

(*DEWATERING & DRAINAGE* SUBMERSIBLE ELECTRIC PUMPS))





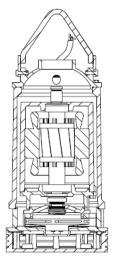






Applications:

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 m³/h, heads up to 40 m.

Specifications

| >> Motor data | | |
|----------------------------------|------------------------|--|
| Squirrel cage 3-phase induction | n motor | |
| Frequency | 50 HZ | |
| Insulation class | H(+180 ⁰ 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.

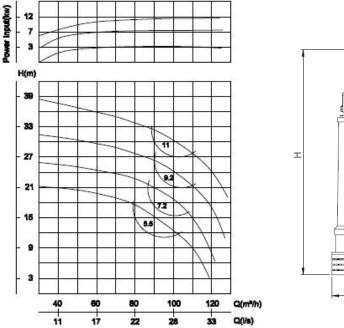
DDS 100/4/11 & DD 100/4/9.2 & DD 100/4/7.5 & DD 100/4/5.5

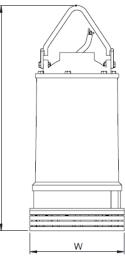
Power Input and Performance Data

VERSION

DD 100/4/11

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





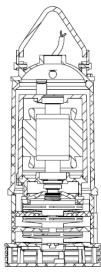
| Dimensions | | | | | | |
|-------------|------|--------|-----|-------------------|------|-------------------|
| W | W | Н | Н | Wei | ight | |
| inches | mm | inches | mm | Lbs. | kg | |
| DD 100/4/11 | | | - | | | |
| 12 | 315 | 32 | 815 | 231 | 105 | |
| DD 100/4/9. | 2 | | | | | |
| 12 | 315 | 31 | 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 m³/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 |
| | |

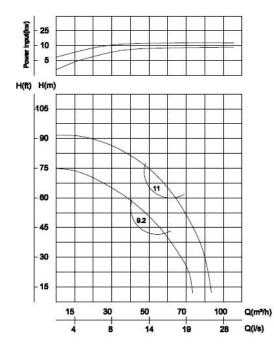
Fasteners. Stainless steel ANSI 304.

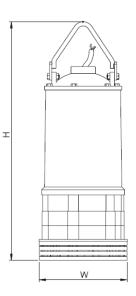
Options.

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

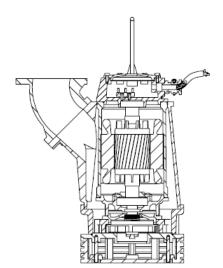
Power Input and Performance Data





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 m³/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.

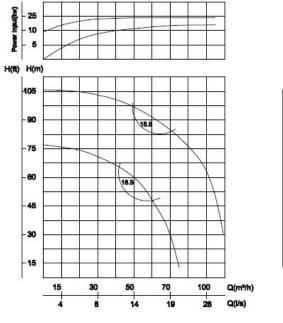
Rubber-lined wear parts Various cable sizes.

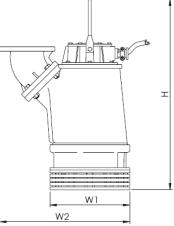
Accessories.

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 ₂ | W ₂ | 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

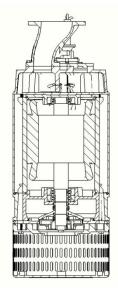
Specifications

Capacity up to 120 m³/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 ⁰ 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.

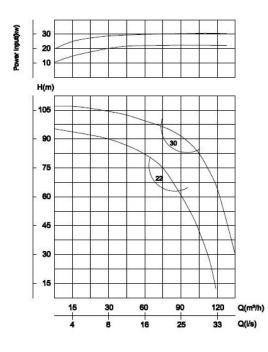
Accessories.

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

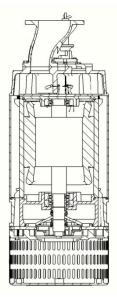
Capacity up to 200 m³/h, heads up to 110 m.

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 ⁰ 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.

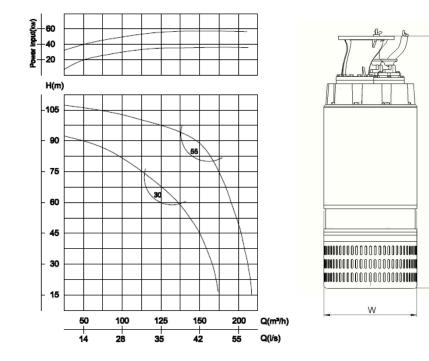
Accessories.

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

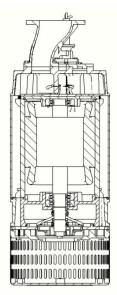
DDS 200/8/55

Specifications

Capacity up to 400 m³/h, heads up to 110 m.

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 ⁰ 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.

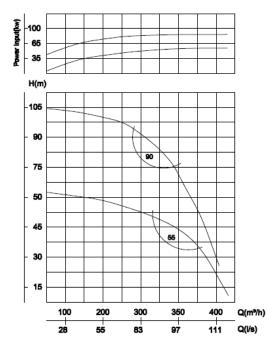
Rubber-lined wear parts Various cable sizes.

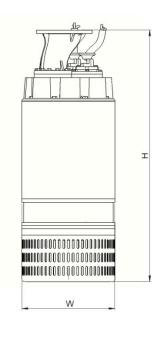
Accessories.

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





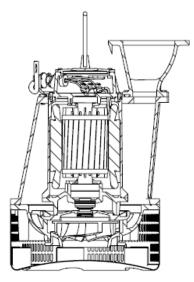
| W | W | н | н | Wei | ght |
|-------------|-----|--------|------|------|-----|
| inches | mm | inches | mm | Lbs. | kg |
| DD 200/8/90 |) | | | | |
| 21 | 520 | 55 | 1400 | 1521 | 690 |
| DD 200/8/55 | 5 | | | | |
| 21 | 520 | 55 | 1400 | 1322 | 600 |

| 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) |



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 m³/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 |

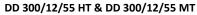
Fasteners. Stainless steel ANSI 304.

Options.

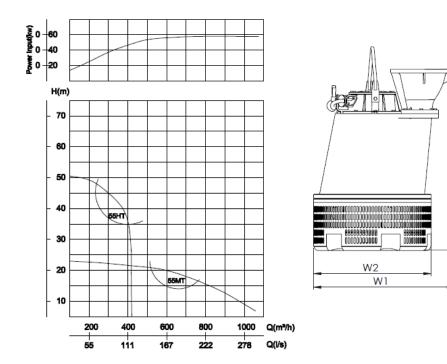
Rubber-lined wear parts Various cable sizes.

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 ₂ | 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

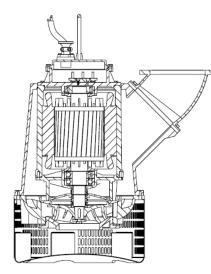
DD 350/12/90 HT & DD 350/14/90 MT

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 m³/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 |
| | |

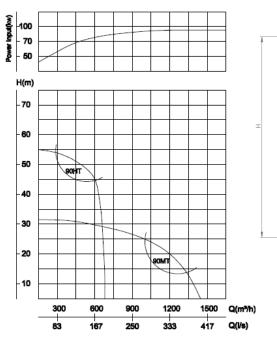
Fasteners. Stainless steel ANSI 304.

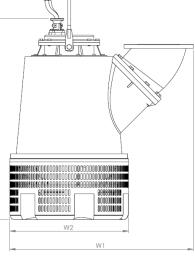
Options.

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 ₂ | W ₂ | 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) |