DISCOVERY PUMP
Built for Heavy Flow

DISCOVERY PUMP

Diesel Flood Pump Series

DI-8	DI-10	DI-12	DI-14	DI-16
900 m³/hr	1.200 m³/hr	1.400 m³/hr	2.000 m³/hr	3.200 m³/hr

SELF PRIMING PUMP WITH AUTOMATIC VACUUM

DISCOVERY PUMP

VACUUM ASSIST SELF-PRIMING SYSTEM

Integrated vacuum assist mechanism enables automatic priming without manual water filling.

Why It's Critical:

In flood emergencies, time is everything. This system allows immediate suction even when the pump casing is dry.

Operational Advantage:

- Faster startup in emergency situations
- No manual priming required
- Stable suction in fluctuating water levels
- Reduced downtime during operation

Capable of delivering up to 7.200 m³/hr.

Benefit:

- Faster water evacuation
- Suitable for large flood zones
- High-volume industrial drainage

Direct engine-to-pump shaft connection for maximum power transfer.

Benefit:

- Higher mechanical efficiency
- Lower vibration
- Reduced maintenance risk
- Longer component lifespan

Reinforced structural base and corrosion-resistant construction.

Benefit:

- Built for extreme environments
- Continuous 24/7 operation
- Durable under heavy load

Flow Capacity:	Up to 7.200 m³/hr
Priming System:	Integrated Vacuum Assist
Drive System:	Direct Coupling Diesel
Operation:	Continuous Duty

DISCOVERY PUMP

Engineered for Field Mobility

Skid Mounted

Ideal For:

- Semi-Permanent & Industrial Installation
- Ideal for mining sites, industrial plants, infrastructure projects, and long-term dewatering systems.

Deployment Advantage:

- Lower transport complexity, faster site setup for controlled environments.

Trailer 2-Wheel

Ideal For:

- Rapid urban flood response
- Designed for emergency flood control in city environments, residential zones, and restricted access areas.

Deployment Advantage:

- Maximum mobility with minimal setup time.

Trailer 4-Wheel

Ideal For:

- Large-Scale & High-Demand Operations
- Developed for large flood zones, infrastructure failure response, industrial drainage, and cross-region mobilization.

Deployment Advantage:

- Enhanced transport safety and operational readiness for large-scale emergencies.

DISCOVERY PUMP

READY FOR YOUR NEXT PROJECT?

Contact Our Sales Team

Discovery Pump Engine Driven

DWP-DI-8-600-20-1800
(Base Skid Open Type)

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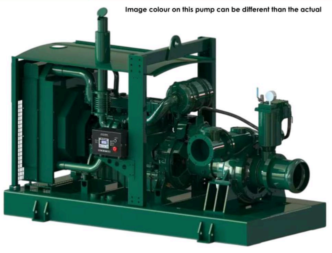


Discovery Pump DWP-DI-8-T2EB-1800D is designed for **high-volume water transfer, flood control, and heavy-duty dewatering operations**.
Featuring a self-priming system with vacuum assist, it delivers rapid priming and consistent performance without manual intervention.

Built with high-grade materials for long-term durability, this pump ensures powerful flow, reliable engine output, and stable operation in demanding field conditions.

Discovery Pump Specification

Pump Brand	Discovery
Pump Model	DI-8
Inlet Size	8 inch | (200 mm)
Outlet Size	8 inch | (200 mm)
Max Flow	900 m3/hr
Max Head	25 meter
Solid Particle Size	100 mm
Suction Head	7 meter
Connection Method	Direct Couple

Discovery Priming Vacum Assist

Priming System	Mechanic Driven Rotary
Air Removal Cap	52cfm
Run Dry System	Oil Lubrication allows pump to run on dry completely without damage

Pump Construction Material

Pump Body Material	QT450 Cast Iron
Shaft	17-4 PH Stainless Steel
Impeller	304 Stainless Steel
Pump Type	Self Priming with VAT Technology
Seal	Mechanical Seal
Lubrication	Oil Lubrication

Diesel Engine Driven Specification

Engine Brand	Cummins, Defender, John Deere, etc
Max Power	110 kw (147 Hp)
Auxilary Pump Power	80 kw (107 Hp)
Speed	1800 Rpm
Fuel Consumption (Based on average engine)	30ltr/hr
Engine Instrument	Digital Display Engine Parameter, Indicating Speed, Oil Pressure, Battery Voltage, Water Temperature,Hour Meter
Safety Device	Automatic Engine Shut Off If Oil Pressure Low and High Temperature Indicator
Fuel Tank	500 Liter, Capable to Running Continue 8 Hours

Feature and Benefit

- **No Need to put water in the suction pipe or hose, water just come out easiely to discharge or outlet pump**
- **Makes water suction more easy and more further**
- **Automatic Priming System will instanly works after the engine start**
- **No need foot valve**
- **Less Maintanance**
- **High Efficiency Pump**
- **Big Flow and High Head**
- **Availiable until 7200 m3/hr Cummins Engine**
- **High Power Engine both for Defender and Cummins**

Recommended Applications

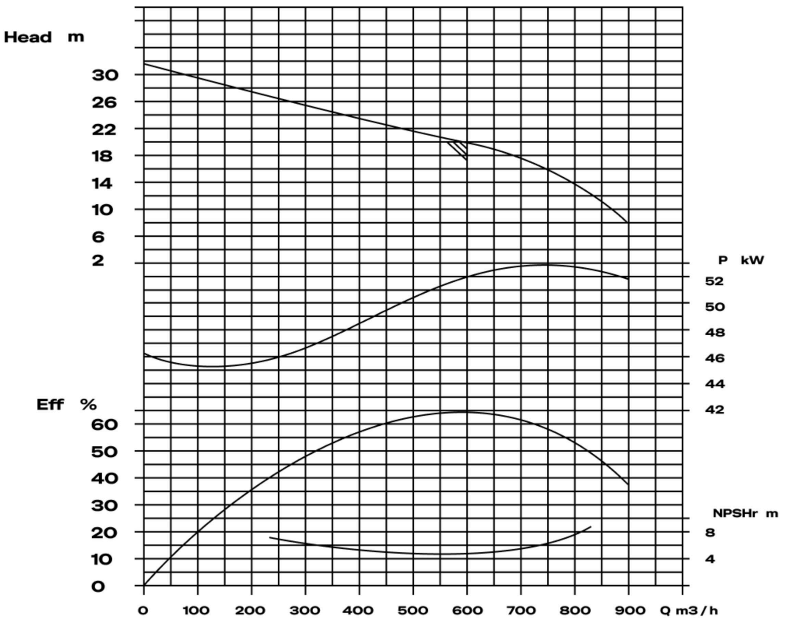
Flood Emergency & Disaster response
Municipal pumping & drainage
Construction site dewatering
Mining & Industrial Water Movement
Irrigation & agricultural needs

Optional Packages

- ✓ **Available rain cover enclosure box for engine**
- ✓ **Available rain cover enclosure box for engine and pump**
- ✓ **Available for 2 wheel trailer and 4 wheel trailer**
- ✓ **Can be modified according to field needs**

Performance Curve

DI-8-600-20-1800



This curve is based on clear water test

		DI8-600-20-1800					
Cap	Head	Speed	Eff	Pump Power	Engine Power	Section	Weight
600	20	1800	63.00	51.79	85	4.87	-

DISCOVERY PUMP
Built for Heavy Flow

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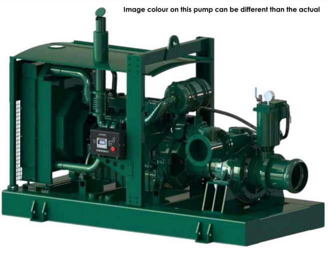


Discovery Pump Engine Driven

DWP-DI-10-800-25-1800
(Base Skid Open Type)

Discovery Pump Specification

Pump Brand	Discovery
Pump Model	DI-10
Inlet Size	10 inch | (250mm)
Outlet Size	10 inch | (250mm)
Max Flow	1200 m3/hr
Max Head	25 meter
Solid Particle Size	100 mm
Suction Head	7 meter
Connection Method	Direct Couple

Discovery Priming Vacum Assist

Priming System	Mechanic Driven Rotary
Air Removal Cap	52cfm
Run Dry System	Oil Lubrication allows pump to run on dry completely without damage

Pump Construction Material

Pump Body Material	QT450 Cast Iron
Shaft	17-4 PH Stainless Steel
Impeller	304 Stainless Steel
Pump Type	Self Priming with VAT Technology
Seal	Mechanical Seal
Lubrication	Oil Lubrication

Diesel Engine Driven Specification

Engine Brand	Cummins, Defender, John Deere, etc
Max Power	110 kw (147 Hp)
Auxilary Pump Power	80 kw (107 Hp)
Speed	1800 Rpm
Fuel Consumption (Based on average engine)	35ltr/hr
Engine Instrument	Digital Display Engine Parameter, Indicating Speed, Oil Pressure, Battery Voltage, Water Temperature,Hour Meter
Safety Device	Automatic Engine Shut Off If Oil Pressure Low and High Temperature Indicator
Fuel Tank	500 Liter, Capable to Running Continue 8 Hours

Discovery Pump DWP-DI-8-T2EB-1800D is designed for **high-volume water transfer, flood control, and heavy-duty dewatering operations**.
Featuring a self-priming system with vacuum assist, it delivers rapid priming and consistent performance without manual intervention.

Built with high-grade materials for long-term durability, this pump ensures powerful flow, reliable engine output, and stable operation in demanding field conditions.

Feature and Benefit

+ **No Need to put water in the suction pipe or hose, water just come out easiely to discharge or outlet pump**
+ **Makes water suction more easy and more further**
+ **Automatic Priming System will instanly works after the engine start**
+ **No need foot valve**
+ **Less Maintanance**
+ **High Efficiency Pump**
+ **Big Flow and High Head**
+ **Availiable until 7200 m3/hr Cummins Engine**
+ **High Power Engine both for Defender and Cummins**

Recommended Applications

Flood Emergency & Disaster response
Municipal pumping & drainage
Construction site dewatering
Mining & Industrial Water Movement
Irrigation & agricultural needs

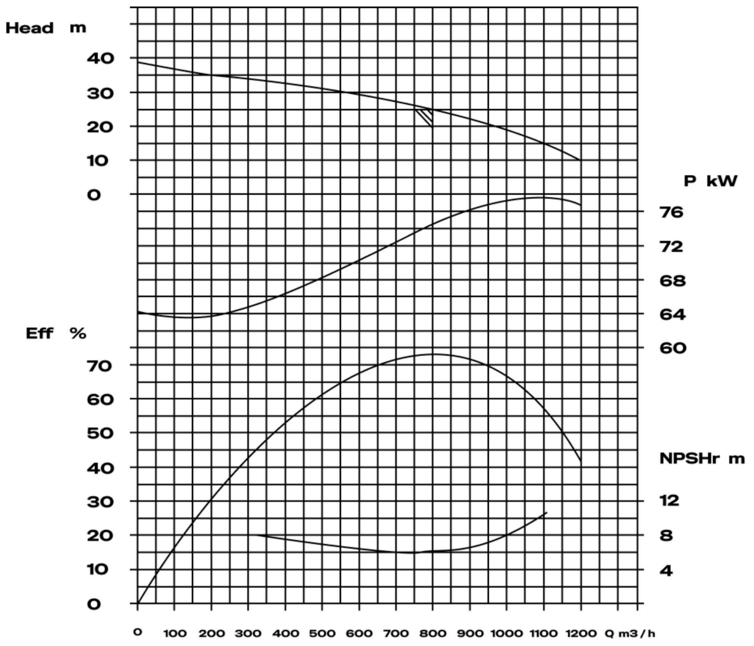
Optional Packages

✓ **Available rain cover enclosure box for engine**
✓ **Available rain cover enclosure box for engine and pump**
✓ **Available for 2 wheel trailer and 4 wheel trailer**
✓ **Can be modified according to field needs**

DISCOVERY PUMP
Built for Heavy Flow

Performance Curve

DI-10-800-25-1800



This curve is based on clear water test

		DI-10-800-25-1800					
Cap	Head	Speed	Eff	Pump Power	Engine Power	Section	Weight
800	25	1800	73.00	74.50	100	5.90	-

DISCOVERY PUMP
Built for Heavy Flow

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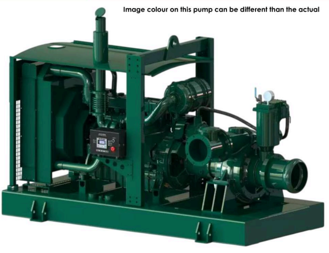

Discovery Pump Engine Driven

DWP-DI-12-1000-20-1800
(Base Skid Open Type)

Discovery Pump Specification

Pump Brand	Discovery
Pump Model	DI-12
Inlet Size	12inch | (200 mm)
Outlet Size	12inch | (200 mm)
Max Flow	900 m3/hr
Max Head	25 meter
Solid Particle Size	100 mm
Suction Head	7 meter
Connection Method	Direct Couple

Discovery Priming Vacum Assist

Priming System	Mechanic Driven Rotary
Air Removal Cap	52cfm
Run Dry System	Oil Lubrication allows pump to run on dry completely without damage

Pump Construction Material

Pump Body Material	QT450 Cast Iron
Shaft	17-4 PH Stainless Steel
Impeller	304 Stainless Steel
Pump Type	Self Priming with VAT Technology
Seal	Mechanical Seal
Lubrication	Oil Lubrication

Discovery Pump DWP-DI-8-T2EB-1800D is designed for **high-volume water transfer, flood control, and heavy-duty dewatering operations**.
Featuring a self-priming system with vacuum assist, it delivers rapid priming and consistent performance without manual intervention.

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Feature and Benefit

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+ **No need foot valve**
+ **Less Maintanance**
+ **High Efficiency Pump**
+ **Big Flow and High Head**
+ **Availiable until 7200 m3/hr Cummins Engine**
+ **High Power Engine both for Defender and Cummins**

Recommended Applications

Flood Emergency & Disaster response
Municipal pumping & drainage
Construction site dewatering

Diesel Engine Driven Specification

Engine Brand	Cummins, Defender, John Deere, etc
Max Power	110 kw (147 Hp)
Auxilary Pump Power	80 kw (107 Hp)
Speed	1800 Rpm
Fuel Consumption (Based on average engine)	30ltr/hr
Engine Instrument	Digital Display Engine Parameter, Indicating Speed, Oil Pressure, Battery Voltage, Water Temperature,Hour Meter
Safety Device	Automatic Engine Shut Off If Oil Pressure Low and High Temperature Indicator
Fuel Tank	500 Liter, Capable to Running Continue 8 Hours

Mining & Industrial Water Movement

Irrigation & agricultural needs

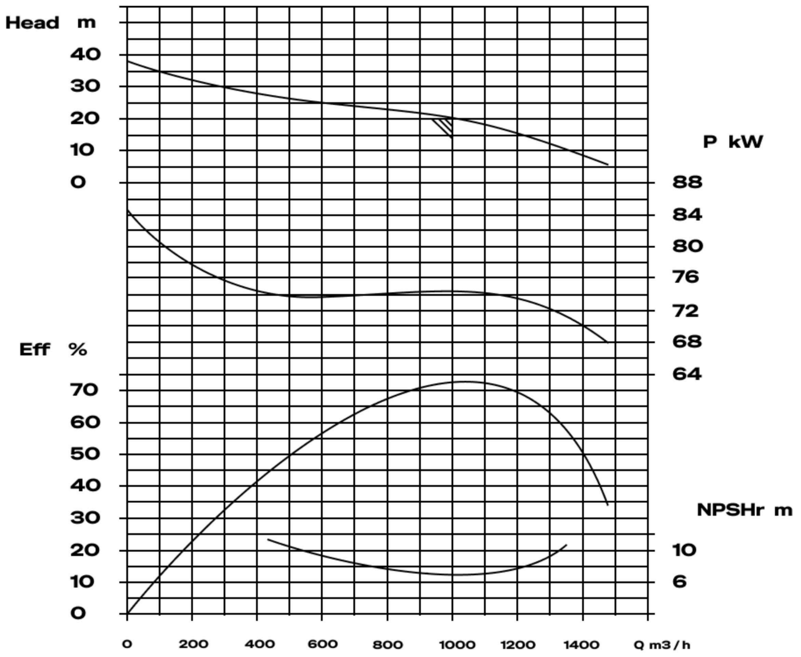
Optional Packages

- ✓ **Available rain cover enclosure box for engine**
- ✓ **Available rain cover enclosure box for engine and pump**
- ✓ **Available for 2 wheel trailer and 4 wheel trailer**
- ✓ **Can be modified according to field needs**

DISCOVERY PUMP
Built for Heavy Flow

Performance Curve

DI-12-1000-20-1800



This curve is based on clear water test

DI-12-1000-20-1800							
Cap	Head	Speed	Eff	Pump Power	Engine Power	Section	Weight
1000	20	1800	73.00	74.50	107	6.84	-

DISCOVERY PUMP
Built for Heavy Flow

Discovery Pump Engine Driven

DWP-DI-14-1400-20-1800
(Base Skid Open Type)

Image colour on this pump can be different than the actual

Discovery Pump Specification

Pump Brand	Discovery
Pump Model	DI-14
Inlet Size	14inch | (200 mm)
Outlet Size	14inch | (200 mm)
Max Flow	900 m3/hr
Max Head	25 meter
Solid Particle Size	100 mm
Suction Head	7 meter
Connection Method	Direct Couple

Discovery Priming Vacum Assist

Priming System	Mechanic Driven Rotary
Air Removal Cap	52cfm
Run Dry System	Oil Lubrication allows pump to run on dry completely without damage

Pump Construction Material

Pump Body Material	QT450 Cast Iron
Shaft	17-4 PH Stainless Steel
Impeller	304 Stainless Steel
Pump Type	Self Priming with VAT Technology
Seal	Mechanical Seal
Lubrication	Oil Lubrication

Diesel Engine Driven Specification

Engine Brand	Cummins, Defender, John Deere, etc
Max Power	110 kw (147 Hp)
Auxilary Pump Power	80 kw (107 Hp)
Speed	1800 Rpm
Fuel Consumption (Based on average engine)	30ltr/hr
Engine Instrument	Digital Display Engine Parameter, Indicating Speed, Oil Pressure, Battery Voltage, Water Temperature,Hour Meter
Safety Device	Automatic Engine Shut Off If Oil Pressure Low and High Temperature Indicator
Fuel Tank	500 Liter, Capable to Running Continue 8 Hours

Discovery Pump DWP-DI-8-T2EB-1800D is designed for **high-volume water transfer, flood control, and heavy-duty dewatering operations.**
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- + **Less Maintanance**
- + **High Efficiency Pump**
- + **Big Flow and High Head**
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- + **High Power Engine both for Defender and Cummins**

Recommended Applications

Flood Emergency & Disaster response

Municipal pumping & drainage

Construction site dewatering

Mining & Industrial Water Movement

Irrigation & agricultural needs

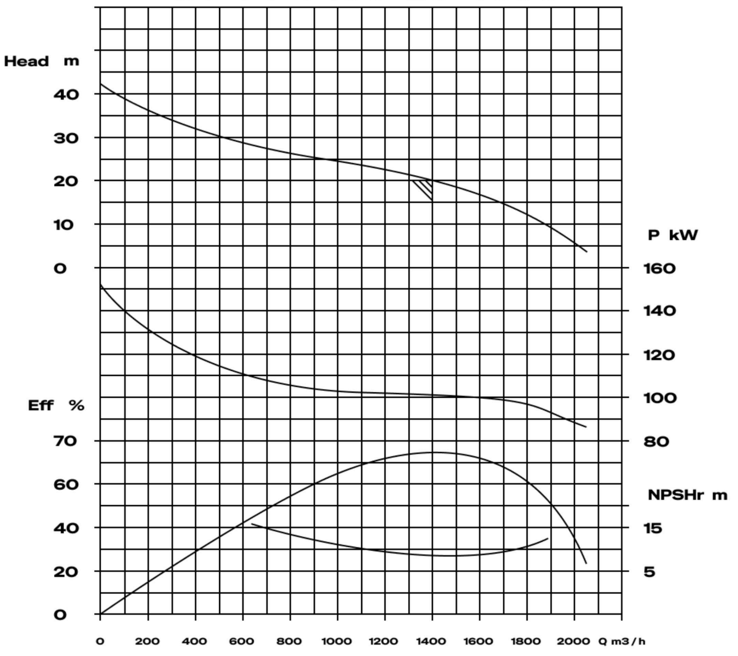
Optional Packages

- ✓ **Available rain cover enclosure box for engine**
- ✓ **Available rain cover enclosure box for engine and pump**
- ✓ **Available for 2 wheel trailer and 4 wheel trailer**
- ✓ **Can be modified according to field needs**

DISCOVERY PUMP
Built for Heavy Flow

Performance Curve

DI-14-1400-20-1800



This curve is based on clear water test

		DI-14-1400-20-1800					
Cap	Head	Speed	Eff	Pump Power	Engine Power	Section	Weight
1400	20	1800	75.00	101.52	150	8.57	-

DISCOVERY PUMP
Built for Heavy Flow

Discovery Pump Engine Driven

DWP-DI-16-3000-15-1500
(Base Skid Open Type)

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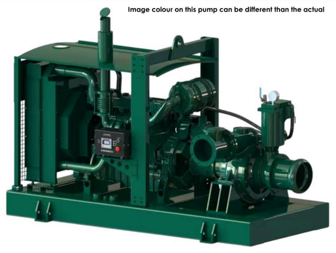


Discovery Pump Specification

Pump Brand	Discovery
Pump Model	DI-14
Inlet Size	14inch | (200 mm)
Outlet Size	14inch | (200 mm)
Max Flow	900 m3/hr
Max Head	25 meter
Solid Particle Size	100 mm
Suction Head	7 meter
Connection Method	Direct Couple

Discovery Priming Vacum Assist

Priming System	Mechanic Driven Rotary
Air Removal Cap	52cfm
Run Dry System	Oil Lubrication allows pump to run on dry completely without damage

Pump Construction Material

Pump Body Material	QT450 Cast Iron
Shaft	17-4 PH Stainless Steel
Impeller	304 Stainless Steel
Pump Type	Self Priming with VAT Technology
Seal	Mechanical Seal
Lubrication	Oil Lubrication

Diesel Engine Driven Specification

Engine Brand	Cummins, Defender, John Deere, etc
Max Power	110 kw (147 Hp)
Auxilary Pump Power	80 kw (107 Hp)
Speed	1800 Rpm
Fuel Consumption (Based on average engine)	30ltr/hr
Engine Instrument	Digital Display Engine Parameter, Indicating Speed, Oil Pressure, Battery Voltage, Water Temperature,Hour Meter
Safety Device	Automatic Engine Shut Off If Oil Pressure Low and High Temperature Indicator
Fuel Tank	500 Liter, Capable to Running Continue 8 Hours

Discovery Pump DWP-DI-8-T2EB-1800D is designed for **high-volume water transfer, flood control, and heavy-duty dewatering operations**.
Featuring a self-priming system with vacuum assist, it delivers rapid priming and consistent performance without manual intervention.

Built with high-grade materials for long-term durability, this pump ensures powerful flow, reliable engine output, and stable operation in demanding field conditions.

Feature and Benefit

- No Need to put water in the suction pipe or hose, water just come out easiely to discharge or outlet pump
- Makes water suction more easy and more further
- Automatic Priming System will instanly works after the engine start
- No need foot valve
- Less Maintanance
- High Efficiency Pump
- Big Flow and High Head
- Availiable until 7200 m3/hr Cummins Engine
- High Power Engine both for Defender and Cummins

Recommended Applications

Flood Emergency & Disaster response

Municipal pumping & drainage

Construction site dewatering

Mining & Industrial Water Movement

Irrigation & agricultural needs

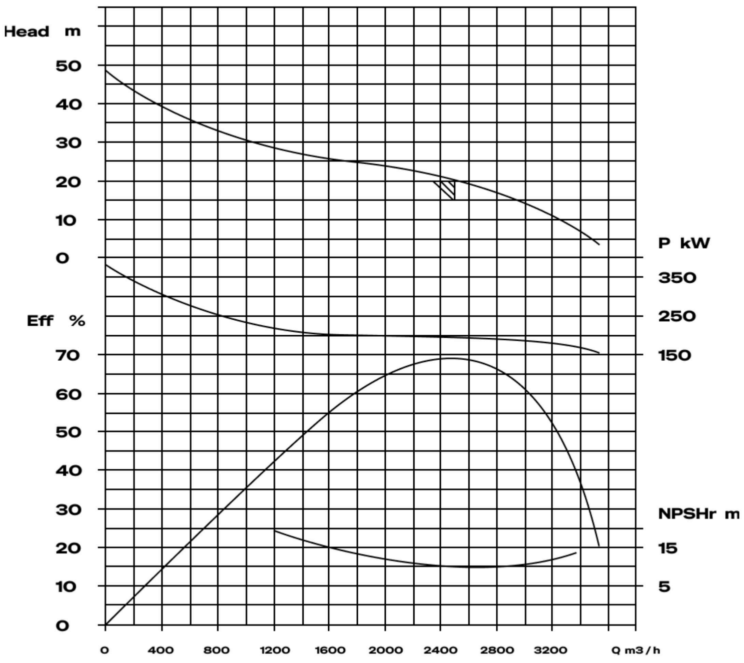
Optional Packages

- ✓ Available rain cover enclosure box for engine
- ✓ Available rain cover enclosure box for engine and pump
- ✓ Available for 2 wheel trailer and 4 wheel trailer
- ✓ Can be modified according to field needs

DISCOVERY PUMP
Built for Heavy Flow

Performance Curve

DI-16-3000-15-1500



This curve is based on clear water test

		DI-16-3000-15-1500					
Cap	Head	Speed	Eff	Pump Power	Engine Power	Section	Weight
3000	15	1500	69.00	197.04	230	9.89	-

DISCOVERY PUMP
Built for Heavy Flow

Discovery Pump Engine Driven

DWP-DI-20
(Base Skid Open Type)

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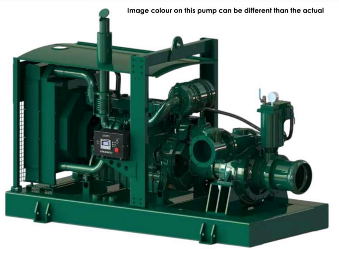


Discovery Pump Specification

Pump Brand	Discovery
Pump Model	DI-20
Inlet Size	20inch | (500 mm)
Outlet Size	20inch | (500 mm)
Max Flow	4.400 m3/hr
Max Head	26 meter
Solid Particle Size	100 mm
Suction Head	7 meter
Connection Method	Direct Couple

Discovery Priming Vacum Assist

Priming System	Mechanic Driven Rotary
Air Removal Cap	52cfm
Run Dry System	Oil Lubrication allows pump to run on dry completely without damage

Pump Construction Material

Pump Body Material	QT450 Cast Iron
Shaft	17-4 PH Stainless Steel
Impeller	304 Stainless Steel
Pump Type	Self Priming with VAT Technology
Seal	Mechanical Seal
Lubrication	Oil Lubrication

Diesel Engine Driven Specification

Engine Brand	Cummins
Max Power	250 kw
Auxilary Pump Power	220 kw
Speed	1500 rpm
Fuel Consumption (Based on average engine)	30ltr/hr
Engine Instrument	Digital Display Engine Parameter, Indicating Speed, Oil Pressure, Battery Voltage, Water Temperature,Hour Meter
Safety Device	Automatic Engine Shut Off If Oil Pressure Low and High Temperature Indicator
Fuel Tank	500 Liter, Capable to Running Continue 8 Hours

Discovery Pump DWP-DI-20 is designed for **high-volume water transfer, flood control, and heavy-duty dewatering operations**.
Featuring a self-priming system with vacuum assist, it delivers rapid priming and consistent performance without manual intervention.

Built with high-grade materials for long-term durability, this pump ensures powerful flow, reliable engine output, and stable operation in demanding field conditions.

Feature and Benefit

- **No Need to put water in the suction pipe or hose, water just come out easiely to discharge or outlet pump**
- **Makes water suction more easy and more further**
- **Automatic Priming System will instanly works after the engine start**
- **No need foot valve**
- **Less Maintanance**
- **High Efficiency Pump**
- **Big Flow and High Head**
- **Availiable until 7200 m3/hr Cummins Engine**
- **High Power Engine both for Defender and Cummins**

Recommended Applications

Flood Emergency & Disaster response
Municipal pumping & drainage
Construction site dewatering
Mining & Industrial Water Movement
Irrigation & agricultural needs

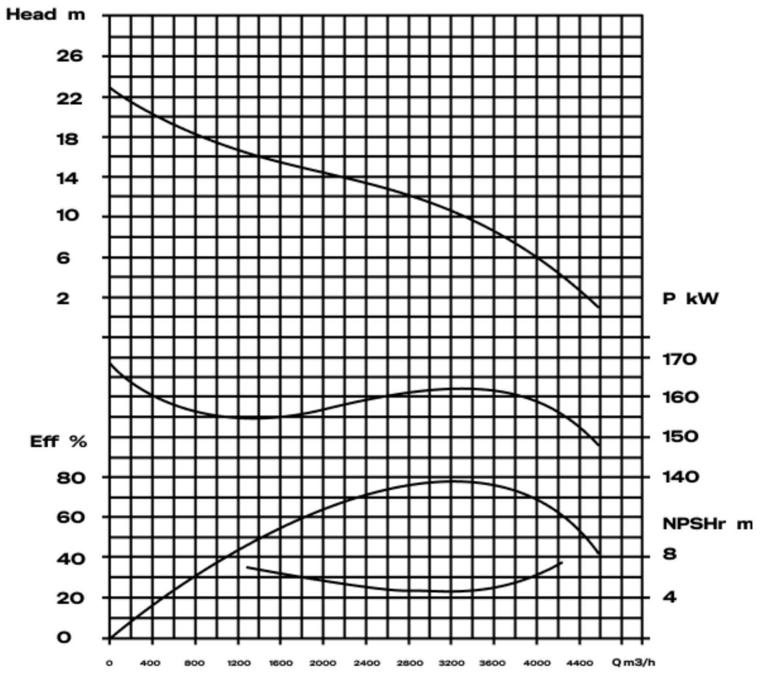
Optional Packages

- ✓ **Available rain cover enclosure box for engine**
- ✓ **Available rain cover enclosure box for engine and pump**
- ✓ **Available for 2 wheel trailer and 4 wheel trailer**
- ✓ **Can be modified according to field needs**

DISCOVERY PUMP
Built for Heavy Flow

Performance Curve

DI-20

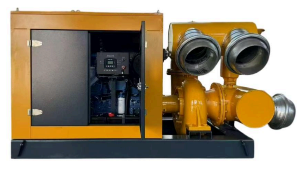


This curve is based on clear water test

		DI-20					
Cap (m3/h)	Head (m)	Speed (r/min)	Eff (%)	Pump Power (kW)	Engine Power (kW)	Section (NPSH) r m	Weight (kg)
3600	12	750	76.00	162.10	250	5.2	-

DISCOVERY PUMP
Built for Heavy Flow

Product Image Examples

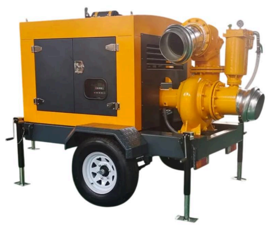


BASE SKID TYPE
STANDARD CONFIGURATION

- Heavy Duty Base Skid
- Crane Lifting Hole
- Big Capacity Daily Fuel Tank
- 4 Bolt Hole For Diesel Pump Foundation

OPTIONAL PACKAGE

- Base Skid With Engine Shelter Canopy
- Base Skid With Engine Box Enclosure
- Base Skid With Engine and Pump Box Enclosure

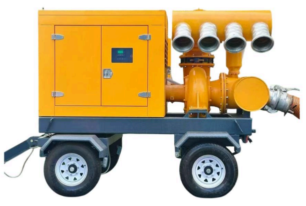


2 WHEEL TRAILER TYPE
STANDARD CONFIGURATION

- Heavy Duty Base Skid With 2 Wheel Trailer
- Leaf Spring Suspension
- Big Capacity Daily Fuel Tank
- 15 Inch Wheel Load Tyre With Tyre Cover
- Heavy Duty Towing Hook and Jack Stand
- Easy Handling

OPTIONAL PACKAGE

- 2 Wheel Trailer With Engine Shelter Canopy
- 2 Wheel Trailer With Engine Box Enclosure
- 2 Wheel Trailer With Engine and Pump Box Enclosure



4 WHEEL TRAILER TYPE
STANDARD CONFIGURATION

- Heavy Duty Base Skid With 4 Wheel Trailer
- Leaf Spring Suspension
- Big Capacity Daily Fuel Tank
- 15 Inch Wheel Load Tyre With Tyre Cover
- Heavy Duty Towing Hook and Jack Stand
- Easy Handling
- Easy Turn With Swing Bearing Container

OPTIONAL PACKAGE

- 4 Wheel Trailer With Engine Shelter Canopy
- 4 Wheel Trailer With Engine Box Enclosure
- 4 Wheel Trailer With Engine and Pump Box Enclosure