HCP PUMP

Series	**AF**
Modelo	**100(150)AFE422**
Frecuencia	**50**
Fase / Voltaje	**3 Ø / 380 V**
Corriente Nominal	**43.8 A**
Descarga	**100 mm (4")**



Datos del Motor

Potencia de Entrada - P1	25.2 kW
Potencia Nominal - P2	22 kW
Clase de Aislamiento	H
Cantidad Máxima de Arranques por Hora	5
Velocidad de Rotación Estándar	1450
Método de Arranque	STAR-DELTA/DOL
Índice de Protección IP	IP68
A Prueba de Explosiones	NO

Tecnología

Tipo de Impulsor	Channel
Sello Mecánico	Double
Aceite Lubricante VG32	4000 CC
Paso Sólido	76 mm (3")
Tipo de Refrigeración	External cooling
Camisa de Refrigeración	NO

Material

Bastidor del Motor	FC200 (GG-20)
Eje	SUS420J2 (X30Cr13)
Carcasa	FC200 (GG-20)
Impulsor	FC200 (GG-20)
Sello Mecánico	CA/CE&SiC/SiC
Cable	VCT,H07RN-F
Rodamientos Superior e Inferior	6309ZZ,6312ZZ

Fluido

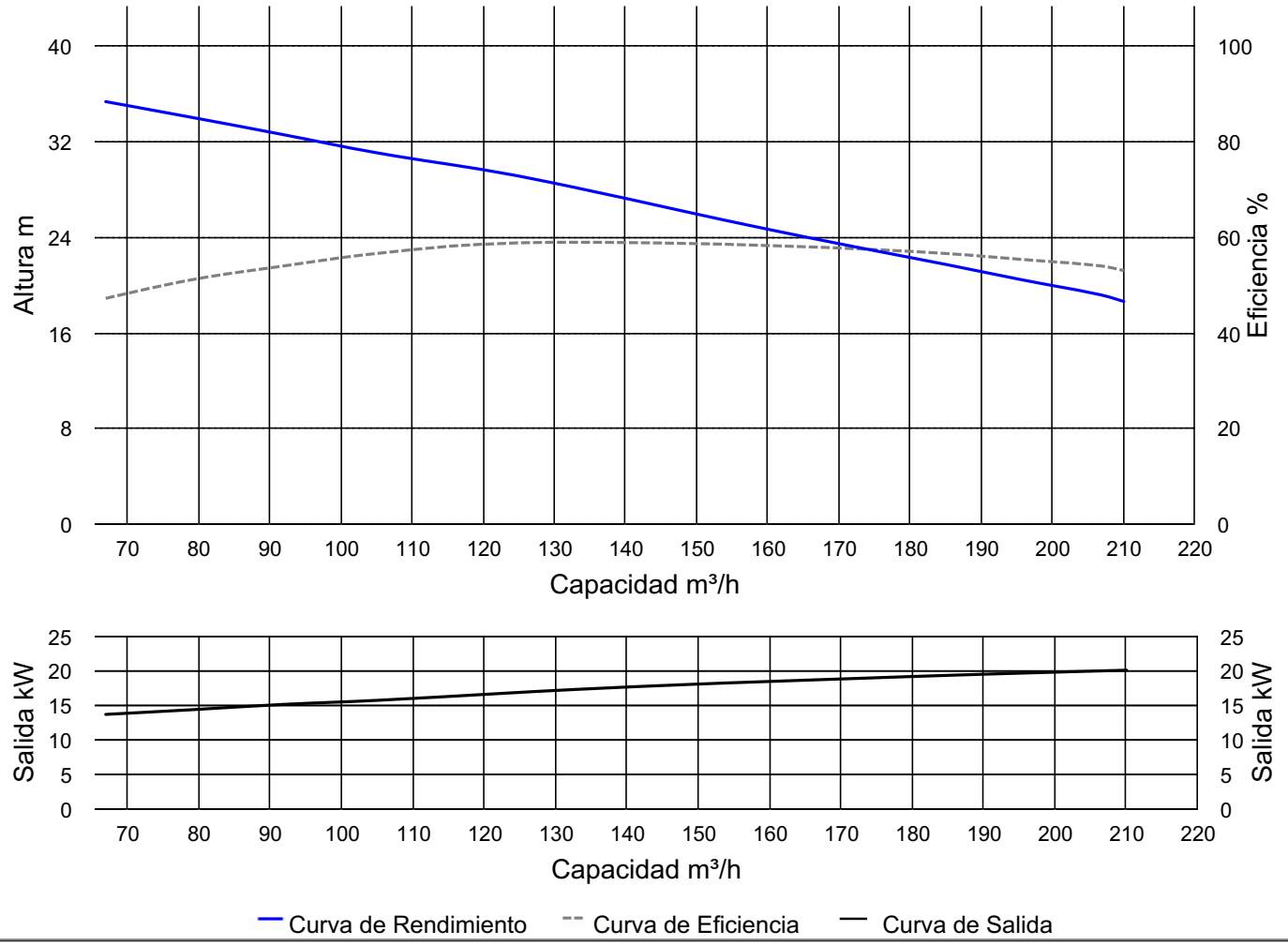
Temperatura Ambiente Máxima	0~40°C (32~104°F)
Profundidad Máxima de Instalación	20m (66ft)
Temperatura Máxima del Fluido	40 °C (104°F)
Fluido Bombeado	Sewage

Otros (Opcional)

Dispositivo de Protección	MTS
Sensor de Humedad	MS

HCP PUMP

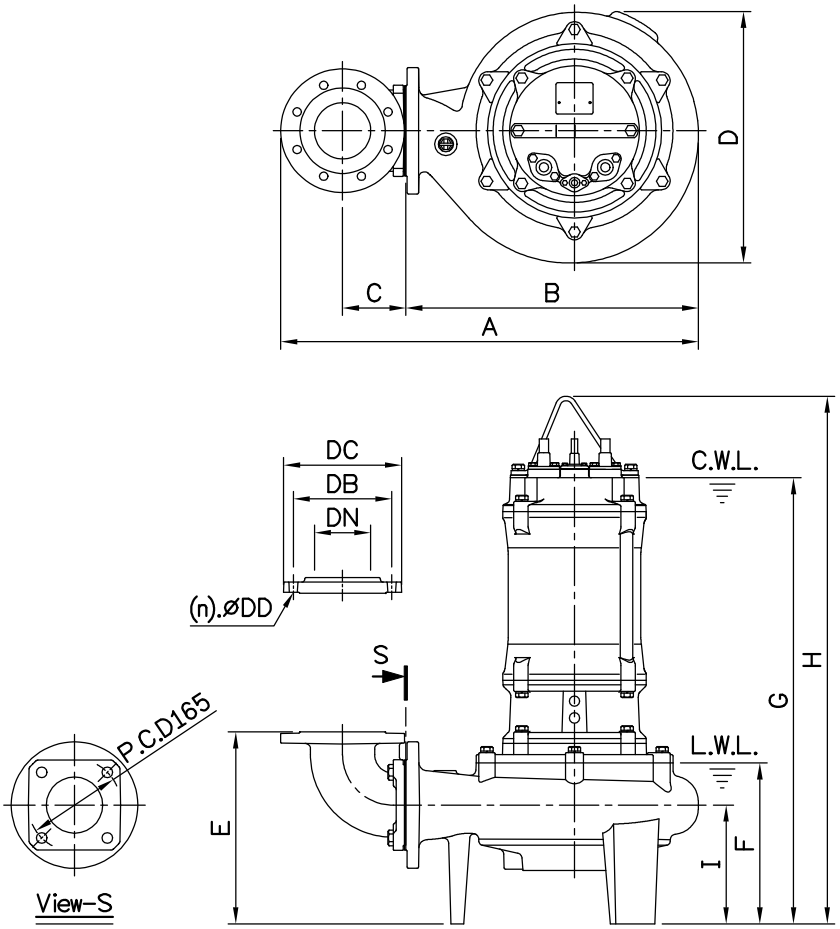
PUMP PERFORMANCE CURVES			
Modelo	100(150)AFE422	**N.º de archivo**	20261021204315
Frecuencia	50 Hz	**N.º de versión**	202003060911
Descarga	4" / 100 mm	**REFERENCE SPECIFICATION**	
Potencia	30 HP / 22 kW	**Salida**	13.61 kW
Altura Estándar	35.5 m	**Eficiencia**	47 %
Capacidad Estándar	60 m³/h		
Fase / Voltaje	3 Ø / 380 V		
Corriente Nominal	43.8 A		
Polo / rpm	4 P / 1450 rpm		
Método de Arranque	STAR-DELTA/DOL		
Clase de Aislamiento	H		



HCP PUMP MANUFACTURER CO., LTD.

DIMENSIONS NO: S4AFE4C0030-01

MODEL: 100(150)AFE411 / 415 / 422 / 430 50Hz 3Ø



Flange

Female Thread	
PT	NPT

Dimensions-mm

Model	A	B	C	D	E	F	G	H	I	WT1
100(150)AFE411	743	520	113	447	341	286	793	938	211	164
100(150)AFE411	803	520	143	447	371	286	793	938	211	164
100(150)AFE415	743	520	113	447	341	286	793	938	211	176
100(150)AFE415	803	520	143	447	371	286	793	938	211	176
100(150)AFE422	778	555	113	476	352	297	834	979	222	229
100(150)AFE422	838	555	143	476	382	297	834	979	222	229
100(150)AFE430	778	555	113	476	352	297	874	1019	222	250
100(150)AFE430	838	555	143	476	382	297	874	1019	222	250

Weight:kg

DN	JIS 10K					DIN PN10					WT2
	Elbow (Flange)Set	DB	DC	DD	(n) QTY	Elbow (Flange)Set	DB	DC	DD	(n) QTY	
100	EB4-175A	175	210	15	8	EB4-180A	180	225	18	8	13
150	EB6-240(165)	240	280	23	8	EB6-240(165)	240	280	23	8	23
100	EB4-175A	175	210	15	8	EB4-180A	180	225	18	8	13
150	EB6-240(165)	240	280	23	8	EB6-240(165)	240	280	23	8	23
100	EB4-175A	175	210	15	8	EB4-180A	180	225	18	8	13
150	EB6-240(165)	240	280	23	8	EB6-240(165)	240	280	23	8	23
100	EB4-175A	175	210	15	8	EB4-180A	180	225	18	8	13
150	EB6-240(165)	240	280	23	8	EB6-240(165)	240	280	23	8	23

Dimensions-inch

Model	A	B	C	D	E	F	G	H	I	WT1
100(150)AFE411	29¼	20½	4 7/16	17 5/8	13 7/16	11¼	31¼	36 15/16	8 5/16	362
100(150)AFE411	31 5/8	20½	5 5/8	17 5/8	14 5/8	11¼	31¼	36 15/16	8 5/16	362
100(150)AFE415	29¼	20½	4 7/16	17 5/8	13 7/16	11¼	31¼	36 15/16	8 5/16	388
100(150)AFE415	31 5/8	20½	5 5/8	17 5/8	14 5/8	11¼	31¼	36 15/16	8 5/16	388
100(150)AFE422	30 5/8	21 7/8	4 7/16	18¾	13 7/8	11 11/16	32 13/16	38 9/16	8¾	505
100(150)AFE422	33	21 7/8	5 5/8	18¾	15 1/16	11 11/16	32 13/16	38 9/16	8¾	505
100(150)AFE430	30 5/8	21 7/8	4 7/16	18¾	13 7/8	11 11/16	34 7/16	40 1/8	8¾	551
100(150)AFE430	33	21 7/8	5 5/8	18¾	15 1/16	11 11/16	34 7/16	40 1/8	8¾	551

Weight:lb

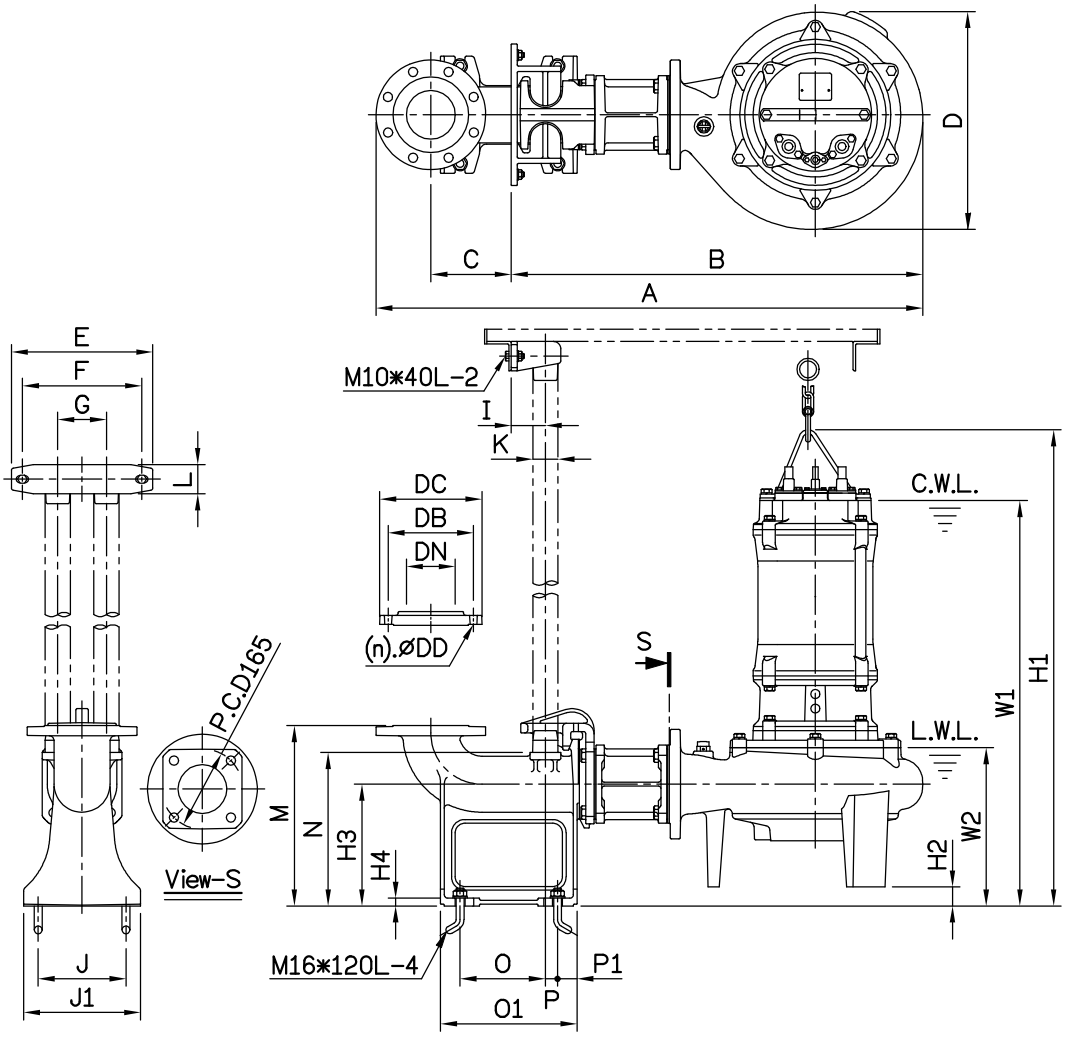
DN	JIS 10K					DIN PN10					WT2
	Elbow (Flange)Set	DB	DC	DD	(n) QTY	Elbow (Flange)Set	DB	DC	DD	(n) QTY	
4	EB4-175A	6 7/8	8¼	9/16	8	EB4-180A	7 1/16	8 7/8	11/16	8	29
6	EB6-240(165)	9 7/16	11	7/8	8	EB6-240(165)	9 7/16	11	7/8	8	51
4	EB4-175A	6 7/8	8¼	9/16	8	EB4-180A	7 1/16	8 7/8	11/16	8	29
6	EB6-240(165)	9 7/16	11	7/8	8	EB6-240(165)	9 7/16	11	7/8	8	51
4	EB4-175A	6 7/8	8¼	9/16	8	EB4-180A	7 1/16	8 7/8	11/16	8	29
6	EB6-240(165)	9 7/16	11	7/8	8	EB6-240(165)	9 7/16	11	7/8	8	51
4	EB4-175A	6 7/8	8¼	9/16	8	EB4-180A	7 1/16	8 7/8	11/16	8	29
6	EB6-240(165)	9 7/16	11	7/8	8	EB6-240(165)	9 7/16	11	7/8	8	51

C.W.L.:Continuous Running Water Level
L.W.L.:Lowest Running Water Level

WT1:Pump Weight(Without Cable)
WT2:Elbow Set Weight

DIMENSIONS NO: T4AFE4C0035-02

MODEL: 100(150)AFE411 / 415 / 422 / 430 50Hz 3Ø



Flange

Female Thread	
PT	NPT

Dimensions-mm

DN	Elbow (Flange) Set	JIS 10K			
		DB	DC	DD	(n)QTY
100	EF4-175	175	210	15	8
DN	Elbow (Flange) Set	DIN PN10			
		DB	DC	DD	(n)QTY
100	EF4-180	180	225	19	8

Dimensions-inch

DN	Elbow (Flange) Set	JIS 10K			
		DB	DC	DD	(n)QTY
4	EF4-175	6 7/8	8 1/4	9/16	8
DN	Elbow (Flange) Set	DIN PN10			
		DB	DC	DD	(n)QTY
4	EF4-180	7 1/16	8 7/8	3/4	8

Dimensions-mm Weight:kg

Model	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
100(150)AFE411	1123	845	165	447	285	245	100	70	200	240	2"	60	370	315	175	280	25	40	832	325	977	39	250	16	164	T100CH	53
100(150)AFE415	1123	845	165	447	285	245	100	70	200	240	2"	60	370	315	175	280	25	40	832	325	977	39	250	16	176	T100CH	53
100(150)AFE422	1158	880	165	475	285	245	100	70	200	240	2"	60	370	315	175	280	25	40	862	325	1007	28	250	16	229	T100CH	53
100(150)AFE430	1158	880	165	475	285	245	100	70	200	240	2"	60	370	315	175	280	25	40	902	325	1047	28	250	16	250	T100CH	53

Dimensions-inch Weight:lb

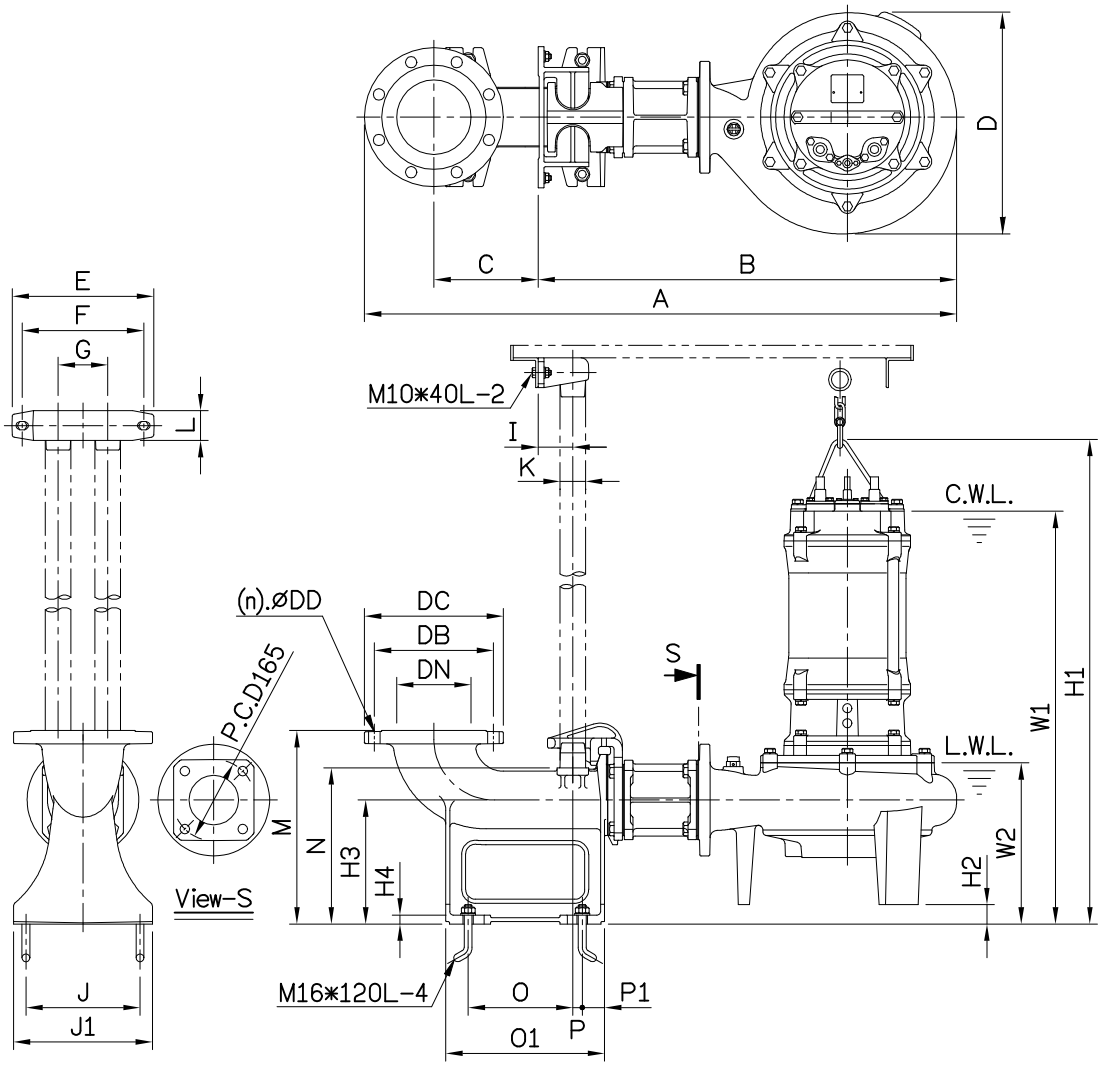
Model	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
100(150)AFE411	44 3/16	33 1/4	6 1/2	17 5/8	11 1/4	9 5/8	3 15/16	2 3/4	7 7/8	9 7/16	2	2 3/8	14 9/16	12 3/8	6 7/8	11	1	1 9/16	32 3/4	12 13/16	38 7/16	1 3/16	9 13/16	5/8	362	T100CH	117
100(150)AFE415	44 3/16	33 1/4	6 1/2	17 5/8	11 1/4	9 5/8	3 15/16	2 3/4	7 7/8	9 7/16	2	2 3/8	14 9/16	12 3/8	6 7/8	11	1	1 9/16	32 3/4	12 13/16	38 7/16	1 3/16	9 13/16	5/8	388	T100CH	117
100(150)AFE422	45 5/16	34 5/8	6 1/2	18 11/16	11 1/4	9 5/8	3 15/16	2 3/4	7 7/8	9 7/16	2	2 3/8	14 9/16	12 3/8	6 7/8	11	1	1 9/16	33 15/16	12 13/16	39 5/8	1 1/8	9 13/16	5/8	505	T100CH	117
100(150)AFE430	45 5/16	34 5/8	6 1/2	18 11/16	11 1/4	9 5/8	3 15/16	2 3/4	7 7/8	9 7/16	2	2 3/8	14 9/16	12 3/8	6 7/8	11	1	1 9/16	35 1/2	12 13/16	41 1/4	1 1/8	9 13/16	5/8	551	T100CH	117

C.W.L.:Continuous Running Water Level
L.W.L.:Lowest Running Water Level

WT1:Pump Weight(Without Cable)
WT2:GRS Set Weight

DIMENSIONS NO: T4AFE4C0030-03

MODEL: 100(150)AFE411 / 415 / 422 / 430 50Hz 3Ø



Dimensions-mm

DN	GRS Set	JIS 10K			
		DB	DC	DD	(n)QTY
150	T150(100)CH	240	280	23	8
DN	GRS Set	DIN PN10			
		DB	DC	DD	(n)QTY
150	T150(100)CH	240	280	23	8

Dimensions-inch

DN	GRS Set	JIS 10K			
		DB	DC	DD	(n)QTY
6	T150(100)CH	9 7/16	11	7/8	8
DN	GRS Set	DIN PN10			
		DB	DC	DD	(n)QTY
6	T150(100)CH	9 7/16	11	7/8	8

Dimensions-mm Weight:kg

Model	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
100(150)AFE411	1195	845	210	447	285	245	100	70	230	280	2"	60	390	315	211	320	19	45	832	325	977	39	250	18	164	T150(100)CH	55
100(150)AFE415	1195	845	210	447	285	245	100	70	230	280	2"	60	390	315	211	320	19	45	832	325	977	39	250	18	176	T150(100)CH	55
100(150)AFE422	1230	880	210	475	285	245	100	70	230	280	2"	60	390	315	211	320	19	45	862	325	1007	28	250	18	229	T150(100)CH	55
100(150)AFE430	1230	880	210	475	285	245	100	70	230	280	2"	60	390	315	211	320	19	45	902	325	1047	28	250	18	250	T150(100)CH	55

Dimensions-inch Weight:lb

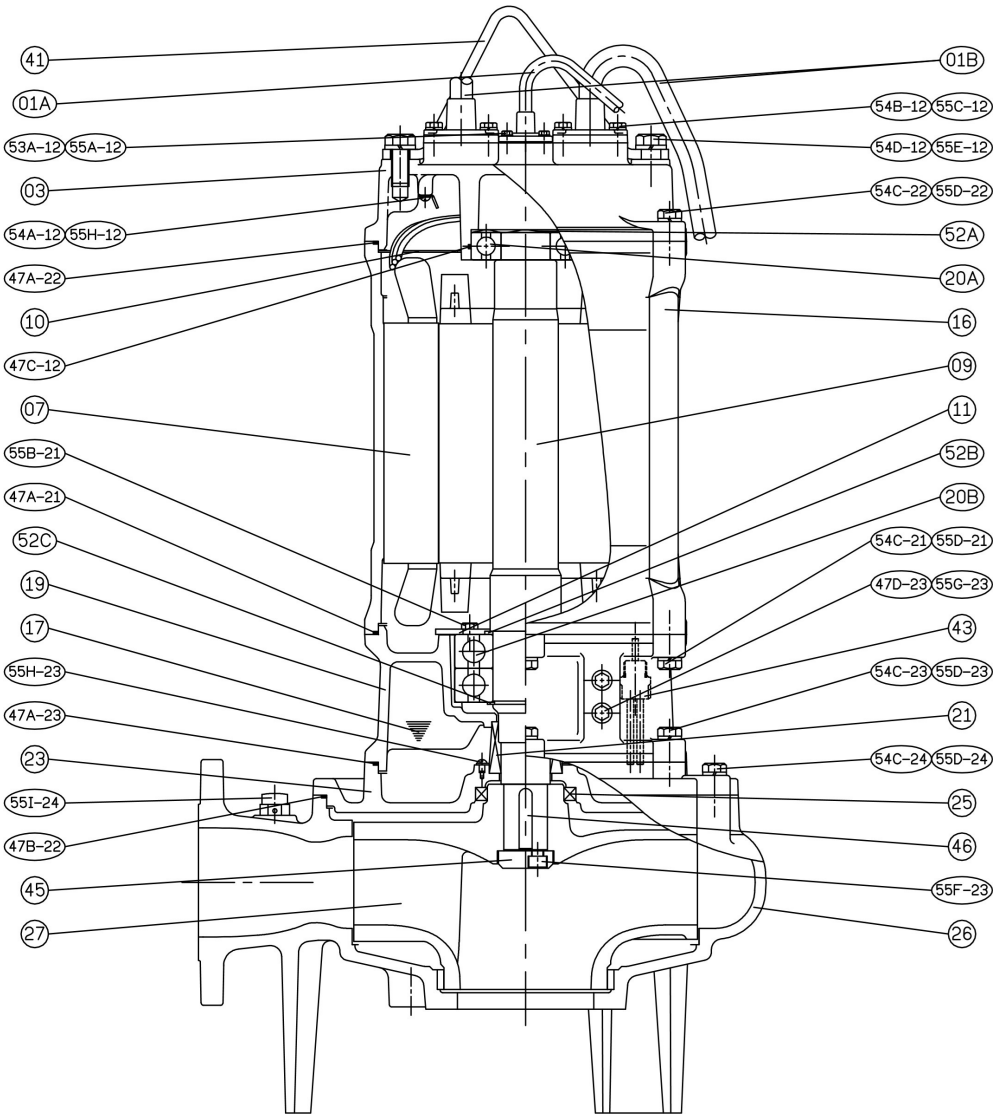
Model	A	B	C	D	E	F	G	I	J	J1	K	L	M	N	O	O1	P	P1	W1	W2	H1	H2	H3	H4	WT1	GRS Set	WT2
100(150)AFE411	47 1/16	33 1/4	8 1/4	17 5/8	11 1/4	9 5/8	3 15/16	2 3/4	9 1/16	11	2	2 3/8	15 3/8	12 3/8	8 5/16	12 5/8	3/4	1 3/4	32 3/4	12 13/16	38 7/16	1 3/16	9 13/16	11/16	362	T150(100)CH	121
100(150)AFE415	47 1/16	33 1/4	8 1/4	17 5/8	11 1/4	9 5/8	3 15/16	2 3/4	9 1/16	11	2	2 3/8	15 3/8	12 3/8	8 5/16	12 5/8	3/4	1 3/4	32 3/4	12 13/16	38 7/16	1 3/16	9 13/16	11/16	388	T150(100)CH	121
100(150)AFE422	48 7/16	34 5/8	8 1/4	18 11/16	11 1/4	9 5/8	3 15/16	2 3/4	9 1/16	11	2	2 3/8	15 3/8	12 3/8	8 5/16	12 5/8	3/4	1 3/4	33 5/16	12 13/16	39 5/8	1 1/8	9 13/16	11/16	505	T150(100)CH	121
100(150)AFE430	48 7/16	34 5/8	8 1/4	18 11/16	11 1/4	9 5/8	3 15/16	2 3/4	9 1/16	11	2	2 3/8	15 3/8	12 3/8	8 5/16	12 5/8	3/4	1 3/4	35 1/2	12 13/16	41 1/4	1 1/8	9 13/16	11/16	551	T150(100)CH	121

C.W.L.:Continuous Running Water Level
L.W.L.:Lowest Running Water Level

WT1:Pump Weight(Without Cable)
WT2:GRS Set Weight

SECTIONAL VIEWS NO: 04AFE4C0030-3

MODEL: 100(150)AFE422 / 430 3Ø



Número	Nombre de la pieza	Material	Cantidad
01A	Cable		1
01B	Cable		2
03	Cubierta Superior	FC200	1
07	Estator (With MTS)		1
09	Extremo del Eje	SUS420J2	1
10	Placa Protectora		1
11	Fijador de Rodamiento	SPCC	1
16	Bastidor del Motor	FC200	1
17	Lubricante		
19	Soporte del Rodamiento	FC200	1
20A	Rodamiento		1
20B	Rodamiento		2
21	Sello Mecánico	CA/CE & SiC/SiC	1
23	Soporte Sello Mecánico	FC200	1

Número	Nombre de la pieza	Material	Cantidad
25	Sello de Aceite	SUS304+NBR	1
26	Carcasa+Anillo de Desgaste	FC200+SCS14	1
27	Impulsor	FC200(50Hz) FCD500(60Hz)	1
41	Asa	SS400	1
43	Sensor de Humedad		1
46	Llave del Impulsor	SUS304	1
47	Kit de Empaques		