



**SDQ Pump Series -
Submersible Sand
Pump**



2.2 ~45kW 4P - 50Hz : 1450rpm, 60Hz : 1750rpm

The SDQ submersible sand pump is specially designed for harsh environment, sites pumping containing solids and other abrasive material. Every component of it fully reflects the high durability, reliability, and ease of serviceability. SDQ submersible sand pump is adopted with F Class insulated 4-pole motor, high wear-resistant mechanical seal, heavy duty semi-open high wear-resistant alloy impeller. This is an agitator in the lower part of this part if this pump, the sediment at the bottom at the bottom of water will be stirred into a suspension from and then be sucked into the inlet to be discharged to clear completely.



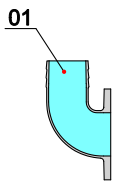
Main Advantages

- Specially designed for harsh environments
- Durability, reliability, and ease of serviceability
- High-wear resistant mechanical seals
- Comes in two sizes 50Hz: 1450rpm 60Hz: 1750rpm

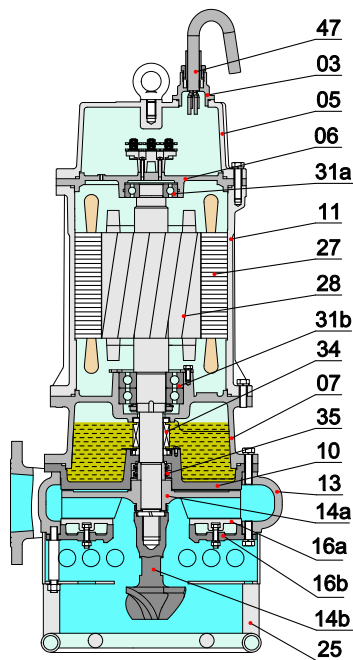
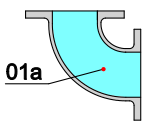
Application

- Underwater silt extraction, clear the bottom of a pond, clean up the sedimentation tank
- Drainage of construction silt water, mine surface drainage
- Industrial mining enterprises pumping sewage water containing quartz sand, slime, sludge and other abrasive materials

Movable Soft Pipe Installation (R)



Movable Hard Pipe Installation (Y)



Specification

- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40°C
- PH: 6 to 10
- Density of liquid: 1.3g/cm³
- Power supply: three phase 380V ±10%, 50Hz
three phase 380V ±10%, 60Hz
- Capacity: up to 402m³/h
- Head: up to 45m
- Maximum immersion depth: 15m
- Cable Length: 8m

Type	Pump body	Material
SDQ	Ductile iron	High chrome alloy
SDQ-G		High chrome alloy

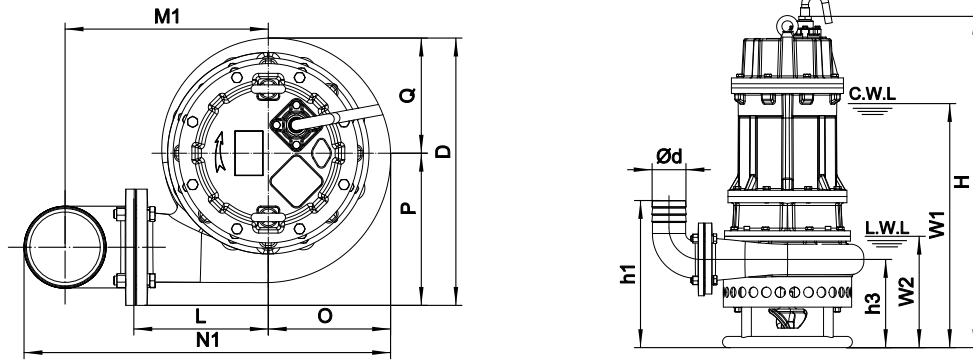
Material of construction

Item No.	Part Name	Material
01	Hose coupling	Cast iron
01a	Hose coupling	Cast iron
03	Terminal box	Cast iron
05	Upper cover	Cast iron
06	Up-Bearing house	Cast iron
07	Bearing house	Cast iron
10	Seal bracket	Ductile iron
11	Motor body	Cast iron
13	Pump body	Ductile iron
14a	Impeller	High chrome alloy
14b	Agitator	High chrome alloy

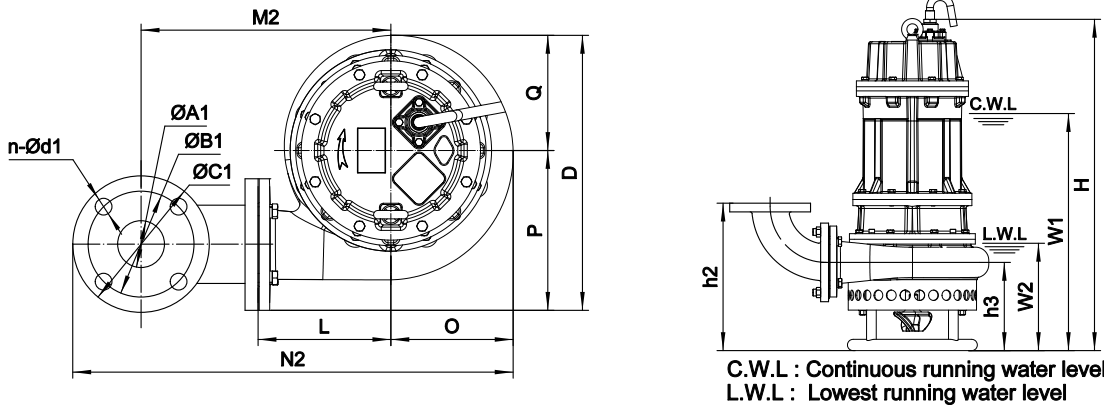
Item No.	Part Name	Material
16a	Inlet plate	High chrome alloy
16b	Inlet plate	Cast iron
25	Strainer	
27	Stator	
28	Rotor	Shaft : AISI420SS
31a	Bearing	Ball bearing
31b	Bearing	Ball bearing
34	Mechanical seal	Sic-Sic/Sic-Sic
35	Oil seal	
47	Cable	

All content is subject to change without notice.

Movable Soft Pipe Installation (R)



Movable Hard Pipe Installation (Y)



Dimensions

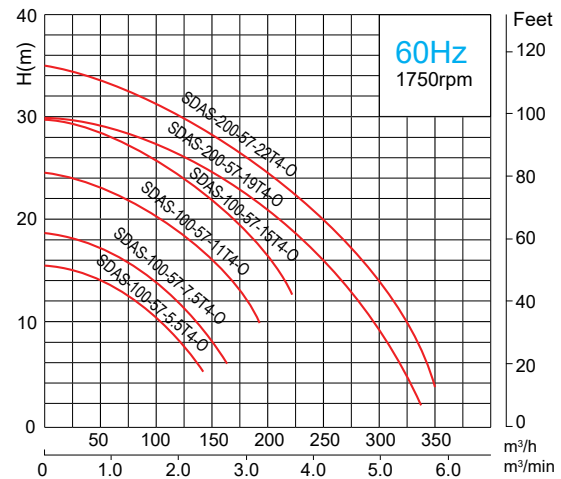
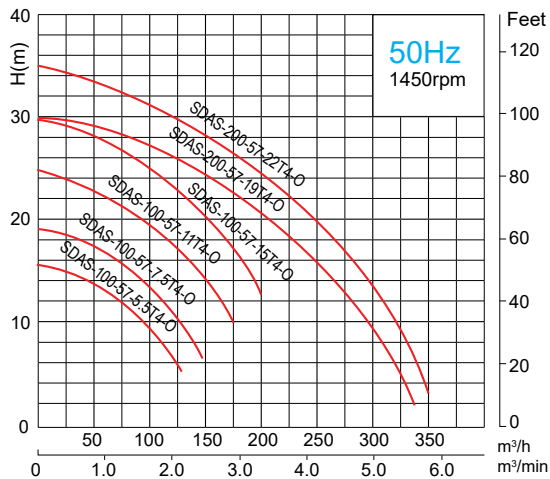
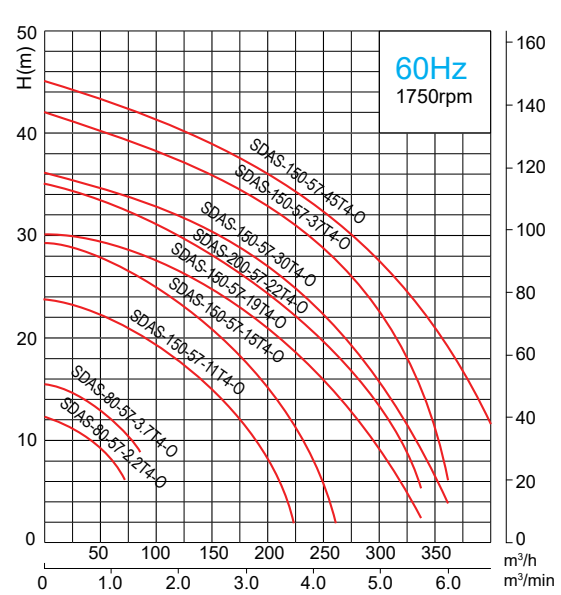
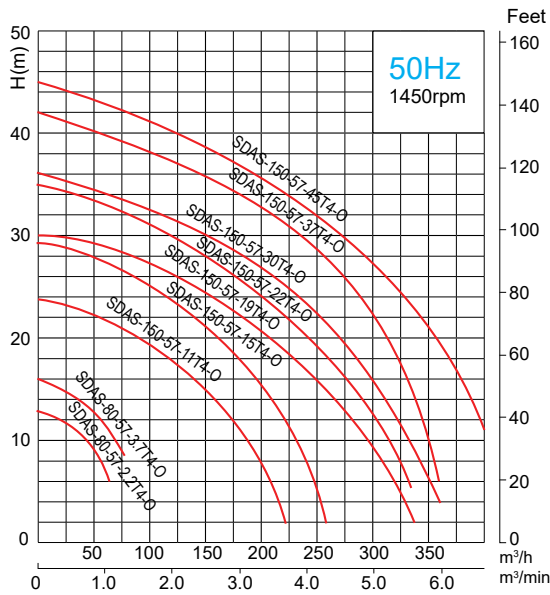
Model	Ød	ØA1	ØB1	ØC1	n-Ød1	h1	h2	h3	W1	W2	H	O	P	Q	L	D	M1	M2	N1	N2
SDAS-80-57-2.2T4-O	80	80	150	190	4-Ø18	331	325	185	474	235	625	168	223	158	210	381	302	352	507	614
SDAS-80-57-3.7T4-O	80	80	150	190	4-Ø18	331	325	185	539	235	690	168	223	158	210	381	302	352	507	614
SDAS-100-57-5.5T4-O	100	100	170	210	4-Ø18	426	406	256	616	309	854	206	265	188	230	453	333	382	588	693
SDAS-100-57-7.5T4-O	100	100	170	210	4-Ø18	426	406	256	661	309	899	206	265	188	230	453	333	382	588	693
SDAS-100-57-11T4-O	100	100	170	210	4-Ø18	425	405	255	691	308	958	221	275	208	240	483	343	393	613	719
SDAS-150-57-11T4-O	150	150	225	265	8-Ø18	480	455	255	691	308	958	221	303	208	240	511	393	443	689	797
SDAS-100-57-15T4-O	100	100	170	210	4-Ø18	425	405	255	736	308	1008	221	275	208	240	483	343	393	613	719
SDAS-150-57-15T4-O	150	150	225	265	8-Ø18	480	526	255	736	308	1008	221	303	208	240	511	393	443	689	797
SDAS-150-57-19T4-O	150	150	225	265	8-Ø18	521	496	296	808	360	1103	264	326	247	280	573	433	483	772	880
SDAS-200-57-19T4-O	200	200	295	340	8-Ø18	606	526	296	808	360	1103	264	363	247	280	610	483	513	848	948
SDAS-150-57-22T4-O	150	150	225	265	8-Ø18	521	496	296	828	360	1123	264	326	247	280	573	433	483	772	880
SDAS-200-57-22T4-O	200	200	295	340	8-Ø18	606	526	296	828	360	1123	264	363	247	280	610	483	513	848	948
SDAS-150-57-30T4-O	150	150	240	285	8-Ø18	545	520	320	900	350	1250	290	333	282	340	615	492	542	854	975
SDAS-150-57-37T4-O	150	150	240	285	8-Ø18	545	520	320	890	350	1302	290	333	282	340	615	492	542	854	975
SDAS-150-57-45T4-O	150	150	240	285	8-Ø18	545	520	320	930	350	1302	290	333	282	340	615	493	542	854	975

MODEL	R			Y		
	N.W	G.W	Packing Dimension	N.W	G.W	Packing Dimension
	Kg	Kg	mm	Kg	Kg	mm
SDAS-80-57-2.2T4-O	79	87	725x375x495	83	91	755x375x495
SDAS-80-57-3.7T4-O	89	98	785x375x495	93	101	815x375x495
SDAS-100-57-5.5T4-O	141	152	985x455x605	147	159	985x455x605
SDAS-100-57-7.5T4-O	156	168	1015x455x605	162	174	1015x455x605
SDAS-100-57-11T4-O	236	256	700x480x1195	242	262	700x480x1195
SDAS-150-57-11T4-O	245	265	700x480x1195	253	273	700x480x1195
SDAS-100-57-15T4-O	260	280	700x480x1195	266	286	700x480x1195

MODEL	R			Y		
	N.W	G.W	Packing Dimension	N.W	G.W	Packing Dimension
	Kg	Kg	mm	Kg	Kg	mm
SDAS-150-57-15T4-O	269	289	700x480x1195	277	297	700x480x1195
SDAS-150-57-19T4-O	342	372	480x600x1330	350	380	780x600x1330
SDAS-200-57-19T4-O	361	391	780x600x1330	369	399	780x600x1330
SDAS-150-57-22T4-O	355	385	780x600x1330	363	393	780x600x1330
SDAS-200-57-22T4-O	374	404	780x600x1330	382	412	780x600x1330
SDAS-150-57-30T4-O	444	466	780x600x1470	452	474	780x600x1290
SDAS-150-57-37T4-O	534	556	780x600x1520	542	564	780x600x1340
SDAS-150-57-45T4-O	562	584	780x600x1520	570	592	780x600x1340

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Performance curves



Model 50Hz/60Hz	Voltage	Current	Motor Power		Outlet		Rated Capacity	Rated Head	Max Capacity	Max Head	Impeller Passage	Cable
	V	A	kW	HP	inch	mm	m³/h	m	m³/h	m	mm	mm²
SDAS-80-57-2.2T4-O	380	5.0	2.2	3	3	80	50	10	75	13	20	1.5
SDAS-80-57-3.7T4-O	380	8.5	3.7	5	3	80	60	12	85	16	20	1.5
SDAS-100-57-5.5T4-O	380	11.7	5.5	7.5	4	100	65	13	140	16	30	2.5
SDAS-100-57-7.5T4-O	380	15.7	7.5	10	4	100	100	14	160	19	30	4.0
SDAS-100-57-11T4-O	380	22	11	15	4	100	100	20	190	24	30	6.0
SDAS-150-57-11T4-O	380	22	11	15	6	150	100	20	220	24	30	6.0
SDAS-100-57-15T4-O	380	30.1	15	20	4	100	100	25	220	30	30	6.0
SDAS-150-57-15T4-O	380	30.1	15	20	6	150	100	25	255	30	30	6.0
SDAS-150-57-19T4-O	380	38	19	25	6	150	150	24	330	30	30	10.0
SDAS-200-57-19T4-O	380	38	19	25	8	200	150	24	330	30	30	10.0
SDAS-150-57-22T4-O	380	45	22	30	6	150	150	28	330	35	30	10.0
SDAS-200-57-22T4-O	380	45	22	30	8	200	150	28	350	35	30	10.0
SDAS-150-57-30T4-O	380	57.6	30	40	6	150	150	30	360	36	30	16.0
SDAS-150-57-37T4-O	380	69.8	37	50	6	150	150	36	366	43	30	16.0
SDAS-150-57-45T4-O	380	84.5	45	60	6	150	200	36	402	45	30	10.0x2

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55 ~75kW 4P - 50Hz : 1450rpm

The SDQ submersible sand pump is specially designed for harsh environment, sites pumping containing solids and other abrasive material. Every component of it fully reflects the high durability, reliability, and ease of serviceability. SDQ submersible sand pump is adopted with F Class insulated 4-pole motor, high wear-resistant mechanical seal, heavy duty semi-open high wear-resistant alloy impeller. This is an agitator in the lower part of this part if this pump, the sediment at the bottom at the bottom of water will be stirred into a suspension from and then be sucked into the inlet to be discharged to clear completely.



Main Advantages

- Specially designed for harsh environments
- Durability, reliability, and ease of serviceability
- High-wear resistant mechanical seals
- Comes in two sizes 50Hz: 1450rpm 60Hz: 1750rpm

Application

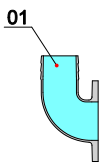
- Underwater silt extraction, clear the bottom of a pond, clean up the sedimentation tank
- Drainage of construction silt water, mine surface drainage
- Industrial mining enterprises pumping sewage water containing quartz sand, slime, sludge and other abrasive materials

Specification

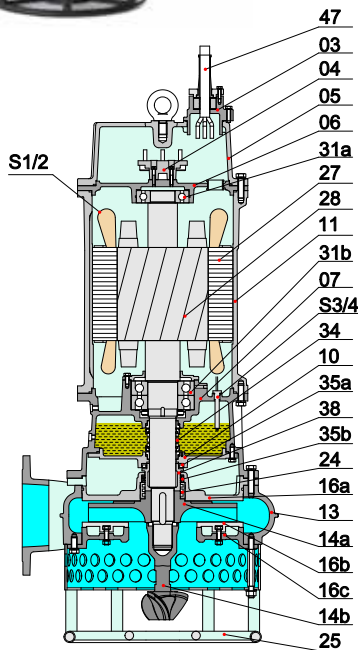
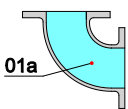
- Insulation class: F
- Protection class: IP68
- Water temperature: up to 40°C
- PH: 6 to 10
- Density of liquid: 1.3g/cm³
- Power supply: three phase 380V ±10%, 50Hz
- Capacity: up to 600m³/h
- Head: up to 57m
- Maximum immersion depth: 15m
- Cable Length: 10m

Type	Pump body	Material
SDQ	Ductile iron	High chrome alloy
SDQ-G		High chrome alloy

Movable Soft Pipe Installation (R)



Movable Hard Pipe Installation (Y)

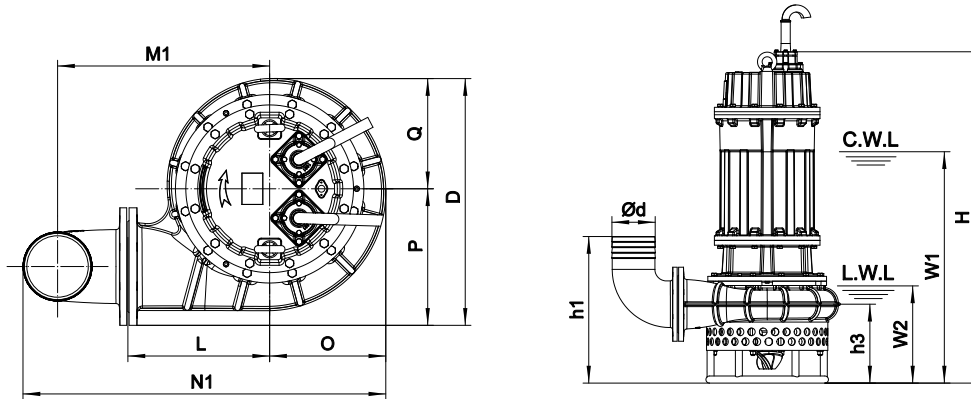


Material of construction

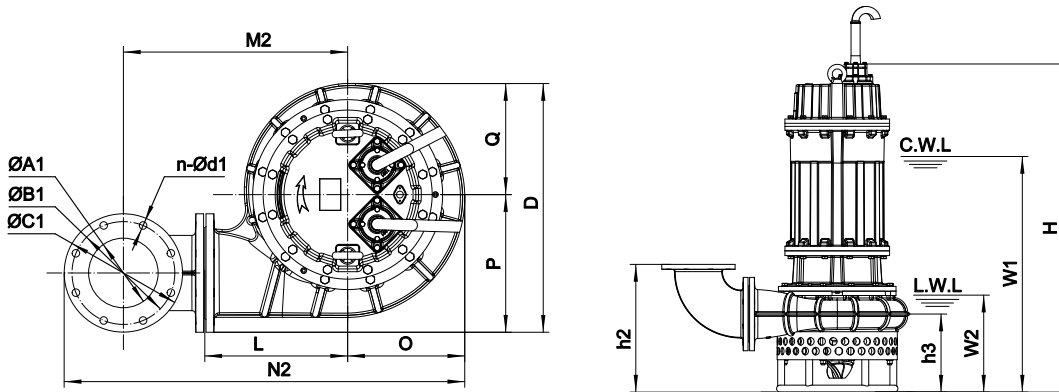
Item No.	Part Name	Material
01	Hose coupling	Cast iron
01a	Hose coupling	Cast iron
03	Terminal box	Cast iron
04	Wiring terminal	
05	Upper cover	Cast iron
06	Up-Bearing house	Cast iron
07	Bearing house	Cast iron
10	Seal bracket	Cast iron
11	Motor body	Cast iron
13	Pump body	Ductile iron
14a	Impeller	High chrome alloy
14b	Agitator	High chrome alloy
16a	Inlet plate	Ductile iron
16b	Inlet plate	High chrome alloy

Item No.	Part Name	Material
16c	Inlet plate	Cast iron
24	Neck ring	AISI420SS
25	Strainer	
27	Stator	Shaft: AISI420SS
28	Rotor	
31a	Bearing	
31b	Bearing	
34	Mechanical seal	Sic-Sic/Sic-Sic
35a	Oil seal	
35b	Oil seal	
38	Shaft sleeve	AISI420SS
47	Cable	
S1/2	Overheat protector	
S3/4	Oil water leakage proble	

Movable Soft Pipe Installation (R)



Movable Hard Pipe Installation (Y)



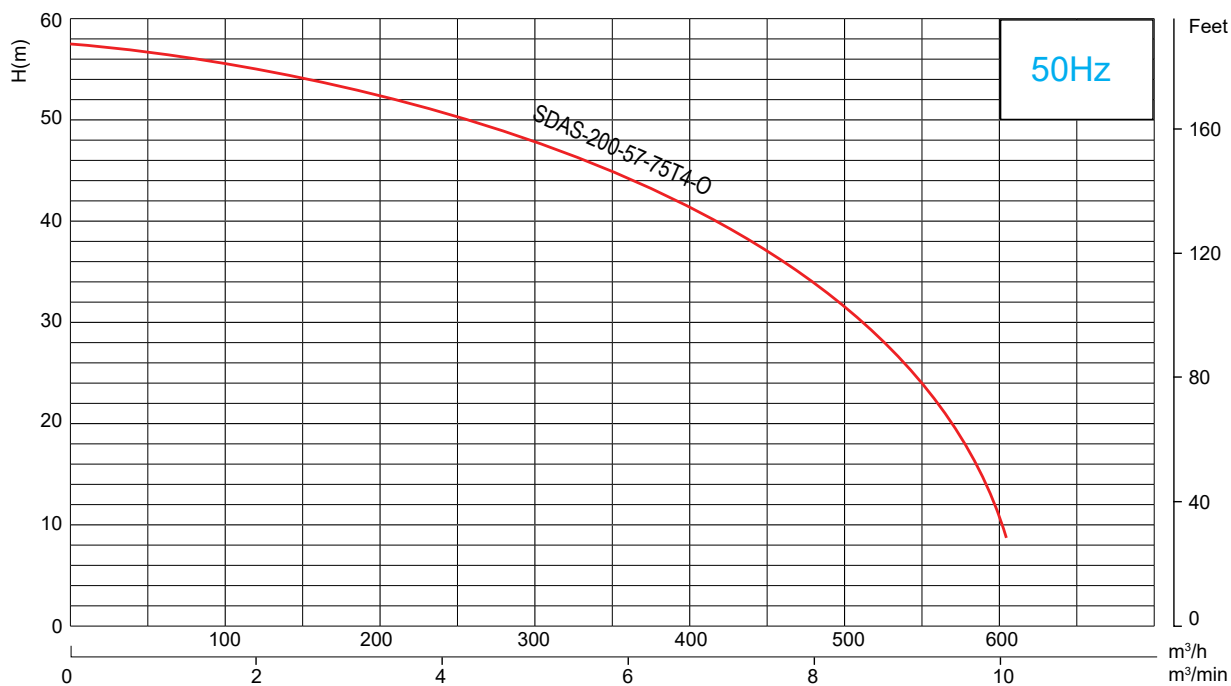
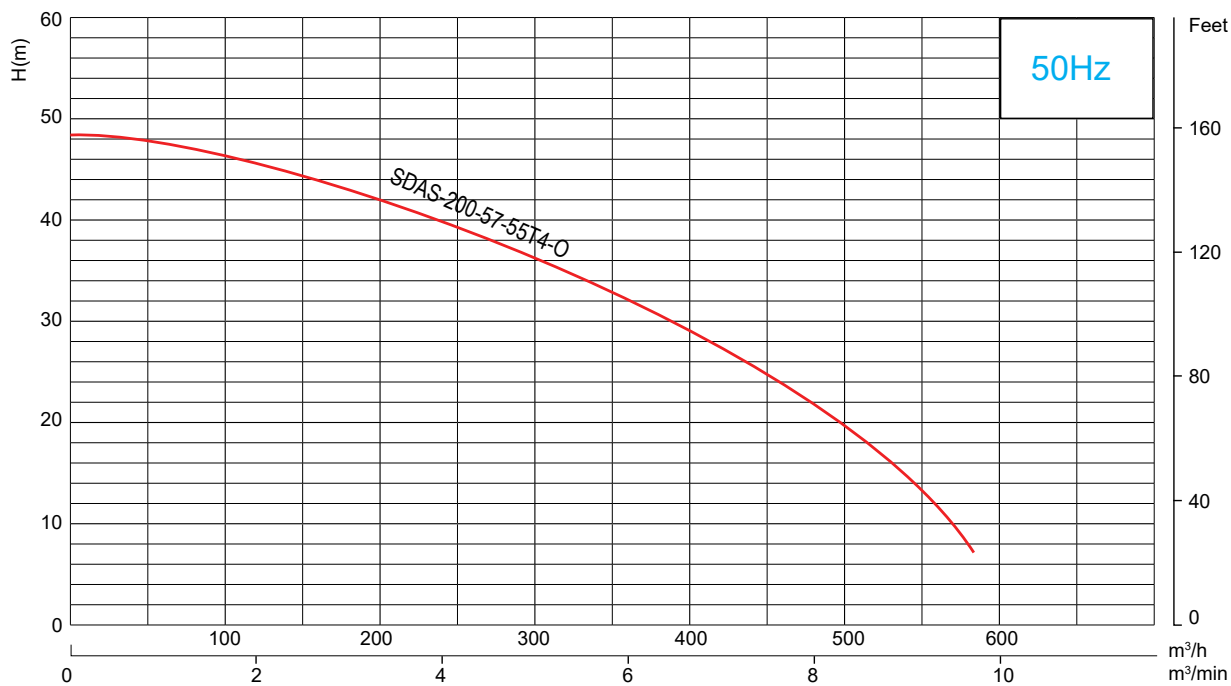
Dimensions

Model	Ød	G	ØA1	ØB1	ØC1	n-Ød1	h1	h2	h3	W1	W2	H	O	P	Q	L	D	M1	M2	N1	N2
SDAS-200-57-55T4-O	200	-	200	295	340	8-Ø22	673	592	362	1150	450	1576	336	395	319	410	714	614	644	1049	1149
SDAS-200-57-75T4-O	200	-	200	295	340	8-Ø22	673	592	362	1150	450	1576	336	395	319	410	714	614	644	1049	1149

MODEL	R			Y		
	N.W	G.W	Packing Dimension	N.W	G.W	Packing Dimension
	Kg	Kg	mm	Kg	Kg	mm
SDAS-200-57-55T4-O	812	860	950x770x1950	820	868	950x790x1950

MODEL	R			Y		
	N.W	G.W	Packing Dimension	N.W	G.W	Packing Dimension
	Kg	Kg	mm	Kg	Kg	mm
SDAS-200-57-75T4-O	880	928	950x770x1950	888	936	950x790x1950

Performance curves



Model 50Hz	Voltage	Current	Motor Power		Outlet		Rated Capacity	Rated Head	Max Capacity	Max Head	Impeller Passage
	V	A	kW	HP	inch	mm	m³/h	m	m³/h	m	mm
SDAS-200-57-55T4-O	380	105	55	75	8	200	300	36	580	48	40
SDAS-200-57-75T4-O	380	141	75	110	8	200	300	46	600	57	40

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Aquaplus Product Range

ESD Series – End Suction DIN (24255) Pumps

ESI Series – End Suction ISO (2585) Pumps

SP Series – Self Priming Pumps

SD Series – Submersible Dewatering Pumps

SS Series – Submersible Sewerage Pumps

AD Series – Air Diaphragm Pumps

MS Series – Mechanical Seals (Single Spring & Cartridge)



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