



Delta Environmental
Products™

Wastewater Systems
Accessories





Delta Environmental Products™

Delta Environmental Products was founded in 1985, and is a firm dedicated to the research, development, manufacture and marketing of commercial and residential wastewater treatment systems and related adjunct products worldwide. Delta Environmental Products is a subsidiary of Pentair, a diversified operating company headquartered in Minnesota, whose Water Group is a global leader in providing innovative products and systems used worldwide in the movement, treatment, storage and enjoyment of water.

Delta Environmental Products offers a full spectrum of wastewater treatment products to the on-site and commercial marketplace. Products include NSF certified aerobic wastewater treatment systems, pre-engineered drip/filter disposal systems, and custom electrical alarm and control panels.

Delta on-site wastewater treatment products are the most effective and simplest on the market. They can be used on a broad spectrum of applications from single family residences to small commercial jobs. The effluent can be discharged to the surface, drip disposal, or other approved dispersal methods. Delta offers design layouts, combination controls, and necessary components for a wide variety of on-site wastewater treatment needs.



Denham Springs, Louisiana



Ashland, Ohio

Our Mission

Delta Environmental Products is a respected leader in wastewater treatment with more than 25 years of technical design and manufacturing experience.

Delta Environmental Products is committed to the continuing development of new products in the 21st century.

Our mission is to be a leading provider of solutions to the decentralized wastewater treatment industry. Delta Environmental Products employs the highest quality products, technology and services.

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DSP SERIES

CAST IRON SUBMERSIBLE SUMP PUMPS

- Tethered float switch operates in sump diameters of 14" or larger.
- Rugged cast iron motor housing and upper volute. Corrosion resistant composite base ideal for sump and effluent applications.
- Screened intake prevents debris from entering the pump.
- Oil-cooled motor transfers heat to sump water efficiently while lubricating internal motor components.
- Heavy-duty lift-out ring, field serviceable.
- Models range up to 62 gallons per minute at 5' of lift.
- Anti air lock hole built into base; eliminates added labor.
- ½" solids-handling capability.
- Ball bearings and shaft seal are lubricated for long life.
- Pump intake screen, impeller, base, switch, and power cord are easily serviceable.



DE33 SERIES

CAST IRON SUBMERSIBLE EFFLUENT PUMPS

- Bearings and mechanical seal permanently lubricated for long life.
- Rugged Cast iron pump body and motor housing for applications needing a durable pump.
- Non-clog vortex style impeller, pump-out vane for seal protection.
- Built-in thermal overload protection with automatic reset.
- Cord design prevents oil loss from and moisture protection for motor. Easily replaceable power cord.
- Heavy-duty lift-out ring, field serviceable.
- ¾" spherical solids-handling capability.
- Stainless steel hardware allows for easy disassembly after extended service.
- Standard controls available for automatic operation.



Specifications

Motor Cover	Cast iron	
Upper Volute	Cast iron	
Lower Volute	Fiberglass reinforced polypropylene	
Impeller	Fiberglass reinforced Noryl® with threaded brass insert	
Bearings	Upper sleeve and lower ball bearings, oil lubricated	
Exterior Hardware	Stainless steel	
Shaft Seal	Mechanical, carbon/ ceramic	
Motor	Oil-cooled ½ HP and ½ HP versions available, 115V, single phase, 60 Hz	
Switch	Tethered float or vertical	
Power Cord	10' or 20' grounded three-prong, water-resistant, type SJTW-A/SJTW	
Discharge	1½" FNPT	
Maximum Liquid Temperature	130°F	55°C
Agency Listing	CSA	

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In order to provide the best products possible, specifications are subject to change.

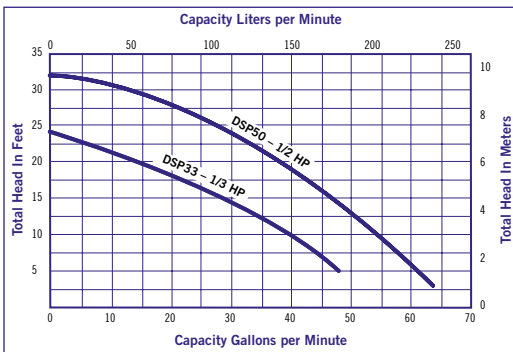
Specifications

Motor Cover	Cast iron	
Volute	Cast iron	
Impeller	Fiberglass reinforced Noryl® with threaded insert	
Mechanical Seal	Type 6A or equal, Buna-N elastomers, carbon and ceramic sealing faces, stainless steel metal parts	
Bearings	Upper sleeve and lower ball bearings, oil lubricated	
Lower Motor Housing O-Ring	Buna-N	
Exterior Hardware and Nameplate	Stainless steel	
Motor	½ HP, 1550 RPM, 115V or 230V, single-phase, 60 Hz. Oil-filled. Built-in thermal overload protection with automatic reset	
Power Cord	20' water resistant 16-3 SJTW-A/SJTW with integrally grounded three-prong plug	
Maximum Liquid Temperature	130°F	55°C
Agency Listing	CSA	

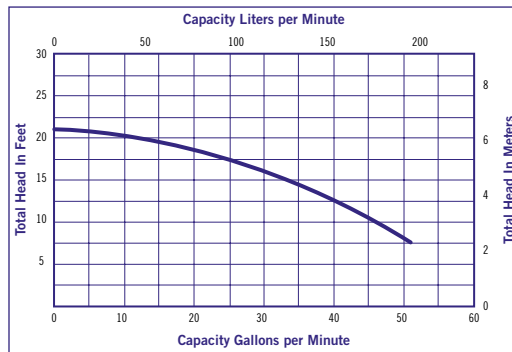
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Performance Curves



Performance Curve



DE40 SERIES

CAST IRON SUBMERSIBLE EFFLUENT PUMPS

- Heavy-duty cast iron motor housing and upper volute. Corrosion-resistant composite base ideal for effluent applications.
- Bearings and mechanical seal permanently lubricated for long life.
- Pump-out vanes for seal protection.
- Built-in thermal overload protection with automatic reset.
- Cord design prevents oil loss from and moisture protection for motor if cord is damaged.
- Heavy-duty lift-out ring, field serviceable.
- ½" spherical solids-handling capability.
- Field replaceable power cord.
- Built-in suction screen on intake.



DE40H SERIES

CAST IRON SUBMERSIBLE HIGH HEAD EFFLUENT PUMPS

- Bearings and mechanical seal permanently lubricated for long life.
- Rugged Cast iron pump body and motor housing for applications needing a durable pump.
- Non-clog vortex style impeller, pump-out vanes for seal protection.
- Built-in thermal overload protection with automatic reset on single phase.
- Cord design prevents oil loss from and moisture protection for motor.
- Heavy-duty lift-out ring, field serviceable.
- ¾" spherical solids-handling capability.
- Stainless steel hardware allows for easy disassembly after extended service.
- Standard controls available for automatic operation.



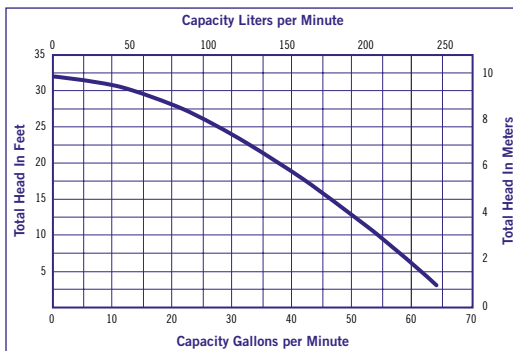
Specifications

Motor Cover	Cast iron	
Upper Volute	Cast iron	
Lower Volute Base	Fiberglass reinforced polypropylene	
Motor Housing	Cast iron	
Impeller	Fiberglass reinforced Noryl® with threaded brass insert	
Shaft Seal	Mechanical, carbon/ceramic	
Bearings	Upper sleeve and lower ball bearings, oil lubricated	
O-Rings	Buna-N	
Exterior Hardware and Nameplate	Stainless steel	
Motor	¼ ₁₀ HP, 1550 RPM, 115V, 60 Hz. Class B insulation. Oil-filled shaded pole containing built-in thermal overload protection with automatic reset	
Power Cord	20' water resistant 16-3 gauge, type SJTW-A/ SJTW with integrally grounded 3-prong plug	
Maximum Liquid Temperature	130°F	55°C
Agency Listing	CSA	

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Performance Curve



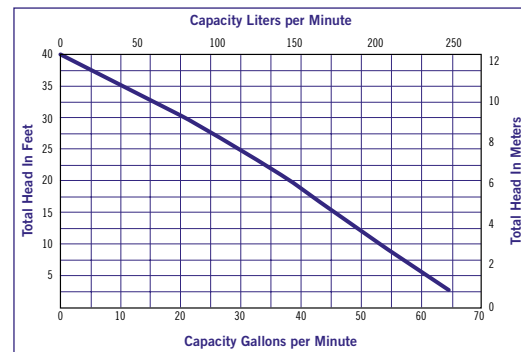
Specifications

Motor Cover	Cast iron	
Volute	Cast iron	
Impeller	Fiberglass reinforced Noryl® with threaded insert	
Mechanical Seal	Type 6A or equal, Buna-N elastomers, carbon and ceramic sealing faces, stainless steel metal parts	
Bearings	Lower ball, upper sleeve type, oil lubricated	
Exterior Hardware and Nameplate	Stainless steel	
Motor	¼ ₁₀ HP, 3450 RPM, 115V or 230V single phase, 60 Hz. Oil-filled. Built-in thermal overload protection with automatic reset and permanent split capacitor on single phase only. Stainless steel motor shaft.	
Power Cord	20' oil and water resistant 18-3 SJTW-A/ SJTW with integrally grounded 3-prong plug, single phase. UL Listed. Stainless steel cord connector.	
Maximum Liquid Temperature	130°F	55°C
Agency Listing	CSA	

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Performance Curve



DE50/DE50H/DE100 SERIES

CAST IRON SUBMERSIBLE EFFLUENT PUMPS

- Bearings and mechanical seal permanently lubricated for long life.
- Rugged Cast iron pump body and motor housing for applications needing a durable pump.
- Non-clog vortex style impeller, pump-out vanes for seal protection.
- Built-in thermal overload protection with automatic reset on single phase.
- Cord design prevents oil loss from and moisture protection for motor.
- Heavy-duty lift-out ring, field serviceable.
- 3/4" spherical capability solids handling.
- Stainless steel hardware allows for easy disassembly after extended service.
- Standard controls available for automatic operation.
- Mechanical float (non mercury).
- Silicon Carbide Seals



DE200 SERIES

CAST IRON SUBMERSIBLE EFFLUENT PUMPS

- Dual Shaft Seals – Primary mechanical seal with a secondary self-lubricating lip seal.
- Rugged Cast iron pump body and motor housing for applications needing a durable pump.
- Bearings and mechanical seal permanently lubricated for long life.
- Non-clog semi-open impeller.
- Built-in thermal overload protection with automatic reset on single phase.
- Cord design prevents oil loss from and moisture protection for motor.
- 3/4" spherical capability solids handling.
- Stainless steel hardware allows for easy disassembly after extended service.
- Standard controls available for automatic operation.



Specifications

Volute Casing	Cast iron	
Upper and Lower Motor Housing	Cast iron	
Impeller	Cast iron	
Mechanical Seal	Type 6A or equal, Buna-N elastomers, silicon carbide sealing faces, stainless steel metal parts	
Bearings	Ball type, oil lubricated	
Exterior Hardware and Nameplate	Stainless steel	
Motor	1/2, and 1 HP, 3450 RPM, 115 Volts (1/2 HP only) or 230 Volts single phase or 208-230/460 Volts three phase, 60 Hz. Oil-filled. Built-in thermal overload protection with automatic reset and permanent split capacitor on single phase only. Stainless steel motor shaft and impeller lock nut.	
Power Cord	Single Phase: 20' oil and water resistant 16-3 SJTW-A/SJTW with integrally grounded 3-prong plug. UL listed. Three Phase: 20' oil and water resistant 16-4 STW-A/STW.	
Maximum Liquid Temperature	130°F	55°C
Agency Listing	CSA	

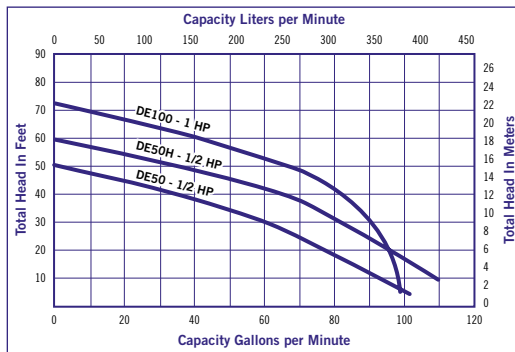
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Specifications

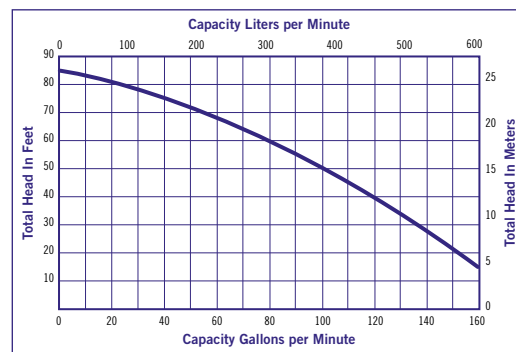
Volute Casing	Cast iron	
Upper and Lower Motor Housing	Cast iron	
Impeller	Cast iron	
Shaft Seal	Primary: mechanical type 6A or equal, Buna-N elastomers, silicon carbide sealing faces, stainless steel metal parts Secondary: self-lubricating lip seal	
Mechanical Seal	Type 6A or equal, Buna-N elastomers, silicon carbide sealing faces, stainless steel metal parts	
Bearings	Ball type, oil lubricated	
Exterior Hardware and Nameplate	Stainless steel	
Motor	2 HP, 3450 RPM, 230V single phase, 60 Hz, oil-filled. Built-in thermal overload protection with automatic reset and permanent split capacitor on single phase only. Stainless steel motor shaft and impeller lock nut.	
Power Cord	20' oil and water resistant 16-3 SJTW-A/SJTW with integrally grounded 3-prong plug. UL Listed.	
Maximum Liquid Temperature	130°F	55°C
Agency Listing	CSA	

In order to provide the best products possible, specifications are subject to change.

Performance Curves



Performance Curve



D4EM SERIES

HIGH HEAD MULTISTAGE SUBMERSIBLE EFFLUENT PUMPS

- Proven "Floating Impeller" Staging System incorporates 1st-in-class performance, sand-handling and thrust management staging system with the industry exclusive "dry-run" design element. Reinforced engineered composites and stainless steel, offering high resistance to corrosion and abrasion.
- Tested-tough, fiberglass-reinforced thermoplastic discharge, with proven internal check valve. Large wrench flats and rope hole.
- 300-grade stainless steel pump shell offers high corrosion resistance.
- 3/8" Hexagonal, 300-grade stainless steel pump shaft offers generous impeller drive surfaces.
- Exclusive self-lubricating Nylatron® shaft bearing resists surface wear from sand.
- Tested-tough fiberglass-reinforced thermoplastic motor bracket incorporates an integral suction screen.



D4EB SERIES

4" MULTISTAGE SUBMERSIBLE EFFLUENT PUMP

- The proven patented staging system uses a patented ceramic wear surface. When incorporated with Delta's "true" independent floating impellers it dominates with 1st-in-class performance, superior sand-handling, and a thrust management staging system with industry exclusive "dry-run" capabilities.
- Features a draw-down of 4½".
- Over 25% less amp draw (9.5 amps vs. 12.7 amps, 115V) than a 4" NEMA submersible, reducing operating costs and extending the service life of float switch contacts.
- The D4EB Series uses the pumped liquid to cool the motor as it passes over the motor. The water passing over the motor dampens the motor noise, eliminating expensive "flow-inducer sleeves" required when using a standard 4" NEMA submersible.
- Precision molded impellers for perfect balance...ultra smooth for the highest performance and efficiency. Allows for .080" solids.
- Positive drive, hexagonal 7/16", 300-grade stainless steel shaft offers generous impeller drive surfaces.
- Exclusive self-lubricating Nylatron® shaft bearing resists surface wear from sand and abrasives.
- 300-grade heavy-walled stainless steel shell, corrosion resistant.



Specifications

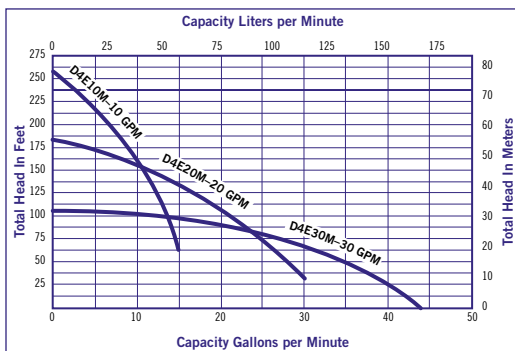
Shell	Stainless steel
Discharge	10, 20 and 30 GPM models, fiberglass-reinforced thermoplastic
Discharge Bearing	Nylatron®
Impellers	Delrin®
Diffusers	Polycarbonate
Suction Caps	Polycarbonate with stainless steel wear ring
Thrust Pads	Proprietary spec.
Shaft and Coupling	Stainless steel 300 grade
Intake	Fiberglass-reinforced thermoplastic
Intake Screen	Polypropylene
Jacketed Cord	300V "SOOW" jacketed 10' leads (2-wire with ground); optional 20', 30', 50' and 100' lengths available
Agency Listing	CSA

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Delrin® is a registered trademark of E.I. DuPont de Nemours and Co.

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Performance Curves



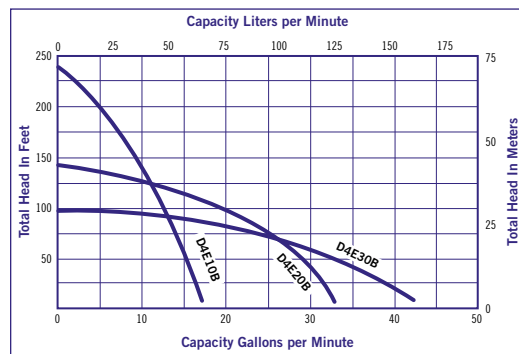
Specifications

Shell	Stainless steel (300 grade)
Discharge	1¼" Fiberglass-reinforced thermoplastic
Discharge Bearing	Nylatron®
Impellers	Acetal
Diffusers	Polycarbonate
Suction Caps	Polycarbonate with stainless steel wear ring
Thrust Pads	Proprietary spec.
Shaft and Coupling	Stainless steel (300 grade)
Intake	Fiberglass-reinforced thermoplastic
Intake Screen	Stainless steel
Jacketed Cord	600V "SJOW" jacketed 10' leads, 2-wire with ground
Agency Listing	CSA

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Performance Curves



DS40 SERIES

CAST IRON SUBMERSIBLE SEWAGE PUMPS

- Bearings and mechanical seal permanently lubricated for long life.
- Non-clog vortex style impeller.
- Built-in thermal overload protection with automatic reset.
- Heavy-duty lift-out ring, field serviceable.
- 2" spherical solids-handling capability.
- Stainless steel hardware allows for easy disassembly after extended service.
- Tethered float switch available for automatic operation.



DS50 SERIES

CAST IRON SUBMERSIBLE SEWAGE PUMPS

- Bearings and mechanical seal permanently lubricated for long life.
- Rugged Cast iron pump body and motor housing for applications needing a durable pump.
- Non-clog vortex style impeller.
- Built-in thermal overload protection with automatic reset on single phase.
- Heavy-duty lift-out ring, field serviceable.
- 2" spherical solids-handling capability.
- Stainless steel hardware allows for easy disassembly after extended service.
- Standard controls available for automatic operation.



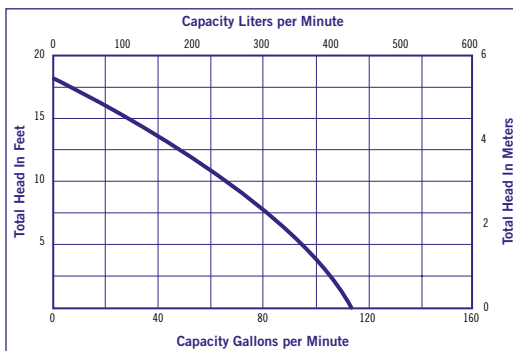
Specifications

Motor Cover	Cast iron	
Upper Volute	Cast iron	
Lower Volute	Fiberglass reinforced polypropylene	
Impeller	Fiberglass reinforced Noryl® with brass threaded insert	
Mechanical Seal	Type 6A or equal, Buna-N elastomers, carbon and ceramic sealing faces, stainless steel metal parts	
Bearings	Upper sleeve and lower ball bearings	
Exterior Hardware and Nameplate	Stainless steel	
Motor	4/10 HP, 1500 RPM, 115V single phase, 60 Hz, oil-filled. Thermal overload protection with automatic reset	
Power Cord	20' water resistant 16-3 SJTW-A/SJTW with integrally grounded three-prong plug	
Maximum Liquid Temperature	130°F	55°C
Agency Listing	CSA	

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Performance Curve



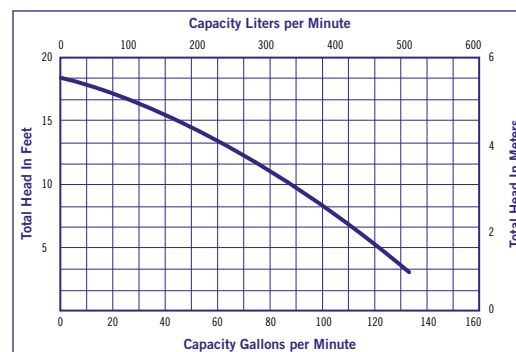
Specifications

Motor Cover	Cast iron	
Volute	Cast iron	
Impeller	Fiberglass reinforced Noryl® with brass threaded insert	
Mechanical Seal	Type 6A or equal, Buna-N elastomers, carbon and ceramic sealing faces, stainless steel metal parts	
Bearings	Ball/sleeve type, oil lubricated	
Exterior Hardware and Nameplate	Stainless steel	
Motor	½ HP, 1550 RPM, 115V, single-phase, 60 Hz. Oil-filled. Built-in thermal overload protection with automatic reset	
Power Cord	20' water resistant 16-3 SJTW-A/SJTW with integrally grounded three-prong plug	
Maximum Liquid Temperature	130°F	55°C
Agency Listing	CSA	

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Performance Curve



DS50F SERIES

CAST IRON SUBMERSIBLE HIGH FLOW SEWAGE PUMPS

- Bearings and mechanical seal permanently lubricated for long life.
- Non-clog semi-open vane impeller.
- Built-in thermal overload protection with automatic reset.
- Heavy-duty lift-out ring, field serviceable.
- 2" spherical solids-handling capability.
- Stainless steel hardware allows for easy disassembly after extended service.
- Optional automatic float switch.
- Oil-filled capacitor greatly enhances the continuous duty motor rating.



DS50H/DS75 SERIES

CAST IRON SUBMERSIBLE SEWAGE PUMPS

- Bearings and mechanical seal permanently lubricated for long life.
- Non-clog vortex style impeller with integral rim to reduce casing and impeller wear.
- Built-in thermal overload protection with automatic reset on single phase.
- Heavy-duty lift-out ring, field serviceable.
- 2" spherical solids-handling capability.
- Stainless steel hardware allows for easy disassembly after extended service.

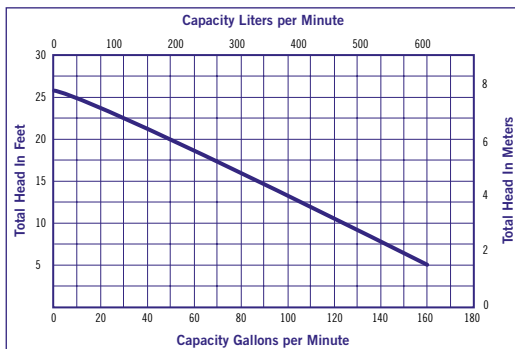


Specifications

Volute Casing	Cast iron	
Upper and Lower Motor Housing	Cast iron	
Impeller	Cast iron	
Mechanical Seal	J. Crane™ type 6A or equal, Buna-N elastomers, silicon carbide seal faces, stainless steel metal parts	
Bearings	Upper sleeve and lower ball bearings, oil lubricated	
Exterior Hardware and Nameplate	Stainless steel	
Motor	½ HP, 1725 RPM, 115V single-phase, 60 Hz. Oil-filled. Permanent split capacitor. Built-in thermal overload protection with automatic reset	
Power Cord	20' oil and water resistant SJTW-A/SJTW 16/3 cord with UL/CSA Listed integrally grounded three-prong plug	
Maximum Liquid Temperature	130°F	55°C
Agency Listing	CSA	

In order to provide the best products possible, specifications are subject to change.

Performance Curve

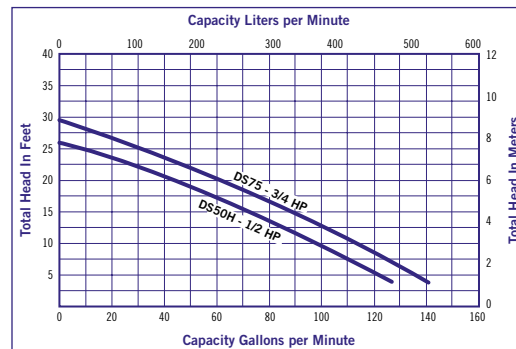


Specifications

Volute Casing	Cast iron	
Upper and Lower Motor Housing	Cast iron	
Impeller	Cast iron	
Mechanical Seal	Type 6A or equal, Buna-N elastomers, silicon carbide sealing faces, stainless steel metal parts	
Bearings	Ball type, oil lubricated	
Lower Motor Housing O-Ring	Buna-N	
Exterior Hardware and Nameplate	Stainless steel	
Motor*	½ and ¾ HP, 1725 RPM, 115V or 230V single-phase, 60 Hz. Oil-filled. Permanent split capacitor. Built-in thermal overload protection with automatic reset. Stainless steel motor shaft and impeller lock nut.	
Power Cord	20' oil and water resistant 16-3 SJTW-A/SJTW with UL Listed integrally grounded three-prong plug.	
Oil-Filled Capacitor	Greatly enhances the continuous duty motor rating.	
Maximum Liquid Temperature	130°F	55°C
Agency Listing	CSA	

In order to provide the best products possible, specifications are subject to change.

Performance Curves



DS100/DS150/DS200 SERIES

CAST IRON SUBMERSIBLE SEWAGE PUMPS 1, 1½, & 2 HP

- Bearings and mechanical seal permanently lubricated for long life.
- Rugged Cast iron pump body and motor housing for applications needing a durable pump.
- Non-clog two vane semi-open style impeller.
- Built-in thermal overload protection with automatic reset on single phase.
- Heavy-duty lift-out ring, field serviceable.
- 2" spherical solids-handling capability.
- Dual Shaft Seals—primary mechanical seal with a secondary self-lubricating lip seal.
- Standard controls available for automatic operation.

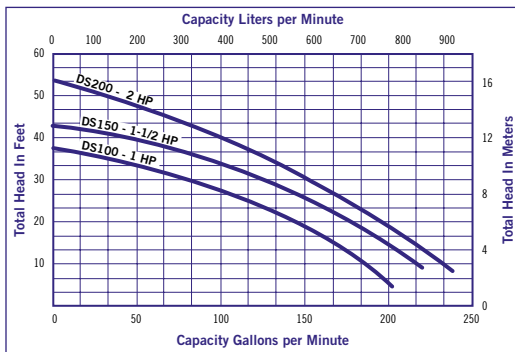


Specifications

Volute Casing	Cast iron	
Upper and Lower Motor Housing	Cast iron	
Impeller	Cast iron	
Shaft Seal	Primary: mechanical type 21 or equal, Buna-N elastomers, silicon carbide seal faces, stainless steel metal parts; Secondary: self-lubricating energized nitrile lip seal	
Bearings	Ball type, oil lubricated	
Exterior Hardware and Nameplate	Stainless steel	
Motor*	1, 1½ and 2 HP, 1725 RPM, 230V single phase, 60 Hz. Oil-filled. Built-in thermal overload protection with automatic reset and permanent split capacitor on single phase only. Stainless steel motor shaft and impeller lock nut.	
Power Cord	20' UL/CSA Listed. 3-wire 16-3 SJTW-A/ SJTW water resistant cord with integrally grounded three-prong plug.	
Oil-Filled Capacitor	Greatly enhances the continuous duty motor rating	
Maximum Liquid Temperature	130°F	55°C
Agency Listing	CSA	

In order to provide the best products possible, specifications are subject to change.

Performance Curves



D1C20-21 SERIES

SUBMERSIBLE GRINDER PUMP 2 HP, 3450 RPM

- High torque oil-filled motor conducts heat and lubricates bearings.
- Rugged Cast iron pump body and motor housing for applications needing a durable pump.
- Cable entry system provides double seal protection. Cable jacket sealed by compression fitting. Individual wires sealed by potting epoxy. Power cord can be replaced without disturbing motor.
- Overload-heat sensor protects motor from burn-out due to excessive heat from any overload condition. Automatically resets when motor has cooled.
- The mechanical shaft seal is constructed with a ceramic stationary face and a carbon rotating face and is field proven for long service life.
- Grinder impeller and shredding ring are replaceable without dismantling pump. Constructed of 440 SST hardened to 56-60 Rockwell.
- Engineered thermoplastic recessed impeller handles ground slurry without clogging or binding. Provides unobstructed flow passage. Reduces radial loads. pump-out vanes help keep trash from seal, reduces pressure at seal face.



D1P20-21 SERIES

SUBMERSIBLE GRINDER PUMP 2 HP, 1750 RPM

- High torque oil-filled motor conducts heat and lubricates bearings. Class F VFD/continuous duty rated.
- Rugged Cast iron pump body and motor housing for applications needing a durable pump.
- Water resistant power cord with molded plug is available in 20' (6m) lengths.
- The heavy-duty ball bearings, upper (radial) and lower (thrust), are continuously lubricated by oil to ensure long service life.
- Overload heat sensor protects motor from burn-out due to excessive heat from any overload condition. Automatically resets when motor has cooled.
- The mechanical seal is constructed with a ceramic stationary face and a carbon rotating face and is field proven for long service life.
- Grinder impeller and shredding ring are replaceable without dismantling pump. Constructed of 440 SST hardened to 56-60 Rockwell.



Capabilities

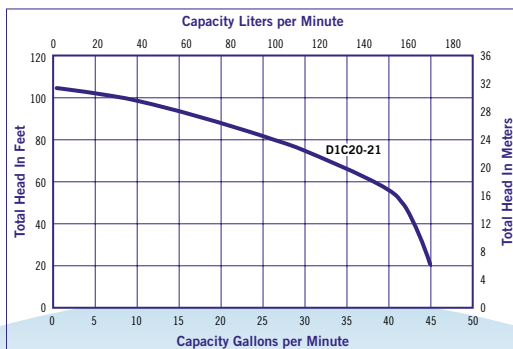
Liquids Handling	Domestic raw sewage	
Intermittent Liquid Temperature	Up to 140° F	Up to 60° C
Winding Insulation Temp. (Class F)	311° F	155° C
Motor Electrical Data	2 hp, 3450 RPM, 1 ph–Capacitor start/run 230V, 60 Hz, 15.0 amps	
Acceptable pH Range	6–9	
Specific Gravity	.9–1.1	
Viscosity	28–35 SSU	
Discharge Size, NPT	1¼ in.	31.75 mm
Minimum Sump Diameter	Simplex	24 in.
	Duplex	36 in.
		61.0 cm
		91.4 cm

Construction Materials

Motor Housing, Seal Housing, Volute Case	Cast iron, Class 30, ASTM A48
Power Cord	20 ft., 14/3, SJOW/SJOW-A
Mechanical Shaft Seals	Standard Optional
	Carbon and ceramic Tungsten carbide
Pump, Motor Shaft	416 SST
Fasteners	300 series SST
Shredding Ring, Grinder Impeller	440 SST, 58–60 Rockwell
Recessed Impeller	Engineered thermoplastic
Agency Listing	CSA, UL

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Performance Curve



Capabilities

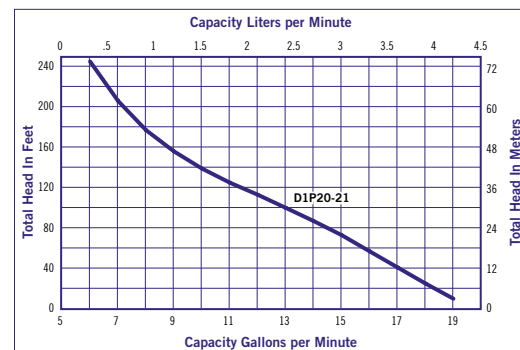
Liquids Handling	Domestic raw sewage	
Intermittent Liquid Temperature	Up to 140° F	Up to 60° C
Winding Insulation Temp. (Class F)	311° F	155° C
Motor Electrical Data	2 hp, 1750 RPM, 1 ph–capacitor start/run 230V, 60 Hz, 12.0 amps	
Acceptable pH Range	6–9	
Discharge Size, NPT	1¼ in.	31.75 mm
Unit Weight	85 lbs.	38 kg

Construction Materials

Motor Housing, Volute Case	Cast iron, Class 30, ASTM A48
Shaft	Stainless steel
Cutters	440C hardened 55–60 Rockwell C
Power Cord	20 ft., 14/3, SJOW/SJOW-A
Rotor	Buna-N, DBL helix
Stator	300 series SST, single lobe
Mechanical Seals	Seal–carbon and ceramic Seal body–stainless steel Spring–stainless steel Bellows–Buna-N
Bearings Upper and Lower	Single ball
Agency Listing	CSA, UL

In order to provide the best products possible, specifications are subject to change.

Performance Curve



D2C20-21 SERIES

SUBMERSIBLE GRINDER PUMP 2 HP, 3450 RPM

- Powerful motor is press fit for perfect alignment and best heat transfer. Oil-filled motor conducts heat and lubricates bearings. Class F VFD/continuous duty rated.
- Rugged Cast iron pump body and motor housing for applications needing a durable pump.
- Cable entry system provides double seal protection. Cable jacket sealed by compression fitting. Individual wires sealed by compression grommet. Power cord can be replaced without disturbing motor.
- Overload-heat sensor (1 phase only) Protects motor from burn-out due to excessive heat from any overload condition. Automatically resets when motor has cooled.
- Grinder impeller and shredding ring are replaceable without dismantling pump.
- Cast iron recessed impeller handles ground slurry without clogging or binding. Provides unobstructed flow passage. Reduces radial loads. Pump-out vanes help keep trash from seal, reduces pressure at seal faces.
- Optional seal leak probe detects water in seal housing, activates warning light in control panel.



D2CX20-21 SERIES

SUBMERSIBLE EXPLOSION PROOF GRINDER PUMP 2 HP, 3450 RPM

- Powerful motor is press fit for perfect alignment and best heat transfer. Oil-filled motor conducts heat and lubricates bearings.
- Rugged Cast iron pump body and motor housing for applications needing a durable pump.
- Cable entry system provides double seal protection. Cable jacket sealed by compression fitting. Individual wires sealed by epoxy potting.
- Heat sensor protects motor from burn-out due to excessive heat from any overload condition. Automatically resets when motor has cooled.
- Double tandem mechanical shaft seals protect motor. Oil-filled seal chamber provides continuous lubrication.
- Grinder impeller and shredding ring are replaceable without dismantling pump. Constructed of 440 SST hardened to 56-60 Rockwell.
- Bronze recessed impeller handles ground slurry without clogging or binding. Provides unobstructed flow passage. Reduces radial loads. Pump-out vanes help keep trash from seal, reduces pressure at seal faces.
- Seal leak probe detects water in seal housing, activates warning light in control panel.



Capabilities

Liquids Handling	Domestic raw sewage	
	Intermittent Liquid Temperature	Up to 140° F
Winding Insulation Temp. (Class F)	311° F	155° C
Motor Electrical Data	2 hp, 3450 RPM, 1 ph-capacitor start/run 230V, 60 Hz	
Acceptable pH Range	6-9	
Specific Gravity	.9-1.1	
Viscosity	28-35 SSU	
Discharge Size, NPT	1¼ in.	31.75 mm

NOTE: Consult factory for applications outside of these recommendations.

Capabilities

Liquids Handling	Domestic raw sewage	
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Winding Insulation Temp. (Class F)	311° F	155° C
Motor Electrical Data	2 hp, 3450 RPM, 1 ph-capacitor start/run 230V, 60 Hz	
Acceptable pH Range	6-9	
Specific Gravity	.9-1.1	
Viscosity	28-35 SSU	
Discharge Size, NPT	1¼ in.	31.75 mm

Construction Materials

Motor Housing, Seal Housing, Cord Cap, Volute Case, Recessed Impeller	Cast iron, Class 30, ASTM A48	
Power Cord	w/Seal Probe	15 ft., 14/5, SOOW
	w/o Seal Probe	15 ft., 14/5, SOOW
Mechanical Seals	Double tandem carbon and ceramic	
Pump, Motor Shaft	416 SST	
Fasteners	300 series SST	
Shredding Ring, Grinder Impeller	440 SST, 58-60 Rockwell	
Agency Listing	CSA, UL	

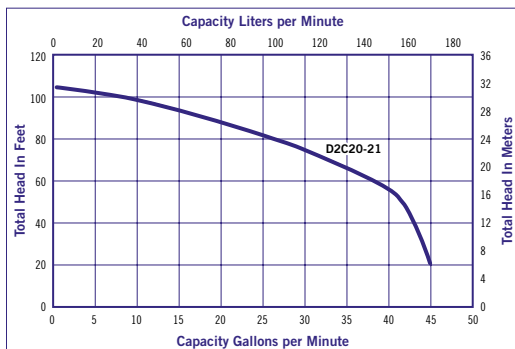
In order to provide the best products possible, specifications are subject to change.

Construction Materials

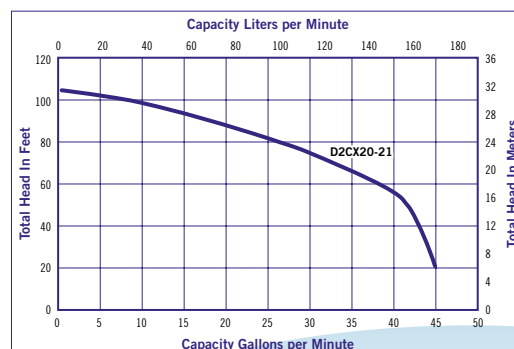
Motor Housing, Seal Housing, Cord Cap, Volute Case	Cast iron, Class 30, ASTM A48	
Impeller	Recessed, bronze	
Power Cord	15 ft., 14/4, SOOW	
Control Cord	15 ft., 18/5, SOOW	
Mechanical Shaft Seals	Standard	Double tandem carbon and ceramic
	Optional	Lower tungsten carbide
Pump, Motor Shaft	416 SST	
Fasteners	300 series SST	
Shredding Ring, Grinder Impeller	440 SST, 58-60 Rockwell	
Agency Listing	CSA, FM	

In order to provide the best products possible, specifications are subject to change.

Performance Curve



Performance Curve



High Water Alarms

Delta Environmental Products alarm panels are the intelligent choice in alarm panel technology. Delta Environmental Products also manufactures a variety of control panels designed to meet specific customer needs. All panels can be supplied with UL and/or Canada cUL 508A listings upon request. Custom panels can be furnished to meet specific local requirements. Contact Delta for more information on custom controls.

Part Number	Description	Features & Benefits
SA-1	Indoor Alarm	<ul style="list-style-type: none"> Polycarbonate construction Audible alarm Visual alarm Fuse protected Mercury-free switch
OSA-1	Outdoor Alarm	<ul style="list-style-type: none"> Polycarbonate construction Audible alarm Visual alarm Fuse protected NEMA 4 outdoor rated
OSA-1MF	Outdoor Alarm	<ul style="list-style-type: none"> Polycarbonate construction Audible alarm Visual alarm Fuse protected NEMA 4 outdoor rated Includes mercury-free switch

Features & Benefits

- One panel design
- Controls more than one component in system
- Fiberglass NEMA 4X or steel 3R enclosure
- UL listed available
- All panels finger safe



Aerobic Treatment Air Compressors

Delta Environmental Products offers a wide variety of air compressors for individual aerobic treatment units. Extreme conditions/applications such as high altitudes, extreme temperatures or excessive dust require careful air compressor consideration. Consult the factory to choose from one of the following air compressor options for your application.

Compressor	Repair Kit	Shuttle	Air Filter
Thomas™			
5060 5078S	C50397-P C50402-P (Kit includes diaphragm and base, head and valve, air cleaner, L-tube)	C50159 C50272	C56300 C50318
HiBlow™			
HP40 HP60/80 HP100/120 HP150/200	HP40SRVKIT HP60/80SRVKIT HP100/120SRVKIT HP150/200SRVKIT (Kit includes filter, semi cover packing, casing block, diaphragm and base, hose band)		HP60-80-Filter HP100-120-Filter
Rotary			
QR-0050 QR-0080 QR-0100	L32100-P L32103-P L32103-P (Kit includes shims, vane kit, gasket)		L84196 L84198-P L84198-P
Air Blowers (FPZ™)			
SCL-06 SCL06-PC SCLV3			FS-14S-100 FS-14S-100 FS-185-125

Linear Air Compressors

Thomas™ 5060 (old style)

Thomas™ 5060

Thomas™ 5078S

HiBlow™ HP40

HiBlow™ HP60/80

HiBlow™ HP100/120

HiBlow™ HO150/200

Features & Benefits

- Ultra quiet
- Ultra energy efficient
- Proven technology
- Low flow and low pressure



Rotary Air Compressors

QR-0030 **Features & Benefits**

QR-0050 • Durable

QR-0080 • High heat applications

• High pressures

QR-0100 • Higher air volumes

• Bases and covers



Regenerative Air Blowers

SCL-06 **Features & Benefits**

SCL06-PC • Durable

• Quiet

• Proven technology

• Long life

• High air volume



Chlorinator Tablets

- CHLOR10** 10 pound pail of chlorine tablets
- CHLOR25** 25 pound pail of chlorine tablets
- CHLOR45** 45 pound pail of chlorine tablets
- DE-CHLOR25** 25 pound pail of de-chlorine tablets



Float Switches

- D20NO** – Mercury Float Switch, Wide Angle
- PM20NO** – Mercury Float Switch, Narrow Angle

For use in sewage and many chemical solutions, the UL & cUL listed (for Canada) 8300 float switches are designed for operating pumps through a magnetic starter or contactor to control liquid level in sumps or tanks. Can also be used to operate alarms to indicate high water conditions. The switch is sealed in a solid foam-filled polypropylene shell that is leakproof, shockproof and corrosion resistant. The cord weight is zinc plated cast iron. The hard wire is 18/2 SJ00W and the dependable steel tube switch is rated to 3.0 fla at 115 or 230V.



Junction and Distribution Boxes

- 3 x 5 x 4** with 1½" Hub and either 3" or 4½" Cord Grips
- 5 x 7 x 4** with 2" Hub and either 4" or 5½" Cord Grips
- (Other sizes available, contact Delta for details)*



- 4HD2** 4 Hole D-Box with Seals and Plugs
- 6HD2** 6 Hole D-Box with Seals and Plugs
- 7HD2** 7 Hole D-Box with Seals and Plugs



Plastic distribution boxes are complete with seals, flow equalizers and lids.

Basin Accessories

- 20-RISL** 20" Lid
- 20-RTT** 20" Tank Adapter
- 20-RIS** 20" x 6" Riser
- 24-RISL** 24" Lid
- 24-RTT** 24" Tank Adapter



- AKP10010** Adaptaflex™ Fittings ½"
- AKP10030** Adaptaflex™ Fittings 1"
- AKP10035** Adaptaflex™ Fittings 1¼"
- AKP10070** Adaptaflex™ Fittings 2"
- AKP10080** Adaptaflex™ Fittings 3"
- AKP10110** Adaptaflex™ Fittings 4"



Drip Disposal Components

Hydraulic Index Valves

Fimco™

1000 Series

1004F-23 Includes cams for 2, 3, or 4 zones

1006F-5 Includes cams for 5 or 6 zones

1008F-7 Includes cams for 7 or 8 zones



2000 Series

2004F-23 Includes cams for 2, 3, or 4 zones

2006F-5 Includes cams for 5 or 6 zones

4000 Series

4004F-23 Includes cams for 2, 3, or 4 zones

4006F-5 Includes cams for 5 or 6 zones

K-Rain™

4000 Series

4402 Cammed for 2 zones

4403 Cammed for 3 zones

4404 Cammed for 4 zones



6000 Series

6402 Cammed for 2 zones

6403 Cammed for 3 zones

6404 Cammed for 4 zones

6605 Cammed for 5 zones

6606 Cammed for 6 zones

Drip Emitter Tubing–Bioline™

0.4GPH – Dripper

0.6GPH – Dripper

.09GPH – Dripper



Available in 500 ft. rolls

Drip Emitter Tubing–Geoflow™

.5GPH Pressure Compensating, 12" or 24" spacing

1GPH Pressure Compensating, 12" or 24" spacing

1GPH Classic, 12" or 24" spacing

Tube Fittings

LT SLIP-600 ½" Lock Slip Tee

LTC-600 ½" Lock Slip Coupling

LTEL-600 ½" Lock Slip Elbow



Pressure Regulators

PMR-20MF Pressure Regulator Medium Flow ¾" 20 psi

PMR-20HF Pressure Regulator High Flow ¾" 20 psi

PMR-25MF Pressure Regulator Medium Flow, ¾" 25 psi

PMR-30MF Pressure Regulator Medium Flow, ¾" 30 psi

PMR-40MF Pressure Regulator Medium Flow, ¾" 40 psi

PMR-40HF Pressure Regulator High Flow, ¾" 40 psi



Vacuum Release Valve

VBK-1 1" Vacuum Breaker



Spin Filter

G1012 Spin Filters 1", Max 20 GPH

G2089 Spin Filters 1½", Max 30 GPH

G3000 Spin Filters 2", Max 50 GPH





Delta Environmental Products™ is dedicated to the manufacturing and marketing of advanced on-site treatment and low pressure sewer systems for wastewater markets worldwide.

For additional information, please consult a Delta Environmental Products sales representative. Delta Environmental Products is a part of Pentair Water, a division of Pentair, Inc. Pentair is a diversified operating company headquartered in Minnesota and a global leader in providing innovative products and systems used worldwide in the movement, treatment, storage and enjoyment of water. For additional information regarding Pentair, visit www.pentair.com.



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