

# (*DEWATERING & DRAINAGE* SUBMERSIBLE ELECTRIC PUMPS))





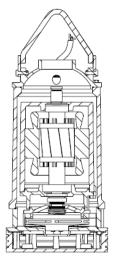






### **Applications:**

DD 100/4/11 & DD 100/4/9.2 & DD 100/4/7.5 & DD 100/4/5.5 move large volumes of water quickly and efficiently in mines, tunnels, cofferdams, deep excavations, construction sites, etc. They are specially designed to handle media containing highly abrasive materials, such as clay, sand, drilling dust, etc.



### **Dewatering & Drainage Pumps** DD 100/4/11 DD 100/4/9.2 Types DD 100/4/7.5 DD 100/4/5.5

Capacity up to 120 m<sup>3</sup>/h, heads up to 40 m.

### Specifications

>> Motor data		
Squirrel cage 3-phase induction	n motor	
Frequency	50 HZ	
Insulation class	H(+180 <sup>0</sup> C)	
Ingress of protection	IP68	
Voltage variation		
-continuously running	Max $\pm$ 5%	
-intermittent running	Max $\pm$ 10%	
Voltage imbalance between phases	Max ± 2%	
No. of start/hour	Max 15	

### >> Material Outer casing

Upper

Lower

Outer casing	Aluminum
Impeller	High chrome alloyed Cast
	iron ASTM 532.80
Wear parts	Rubber-liner
Stator housing	Cast iron
Strainer	Steel
Shaft	Stainless steel ANSI 420
O-ring	Viton rubber

### >> Mechanical face seals

Silicon carbide/Carbon
Tungsten carbide/Silicon
Carbide

Deep groove ball bearing

Deep groove ball bearing Angular contact ball bearing

>> Bearings Upper Lower

Fasteners. Stainless steel ANSI 304.

### **Options.**

Rubber-lined wear parts Various cable sizes.

### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.

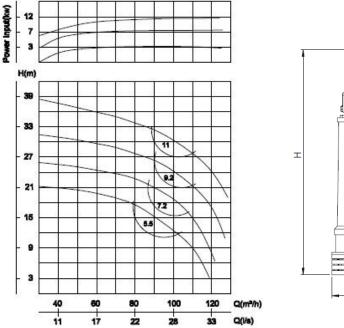
### DDS 100/4/11 & DD 100/4/9.2 & DD 100/4/7.5 & DD 100/4/5.5

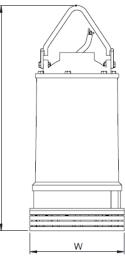
Power Input and Performance Data

VERSION

DD 100/4/11

DD 100/4/9.2 DD 100/4/7.5 DD 100/4/5.5





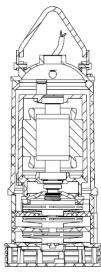
Dimensions						
W	W	Н	Н	Wei	ight	
inches	mm	inches	mm	Lbs.	kg	
DD 100/4/11			-			
12	315	32	815	231	105	
DD 100/4/9.	2					
12	315	31	800	205	93	
DD 100/4/7.	5					
12	315	30	770	176	80	
DD 100/4/5.	5					
12	315	29.5	750	165	75	
PHASE	VOLT	S FL	A	STARTIN CURREN	-	CABLE SIZE AWG
3	380	22	2	88		4*6
3	380	18	3	72		4*6
3	380	15	5	60		4*4
 3	380	11	L	44		4*4





### **Applications:**

DDS 80/3/11 & DDS 80/3/9.2 move large volumes of water quickly and efficiently in tunnels, cofferdams, mines, deep excavations, construction sites, etc. They are specially designed to handle media containing highly abrasive materials, such as clay, sand, drilling dust, etc.



### **Dewatering & Drainage Pumps**

Types DD 80/3/11 DD 80/3/9.2 Capacity up to 100 m<sup>3</sup>/h, heads up to 110 m.

### Specifications

on motor	
50 HZ	
H(+180 °C)	
IP68	
Max <u>+</u> 5%	
$Max \pm 10\%$	
Max $\pm 2\%$	
Max 15	
	H(+180 °C) IP68 Max ± 5% Max ± 10% Max ± 2%

### >> Material Outer casing

Outer casing	Aluminum
Impeller	High chrome alloyed Cast
	iron ASTM 532.80
Wear parts	Rubber-liner
Stator housing	Cast iron
Strainer	Steel
Shaft	Stainless steel ANSI 420
O-ring	Viton rubber

### >> Mechanical face seals

· · · ································	
Upper	Silicon carbide/Carbon
Lower	Tungsten carbide/Silicon Carbide
	Carbide
>> Bearings	
Upper	Deep groove ball bearing
Lower	Deep groove ball bearing
	Angular contact ball bearing

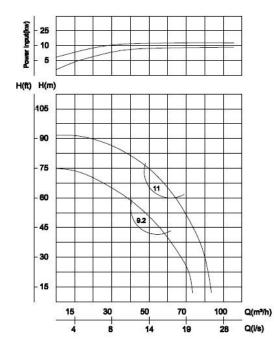
Fasteners. Stainless steel ANSI 304.

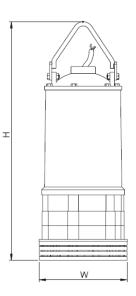
### **Options.**

Rubber-lined wear parts Various cable sizes.

### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.





Dimensions					
W	W	Н	Н	Wei	ght
inches	mm	inches	mm	Lbs.	kg
DDS 80/3/11	L				
12	315	36	915	250	113
DDS 80/3/9.	2				
12	315	33	850	220	100

VERSION	кw	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
DDS 80/3/11	11	3	380	22	88	4*6
DDS 80/3/9.2	9.2	3	380	18	72	4*6

### DDS 80/3/11 & DDS 80/3/9.2

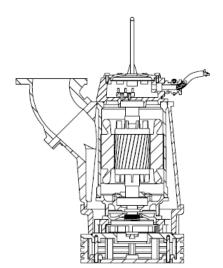
Power Input and Performance Data





### Applications:

DD 100/4/18.5 & DD 80/3/18.5 move large volumes of water quickly and efficiently in cofferdams, tunnels, deep mines, excavations, construction sites, etc. They are specially designed to handle media containing highly abrasive materials, such as clay, sand, drilling dust, etc.



## **Dewatering & Drainage Pumps** DD 100/4/18.5 Types DD 80/3/18.5

### Capacity up to 100 m<sup>3</sup>/h, heads up to 110 m.

Specifications	
>> Motor data	
Squirrel cage 3-phase inductio	n motor
Frequency	50 HZ
Insulation class	H(+180 °C)
Ingress of protection	IP68
Voltage variation	
-continuously running	Max $\pm$ 5%
-intermittent running	Max $\pm$ 10%
Voltage imbalance between phases	Max $\pm$ 2%
No. of start/hour	Max 15
>> Material	
Outer casing	Aluminum
Impeller	High chrome alloyed Cast
	iron ASTM 532.80
Wear parts	Rubber-liner
Stator housing	Cast iron
Strainer	Steel
Shaft	Stainless steel ANSI 420
O-ring	Viton rubber
>> Mechanical face seals	

· · · ································	
Upper	Silicon carbide/Carbon
Lower	Tungsten carbide/Silicon
	Carbide
>> Bearings	
Upper	Deep groove ball bearing
Lower	Deep groove ball bearing Angular contact ball bearing

Fasteners. Stainless steel ANSI 304.

### Options.

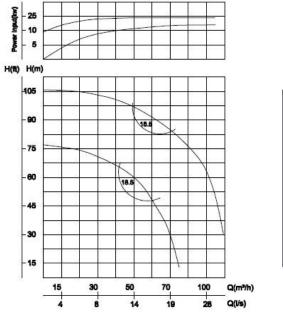
Rubber-lined wear parts Various cable sizes.

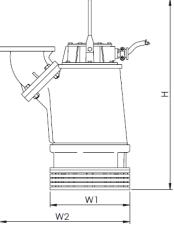
### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.

### DD 100/4/18.5 & DD 80/3/18.5

Power Input and Performance Data





Dimensions							
W1	$W_1$	W <sub>2</sub>	W <sub>2</sub>	Н	Н	We	ight
inches	mm	inches	mm	inches	mm	Lbs.	kg
DD 100/4/18.5							
16	400	25	650	38	960	330	150
DD 80/3/	DD 80/3/18.5						
16	400	25	650	38	960	330	150

VERSION	ĸw	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
DD 100/4/18.5	18.5	3	380	37	148	4*6
DD 80/3/18.5	18.5	3	380	37	148	4*6



### **Dewatering & Drainage Pumps** DDS 100/4/30 Types DDS 100/4/22

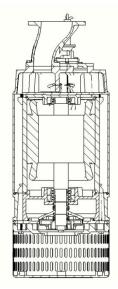
Specifications

### Capacity up to 120 m<sup>3</sup>/h, heads up to 110 m.



### Applications:

DDS 100/4/30 & DDS 100/4/22 move large volumes of water quickly and efficiently in mines, tunnels, cofferdams, deep excavations, construction sites, etc. They are specially designed to handle media containing highly abrasive materials, such as clay, sand, drilling dust, etc.



>> Motor data	
Squirrel cage 3-phase induction	n motor
Frequency	50 HZ
Insulation class	H(+180 <sup>0</sup> C)
Ingress of protection	IP68
Voltage variation	
-continuously running	Max ± 5%
-intermittent running	Max $\pm$ 10%
Voltage imbalance between phases	Max $\pm 2\%$
No. of start/hour	Max 15
>> Material	
>> Wateria	
Outer casing	Steel
	High chrome alloyed Cast
Outer casing	otee.
Outer casing Impeller Wear parts	High chrome alloyed Cast
Outer casing Impeller Wear parts Stator housing	High chrome alloyed Cast iron ASTM 532.80
Outer casing Impeller Wear parts Stator housing Strainer	High chrome alloyed Cast iron ASTM 532.80 Rubber-liner
Outer casing Impeller Wear parts Stator housing	High chrome alloyed Cast iron ASTM 532.80 Rubber-liner Cast iron
Outer casing Impeller Wear parts Stator housing Strainer	High chrome alloyed Cast iron ASTM 532.80 Rubber-liner Cast iron Steel
Outer casing Impeller Wear parts Stator housing Strainer Shaft	High chrome alloyed Cast iron ASTM 532.80 Rubber-liner Cast iron Steel Stainless steel ANSI 420
Outer casing Impeller Wear parts Stator housing Strainer Shaft O-ring	High chrome alloyed Cast iron ASTM 532.80 Rubber-liner Cast iron Steel Stainless steel ANSI 420
Outer casing Impeller Wear parts Stator housing Strainer Shaft O-ring >> Mechanical face seals	High chrome alloyed Cast iron ASTM 532.80 Rubber-liner Cast iron Steel Stainless steel ANSI 420 Viton rubber
Outer casing Impeller Wear parts Stator housing Strainer Shaft O-ring >> Mechanical face seals Upper	High chrome alloyed Cast iron ASTM 532.80 Rubber-liner Cast iron Steel Stainless steel ANSI 420 Viton rubber Silicon carbide/Carbon Tungsten carbide/Silicon

Fasteners. Stainless steel ANSI 304.

### Options.

Lower

Rubber-lined wear parts Various cable sizes.

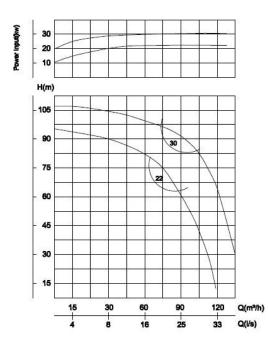
### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.

Deep groove ball bearing Angular contact ball bearing

### DDS 100/4/30 & DDS 100/4/22

Power Input and Performance Data



Т W

W	w	н	н	Wei	ght
inches	mm	inches	mm	Lbs.	kg
DDS 100/4/3	80				
15	390	43	1100	485	220
DDS 100/4/2	22				
15	385	35	900	419	190

VERSION	ĸw	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
DDS 100/4/30	30	3	380/660	60	120	2(4*6)
DDS 100/4/22	22	3	380/660	44	175	2(4*6)



### Dewatering & Drainage Pumps DDS 150/6/55 Types DDS 125/5/30

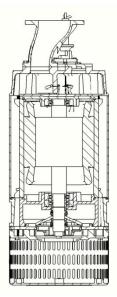
### Capacity up to 200 m<sup>3</sup>/h, heads up to 110 m.

Specifications



### Applications:

DDS 150/6/55 and DDS 125/5/30 move large volumes of water quickly and efficiently in mines, tunnels, cofferdams, deep excavations, construction sites, etc. They are specially designed to handle media containing highly abrasive materials, such as clay, sand, drilling dust, etc.



specifications	
>> Motor data	
Squirrel cage 3-phase inductio	
Frequency	50 HZ
Insulation class	H(+180 <sup>0</sup> C)
Ingress of protection	IP68
Voltage variation	
-continuously running	Max $\pm$ 5%
-intermittent running	$Max \pm 10\%$
Voltage imbalance between phases	Max $\pm 2\%$
No. of start/hour	Max 15
>> Material	
Outer casing	Steel
Impeller	High chrome alloyed Ca
	iron ASTM 532.80
Wear parts	Rubber-liner
Stator housing	Cast iron
Strainer	Steel
Shaft	Stainless steel ANSI 420
O-ring	Viton rubber
>> Mechanical face seals	
Upper	Silicon carbide/Carbon
Lower	Tungsten carbide/Silico Carbide
>> Bearings	
Upper	Deep groove ball bearir

Fasteners. Stainless steel ANSI 304.

### Options.

Lower

Rubber-lined wear parts Various cable sizes.

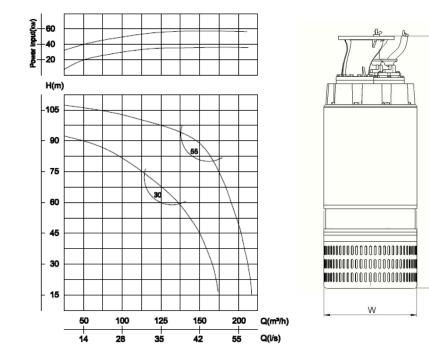
### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.

Deep groove ball bearing Angular contact ball bearing

### DDS 150/6/55 & DDS 125/5/30

Power Input and Performance Data



Т

Dimensions					
W	W	Н	Н	Wei	ght
inches	mm	inches	mm	Lbs.	kg
DDS 150/6/5	5				
21	520	55	1400	1322	600
DDS 125/5/3	0				
15	390	43	1100	485	220

VERSION	ĸw	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
DDS 150/6/55	55	3	380/660	110	220	2(4*10)
DDS 125/5/30	30	3	380/660	60	120	2(4*10)



### **Dewatering & Drainage Pumps** DDS 200/8/90 Types

DDS 200/8/55

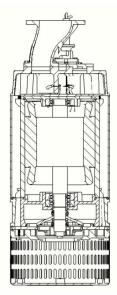
Specifications

Capacity up to 400 m<sup>3</sup>/h, heads up to 110 m.

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### Applications:

DD 200/8/90 and DD 200/8/55 move large volumes of water quickly and efficiently in mines, tunnels, cofferdams, deep excavations, construction sites, etc. They are specially designed to handle media containing highly abrasive materials, such as clay, sand, drilling dust, etc.



Squirrel cage 3-phase inductio	n motor
Frequency	50 HZ
Insulation class	H(+180 <sup>0</sup> C)
Ingress of protection	IP68
Voltage variation	
-continuously running	Max <u>+</u> 5%
-intermittent running	Max $\pm$ 10%
Voltage imbalance between phases	Max $\pm$ 2%
No. of start/hour	Max 15
>> Material	
Outer casing	Steel
Impeller	High chrome alloyed Cast iron ASTM 532.80
Wear parts	Rubber-liner

Stator housing Strainer Shaft O-ring

### >> Mechanical face seals

Upper Silicon carbide/Carbon		
Lower	Tungsten carbide/Silicon	
	Carbide	
>> Bearings		
Upper	Deep groove ball bearing	
Lower	Deep groove ball bearing	
	Angular contact ball bearing	

Cast iron

Viton rubber

Stainless steel ANSI 420

Steel

Fasteners. Stainless steel ANSI 304.

### **Options.**

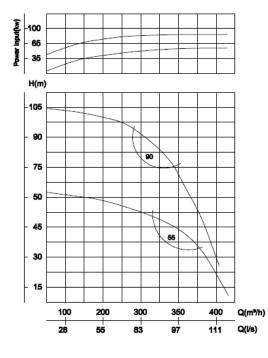
Rubber-lined wear parts Various cable sizes.

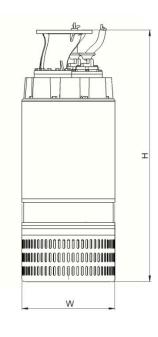
### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.

## DDS 200/8/90 & DDS 200/8/55

Power Input and Performance Data





W	W	н	н	Wei	ght
inches	mm	inches	mm	Lbs.	kg
DD 200/8/90	)				
21	520	55	1400	1521	690
DD 200/8/55	5				
21	520	55	1400	1322	600

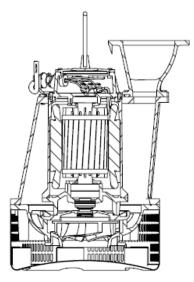
VERSION	ĸw	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
DD 200/8/90	90	3	380/660	180	360	2(4*25)
DD 200/8/55	55	3	380/660	110	220	2(4*10)



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### **Applications:**

DD 300/12/55 HT and DD 300/12/55 MT move large volumes of water quickly and efficiently in mines, tunnels, cofferdams, deep excavations, construction sites, etc. They are specially designed to handle media containing highly abrasive materials, such as clay, sand, drilling dust, etc.



### **Dewatering & Drainage Pumps**

DD 300/12/55 HT Types DD 300/12/55 MT

Capacity up to 1000 m<sup>3</sup>/h, heads up to 60 m.

### Specifications

Squirrel cage 3-phase induction	on motor	
Frequency	50 HZ	
Insulation class	H(+180 °C)	
Ingress of protection	IP68	
Voltage variation		
-continuously running	Max ± 5%	
-intermittent running	$Max \pm 10\%$	
Voltage imbalance between phases	Max $\pm 2\%$	
No. of start/hour	Max 15	

### >> Material Outer casing

>>

Outer casing	Aluminium
Impeller	High chrome alloyed
Wear parts	Rubber-liner
Stator housing	Cast iron GG25
Strainer	Steel
Shaft	Stainless steel ANSI 420
O-ring	Viton rubber

>> Mechanical face seals	
Upper	Silicon carbide/Carbon
Lower	Tungsten carbide/Silicon
	Carbide
>> Bearings	
Upper	Cylindrical roller bearing
Lower	Deep groove ball bearing,
	the lower row is angular
	contact

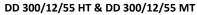
Fasteners. Stainless steel ANSI 304.

### Options.

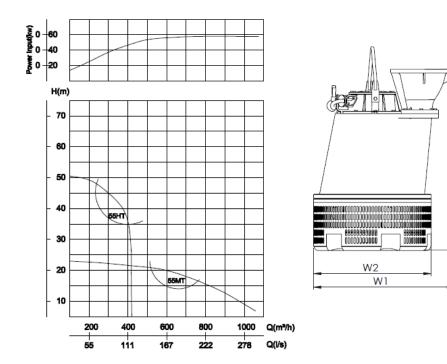
Rubber-lined wear parts Various cable sizes.

### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.



Power Input and Performance Data



Dimensio	ons								
W1	W1	W2	W <sub>2</sub>	Н	Н	Wei	ight		
inches	mm	inches	mm	inches	mm	Lbs.	kg		
DD 300/12/55 HT									
33	850	31	780	47	1200	1345	610		
DD 300/12/55 MT									
33	850	31	780	47	1200	1345	610		

Т

_	VERSION	IMP. CODE	Kw	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
	DD 300/12/55HT	HT	55	3	380/660	110	220	2(4*10)
_	DD 300/12/55 MT	MT	55	3	380/660	110	220	2(4*10)



### **Dewatering & Drainage Pumps** DD 350/12/90 HT Types DD 350/14/90 MT

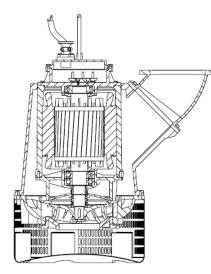
### DD 350/12/90 HT & DD 350/14/90 MT

Power Input and Performance Data



### **Applications:**

DD 350/12/90 HT and DD 350/14/90 MT move large volumes of water quickly and efficiently in mines, tunnels, cofferdams, deep excavations, construction sites, etc. They are specially designed to handle media containing highly abrasive materials, such as clay, sand, drilling dust, etc.



### Specifications

quirrel cage 3-phase inductio	n motor
requency	50 HZ
nsulation class	H(+180 °C)
ngress of protection	IP68
oltage variation	
continuously running	Max $\pm$ 5%
intermittent running	Max $\pm$ 10%
/oltage imbalance between hases	Max $\pm$ 2%
lo. of start/hour	Max 15

Capacity up to 1500 m<sup>3</sup>/h, heads up to 70 m.

### >> Material Outer casing

Impeller

Strainer

Shaft

O-ring

Wear parts Stator housing Aluminium High chrome alloyed Rubber-liner Cast iron GG25 Steel Stainless steel ANSI 420 Viton rubber

### >> Mechanical face seals

Upper	Silicon carbide/Carbon
Lower	Tungsten carbide/Silicon
	Carbide
>> Bearings	
Upper	Cylindrical roller bearing
Lower	Deep groove ball bearing,
	the lower row is angular
	contact

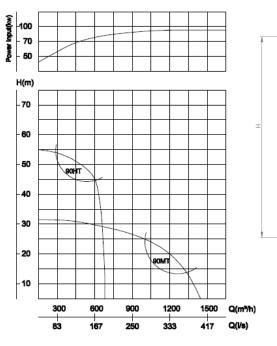
Fasteners. Stainless steel ANSI 304.

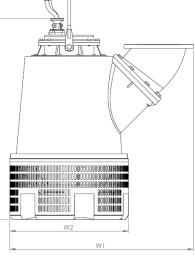
### **Options.**

Rubber-lined wear parts Various cable sizes.

### Accessories.

Hose connection and other mechanical accessories. Electrical accessories such as controller, control panels, starter, monitoring relays, cables.





Dimensions									
W1	$W_1$	W <sub>2</sub>	W <sub>2</sub>	Н	Н	Wei	ight		
inches	mm	inches	mm	inches	mm	Lbs.	kg		
DD 350/12/90 HT									
47	1200	32	820	47	1200	2006	910		
DD 350/14/90 MT									
47	1200	32	820	47	1200	2006	910		

VERSION	IMP. CODE	kw	PHASE	VOLTS	FLA	STARTING CURRENT	CABLE SIZE AWG
DD 350/12/90 HT	НТ	90	3	380/660	180	360	2 (4*25)
DD 350/14/90 MT	MT	90	3	380/660	180	360	2 (4*25)