

HD(AS) SERIES

SUBMERSIBLE DEWATERING PUMPS

POWER : 1.5~20HP (1.1~15kW)

MAX.HEAD : 190feet (58m)

MAX.FLOW : 715US.GPM (2.7m³/min)



PRODUCT NOMENCLATURE

Example :

100	HD	2	5.5
Discharge mm	Type	Pole	kW

FEATURES

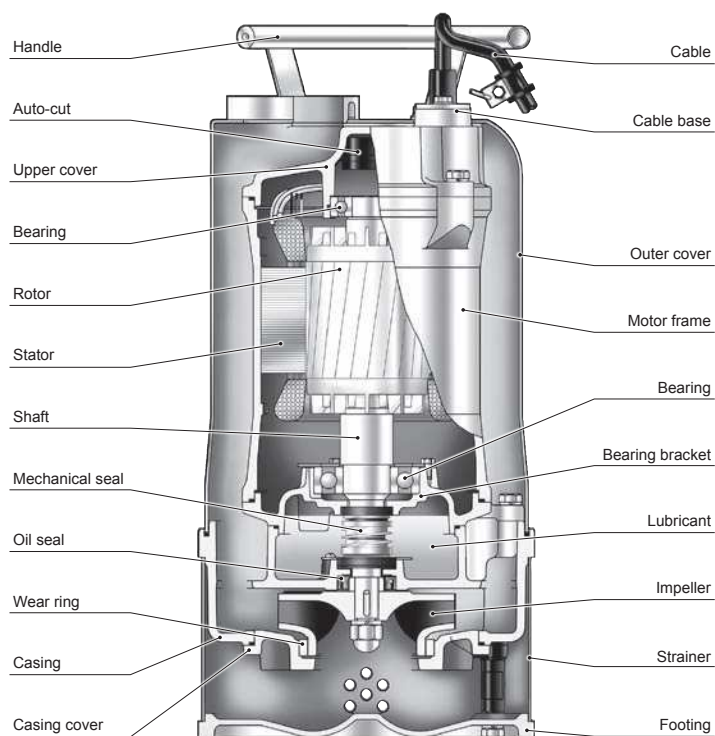
- Complete stainless steel outer cover of HD 1.5HP ~ 20HP (1.1kW~15kW) models provide exceptional consolidated design, with light weight structure of less than 295 lbs (134kg) and diameter of 13 inches (330mm) that provide miniature outlook.
- Special designed high efficiency and water resistant HiCr(high chrome) impeller.
- Multi impeller design suitable from high head with small capacity to low head with large capacity application requirements.
- Optional discharge connection(hose,flange and thread connection).
- Compact, strong and easy handling for all civil engineering application conditions.

APPLICATIONS

- Civil engineering, dewatering of tunneling and ground works, also for storm water sewers.
- Dewatering of fluids containing solid sediments.
- Ease of mobility for use by contractors, installers and service industries.

HiCrFC impeller

- High chrome alloy (HiCrFC) steel hardness of 55-60 HRC impeller to stand high abrasive applications.



HD(AS) SERIES SUBMERSIBLE DEWATERING PUMPS
50HD21.1(AS-215) · 50HD21.5(ASH21.5) · 50HD22.2(ASH22.2) · 50HD23.7(ASH23.7)

SPECIFICATIONS

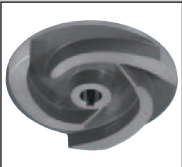
Item		Description
Limits of Use	Liquid Temp.	0~40°C(32~104°F)
	Applications	Construction sites Basins dewatering
Type	Frequency	60Hz
	Motor	2P(3600rpm)·Dry Motor
	Insulation	Class B(5HP:Class F)
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball type
	M.seal	Double M.seals
	Impeller	Semi-open
Material	Upper Cover	FC200
	Motor Frame	SUS304(1.5HP)·FC200(2~5HP)
	Shaft	SUS403(1.5~3HP)·SUS304(5HP)
	M.seal	CA/CE & SiC/SiC
	Casing	FC200
	Impeller	HiCrFC
	Wear plate	HiCrFC(2~5HP)
	Cable	VCT or H07RN-F or SJOW/SOW
Optional		—



50HD21.1(AS-215)



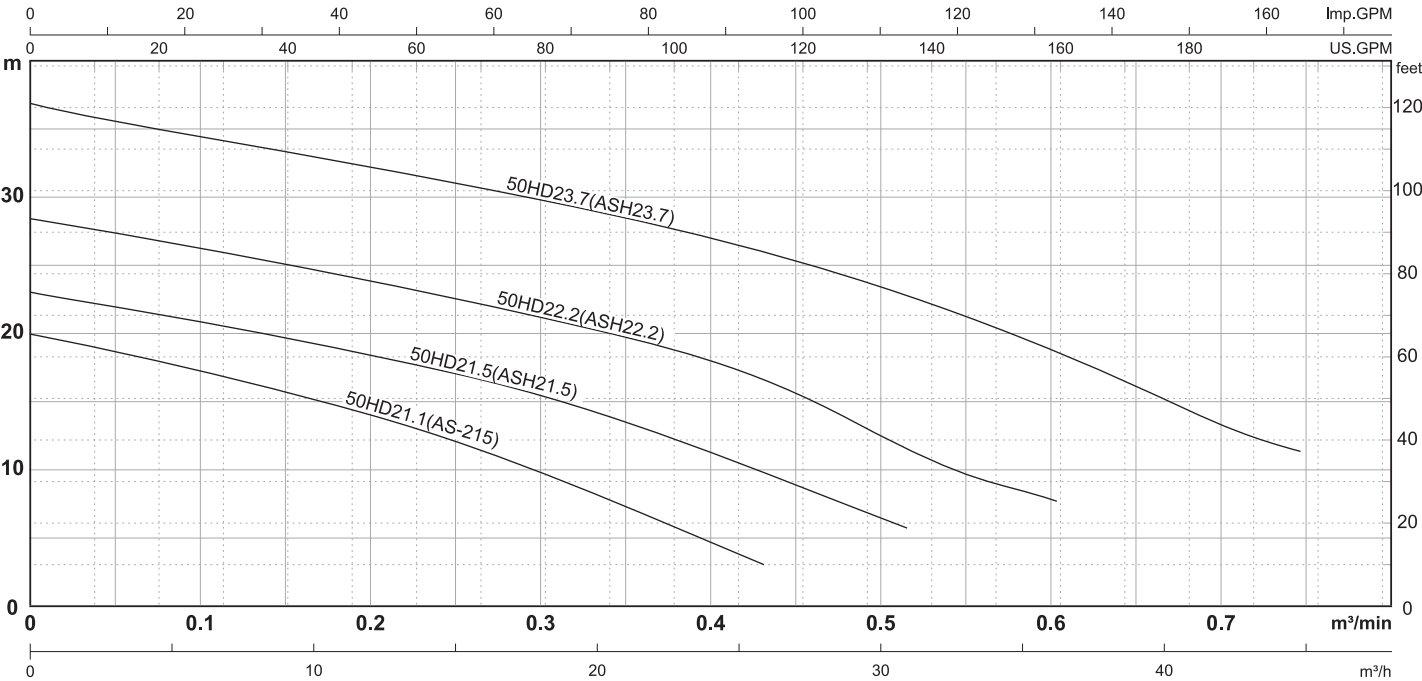
50HD21.5(ASH21.5)
50HD22.2(ASH22.2)
50HD23.7(ASH23.7)



Semi-open Impeller

Model	Power HP(kW)	Discharge inch(mm)	Standard		MAX		Solid Passage mm(inch)	Weight(W/O Cable)		Phase Voltage	1Ø	1Ø	3Ø	3Ø	3Ø	3Ø	3Ø
			m-m³/min	ft-GPM	m-m³/min	ft-GPM		1Ø-kg(lbs)	3Ø-kg(lbs)		110V	220V	220V	230V	380V	460V	575V
50HD21.1 (AS-215)	1.5(1.1)	2"(50)	13.5-0.2	44-52	20-0.42	66-110	7.5(1/4")	28(62)	24(53)	Full load Ampere	16.4	8.2	4.8	4.6	2.7	2.3	1.8
50HD21.5 (ASH21.5)	2(1.5)	2"(50)	16.5-0.25	54-66	23-0.55	76-145	10(3/8")	40(88)	36(79)		—	10.2	6.2	6.1	3.5	3.1	2.9
50HD22.2 (ASH22.2)	3(2.2)	2"(50)	20.5-0.3	67-80	28.5-0.65	94-172	10(3/8")	44(97)	39(86)		—	14.6	8.8	8.6	4.9	4.3	3.4
50HD23.7 (ASH23.7)	5(3.7)	2"(50)	29.5-0.3	97-80	36-0.8	118-212	10(3/8")	—	44(97)		—	—	14.0	13.8	7.9	6.6	5.5

PERFORMANCE CURVES



Model	Power HP(kW)	Discharge inch(mm)	H:feet	20'	30'	40'	50'	60'	80'	100'	120'	Q:m³/min	0.1	0.2	0.3	0.4	0.5	0.6	0.7
				Q:US.GPM	99	83	65	44	17	—	—	Q:m³/h	6	12	18	24	30	36	42
50HD21.1 (AS-215)	1.5(1.1)	2"(50)	Q:US.GPM	H:m	134	118	100	81	54	—	—	17.2	14.0	9.8	4.8	—	—	—	—
50HD21.5 (ASH21.5)	2(1.5)	2"(50)			—	149	134	121	104	48	—	20.9	18.4	15.5	11.4	6.4	—	—	—
50HD22.2 (ASH22.2)	3(2.2)	2"(50)			—	—	192	176	162	126	72	26.3	23.8	21.2	18.0	12.6	7.8	—	—
50HD23.7 (ASH23.7)	5(3.7)	2"(50)			—	—	—	—	—	—	3	34.4	32.2	29.8	27.0	23.4	18.9	13.4	—

HD(AS) SERIES SUBMERSIBLE DEWATERING PUMPS
80HD21.5(ASN21.5) · 80HD22.2(ASN22.2) · 80HD23.7(ASN23.7) · 100HD23.7(ASL23.7)

SPECIFICATIONS

Item		Description
Limits of Use	Liquid Temp.	0~40°C(32~104°F)
	Applications	Construction sites Basins dewatering
Type	Frequency	60Hz
	Motor	2P(3600rpm)·Dry Motor
	Insulation	Class B (5HP:Class F)
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball type
	M.seal	Double M.seals
	Impeller	Enclosed-channel
Material	Upper Cover	FC200
	Motor Frame	FC200
	Shaft	SUS403(2~3HP)·SUS304(5HP)
	M.seal	CA/CE & SiC/SiC
	Casing	FC200
	Impeller	HiCrFC
	Wear plate	HiCrFC
	Cable	VCT or H07RN-F or SJOW/SOW
Optional		—

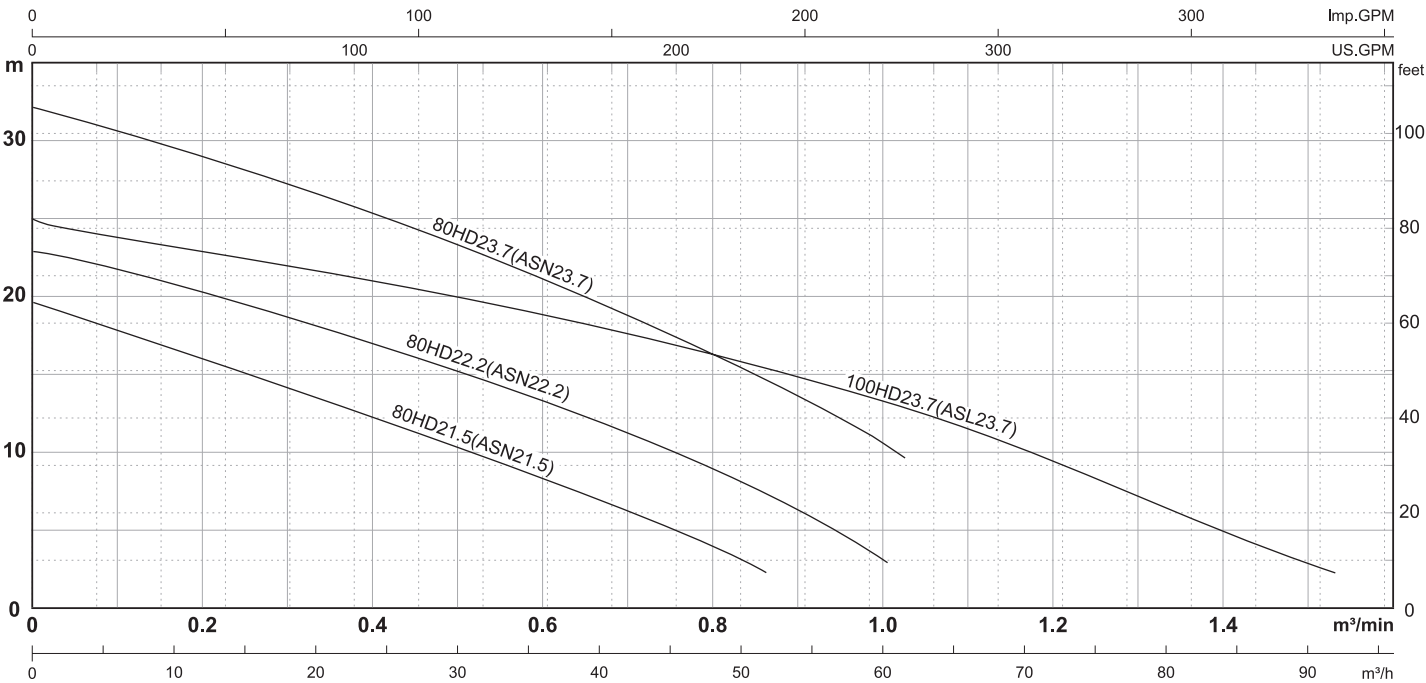


Enclosed-channel Impeller

80HD21.5(ASN21.5) · 80HD22.2(ASN22.2)
80HD23.7(ASN23.7) · 100HD23.7(ASL23.7)

Model	Power HP(kW)	Discharge inch(mm)	Standard		MAX		Solid Passage mm(inch)	Weight(W/O Cable)		Phase Voltage	1Ø	1Ø	3Ø	3Ø	3Ø	3Ø	3Ø
			m-m³/min	ft-GPM	m-m³/min	ft-GPM		1Ø-kg(lbs)	3Ø-kg(lbs)		110V	220V	220V	230V	380V	460V	575V
80HD21.5 (ASN21.5)	2(1.5)	3"(80)	10-0.5	33-132	19.5-0.9	64-238	10(3/8")	40(88)	36(79)	Full load Ampere	—	10.2	6.2	6.1	3.5	3.1	2.9
80HD22.2 (ASN22.2)	3(2.2)	3"(80)	15-0.5	49-132	23-1.05	76-275	10(3/8")	44(97)	39(86)		—	14.6	8.8	8.6	4.9	4.3	3.4
80HD23.7 (ASN23.7)	5(3.7)	3"(80)	22.5-0.5	74-132	32-1.1	105-290	10(3/8")	—	44(97)		—	—	14.0	13.8	7.9	6.6	5.5
100HD23.7 (ASL23.7)	5(3.7)	4"(100)	13-1.0	43-265	25-1.6	82-425	10(3/8")	—	44(97)		—	—	14.0	13.8	7.9	6.6	5.5

PERFORMANCE CURVES



Model	Power HP(kW)	Discharge inch(mm)	H:feet											Q:m³/min							
				10'	20'	30'	40'	50'	60'	80'	100'			0.2	0.4	0.6	0.8	1	1.2	1.4	
80HD21.5 (ASN21.5)	2(1.5)	3"(80)	Q:US.GPM	221	187	148	106	63	19	—	—	H:m	Q:m³/h	12	24	36	48	60	78	84	
80HD22.2 (ASN22.2)	3(2.2)	3"(80)		264	240	209	173	131	85	—	—			16.0	12.2	8.4	4.0	—	—	—	
80HD23.7 (ASN23.7)	5(3.7)	3"(80)		—	—	—	250	222	190	118	28			20.3	17.0	13.4	9.0	3.1	—	—	
100HD23.7 (ASL23.7)	5(3.7)	4"(100)		393	356	320	280	230	170	—	—			22.9	21.0	18.8	16.3	13.3	9.4	5.0	

HD(AS) SERIES SUBMERSIBLE DEWATERING PUMPS

80HD25.5(ASH25.5) · 100HD25.5(ASN25.5) · 100HD27.5(ASN27.5) · 150HD27.5(ASL27.5)

SPECIFICATIONS

Item		Description
Limits of Use	Liquid Temp.	0~40℃(32~104°F)
	Applications	Construction sites Basins dewatering
Type	Frequency	60Hz
	Motor	2P(3600rpm)·Dry Motor
	Insulation	Class F
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball type
	M.seal	Double M.seals
	Impeller	Enclosed-channel (80ASH25.5:Semi-open Impeller)
Material	Upper Cover	FC200
	Motor Frame	FC200
	Shaft	SUS304
	M.seal	CA/CE & SiC/SiC
	Casing	FC200
	Impeller	HiCrFC
	Wear plate	HiCrFC(For Semi-open)
	Wear ring	HiCrFC(For Enclosed-channel)
	Cable	VCT or H07RN-F or SOW
	Optional	—

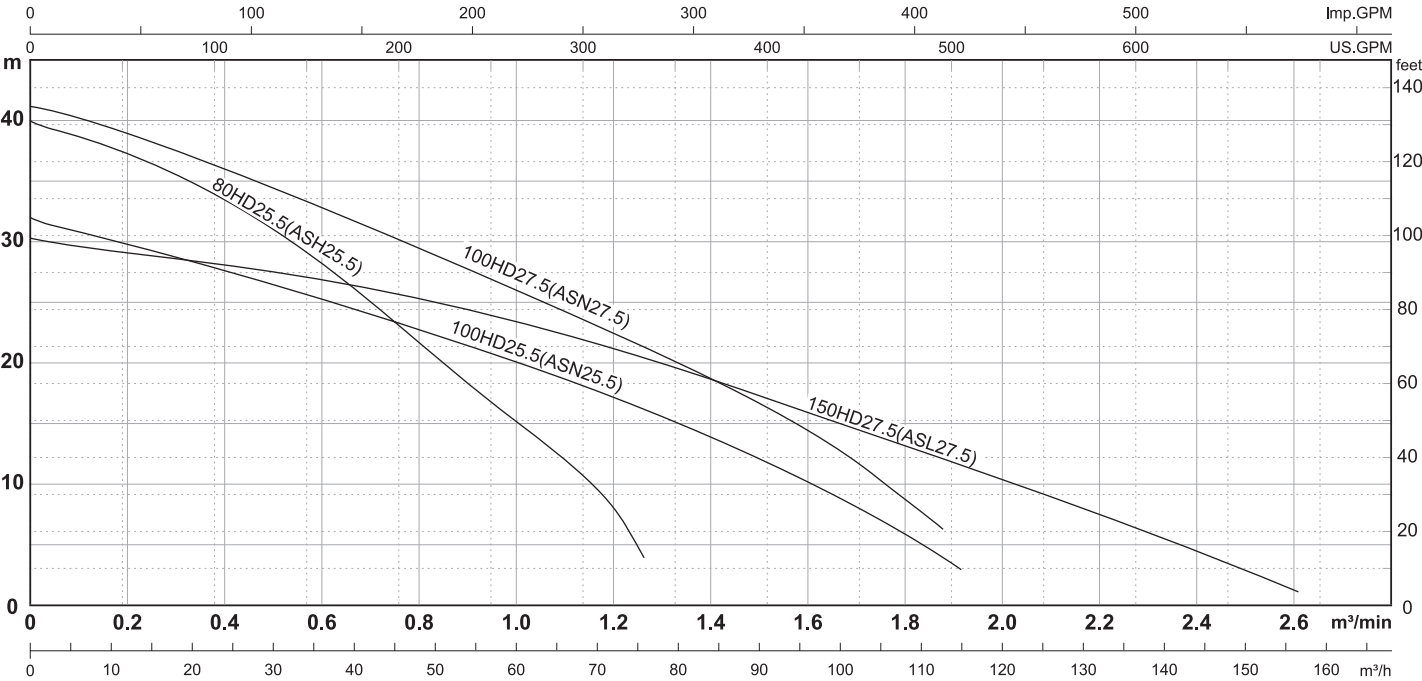


Semi-open Impeller

Enclosed-channel Impeller

Model	Power HP(kW)	Discharge inch(mm)	Standard		MAX		Solid Passage mm(inch)	Weight(W/O Cable)		Phase								
			m-m³/min	ft-GPM	m-m³/min	ft-GPM		1Ø-kg(lbs)	3Ø-kg(lbs)		Voltage	110V	220V	220V	230V	380V	460V	575V
80HD25.5 (ASH25.5)	7.5(5.5)	3"(80)	30-0.5	98-132	40-1.3	131-345	10(3/8")	—	69(152)	Full load Ampere	—	—	20.0	19.6	11.3	9.8	8.2	
100HD25.5 (ASN25.5)	7.5(5.5)	4"(100)	20-1.0	66-265	32-2.0	105-530	10(3/8")	—	71(157)		—	—	20.0	19.6	11.3	9.8	8.2	
100HD27.5 (ASN27.5)	10(7.5)	4"(100)	26-1.0	85-265	41.5-1.8	136-475	10(3/8")	—	79(174)		—	—	26.2	25.6	14.8	12.8	10.8	
150HD27.5 (ASL27.5)	10(7.5)	6"(150)	17-1.5	56-395	30-2.7	98-715	10(3/8")	—	81(179)		—	—	26.2	25.6	14.8	12.8	10.8	

PERFORMANCE CURVES



Model	Power HP(kW)	Discharge inch(mm)	H:feet																		
				10'	20'	30'	40'	60'	80'	100'	120'	Q:m³/min	Q:m³/h	0.2	0.4	0.6	0.8	1.2	1.6	2	2.4
80HD25.5 (ASH25.5)	7.5(5.5)	3"(80)	Q:US.GPM	—	325	310	289	238	190	137	64	H:m	Q:m³/h	37.2	33.4	28.2	21.6	8.0	—	—	—
100HD25.5 (ASN25.5)	7.5(5.5)	4"(100)		504	472	436	395	298	178	35	—			29.8	27.6	25.3	22.8	17.2	10.2	—	—
100HD27.5 (ASN27.5)	10(7.5)	4"(100)		—	—	472	445	376	288	195	96			39.0	36.0	32.9	29.6	22.4	14.4	—	—
150HD27.5 (ASL27.5)	10(7.5)	6"(150)		657	606	550	494	377	—	—	—			29.1	28.1	26.9	25.4	21.2	16.0	10.4	4.6

HD SERIES SUBMERSIBLE DEWATERING PUMPS

100HD211 · 150HD215

SPECIFICATIONS

Item		Description
Limits of Use	Liquid Temp.	0~40°C(32~104°F)
	Applications	Construction sites Basins dewatering
Type	Frequency	60Hz
	Motor	2P(3600rpm)·Dry Motor
	Insulation	Class F
	Protection	IP68
	Protector	Auto-cut
	Bearing	Ball type
	M.seal	Double M.seals
	Impeller	Enclosed-channel
Material	Upper Cover	FC200
	Motor Frame	FC200
	Shaft	SUS420J2
	M.seal	CA/CE & SiC/SiC
	Casing	FC200
	Impeller	HiCrFC
	Wear ring	HiCrFC
	Cable	VCT or H07RN-F or SOW
Optional		—



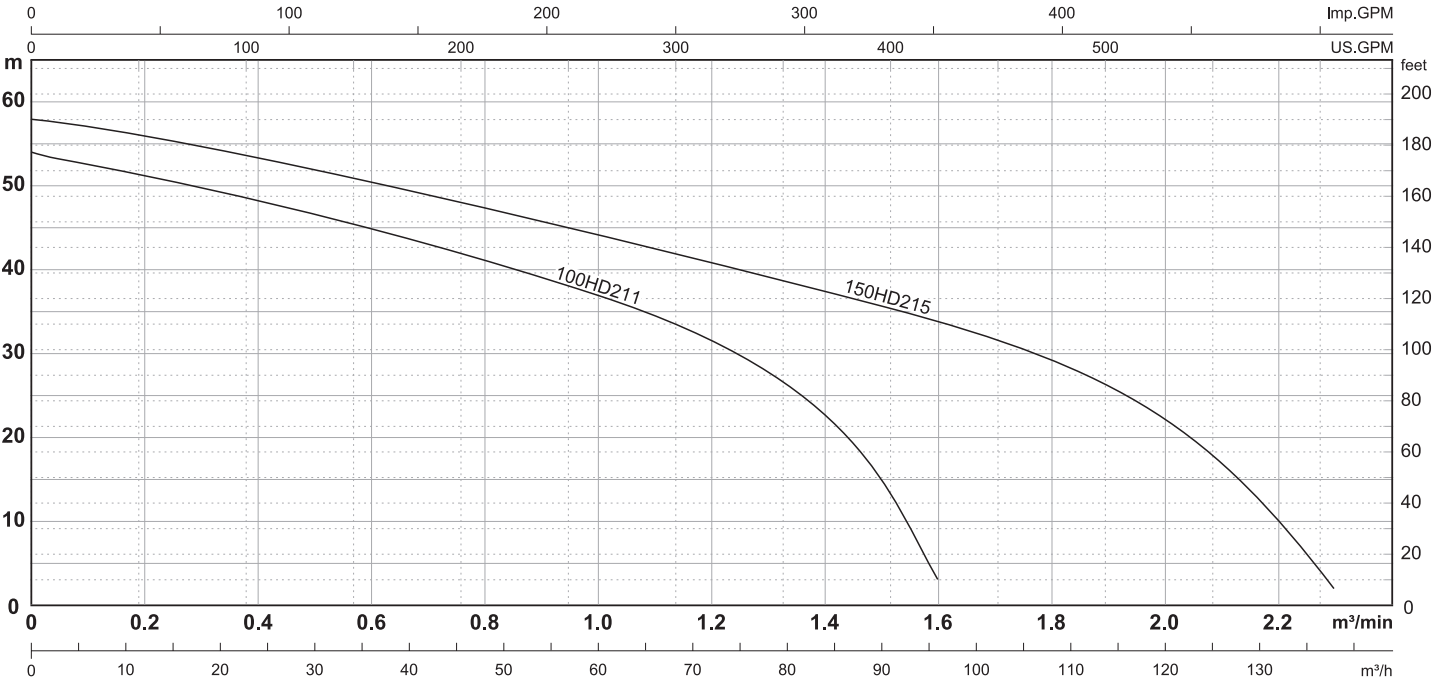
100HD211 · 150HD215



Enclosed-channel Impeller

Model	Power HP(kW)	Discharge inch(mm)	Standard		MAX		Solid Passage mm(inch)	Weight(W/O Cable)		Phase Voltage	1Ø	1Ø	3Ø	3Ø	3Ø	3Ø	3Ø
			m-m³/min	ft-GPM	m-m³/min	ft-GPM		1Ø-kg(lbs)	3Ø-kg(lbs)		110V	220V	220V	230V	380V	460V	575V
100HD211	15(11)	4"(100)	35-1.0	115-265	54-1.6	177-425	10(3/8")	—	122(269)	Full load Ampere	—	—	39.0	38.6	21.8	19.3	15.4
150HD215	20(15)	6"(150)	35-1.5	115-395	58-2.3	190-610	10(3/8")	—	132(291)		—	—	51.2	50.4	28.6	25.2	20.2

PERFORMANCE CURVES



Model	Power HP(kW)	Discharge inch(mm)	H:feet	20'	40'	60'	80'	100'	120'	140'	180'	Q:m³/min	0.2	0.4	0.6	0.8	1	1.4	1.8	2.2
												Q:m³/h	12	24	36	48	60	84	108	132
100HD211	15(11)	4"(100)	Q:US.GPM	415	402	386	362	326	268	192	—	H:m	51.4	48.4	45.0	41.2	37.0	22.8	—	—
150HD215	20(15)	6"(150)		594	573	548	514	464	384	290	78		56.0	53.4	50.6	47.4	44.2	37.4	29.2	10