

Model	100AFU47.5
Series	AF
Frequency	50
Phase / Volt	3 Ø / 400 V
Rated Current	16.1 A
Discharge	100 mm (4")



Motor Data

Input Power—P1	8.8 kW
Rated Power—P2	7.5 kW
Insulation Class	H
Max. Starts Per Hour	5
Rated Speed (rpm)	1450
Start Method	DOL
Ingress Protection Code	IP68
Explosion-Proof	NO

Technology

Impeller Type	Vortex
Mechanical Seal	Double
Lubricating Oil VG32	2700 CC
Solid Passage	100 mm (4")
Cooling Type	External cooling
Cooling Jacket	NO

Material

Motor Frame	FC200 (GG-20)
Shaft	SUS420J2 (X30Cr13)
Casing	FC200 (GG-20)
Impeller	FC200 (GG-20)
Mechanical Seal	CA/CE&SiC/SiC
Cable	VCT,H07RN-F
Upper and Lower Bearing	6306ZZ,6309ZZ

Liquid

Maximum Ambient Temperature	0~40°C (32~104°F)
Maximum Installation Depth	20m (66ft)
Highest Liquid Temperature	40 °C (104°F)
Liquid Transported	Sewage

Others(Optional)

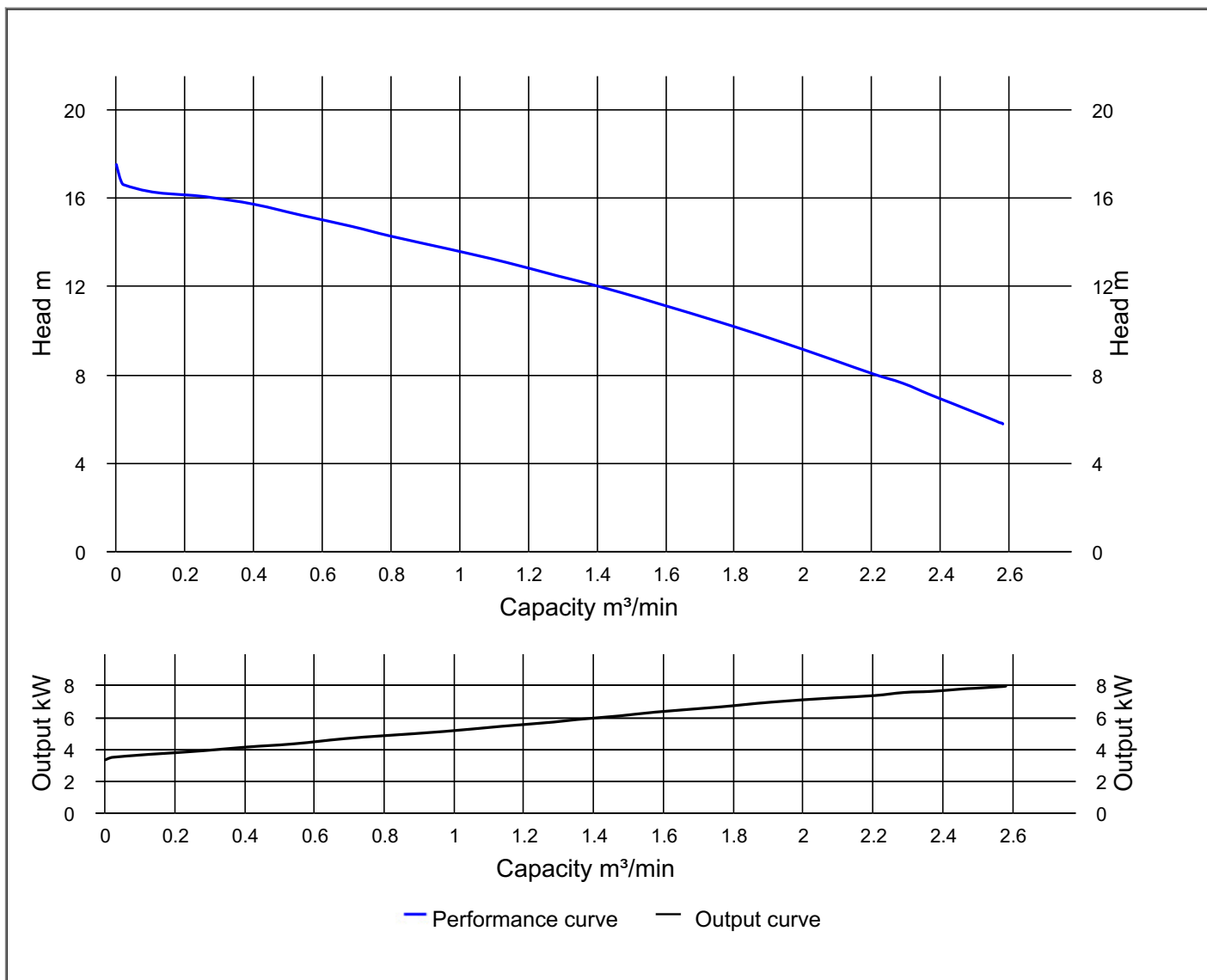
Protection Device	Auto-cut Protector (MTS)
Moisture Sensor	(MS)



HCP PUMP

PUMP PERFORMANCE CURVES

Model	100AFU47.5	File NO.	20230130195552
Frequency	50 Hz	Ver NO.	202003060911
Discharge	4" / 100 mm	REFERENCE SPECIFICATION	
Output	10 HP / 7.5 kW	Output	5.15 kW
Std. Head	13.5 m	Efficiency	42.9 %
Std. Capacity	1 m ³ /min		
Phase / Volt	3 Ø / 400 V		
Rated Current	16.1 A		
Pole / rpm	4 P / 1450 rpm		
Start Method	DOL		
Insulation Class	H		

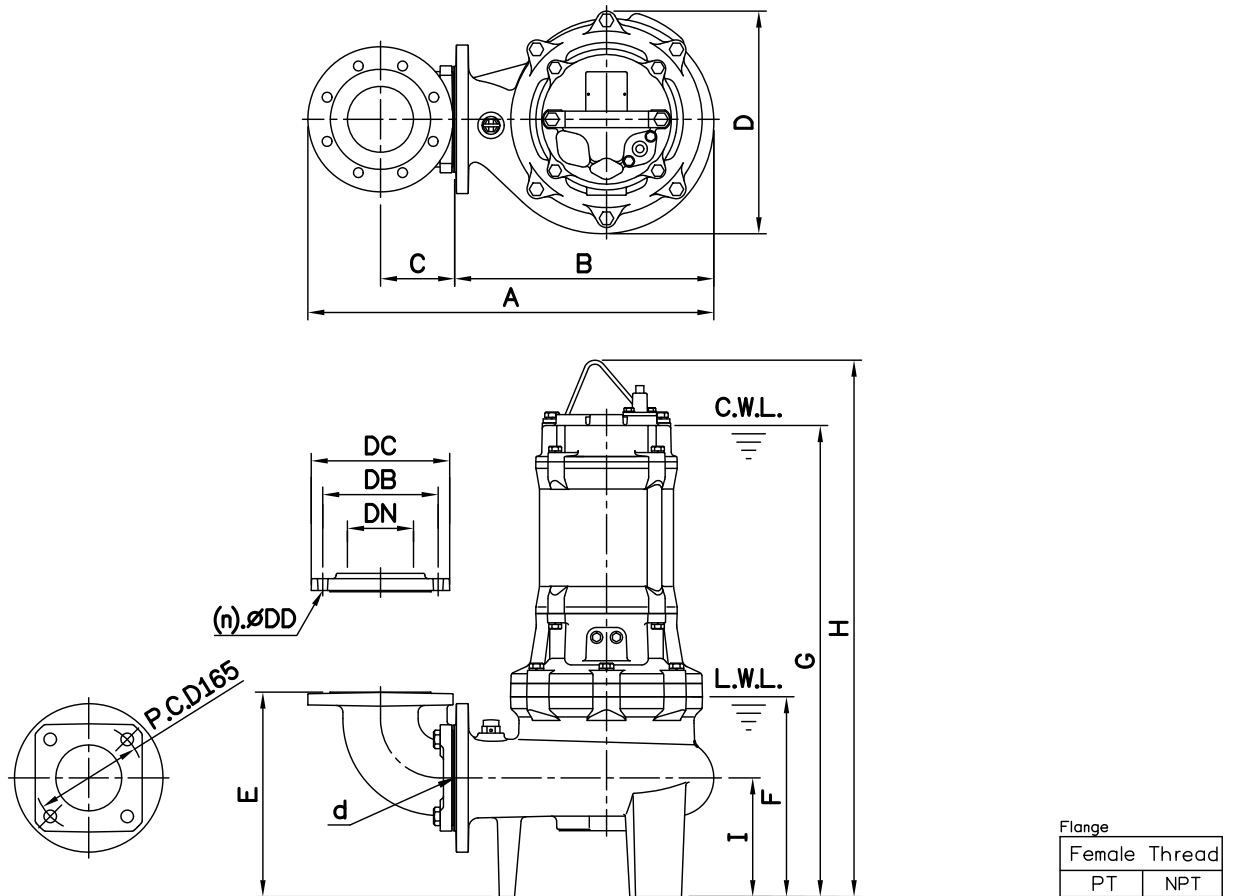


DIMENSIONS

NO: S4AFU475030-00

MODEL: 100AFU45.5 / 47.5

50Hz 3Ø



Dimensions—mm

Weight:kg

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange)Set	DN	DB	DC	DD	(n)QTY	WT2
100AFU45.5	100	615	393	113	337	310	303	714	813	180	96	EB4-175A	100	175	210	15	8	13
100AFU47.5	100	615	393	113	337	310	303	754	853	180	105	EB4-175A	100	175	210	15	8	13

Dimensions—inch

Weight:lb

Model	d	A	B	C	D	E	F	G	H	I	WT1	Elbow (Flange)Set	DN	DB	DC	DD	(n)QTY	WT2
100AFU45.5	4	24 ³ / ₁₆	15 ⁵ / ₁₆	4 ⁷ / ₁₆	13 ³ / ₄	12 ³ / ₁₆	11 ¹⁵ / ₁₆	28 ¹ / ₈	32	7 ¹ / ₁₆	212	EB4-175A	4	6 ³ / ₄	8 ¹ / ₄	3/ ₁₆	8	29
100AFU47.5	4	24 ³ / ₁₆	15 ⁵ / ₁₆	4 ⁷ / ₁₆	13 ³ / ₄	12 ³ / ₁₆	11 ¹⁵ / ₁₆	29 ¹ / ₈	33 ³ / ₁₆	7 ¹ / ₁₆	231	EB4-175A	4	6 ³ / ₄	8 ¹ / ₄	3/ ₁₆	8	29

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

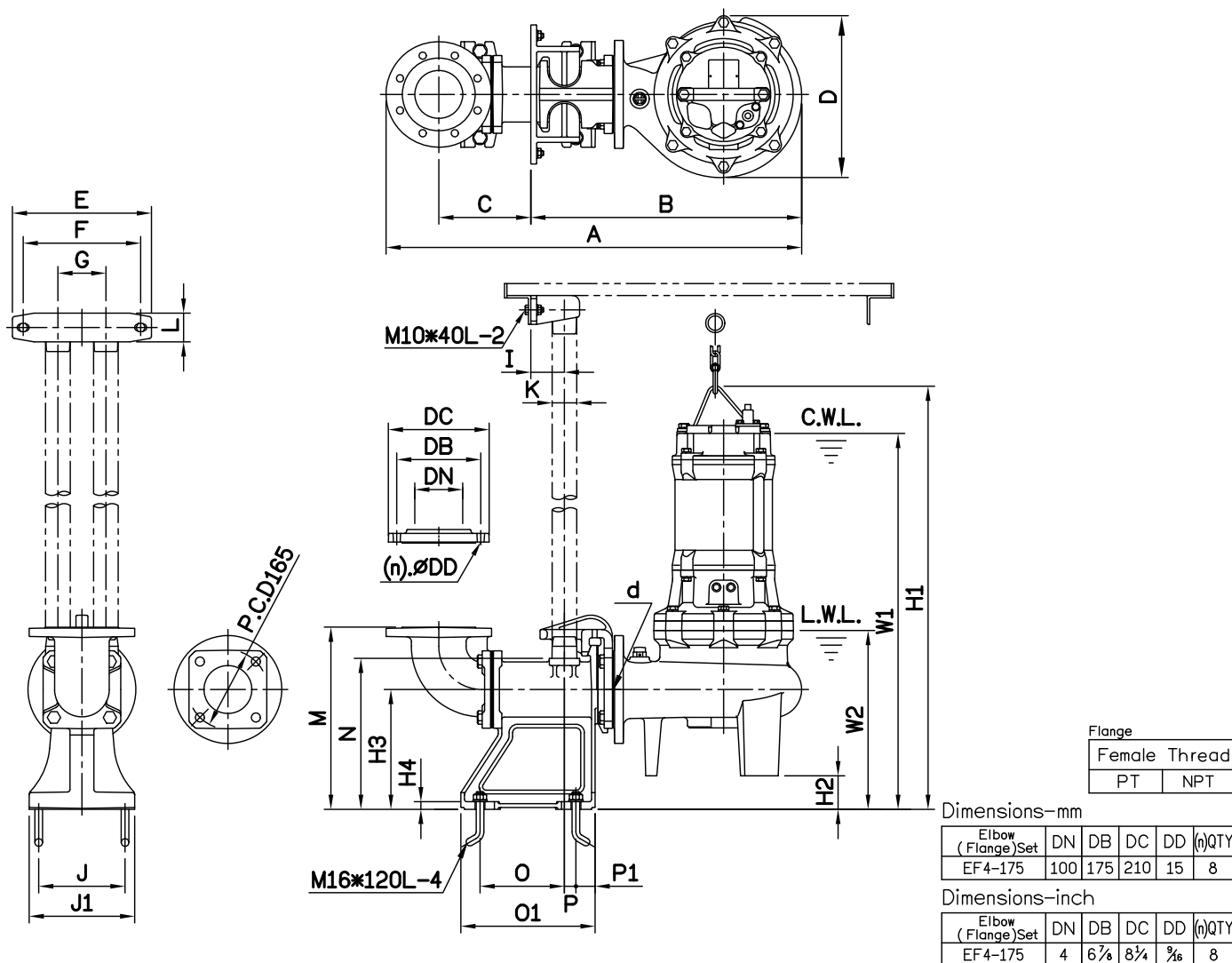
WT1:Pump Weight(Without Cable)
WT2:Elbow Set Weight

DIMENSIONS

NO: T4AFU475030-00

MODEL: 100AFU45.5 / 47.5

50Hz 3Ø



Dimensions-mm

Model	d	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
100AFU45.5	100	869	567	192	337	290	245	100	70	180	220	2"	60	380	315	176	280	24	40	784	373	883	70	250	16	96	T100B	45
100AFU47.5	100	869	567	192	337	290	245	100	70	180	220	2"	60	380	315	176	280	24	40	824	373	923	70	250	16	105	T100B	45

Weight:kg

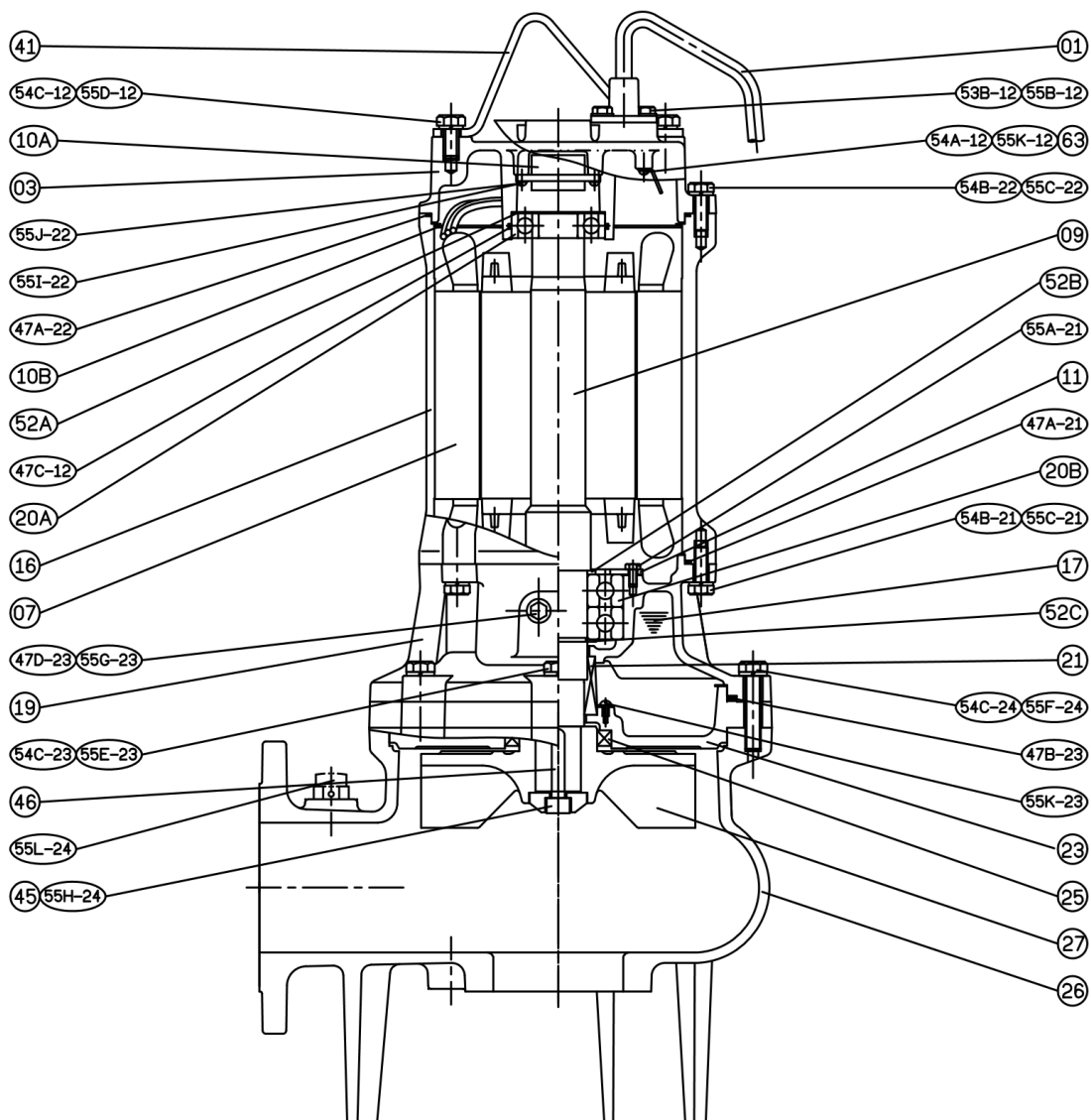
Dimensions-inch

Model	d	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
100AFU45.5	4	34 3/8	22 5/16	7 9/16	13 3/4	11 1/8	9 5/8	3 15/16	2 3/4	7 1/8	8 11/16	2	2 3/8	14 15/16	12 3/8	6 15/16	11	1 5/16	1 1/16	30 7/16	14 11/16	34 3/4	2 3/4	9 13/16	5/8	212	T100B	99
100AFU47.5	4	34 3/8	22 5/16	7 9/16	13 3/4	11 1/8	9 5/8	3 15/16	2 3/4	7 1/8	8 11/16	2	2 3/8	14 15/16	12 3/8	6 15/16	11	1 5/16	1 1/16	32 1/16	14 11/16	36 5/16	2 3/4	9 13/16	5/8	231	T100B	99

Weight:lb

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

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



NO.	Part name	Material	QTY
01	Cable		1
03	Upper Cover	FC200	1
07	Stator		1
09	Shaft End	SUS420J2	1
10A	Auto-cut Protector		1
10B	Protective Plate		1
11	Bearing Fixer	SS400	1
16	Motor Frame	FC200	1
17	Lubricant		
19	Bearing Bracket	FC200	1
20A	Bearing		1
20B	Bearing		2
21	M. Seal	CA/CE & SiC/SiC	1
23	M. Seal Bracket	FC200	1

[illegible]