONLY)

Section **913** Page **283**
 Date **JULY 2013**



ENGINE MODEL	C	NON-LISTED DRIVESHAFT**
ALL DR MODELS	20.63	SC2160A
**For all DR8H Models. There is no listed driveshaft available in this HP range.		

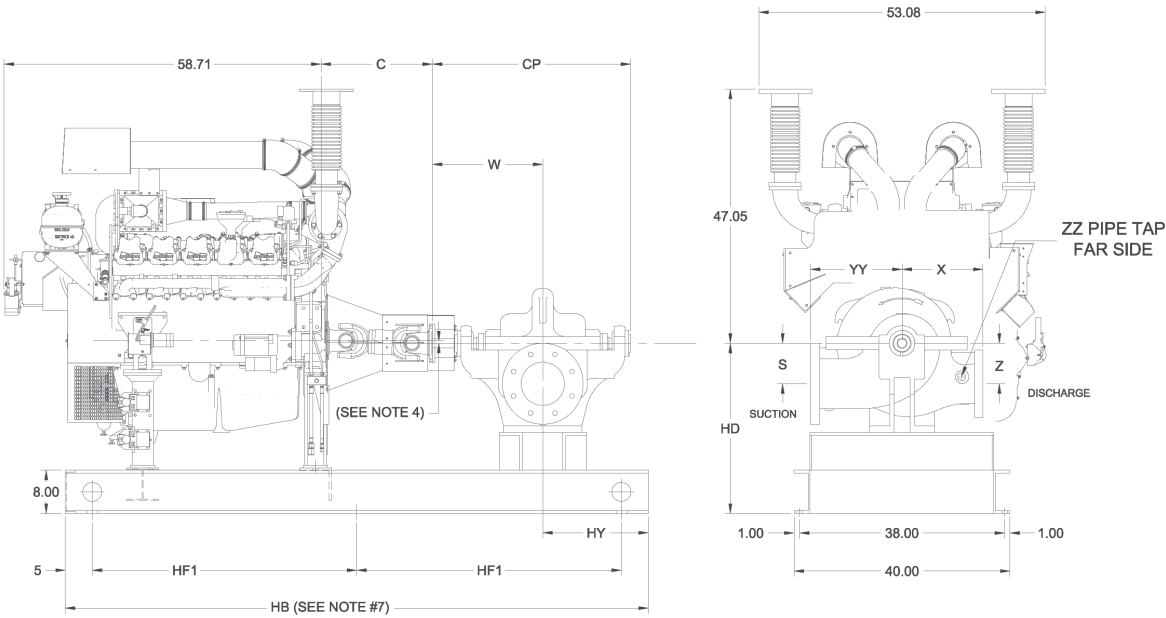
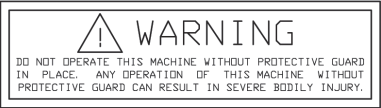
ENGINE MODEL	C	UL LISTED DRIVESHAFT*
All DR Models	NA	NA
*There are no listed driveshafts for these engines in their HP range.		

PUMP SIZE			SUCTION	POWER SERIES	M	S	W	X	Z	CP	HZ	ZZ	YY	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE															
6	485	16	8	5	10.5	8.25	26.63	19	7.75	37.88	2.63	N/A	17	108	32	49	26.88

NOTES:

1. All dimensions are in inches and may vary $\pm 3/8"$.
2. Not for construction purposes, unless certified.
3. Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $.45" \pm 0.15$ inches vertically above the pump shaft and $0.00" \pm 0.15$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
4. Pump suction and discharge flanges are ANSI Standard flat face.
5. Left-hand (counterclockwise) rotation is not available.
6. Optional: base mounted controller (not shown) add 25" to "HB" (length of base) and 2 additional $\phi 1.00 \times 2.00$ slots.

AURORA® 481 PUMPS
SINGLE-STAGE FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
DS0H-UFAA60, UFAA68, UFAAN0
CERTIFIED (EXPORT ONLY)



ENGINE MODEL	C	NON-LISTED DRIVESHAFT**
ALL DS MODELS	20.63	SC2160A
**For all DS0H Models. There is no listed driveshaft available in this HP range.		

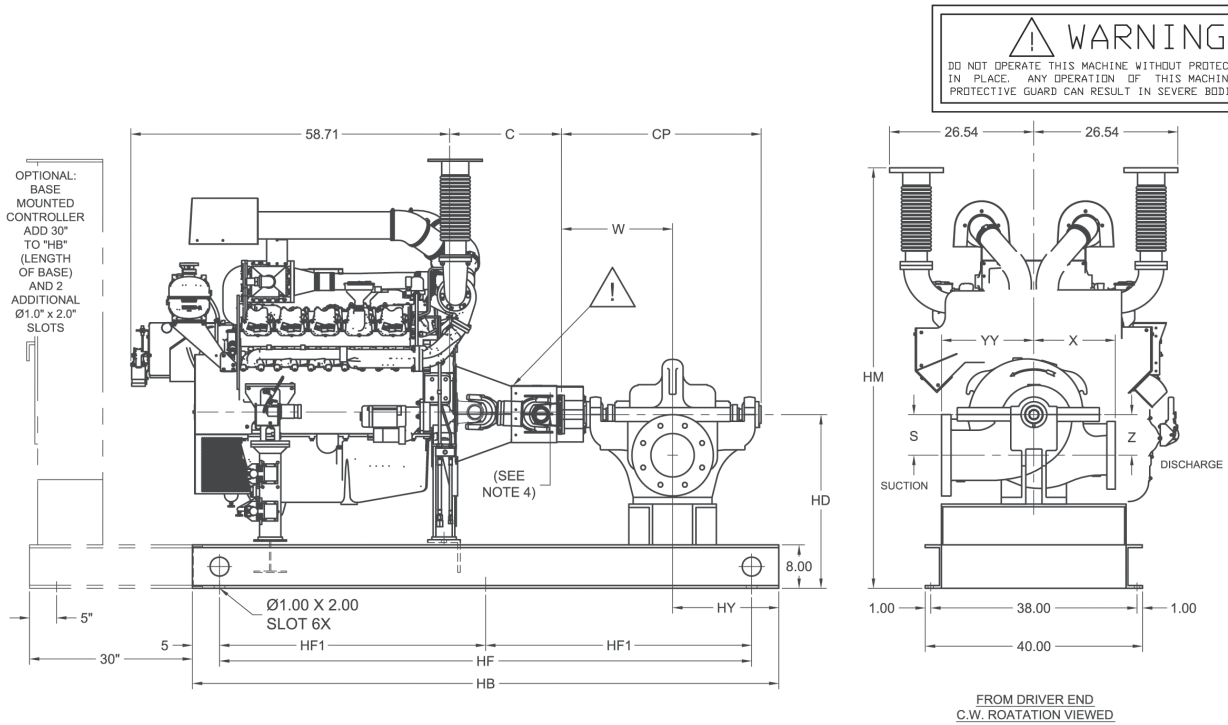
ENGINE MODEL	C	UL LISTED DRIVESHAFT*
All DS Models	NA	NA
*There are no listed driveshafts for these engines in their HP range.		

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HB	HD	HF1	HY
DISCH	MODEL	CASE BORE													
8	481	21	10	6B	9.5	21.88	18	9.5	38	21	2	108	32	49	18.13
8	481	24	12	7	15	25.25	20	15	43.88	25	1.25	118	34	54	24.75
10	481	18D	12	7A	12.25	24.25	20.5	12.25	43	24	2	108	33	49	15.75

- NOTES:
1. All dimensions are in inches and may vary $\pm 3/8"$.
 2. Not for construction purposes, unless certified.
 3. Caution: The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of $.45" \pm 0.15$ inches vertically above the pump shaft and $0.00" \pm 0.15$ inch parallel offset horizontally right or left of the pump shaft. Refer to the Certified Driveshaft Instructions Manual for alignment instructions.
 4. Pump suction and discharge flanges are ANSI Standard flat face.
 5. Left-hand (counterclockwise) rotation is not available.
 6. Optional: base mounted controller (not shown) add $30"$ to "HB" (length of base) and 2 additional $\phi 1.00 \times 2.00$ slots.

AURORA® PUMPS
SINGLE-STAGE HSC FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
DS0H-UFAA60, UFAA68, UFAAN0
CERTIFIED (EXPORT ONLY)

Section **913** Page **285**
 Date **JULY 2013**



ENGINE MODEL	C	NON-LISTED DRIVESHAFT**	DRIVESHAFT OFFSET DIMENSION
DS0H-UFAAN0, 68, 60	20 5/8	SC2160A	0.45
**For all DS Models. There is no listed driveshaft available in this HP range.			

ENGINE MODEL	C	UL LISTED DRIVESHAFT*	DRIVESHAFT OFFSET DIMENSION
All DS Models	NA	NA	NA
*There are no listed driveshafts available for these engines.			

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HD	HF	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE														
10	491	20	16	-	13	25-9/16	23	14-1/4	44-9/16	118	35	108	54	82-1/16	24-7/16	25
10	492	18	12	-	11-1/2	25-9/16	21	11-1/2	45-13/16	118	32	108	54	79-1/16	24-7/16	21

NOTES:

1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

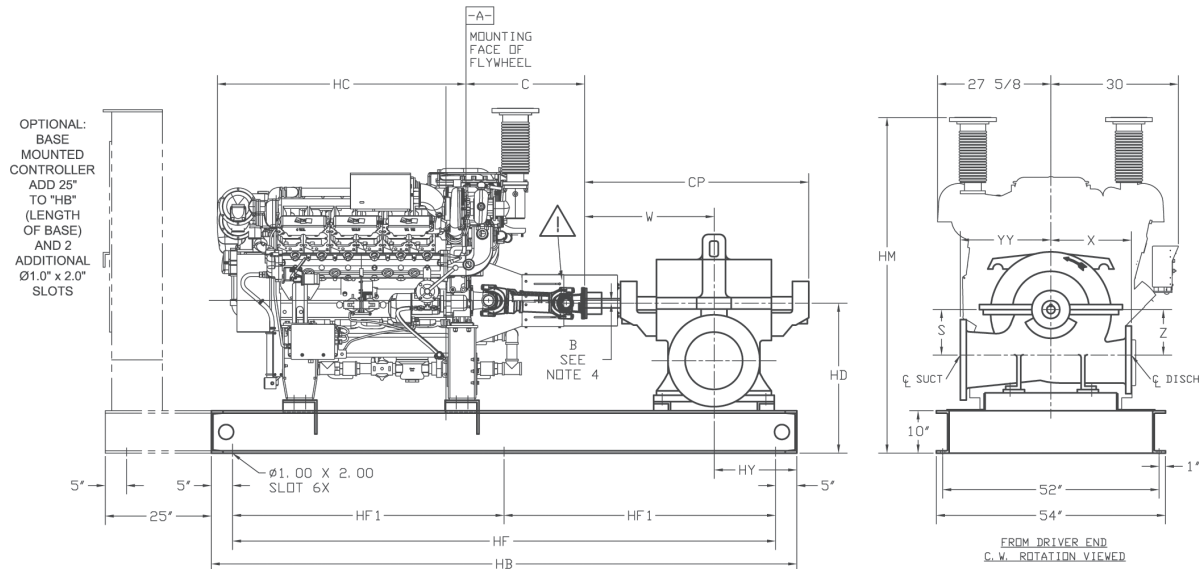
CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of 0.45" ± 0.15 inches vertically above the pump shaft and 0.00" ± 0.15 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.

AURORA® PUMPS
SINGLE-STAGE HSC FIRE PUMPS
CLARKE DIESEL ENGINE DRIVE
DT2H-UFAA60, UFAA92, UFAA98
CERTIFIED (EXPORT ONLY)

WARNING

DO NOT OPERATE THIS MACHINE WITHOUT PROTECTIVE GUARD IN PLACE. ANY OPERATION OF THIS MACHINE WITHOUT PROTECTIVE GUARD CAN RESULT IN SEVERE BODILY INJURY.



NON - LISTED DRIVESHAFTS			
ENGINE MODEL	C	DRIVESHAFT MODEL *	"B" DRIVESHAFT OFFSET DIMENSION
DT2H-UFAA60	20.62	SC2160A	0.45
DT2H-UFAA92 DT2H-UFAA98	27.88	SC2390	0.65

*There are no listed driveshafts for these engine models at this time.

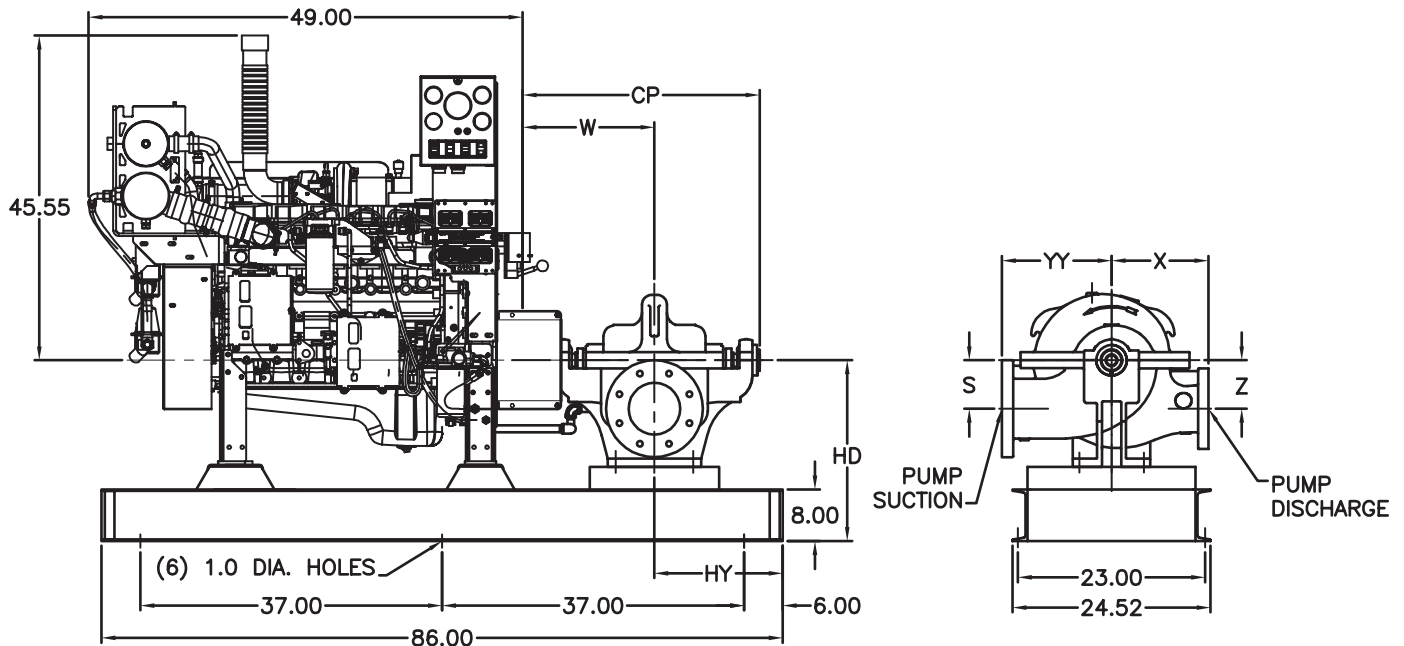
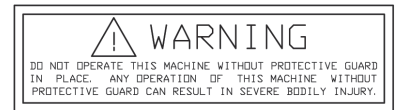
PUMP SIZE			ENGINE MODEL DT2H	SUCTION	POWER SERIES	S	W	X	Z	CP	HB	HC	HD	HF	HF1	HM	HY	YY
DISCH	MODEL	CASE BORE																
10	492	18	UFAA60	12	-	10	25-9/16	21	17-1/2	45-13/16	128	58-7/8	34	118	59	80	24-7/16	21
10	492	18	UFAA92, 98	12	-	10	25-9/16	21	17-1/2	45-13/16	138	58-7/8	34	128	64	80	24-7/16	21
10	491	20	URAA60	16	-	13	25-9/16	23	14-1/4	44-9/16	128	58-7/8	37	118	59	83	24-7/16	25
10	491	20	UFAA92, 98	16	-	13	25-9/16	23	14-1/4	44-9/16	138	58-7/8	37	128	64	83	24-7/16	25

NOTES:

1. Flange ratings are either 125# or 250#. Reducers and/or increasers may be required to meet NFPA Pamphlet 20, Table 2-19.
2. Not for construction, installation or application purposes unless certified. Dimensions shown are typical and may vary due to various tolerances.
3. All bases are required to be completely filled with grout.
4. Unit installation and final driveshaft alignment must be done by the installing contractor.

CAUTION:

The driveshaft is designed to operate at a 2° angle with the input and output shafts in parallel. The engine crankshaft is to be set with a parallel offset of "B" ± 0.15 inches vertically above the pump shaft and 0.00" ± 0.15 inch parallel offset horizontally right or left of the pump shaft. Refer to the certified driveshaft instructions manual for alignment instructions.



RIGHT-HAND PUMP

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL	CASE BORE											
4	481	11/A/C	5	3	5	14.5	11.25	5	26	12.75	1.25	24.75	25.19
4	481	11D	5	3	5	14.5	12	5	26	12.75	1.25	24.75	25.19
4	491	11	6	-	6.88	16.63	11.25	7.13	29.69	14	0.75	22.62	25.19
4	491	14C	6	-	6.88	17.63	13	8.38	31.69	15.25	0.75	21.62	25.19
4	481	15	5	3	5.5	14.5	13	5.5	26	14	1.25	24.75	25.19
4	492	18	5	-	9.5	18.38	14	9.5	33.25	14	0.75	21	25.19
5	481	15	6	4	6.25	16	13.25	6.25	28.5	15	1.25	23.25	25.19
5	481	17	6	4	6.25	16	14	6.25	28.5	15	1.25	23.25	25.19
6	481	11	8	4	6.25	16	11.75	6.25	28.5	14.5	1.25	23.25	25.19
6	481	11HH*	8	4A	8.63	18.13	10	8.63	33.88	15	1.25	21.13	28.19
6	481	14HH*	8	5A	7.5	20.5	15	7.5	36.75	17	1.25	18	28.19
6	491	14	10	-	9.38	20.13	13.25	10	35.88	18	1	19.14	28.19
6	481	15	8	5	6.75	18	14.25	6.75	32	16.75	1.25	21.25	25.19
6	481	18	8	5	8	18	16	8	32	18	1.25	21.25	25.19
6	481	20	8	5	8	18	15.75	8	32	18	1.25	21.25	25.19
8	481	12	10	5	8	18	17	9	32	17.75	1.25	21.25	25.19
8	481	17B	10	5	8	18	17	8	32	17.75	1.25	21.25	25.19

NOTES:

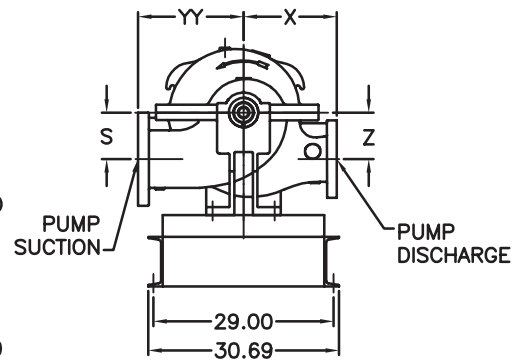
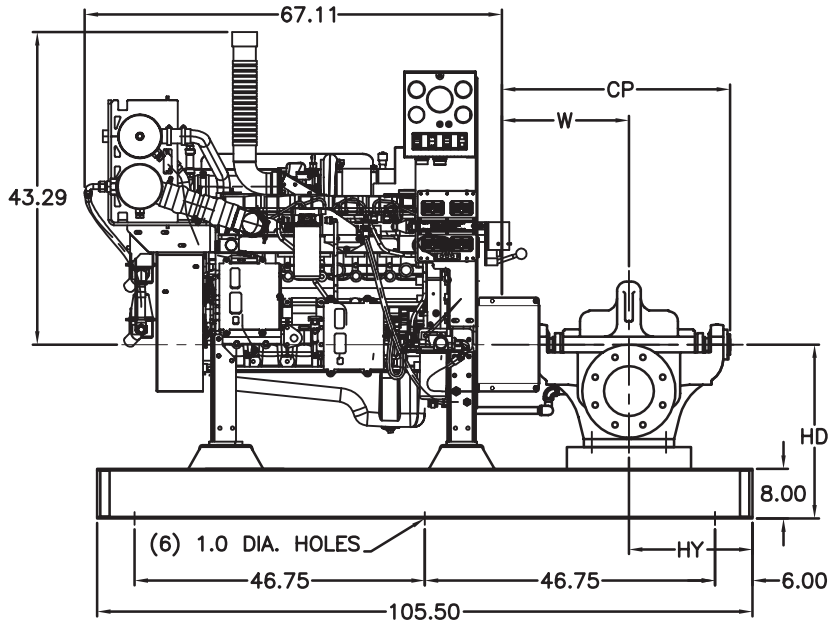
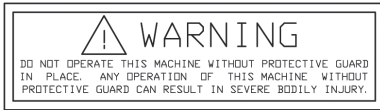
- All dimensions are in inches and may vary $\pm 3/8"$.
- Not for construction purposes, unless certified.
- Suction and discharge flanges are ANSI Standard flat face.
- Refer to individual engine dimension print for reference point used to determine overall engine length.
- Left hand (counterclockwise)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

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

AURORA® 481 FIRE PUMPS

SINGLE-STAGE FIRE PUMP

CUMMINS CFP7E DIESEL ENGINES



RIGHT-HAND PUMP

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL	CASE BORE											
5	481	17	6	4	6.25	16	14	6.25	28.5	15	1.25	22.19	27.75
6	481	14HH*	8	5A	7.5	20.5	15	7.5	36.75	17	1.25	17.75	27.75
6	481	15	8	5	6.75	18	14.25	6.75	32	16.75	1.25	20.19	27.75
6	481	18	8	5	8	18	16	8	32	18	1.25	20.19	27.75
6	481	20	8	5	8	18	15.75	8	32	18	1.25	20.19	27.75
8	481	17B	10	5	8	18	17	8	32	17.75	2	20.19	27.75
8	481	21/A	10	6B	9.5	21.88	18	9.5	38	21	2	16.31	31.75
8	481	24	12	7	15	25.25	20	15	43.88	25	1.25	12.94	36.75
10	481	18	12	6B	13.5	21.88	18	13.5	38	22	2	16.31	36.75
10	481	18D	12	7A	12.25	24.25	20	12.25	43	24	2	13.94	36.75
12	481	18A	14	7	15	25.25	18	15	43.88	23	2	12.94	36.75

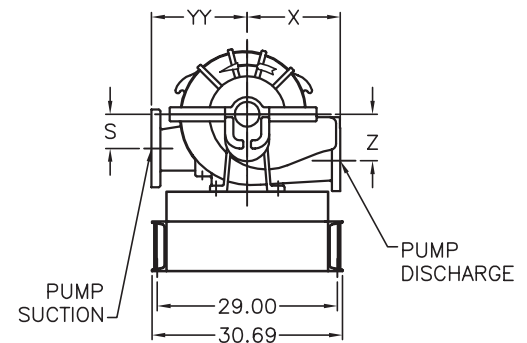
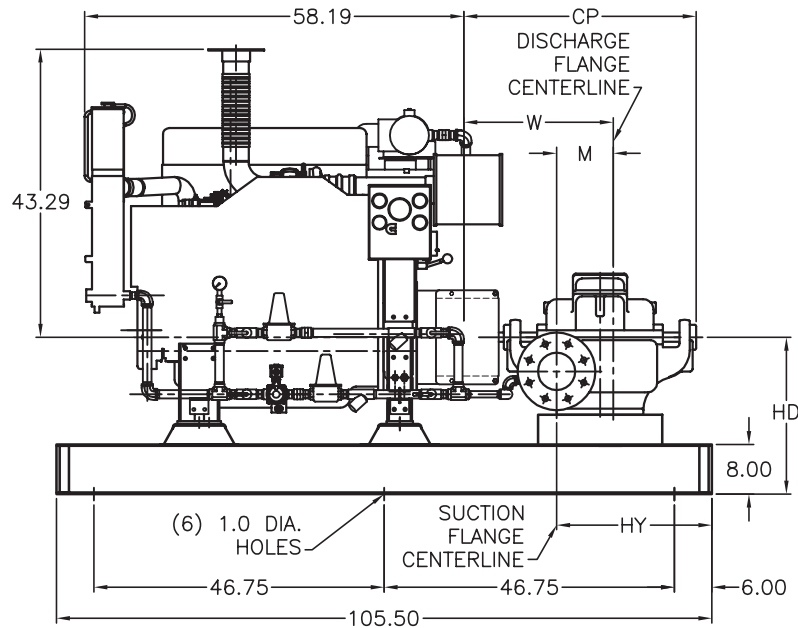
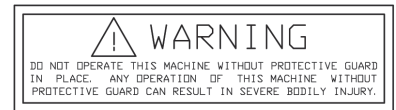
NOTES:

1. All dimensions are in inches and may vary $\pm 3/8"$.
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 overall engine length.
5. Left hand (counterclockwise) rotation is not available.
6. The driveshaft is not designed to operate at a 0° angle. The engine crankshaft is to be parallel offset of 0.50 ± 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

AURORA® MODEL 485
TWO-STAGE FIRE PUMPS
CUMMINS CFP7E DIESEL ENGINES

Section **913** Page **289**

Date **May 2017**
Supersedes **JULY 2013**



RIGHT-HAND PUMP

PUMP SIZE			SUCTION	POWER SERIES	S	M	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE												
6	485	12	6	5A	8	7.5	22.88	13	8	31	13.5	1.25	27.75	23.06
6	485	16	8	5	8.25	10.5	23.63	19	7.25	37.88	17	1.25	27.75	25.06
6	485	17A	8	5	7	11	24.5	16	9	38	16.5	1.25	27.75	24.69

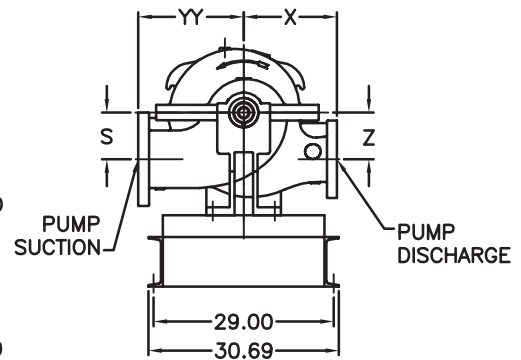
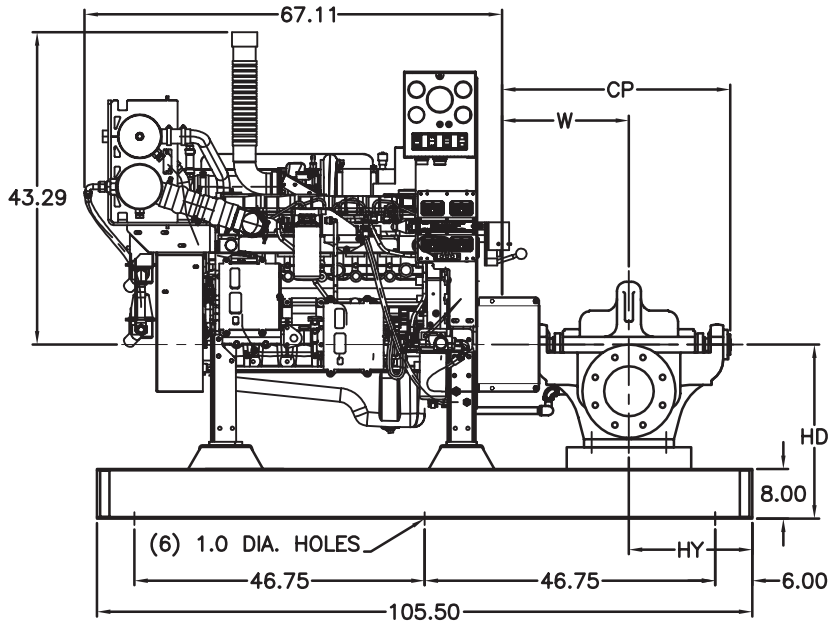
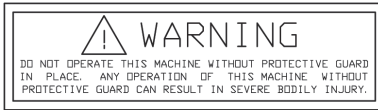
NOTES:

- All dimensions are in inches and may vary $\pm 3/8"$.
- Not for construction purposes, unless certified.
- 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 (counterclockwise) rotation is not available.
- The driveshaft is not designed to operate at a 0° angle. The engine crankshaft is to be parallel offset of 0.50 ± 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

AURORA® 490 FIRE PUMPS

SINGLE-STAGE FIRE PUMP

CUMMINS CFP7E DIESEL ENGINE DRIVE



RIGHT-HAND PUMP

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL	CASE BORE											
4	491	14C	6	-	6.88	17.63	13	8.38	31.69	15.25	0.75	20.56	27.75
5	491	14A	8	-	8.25	17.63	13.5	9.75	31.69	17.25	1	20.56	27.75
5	491	18A	8	-	8.13	18.88	15	10.63	33.38	18.75	1	19.31	27.75
6	491	14A/C	10	-	9.38	20.13	13.25	10	35.88	18	1	18.06	31.75
6	491	18C	10	-	9.38	20.13	16	11.75	35.88	20	1	18.06	31.75
6	491	19A	10	-	9.38	22.63	18	12.13	39.25	22	1	15.56	31.75
8	491	14A	12	-	10.75	20.13	16	10.75	36.63	22	1	17.69	31.75
10	491	20*	16	-	13	25.69	23	14.25	44.56	25	1	12.63	36.75

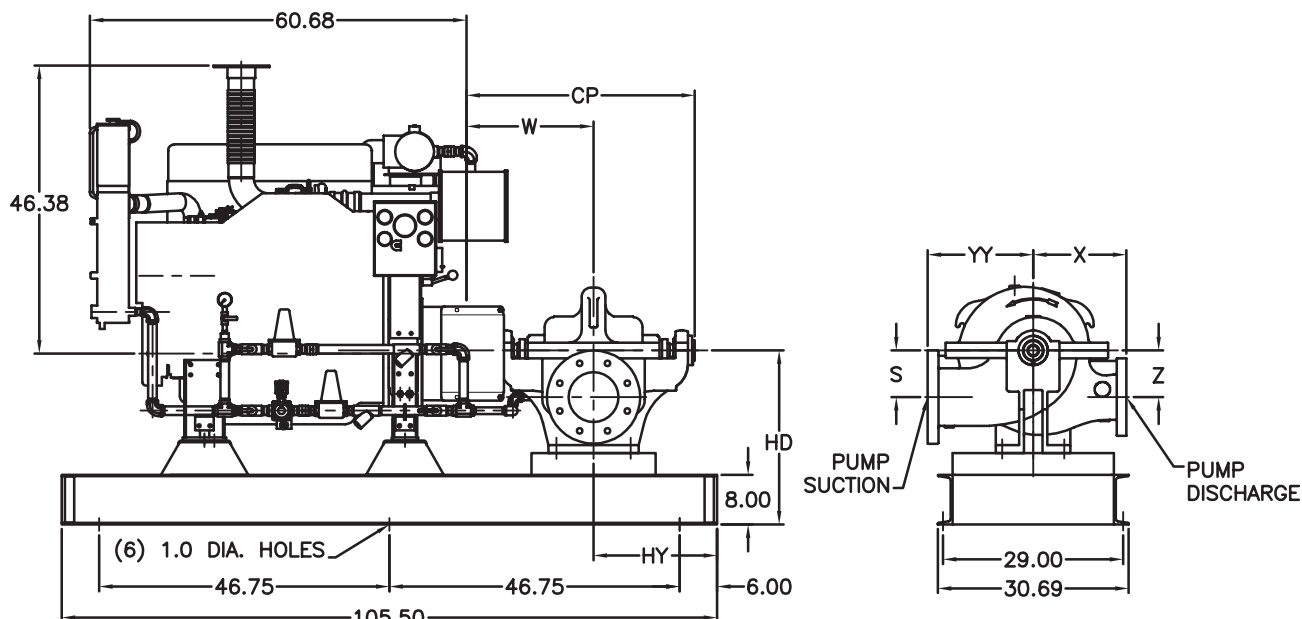
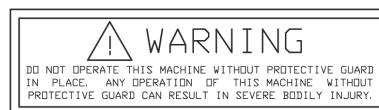
- NOTES:
- All dimensions are in inches and may vary $\pm 3/8"$.
 - Not for construction purposes, unless certified.
 - Suction and discharge flanges are ANSI Standard flat face.
 - Refer to individual engine dimension print for reference point used to determine overall engine length.
 - Left hand (counterclockwise) rotation is not available.
 - The driveshaft is not designed to operate at a 0° angle. The engine crankshaft is to be parallel offset of 0.50 ± 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

* Pump size 10–491–20 is furnished as standard with 125# suction flange and 250# discharge flange.

**AURORA® MODELS 481, 491
AND 492 PUMPS**
SINGLE-STAGE FIRE PUMP
CUMMINS CFP9E DIESEL ENGINE DRIVE

Section **913** Page **291**

Date **JULY 2013**



RIGHT-HAND PUMP

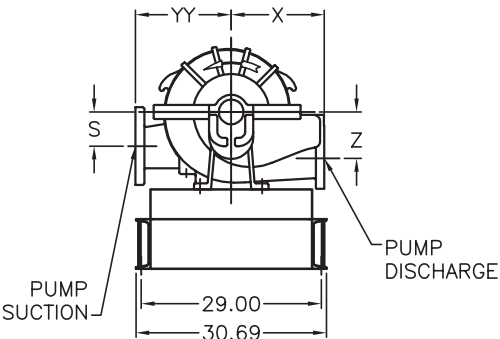
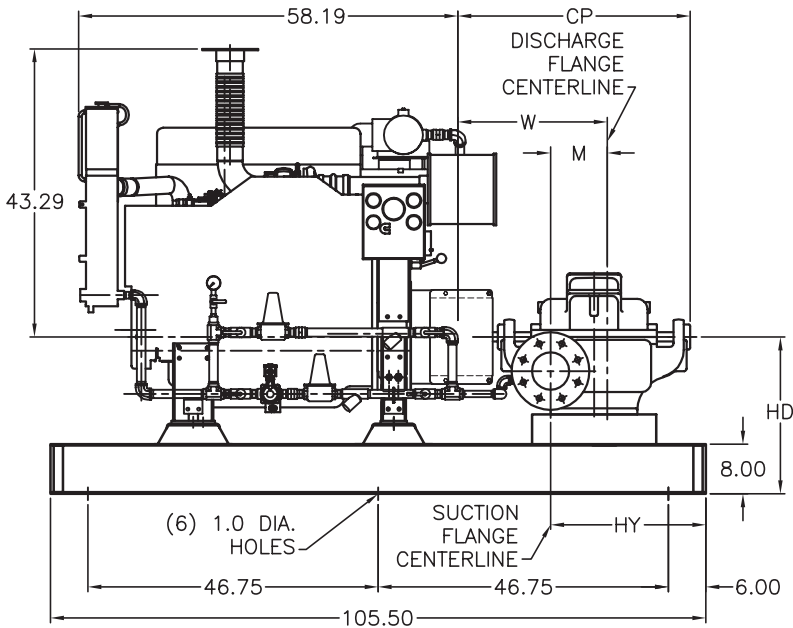
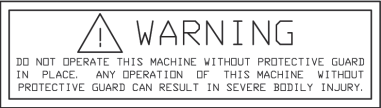
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE											
5	491	14A	8	-	8.25	17.63	13.5	9.75	31.69	17.25	1	27.81	12.38
5	491	18A	8	-	8.13	18.88	15	10.63	31.38	18.75	1	27.81	11.13
6	491	14A	10	-	9.38	20.13	13.25	10	31.38	18.75	1	31.81	24.38
6	491	18C	10	-	9.38	20.13	16	11.75	35.88	20	1	31.81	24.38
6	491	19A	10	-	9.38	22.63	18	12.13	35.88	18	1	31.81	21.88
6	481	20	8	5	8	18	15.75	8	32	18	1.25	27.81	12
8	491	14A	12	-	10.75	20.5	16	10.75	36.63	22	1	31.81	24
8	481	17B	10	5	8	18	17	8	32	17.75	1.25	27.81	12
8	491	18A	12	-	10.75	23.75	16	12.5	41.5	22	1	31.81	20.75
8	481	21/A	10	6B	9.5	21.88	18	9.5	38	21	1.25	27.81	22.63
8	481	24	12	7	15	25.25	20	15	43.88	25	1.25	36.81	19.25
10	481	15C	12	6B	13.5	21.88	18	13.5	38	20	1.25	36.81	22.63
10	481	18	12	6B	13.5	21.88	18	13.5	38	22	1.25	36.81	22.63
10	492	18	12	-	11.5	25.56	21	11.5	45.81	21	1	31.81	18.94
10	481	18D	12	7A	12.25	24.31	20	12.25	43	24	1.25	36.81	20.25
10	491	20*	16	-	15	25.25	20	15	43.88	25	1.25	36.81	18.94
12	481	18A	14	7	15	25.25	18	15	43.88	23	1.25	36.81	19.25

NOTES:

- All dimensions are in inches and may vary $\pm 3/8"$.
- Not for construction purposes, unless certified.
- 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 (counterclockwise) rotation is not available.
- The driveshaft is not designed to operate at a 0° angle. The engine crankshaft is to be parallel offset of 0.50 ± 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

* Pump size 10-491-20 is furnished as standard with 125# suction flange and 250# discharge flange.

AURORA® MODEL 485
TWO-STAGE FIRE PUMPS
CUMMINS CFP9E DIESEL ENGINES



RIGHT-HAND PUMP

PUMP SIZE			SUCTION	POWER SERIES	S	M	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE												
6	485	16	8	5	8.25	10.5	23.63	19	7.25	37.88	17	1.25	27.81	16.88
6	485	17A	8	5	7	11	24.5	16	9	38	16.5	1.25	27.81	16.5

- NOTES:
1. All dimensions are in inches and may vary $\pm 3/8"$.

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 overall engine length.

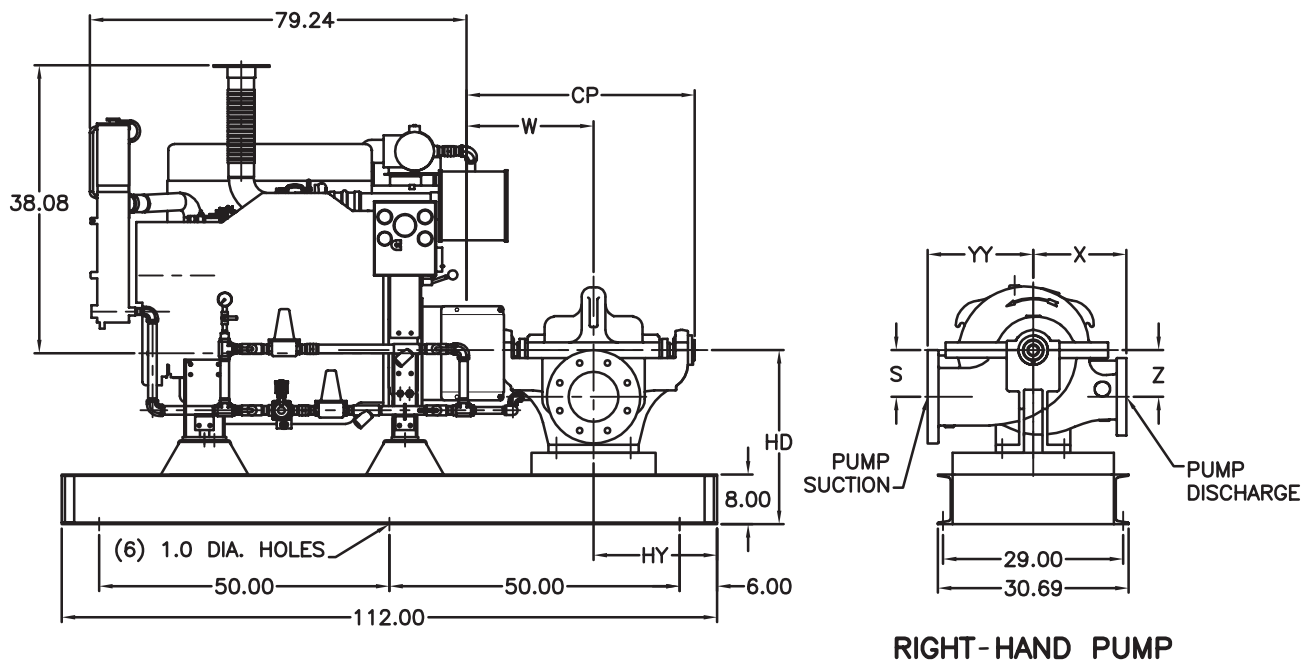
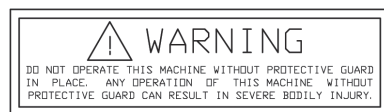
5. Left hand (counterclockwise) rotation is not available.

6. The driveshaft is not designed to operate at a 0° angle. The engine crankshaft is to be parallel offset of 0.50 ± 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

**AURORA® MODELS 481, 491
AND 492 PUMPS**
SINGLE-STAGE FIRE PUMP
CUMMINS CFP11E DIESEL ENGINE DRIVE

Section **913** Page **293**

Date **JULY 2013**



PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE											
6	491	18C	10	-	9.38	20.13	16	11.75	35.88	20	1	29.88	10.63
6	481	20	8	5	8	18	15.75	8	32	18	1.25	29.88	12.75
8	481	12	10	5	8	18	17	9	32	17.75	1.25	29.88	12.75
8	481	17B	10	5	8	18	17	8	32	17.75	1.25	29.88	12.75
8	491	18A	12	-	10.75	23.75	16	12.5	41.5	22	1	32.88	15
8	481	21/A	10	6B	9.5	21.88	18	9.5	38	21	1.25	29.88	8.88
8	481	24	12	7	15	25.25	20	15	43.88	25	1.25	35.88	13.5
10	481	18	12	6B	13.5	21.88	18	13.5	38	22	1.25	35.88	8.88
10	492	18	12	-	11.5	25.56	21	11.5	45.81	21	1	32.88	13.19
10	481	18D	12	7A	12.25	24.31	20	12.25	43	24	1.25	35.88	14.5
10	491	20*	16	-	15	25.25	20	15	43.88	25	1.25	35.88	13.19
12	481	18A	14	7	15	25.25	18	15	43.88	23	1.25	35.88	13.5

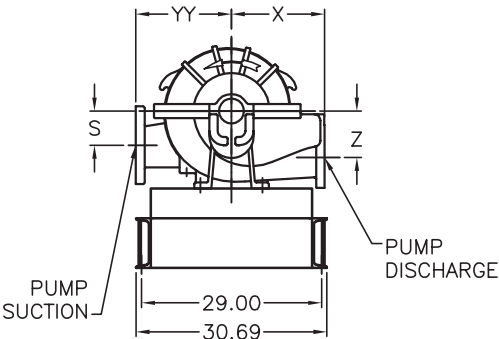
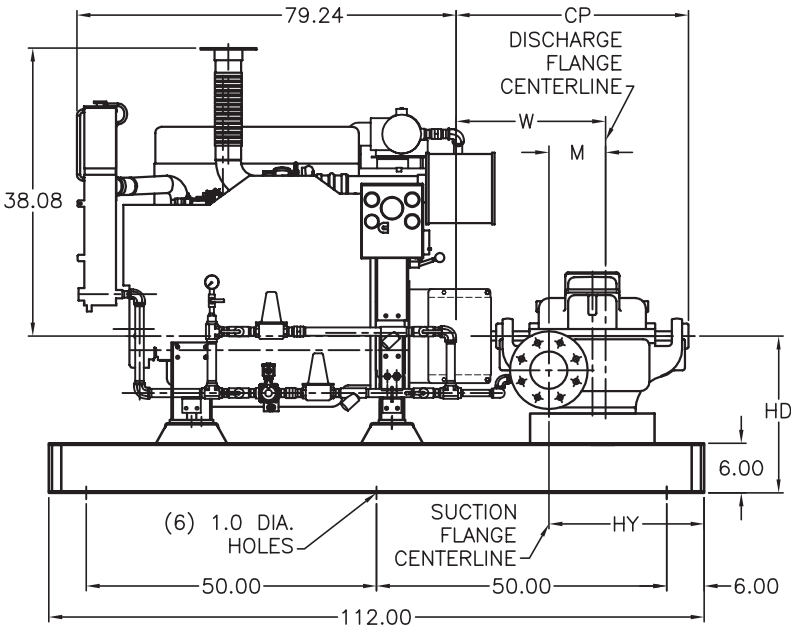
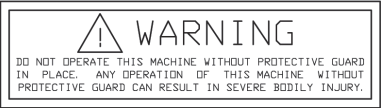
NOTES:

1. All dimensions are in inches and may vary $\pm 3/8"$.
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 overall engine length.
5. Left hand (counterclockwise) rotation is not available.

6. The driveshaft is not designed to operate at a 0° angle. The engine crankshaft is to be parallel offset of 0.50 ± 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

* Pump size 10-491-20 is furnished as standard with 125# suction flange and 250# discharge flange.

AURORA® MODEL 485
TWO-STAGE FIRE PUMPS
CUMMINS CFP11E DIESEL ENGINES



RIGHT-HAND PUMP

PUMP SIZE			SUCTION	POWER SERIES	S	M	W	X	Z	CP	YY	XX	HD	HY
DISCH	MODEL	CASE BORE												
6	485	16	8	5	8.25	10.5	23.63	19	7.25	37.88	17	1.25	29.88	22.13
6	485	17A	8	5	7	11	24.5	16	9	38	16.5	1.25	29.88	21.75

- NOTES:
1. All dimensions are in inches and may vary $\pm 3/8"$.

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 overall engine length.

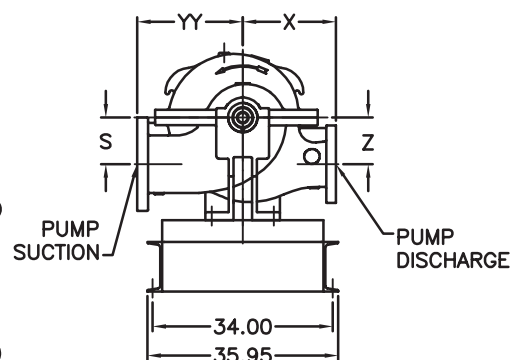
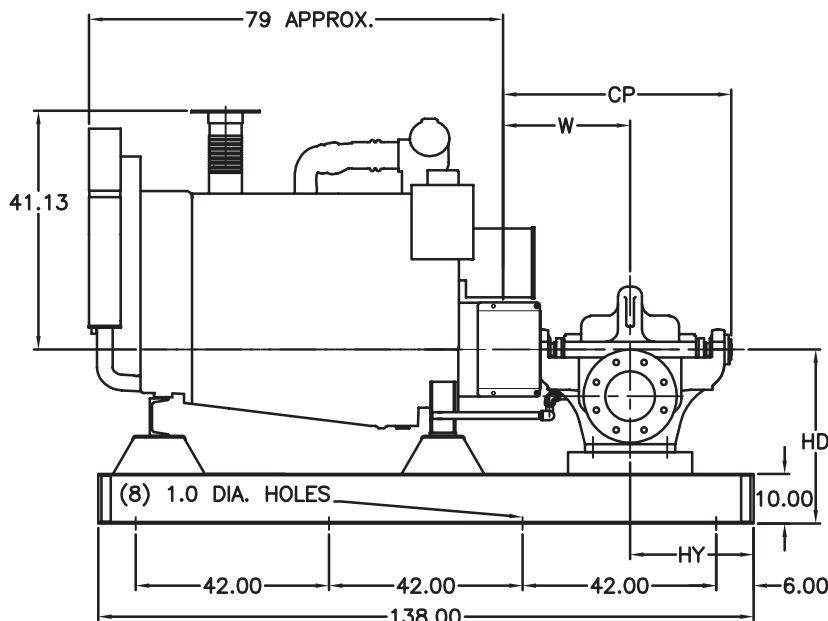
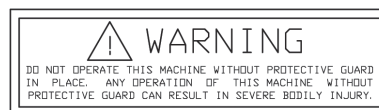
5. Left hand (counterclockwise) rotation is not available.

6. The driveshaft is not designed to operate at a 0° angle. The engine crankshaft is to be parallel offset of 0.50 ± 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

**AURORA® MODELS 481, 491
AND 492 FIRE PUMPS**
SINGLE-STAGE FIRE PUMP
CUMMINS CFP15E DIESEL ENGINE DRIVE

Section **913** Page **295**

Date **JULY 2013**



RIGHT-HAND PUMP

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE											
5	491	18A	8	-	8.13	18.88	15	10.63	33.38	18.75	1	35.13	27.13
6	491	14C	10	-	9.38	20.13	13.25	10	35.88	18	1	35.13	25.88
6	491	19A	10	-	9.38	22.63	18	12.13	39.25	22	1	35.13	23.38
8	481	17B	10	5	8	18	17	8	32	17.75	1.25	35.13	26.88
8	491	18A	12	-	10.75	23.75	16	12.5	41.5	22	1	35.13	22.25
8	481	21/A	10	6B	9.5	21.88	18	9.5	38	21	2	35.13	24.13
8	481	24	12	7	15	25.25	20	15	43.88	25	1.25	37.13	20.75
10	481	15C	12	6B	13.5	21.88	17	13.5	38	20	1.25	37.13	24.13
10	481	18	12	6B	13.5	21.88	18	13.5	38	22	2	37.13	24.13
10	481	18D	12	7A	12.25	24.25	20	12.25	43	24	2	37.13	21.69
10	492	18	12	-	11.5	25.56	21	11.5	45.81	21	1	35.13	20.44
10	491	20*	16	-	13	25.56	23	14.25	44.56	25	1	37.13	20.44
12	481	18	12	7	15	25.25	18	15	43.88	23	2	37.13	20.75

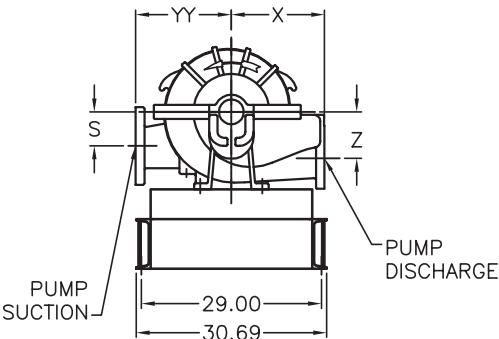
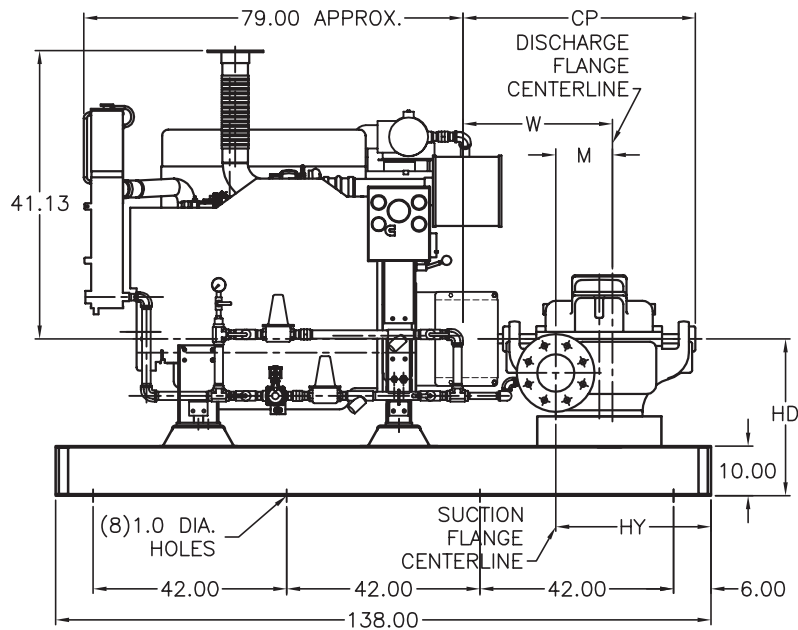
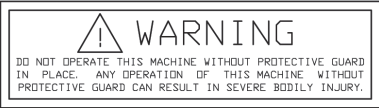
NOTES:

1. All dimensions are in inches and may vary $\pm 3/8"$.
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 overall engine length.
5. Left-hand (counterclockwise) rotation is not available.

6. The driveshaft is not designed to operate at a 0° angle. The engine crankshaft is to be parallel offset of 0.50 ± 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

* Pump size 10-491-20 is furnished as standard with 125# suction flange and 250# discharge flange.

AURORA® MODEL 485
TWO-STAGE FIRE PUMPS
CUMMINS CFP15E DIESEL ENGINES



RIGHT-HAND PUMP

PUMP SIZE			SUCTION	POWER SERIES	S	M	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE												
6	485	16	8	5	8.25	10.5	23.63	19	7.25	37.88	17	1.25	35.13	32.88
6	485	17A	8	5	7	11	24.5	16	9	38	16.5	1.25	35.13	32.5

- NOTES:
1. All dimensions are in inches and may vary $\pm 3/8"$.

2. Not for construction purposes, unless certified.

3. Suction and discharge flanges are ANSI Standard flat face.

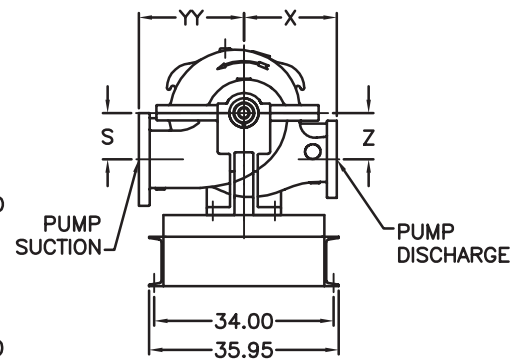
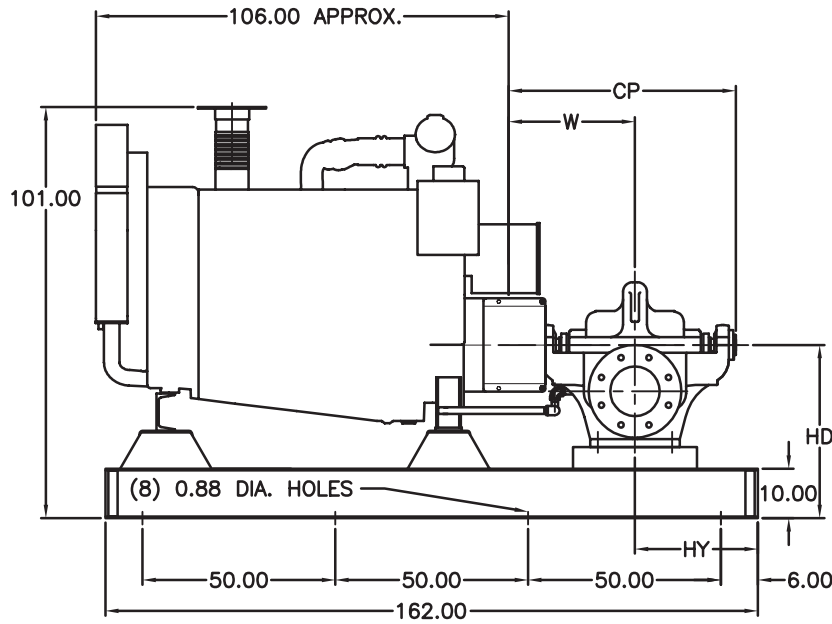
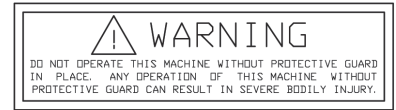
4. Refer to individual engine dimension print for reference point used to determine overall engine length.

5. Left-hand (counterclockwise) rotation is not available.

6. The driveshaft is not designed to operate at a 0° angle. The engine crankshaft is to be parallel offset of 0.50 ± 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

AURORA® 491 FIRE PUMPS
SINGLE-STAGE FIRE PUMPS
CUMMINS CFP23E DIESEL ENGINE DRIVE

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 Date **JULY 2013**



RIGHT-HAND PUMP

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE											
10	491	20	16	-	13	25.56	23	14.25	44.56	25	1	37.88	23.19

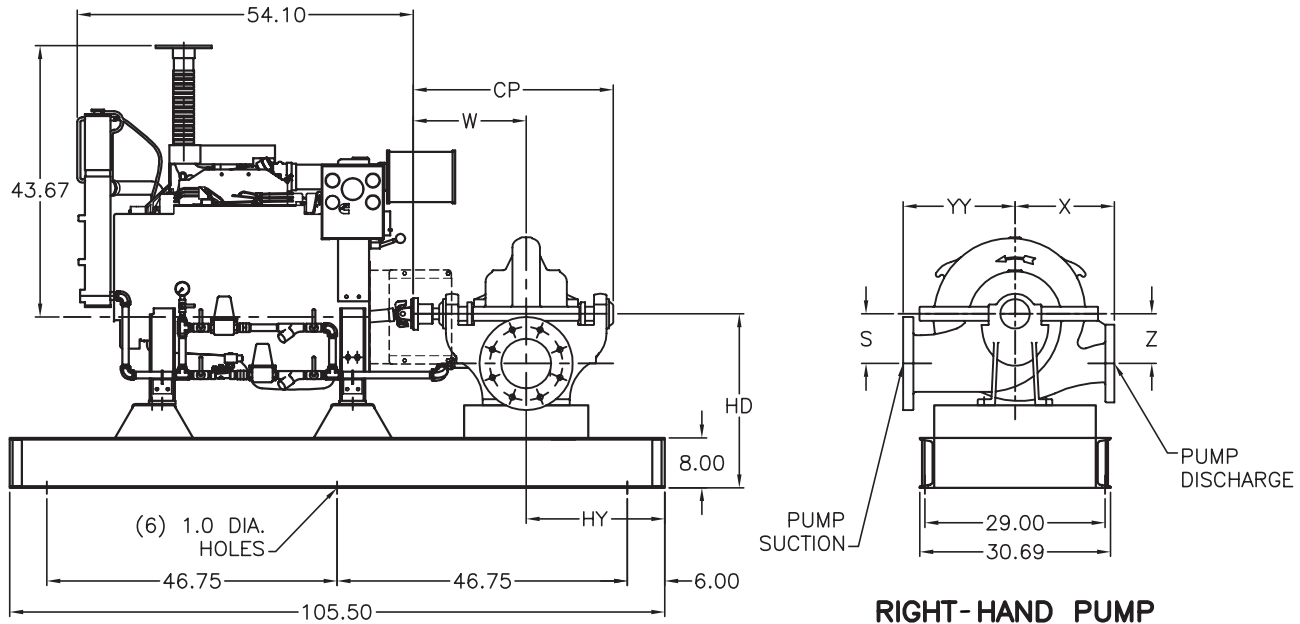
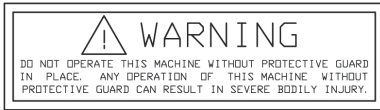
NOTES:

- All dimensions are in inches and may vary $\pm 3/8"$.
- Not for construction purposes, unless certified.
- 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 (counterclockwise) rotation is not available.
- The driveshaft is not designed to operate at a 0° angle. The engine crankshaft is to be parallel offset of 0.50 ± 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

AURORA® 481 FIRE PUMPS

SINGLE-STAGE FIRE PUMP

CUMMINS CFP59 DIESEL ENGINES



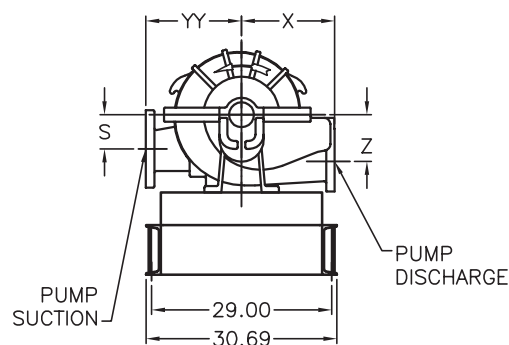
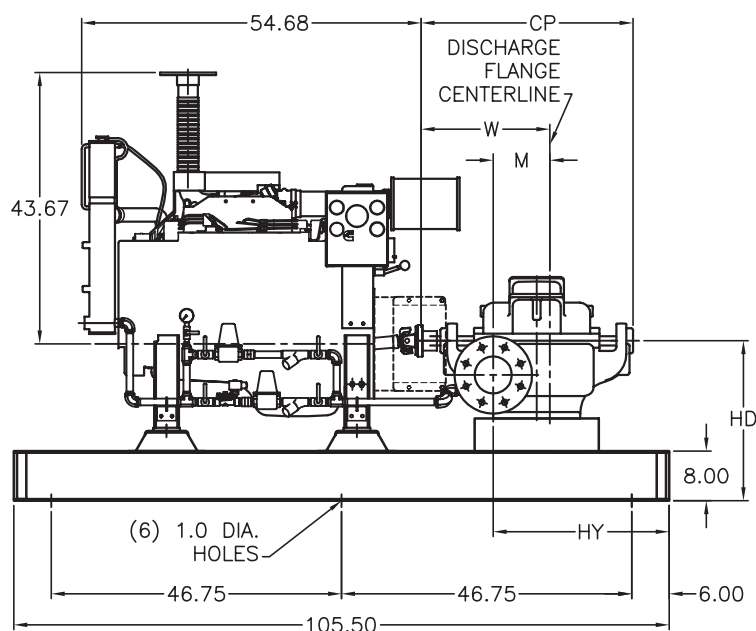
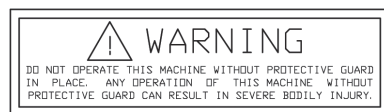
PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL	CASE BORE											
4	481	15	5	3	5.5	14.5	13	5.5	26	14	1.25	25.38	25.69
5	481	15	6	4	6.25	16	13.25	6.25	28.5	15	1.25	23.88	25.69
5	481	17	5	4	6.25	16	14	6.25	28.5	15	1.25	23.88	25.69
6	481	11HH*	6	4A	8.63	18.13	10	8.63	32.88	15	1.25	21.75	27.69
6	481	14HH*	8	5A	7.5	20.44	15	7.5	36.75	17	1.25	19.38	27.69
6	481	15	8	5	6.75	18	14.25	6.75	32	16.75	1.25	21.88	27.69
6	481	18B/C	8	5	8	18	16	8	32	18	1.25	21.88	27.69
6	481	20	8	5	8	18	15.75	8	32	18	1.25	21.88	27.69
8	481	17C	10	5	8	18	17	8	32	17.75	1.25	21.88	27.69
8	481	21	10	6B	9.5	21.88	18	9.5	38	21	1.25	18	31.69
10	481	18	12	6B	13.5	21.88	18	13.5	38	22	2	18	36.69
10	481	18D	12	7A	12.25	24.25	20	12.25	43	24	2	15.63	36.69

- NOTES:
- All dimensions are in inches and may vary $\pm 3/8"$.
 - Not for construction purposes, unless certified.
 - 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 (counterclockwise) rotation is not available.
 - The driveshaft is not designed to operate at a 0° angle. The engine crankshaft is to be parallel offset of 0.50 ± 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.
- * Pump sizes 6-481-11HH and 14HH are furnished as standard with 125# suction flange and 250# discharge flange.

AURORA® MODEL 485
TWO-STAGE FIRE PUMPS
CUMMINS CFP59 DIESEL ENGINES

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Date **JULY 2013**



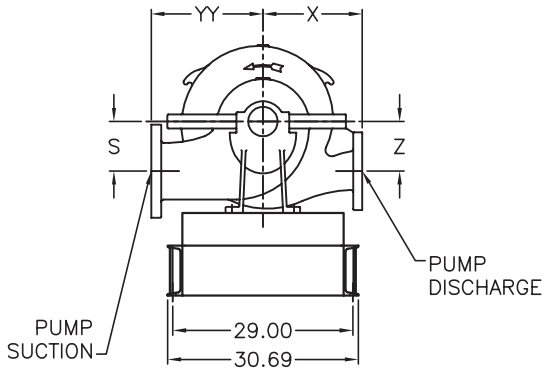
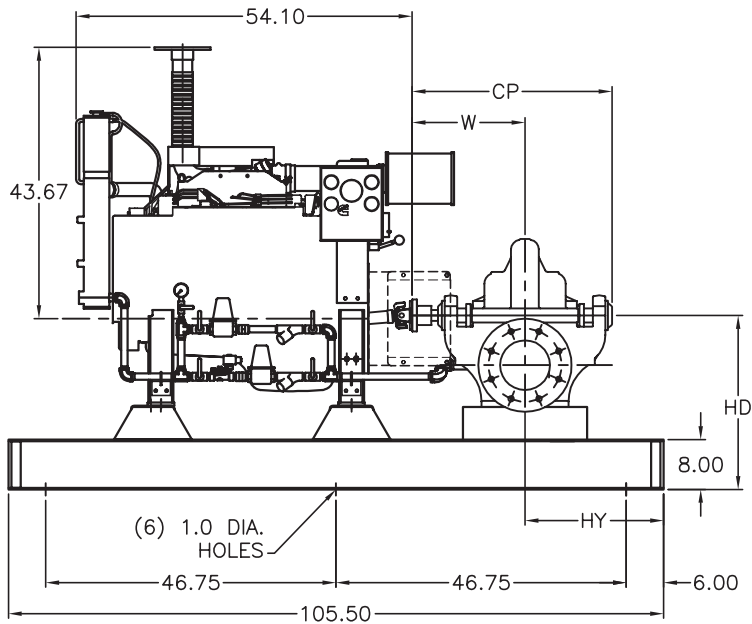
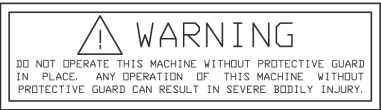
RIGHT-HAND PUMP

PUMP SIZE			SUCTION	POWER SERIES	S	M	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE												
4	485	15	5	3	5	7.13	18.88	13	6.5	31	13.5	1.25	25.69	30.88
6	485	12	6	5A	8	7.5	22.88	14	8	38.5	14	1.25	27.69	24.75
6	485	16/B	8	5	8.25	10.5	23.63	19	7.25	37.88	17	1.25	27.69	26.75
6	485	17A	8	5	7	11	24.5	16	9	38	16.5	1.25	27.69	26.38

NOTES:

1. All dimensions are in inches and may vary $\pm 3/8"$.
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 overall engine length.
5. Left-hand (counterclockwise) rotation is not available.
6. The driveshaft is not designed to operate at a 0° angle. The engine crankshaft is to be parallel offset of 0.50 ± 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

AURORA® 491 AND 492
SINGLE-STAGE FIRE PUMPS
CUMMINS CFP59 DIESEL ENGINES



RIGHT-HAND PUMP

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HD	HY
DISCH	MODEL	CASE BORE											
4	491	14C	6	-	6.88	17.63	13	8.38	31.69	15.25	3/4	27.69	22.25
4	492	18	5	-	9.5	18.38	14	9.5	33.25	14	3/4	27.69	21.5
5	491	18A	8	-	8.13	18.88	15	10.63	33.38	18.75	1	27.69	21
6	491	12A	6	-	6.88	16.63	20.5	7.13	29.69	14	1	27.69	23.25
6	491	14A/C	10	-	9.38	20.13	13.25	10	35.88	18	1	31.69	19.75
6	492	18	8	-	9.63	22.5	16	9.63	40.13	16	1	27.69	17.38
8	491	14A	12	-	10.75	20.5	16	10.75	36.63	22	1	36.69	19.88

- NOTES:
1. All dimensions are in inches and may vary $\pm 3/8"$.

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 overall engine length.

5. Left-hand (counterclockwise) rotation is not available.

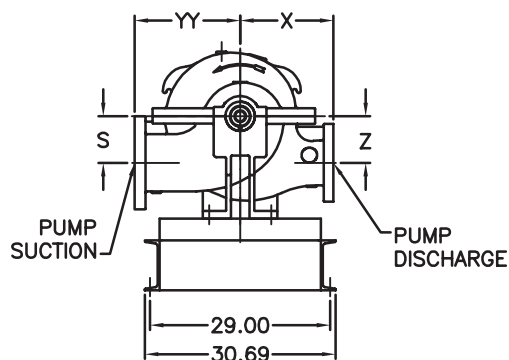
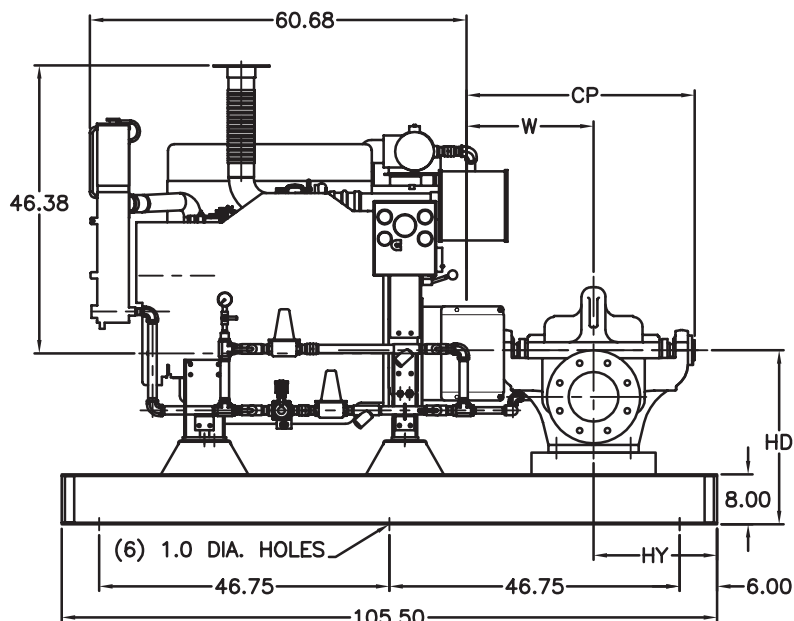
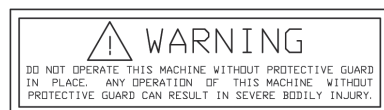
6. The driveshaft is not designed to operate at a 0° angle. The engine crankshaft is to be parallel offset of 0.50 ± 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

AURORA® MODELS 481, 491 AND 492 PUMPS

SINGLE-STAGE FIRE PUMP
CUMMINS CFP83 DIESEL ENGINE DRIVE

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Date **JULY 2013**



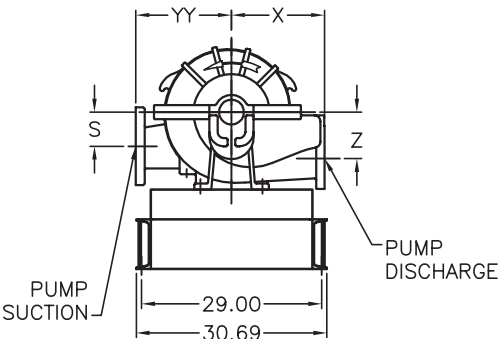
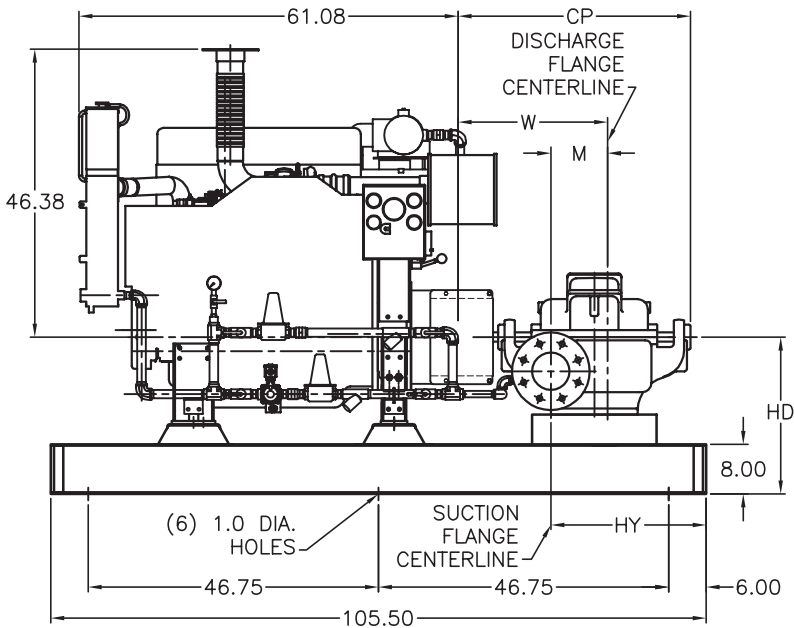
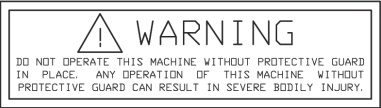
RIGHT-HAND PUMP

PUMP SIZE			SUCTION	POWER SERIES	S	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL	CASE BORE											
5	491	18A	8	-	8.13	18.88	15	10.63	31.38	18.75	1	19.13	27.75
6	481	15	8	5	6.75	18	14.25	6.75	32	16.75	1.25	20	27.75
6	481	18B/C	8	5	8	18	16	8	32	18	1.25	20	27.75
6	491	18C	10	-	9.38	20.13	16	11.75	35.88	20	1	17.88	31.75
6	492	18	8	-	9.63	22.5	16	8.63	40.13	16	1	15.5	27.75
6	481	20	8	5	8	18	15.75	8	32	18	1.25	20	27.75
8	481	12	10	5	8	18	17	9	32	17.75	1.25	20	27.75
8	481	17B	10	5	8	18	17	8	32	17.75	2	20	27.75
8	491	18A	12	-	10.75	23.75	16	12.5	41.5	22	1	14.25	31.75
8	481	21/A	10	6B	9.5	21.88	18	9.5	38	21	1.25	16.13	31.75
8	481	24	12	7	15	25.25	20	15	43.88	25	1.25	12.75	36.75
10	481	18	12	6B	13.5	21.88	18	13.5	38	22	1.25	16.13	36.75
10	481	18D	12	7A	12.25	24.31	20	12.25	43	24	1.25	13.75	36.75

NOTES:

1. All dimensions are in inches and may vary $\pm 3/8"$.
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 overall engine length.
5. Left-hand (counterclockwise) rotation is not available.
6. The driveshaft is not designed to operate at a 0° angle. The engine crankshaft is to be parallel offset of 0.50 ± 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.

AURORA® MODEL 485
TWO-STAGE FIRE PUMPS
CUMMINS CFP83 DIESEL ENGINES



RIGHT-HAND PUMP

PUMP SIZE			SUCTION	POWER SERIES	S	M	W	X	Z	CP	YY	ZZ	HY	HD
DISCH	MODEL	CASE BORE												
6	485	16	8	-	8.25	10.5	23.63	19	7.25	37.88	17	1.25	17	27.75
6	485	17A	8	5	7	11	24.5	16	9	38	16.5	1.25	17	27.75

- NOTES:
1. All dimensions are in inches and may vary $\pm 3/8"$.
 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 overall engine length.
 5. Left-hand (counterclockwise) rotation is not available.
 6. The driveshaft is not designed to operate at a 0° angle. The engine crankshaft is to be parallel offset of 0.50 ± 0.25 inch. The engine crankshaft may be parallel offset from the pump shaft 0.50 inch right or left.