

LIGHTWEIGHT
SUBMERSIBLE DEWATERING PUMP

HYDRO FORCE - 100 - T

DW0750T0007
SERIES 50HZ



HYDRO FORCE - 100 - T

Light Weight Submersible Dewatering Pump

50 HZ

POWER: 10HP (7.5kW)
MAX HEAD: 39 meters
MAX FLOW: 1900 lpm



DW0750T0007

Features

- Closed impeller design made of High Chrome Steel
- High resistance to abrasive liquids
- Stainless Steel outer casing & strainer
- EKK Eagle Burgmann double mechanical seal CA/CE & SIC/SIC
- Heat Treated Stainless Steel Shaft in AISI 410/420
- Efficient circumferential cooling for continuous duty

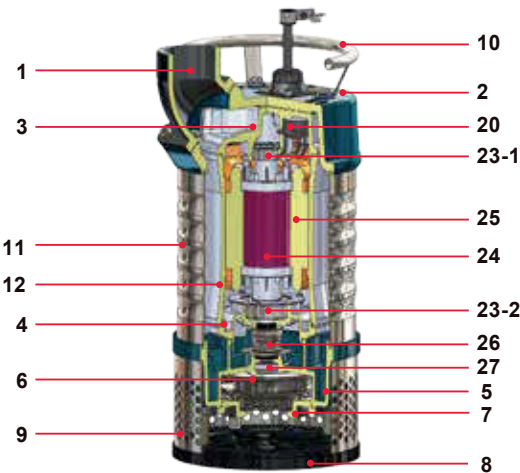
Parts and Material List

No.	Part	Material
1	Discharge	AISi7Mg
2	Upper Cover	AISi7Mg
3	Motor Cover	AISi7Mg
4	Lower Bearing Bracket	EN-GJL-200
5	Pump Casing	EN-GJL-200 (10HP) ; EN-GJS-700 (15~20HP)
6	Impeller	High Chrome Steel
7	Suction Plate	EN-GJS-700 (10HP)
7-1	Seal Housing	AISi7Mg / NBR (15~20HP)
8	Base Plate	AISi7Mg
9	Strainer	AISI 304
10	Handle	AISI 304
11	Outer Casing	AISI 304
12	Motor Frame	AISi7Mg
20	Protector	YAMADA
23-1	Upper Bearing	NTN/TPI
23-2	Lower Bearing	NTN/TPI
24	Rotor and Shaft	AISI 410 (10HP) ; AISI 420 (15~20HP)
25	Stator	-
26	Mechanical Seal	Upper:CA/CE
		Lower:SIC/SIC
27	Lip Seal	NBR

TPI is a family brand of NTN group.

Applications

- Site drainage, mining, tunneling, public works, floods
- Cement industry, river intake, civil engineering projects



HYDRO FORCE - 100 - T



DW0750T0007

Specifications

ITEM		DESCRIPTION
LIMITS OF USE	Liquid Temp.	0~40°C(32~104°F)
	Application	As suggested application page 1
TYPE	Frequency	50Hz
	Motor	2P (2850RPM) . Dry Motor
	Insulation	10HP : Class F ; 15~20HP : Class H
	Protection	IP 68
	Protector	Auto-Cut
	Bearing	Ball Type
	Mech. Seal	Double Mechanical Seal
	Impeller	Closed Impeller
MATERIAL	Motor Cover	AlSi7Mg
	Motor Housing + Stator	AlSi7Mg
	Shaft with Rotor	10HP : AISI 410 ; 15~20HP : AISI 420
	Mech. Seal	Upper : CA / CE ; Lower : SIC / SIC
	Pump Casing	10HP : EN-GJL-200 ; 15~20HP : EN-GJS-700
	Impeller	High Chrome Steel
	Cable	H07RN-F / STOW



High Chrome Steel closed Impeller

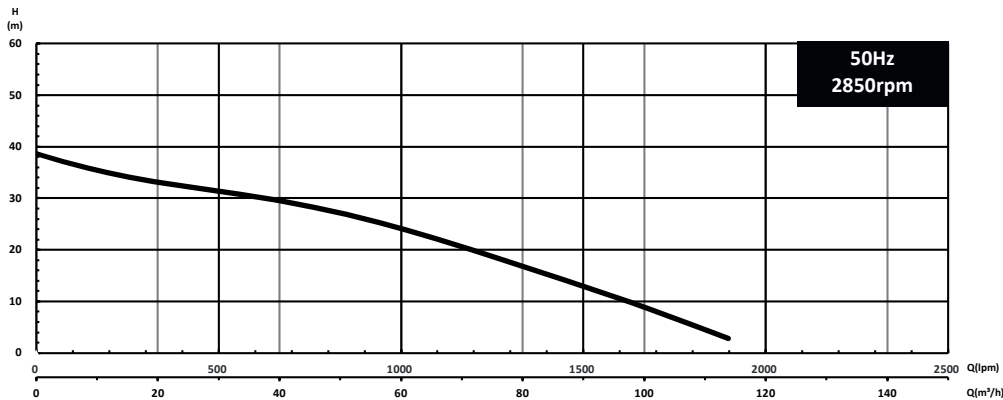


Expelling solid design on the back of the impeller

Data Chart

MODEL	OUTPUT		DISCHARGE	PHASE	3Ø			RATED		MAXIMUM		FREE PASSAGE	WEIGHT W/O CABLE
	HP	kW	Inch	FULL LOAD AMPERAGE	380V	400V	415V	m	lpm	m	lpm	mm	3Ø-kg
DW0750T0007	10	7.5	4"		17A	16A	15.8A	25	980	39	1900	10	69

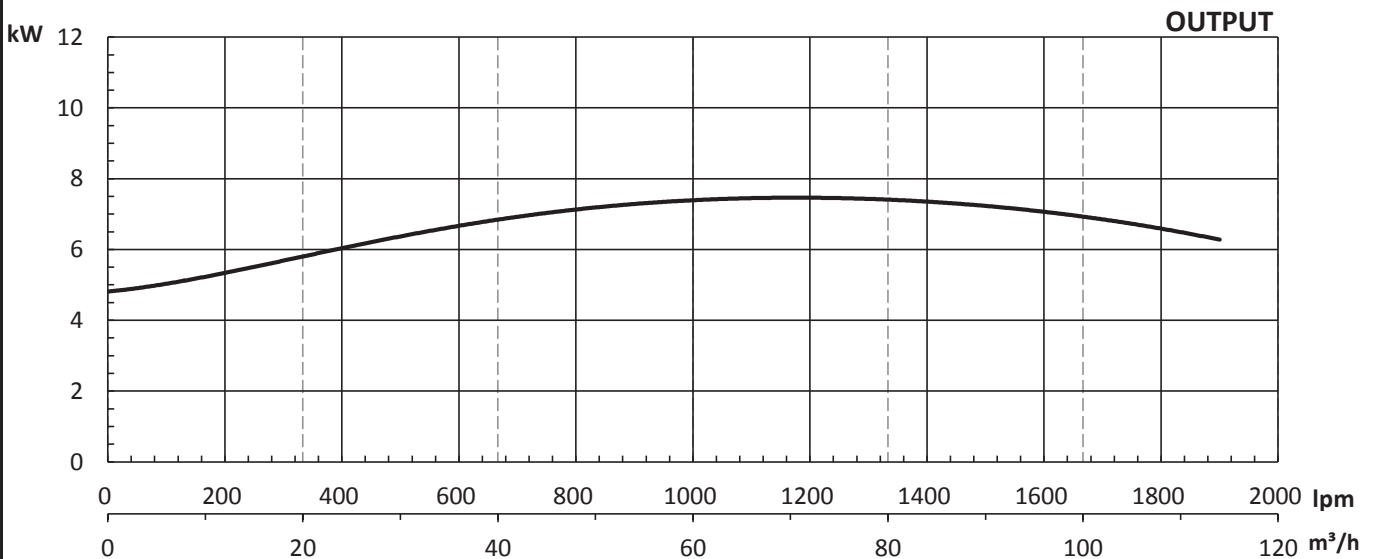
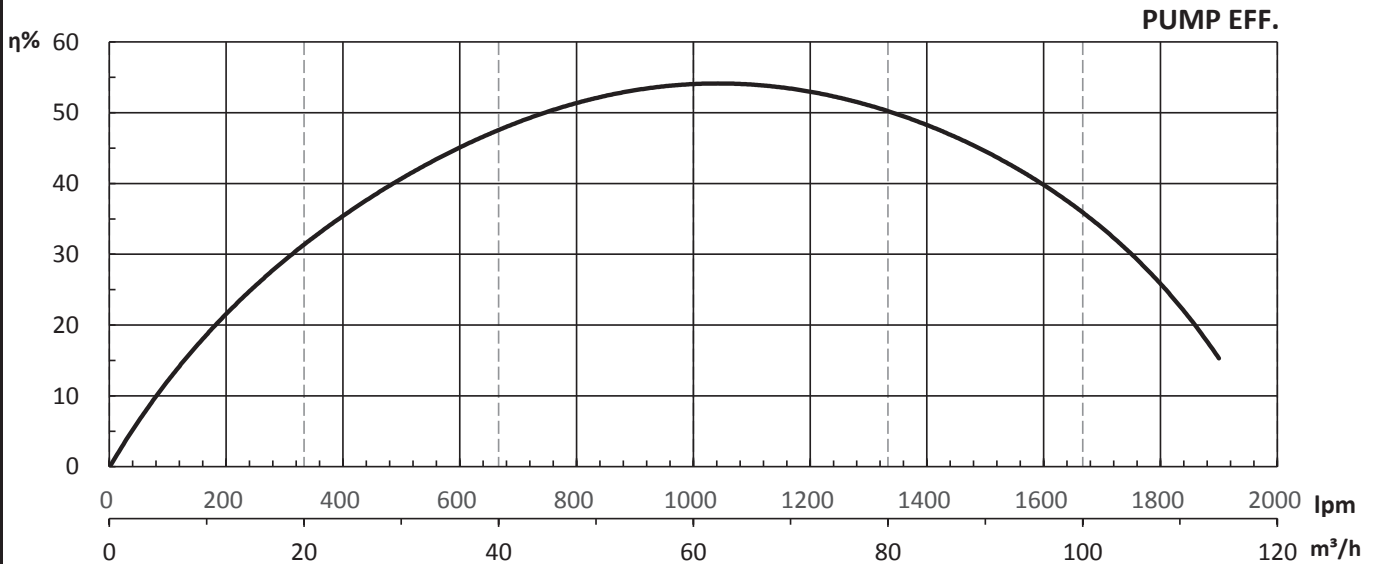
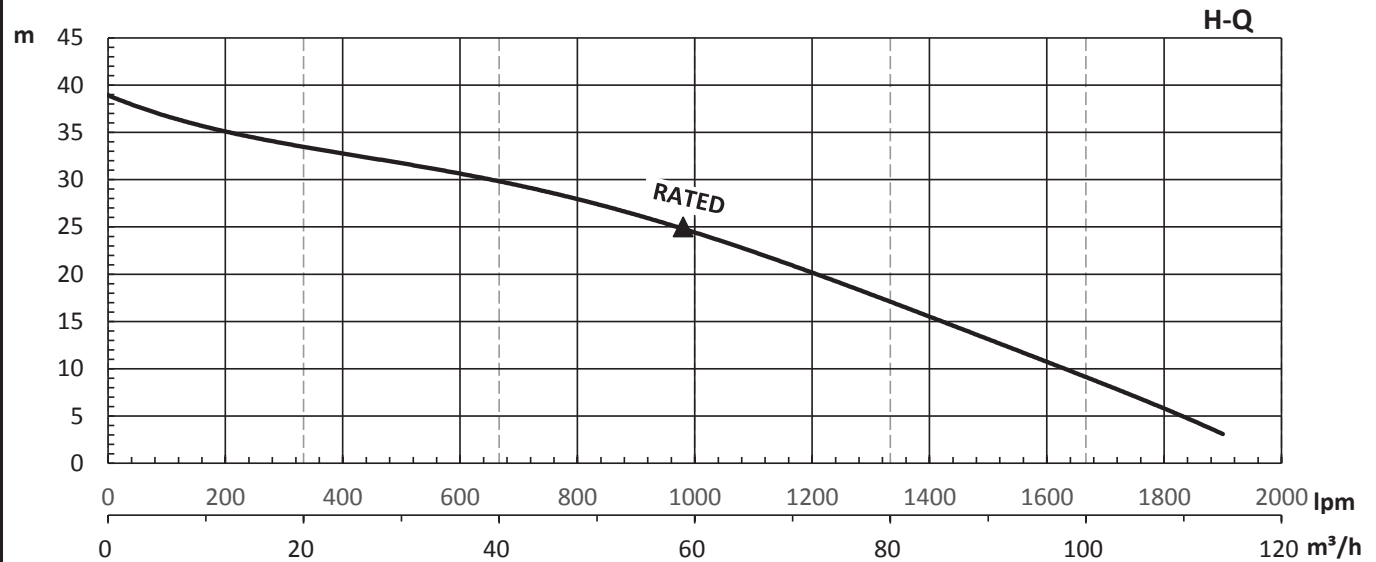
Performance Curve



MODEL	OUTPUT		DISCHARGE	Q(lpm)	0	500	1000	1500	2250	Q(m³/h)	0	20	60	100	135
	HP	kW	Inch		H(m)	49.4	42.3	35.5	-	H(m)	39.0	33.5	24.5	9	-
DW0750T0007	10	7.5	4"												

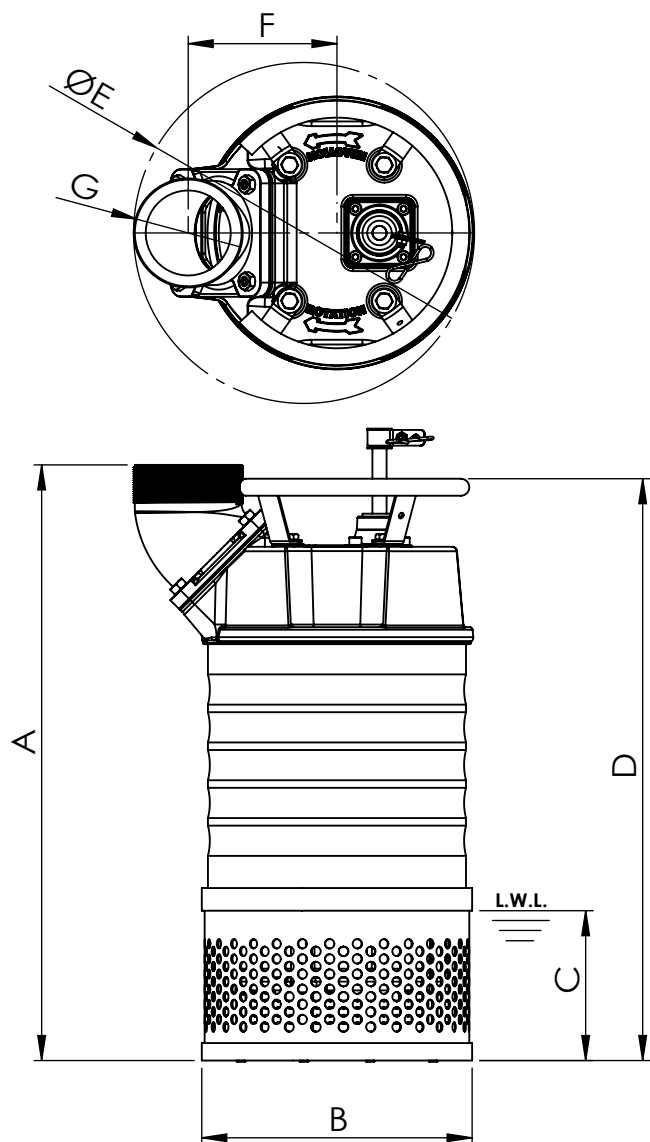
PUMP PERFORMANCE REPORT

MODEL	DW0750T0007					RATED	
FREQUENCY	50 HZ				HEAD	25	m
DISCHARGE	4 Inch / 100 mm				CAPACITY	980	lpm
OUTPUT	10 HP / 7.5 kW				POLE / RPM	2P / 2850	RPM
PHASE/VOLTAGE	3ø	380V	400V	415V	START METHOD	DIRECT ON LINE	
F.L.A.	A	17	16	15.8	INSULATION CLASS	F	CLASS

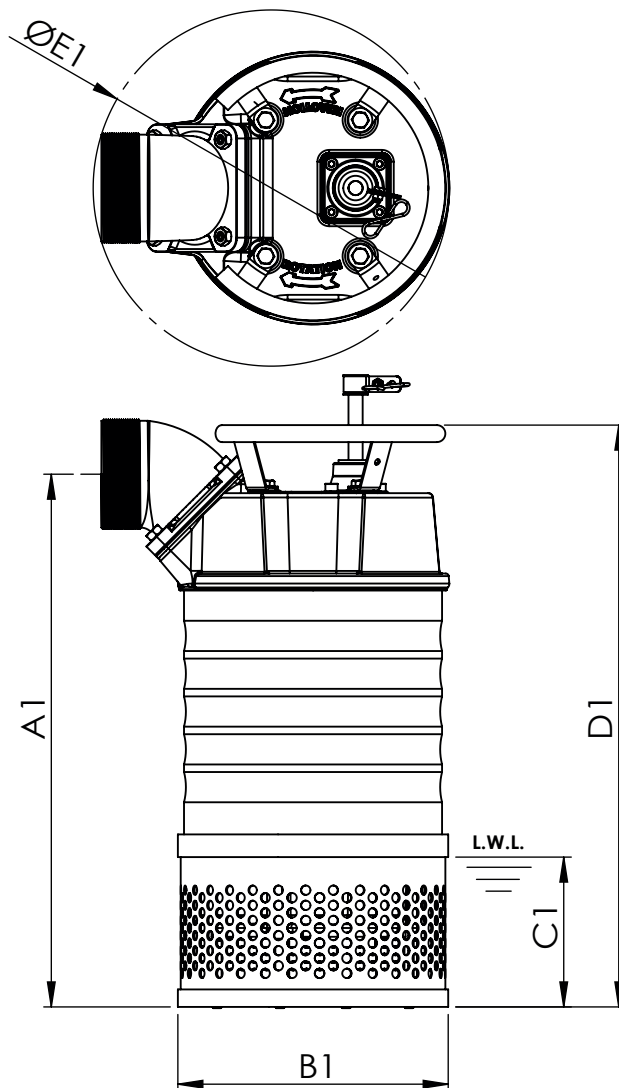


DIMENSIONAL DRAWING

MODELS : DW0750T0007



VERTICAL DISCHARGE MODE



HORIZONTAL DISCHARGE MODE

DIMENSION : mm
WEIGHT : kg

PIPE CONNECTION TYPE

PT NPT

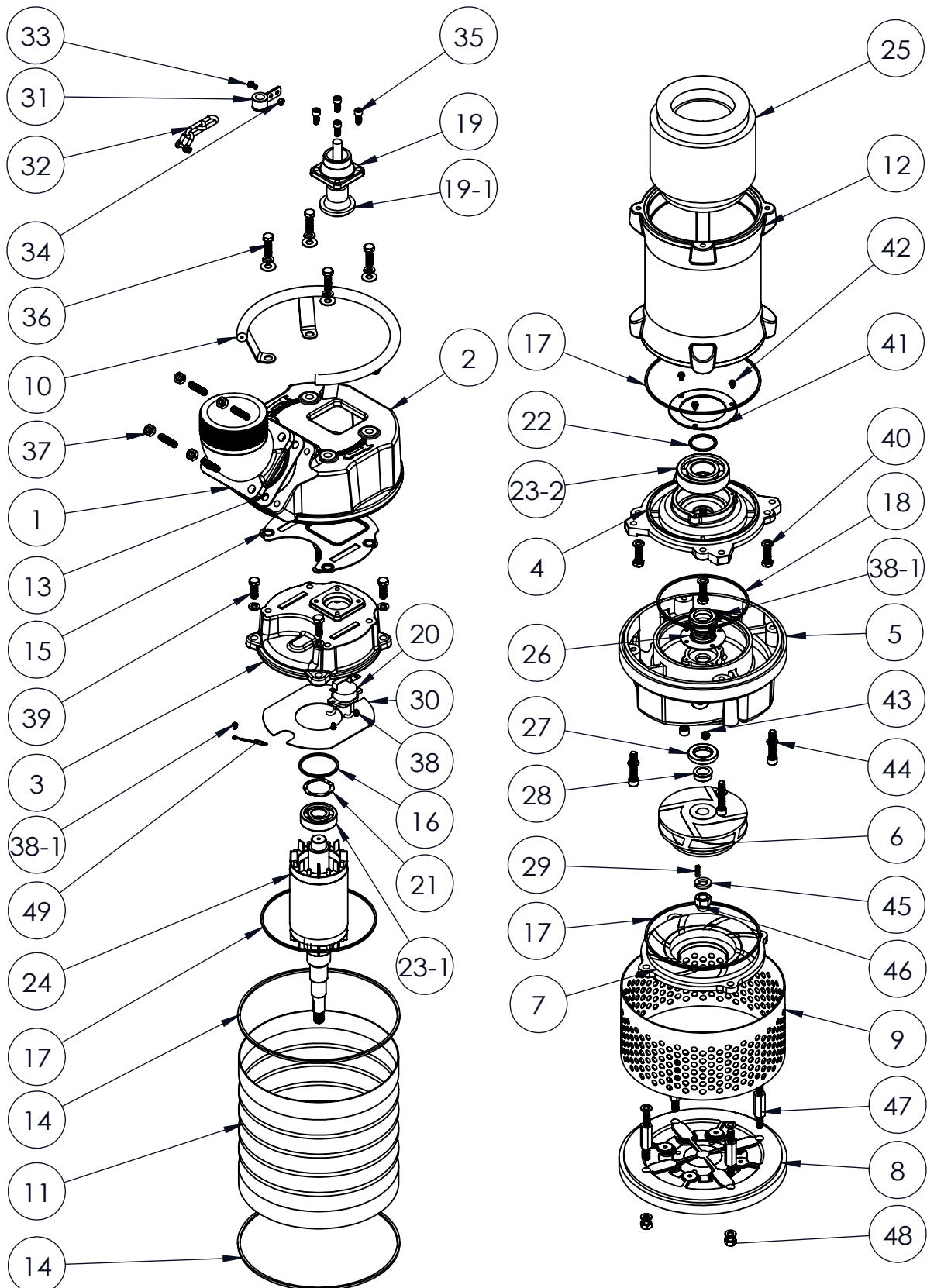
MODEL	VERTICAL DISCHARGE MODE							HORIZONTAL DISCHARGE MODE					WT
	A	B	C	D	E	F	G	A1	B1	C1	D1	E1	
DW0750T0007	630	286	159	616	360	158	4"	564	286	159	616	377	69

L.W.L.:Lowest Running Water Level

WT: Weight without cable

ASSEMBLY VIEW

MODEL: DW0750T0007



PARTS LIST

MODEL: DW075T0007

No	Part	Material	No	Part	Material
1	Discharge 4"/6"	AlSi7Mg	26	Mechanical Seal	Top: CA/CE Bot: SIC/SIC
2	Upper Cover	AlSi7Mg	27	Lip Seal	NBR
3	Motor Cover	AlSi7Mg	28	Shaft sleeve	AlSi304
4	Lower bearing bracket	EN-GJL-200	29	Key	AlSi304
5	Pump Casing	EN-GJL-200	30	Insulation sheet	Bakelite
6	Impeller 4"/6"	High Chrome Steel	31	Cable clamp	AlSi304/NBR
7	Suction plate	EN-GJL-200	32	Shackle / chain	AlSi304/SC
8	Base plate	AlSi7Mg	33	Hex bolt	AlSi304
9	Strainer	AlSi304	34	Hex nut	AlSi304
10	Handle	AlSi304	35	Socket screw	AlSi304
11	Outer Casing	AlSi304	36	Hex bolt / spring washer / flat washer	AlSi304
12	Motor Frame	AlSi7Mg	37	Headless socket screw / hex nut	AlSi304
13	Discharge gasket	NBR	38	Phillips screw	SC
14	Outer casing gasket	NBR	38-1	Phillips screw	SC
15	Upper cover gasket	NBR	39	Hex bolt / spring washer	AlSi304
16	O-ring	NBR	40	Hex bolt / spring washer	AlSi304
17	O-ring	NBR	41	Bearing holder	SC
18	O-ring	NBR	42	Hex bolt	SC
19	Gland holder	AlSi7Mg	43	Oil Plug (headless socket screw)	AlSi304
19-1	Cable	STOW/H07RN-F	44	Socket screw / spring washer	AlSi304
20	Protector	YAMADA	45	Spring washer	AlSi304
21	Wave washer	SC	46	Cap hex nut	AlSi304
22	Flat washer	SC	47	Double end stud bolt / spring washer	AlSi304
23-1	Upper bearing	NTN/TPI	48	Spring washer / hex nut	AlSi304
23-2	Lower bearing	NTN/TPI	49	Ground lead	-
24	Shaft and rotor	AlSi410	50	R-32 lubricant - 800cc	-
25	Stator	-			

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