

6CC Submersible Borehole Pumps For 6" Well

Construction

Mini Submersible borehole pumps for 6"(150mm) deep wells with various type of impellers gives superior durability with best in class performance. Closely coupled mini submersible pumps are designed in such a way that it can be used in openwell operations as well with better efficiency.

Applications

- Agriculture
- Domestic Building Services
- Commercial Building Services
- Public Utilities

Operating Conditions

- Liquid temperature : upto 33 °C
- Total Solids : 3000ppm (Max.)
- Durability : 50ppm (Silica Scale Max.)
- Continuous duty

Water filled Rewindable motor

- 2-pole Induction motor, 50Hz (n= 2900 rpm)
- For single phase 220V and for Three Phase 440V
- Voltage tolerances : +6% -15%
- Insulation class : B

Special features

- Available with three phase models
- Winding designs for different voltage supplies

MATERIAL SPECIFICATIONS

PUMP

| Components | Materials |
|-----------------|------------------|
| Suction Housing | Cast Iron FG 200 |
| Diffuser | Cast Iron FG 200 |
| Guide vanes | Noryl, GF30% |
| Impeller | LTB-2 / SS 410 |
| Pump Shaft | SS 420 |
| Sleeve | SS 410 |
| NRV Body | Cast Iron FG 200 |
| Locking Strip | SS 304 |
| Guide Bushes | LTB4 |
| Delivery Flange | Cast Iron FG 200 |
| Strainer | SS 202 |

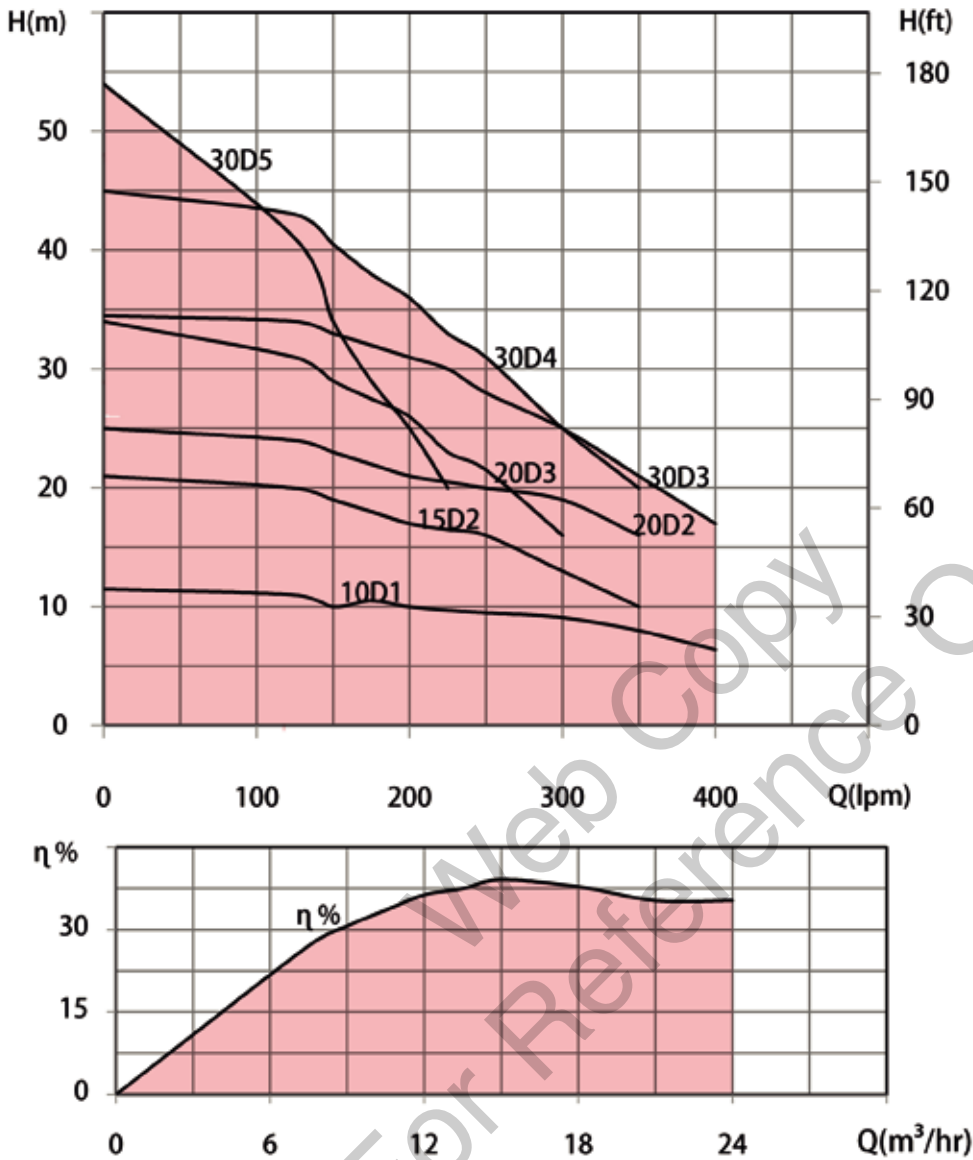
MOTOR

| Components | Materials |
|----------------|--------------------------|
| Body | SS 304 |
| Housings | Cast Iron FG 200 |
| Rotor shaft | SS 420 (Hardened) |
| Thrust Bearing | Carbon , SS410 |
| Bearing Bush | LTB4 |
| Seal | Oil Seal, Nitrile Rubber |



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Characteristic Curves



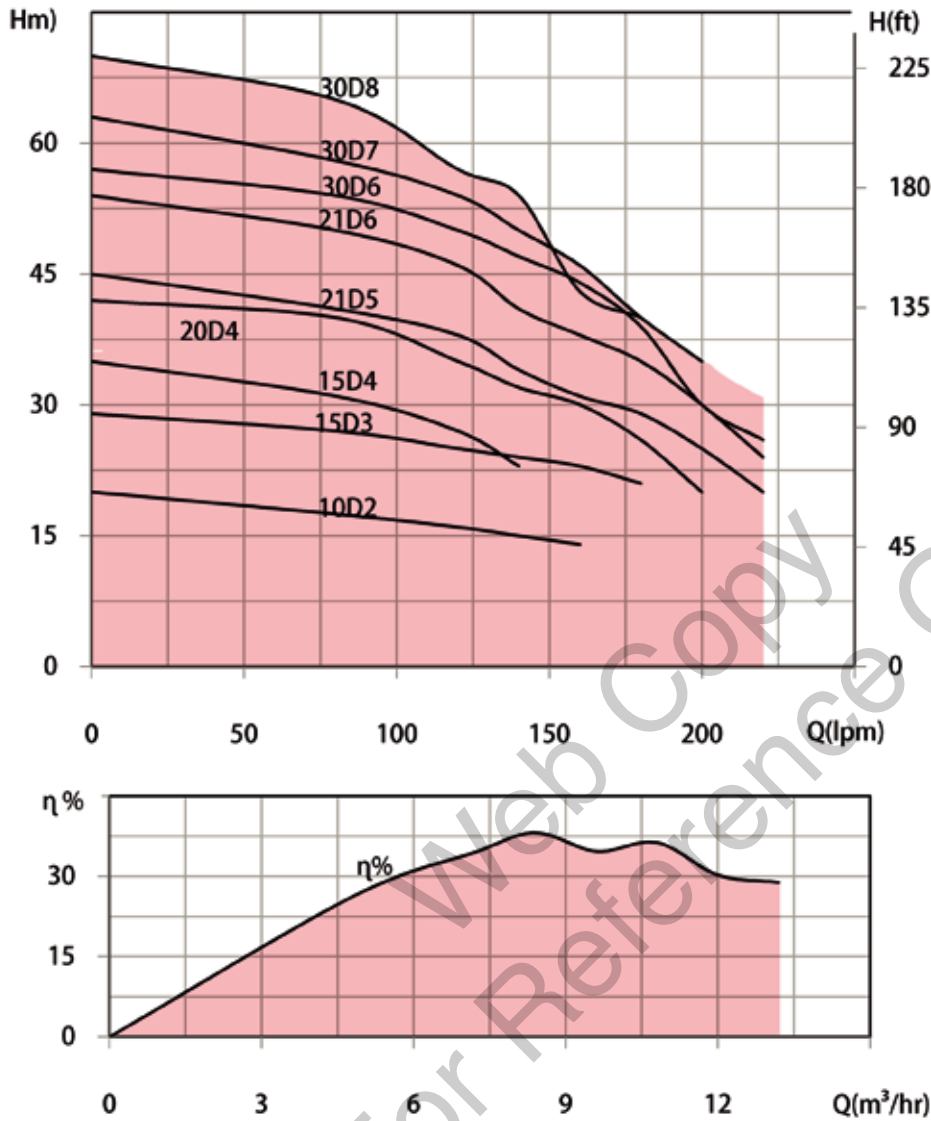
Hydraulic Performance & Dimensions

| Product Code | HP | kW | Phase | Q - m³/hr | 0 | 10.5 | 12 | 15 | 18 | 21 | 24 | DNM |
|--------------|-----|------|-------|----------------------|-----------|------|-----|------|-----|-----|-----|-----|
| | | | | | Q - l/min | 0 | 175 | 200 | 250 | 300 | 350 | |
| 6CC10D1/1 | 1.0 | 0.75 | M/T | Total Head in meters | 11.5 | 10.5 | 10 | 9.5 | 9.1 | 8 | 6.4 | 2" |
| 6CC15D2/2 | 1.5 | 1.1 | M/T | | 21 | 18 | 17 | 16 | 13 | 10 | - | 2" |
| 6CC20D2/2 | 2.0 | 1.5 | M/T | | 25 | 22 | 21 | 20 | 19 | 16 | - | 2" |
| 6CC20D3/3 | 2.0 | 1.5 | M/T | | 34 | 27.5 | 26 | 21.5 | 16 | - | - | 2" |
| 6CC30D3/3 | 3.0 | 2.2 | M/T | | 34.5 | 32 | 31 | 28 | 25 | 21 | 17 | 2" |
| 6CC30D4/4 | 3.0 | 2.2 | M/T | | 45 | 38 | 36 | 31 | 25 | 20 | - | 2" |
| 6CC30D5/5 | 3.0 | 2.2 | M/T | | 54 | 42 | 36 | 24 | - | - | - | 2" |

* M - Single Phase, T - Three Phase, Q - Discharge, DNM - Nominal Diameter

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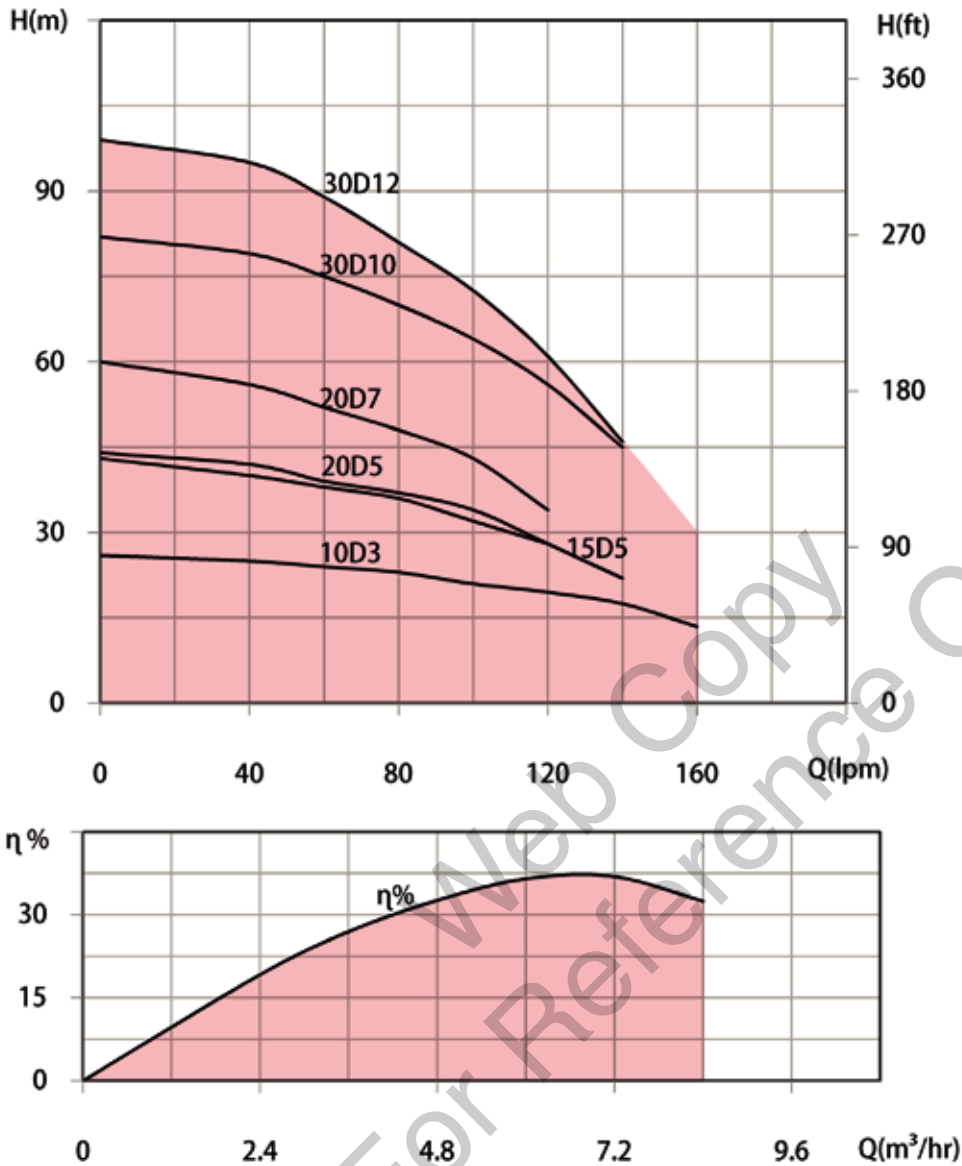
Hydraulic Performance & Dimensions

| Product Code | HP | kW | Phase | Q - m³/hr | 0 | 4.8 | 7.2 | 8.4 | 9.6 | 10.8 | 12 | 13.2 | DNM |
|--------------|-----|------|-------|----------------------|-----------|------|-----|-----|-----|------|-----|------|-----|
| | | | | | Q - l/min | 0 | 80 | 120 | 140 | 160 | 180 | 200 | |
| 6CC10D2/2 | 1.0 | 0.75 | M/T | Total Head in meters | 20 | 17.5 | 16 | 15 | 14 | - | - | - | 2" |
| 6CC15D3/3 | 1.5 | 1.1 | M/T | | 29 | 27 | 25 | 24 | 23 | 21 | - | - | 2" |
| 6CC15D4/4 | 1.5 | 1.1 | M/T | | 35 | 31 | 27 | 23 | - | - | - | - | 2" |
| 6CC20D4/4 | 2.0 | 1.5 | M/T | | 42 | 40 | 35 | 32 | 30 | 26 | 20 | - | 2" |
| 6CC21D5/5 | 2.0 | 1.5 | M/T | | 45 | 41 | 38 | 34 | 31 | 29 | 25 | 20 | 2" |
| 6CC21D6/6 | 2.0 | 1.5 | M/T | | 54 | 50 | 46 | 41 | 38 | 35 | 30 | 24 | 2" |
| 6CC30D6/6 | 3.0 | 2.2 | M/T | | 57 | 54 | 50 | 47 | 44 | 39 | 30 | 26 | 2" |
| 6CC30D7/7 | 3.0 | 2.2 | M/T | | 63 | 58 | 54 | 50 | 46 | 40 | 35 | - | 2" |
| 6CC30D8/8 | 3.0 | 2.2 | M/T | | 70 | 65 | 57 | 54 | 43 | 40 | - | - | 2" |

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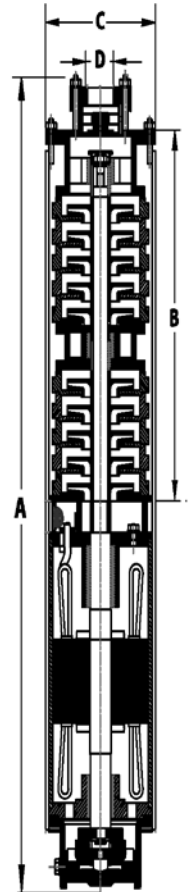
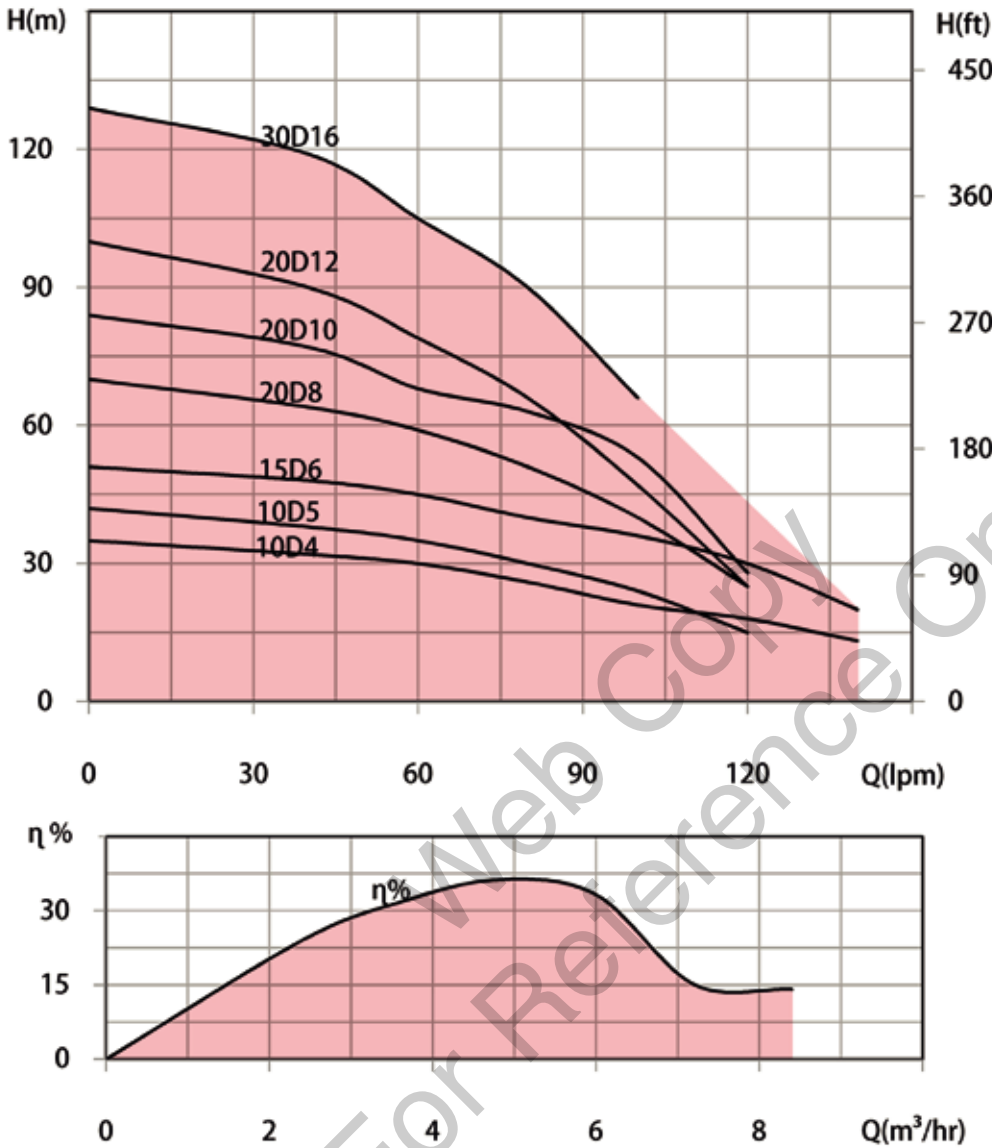
Hydraulic Performance & Dimensions

| Product Code | HP | kW | Phase | Q - m ³ /hr | 0 | 2.4 | 3.6 | 4.8 | 6 | 7.2 | 8.4 | 9.6 | DNM |
|--------------|-----|------|-------|------------------------|-----------|-----|-----|-----|------|------|------|------|------|
| | | | | | Q - l/min | 0 | 40 | 60 | 80 | 100 | 120 | 140 | |
| 6CC15D5/5 | 1.5 | 1.1 | M/T | Total Head in meters | 43 | 40 | 38 | 36 | 32 | 28 | - | - | 1.5" |
| 6CC10D3/3 | 1.0 | 0.75 | M/T | | 26 | 25 | 24 | 23 | 21 | 19.5 | 17.5 | 13.5 | 1.5" |
| 6CC15D5/5 | 1.5 | 1.1 | M/T | | 43 | 40 | 38 | 36 | 32 | 28 | - | - | 1.5" |
| 6CC20D5/5 | 2.0 | 1.5 | M/T | | 44 | 42 | 39 | 37 | 34 | 28 | 22 | - | 1.5" |
| 6CC20D7/7 | 2.0 | 1.5 | M/T | | 60 | 56 | 52 | 48 | 43 | 34 | - | - | 1.5" |
| 6CC30D10/10 | 3.0 | 2.2 | M/T | | 82 | 79 | 75 | 70 | 64 | 56 | 45 | - | 1.5" |
| 6CC30D12/12 | 3.0 | 2.2 | M/T | | 99 | 95 | 89 | 81 | 72.5 | 61 | 46 | - | 1.5" |

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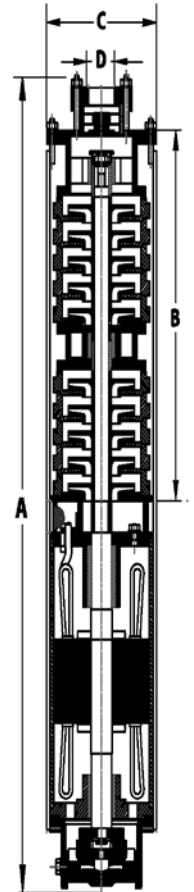
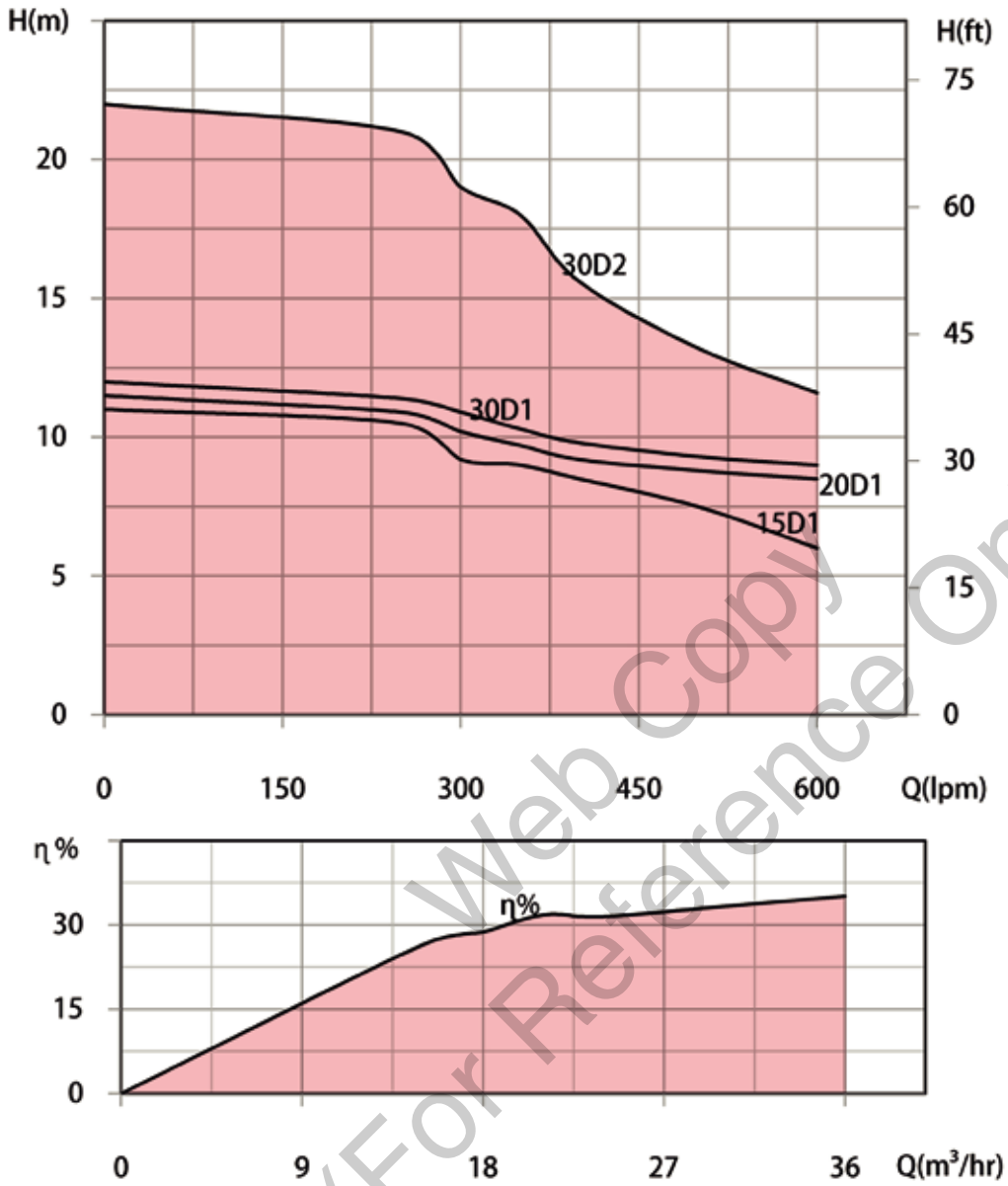
Hydraulic Performance & Dimensions

| Product Code | HP | kW | Phase | Q - m³/hr | | | | | | | DNM |
|--------------|-----|------|-------|-----------|-----|-----|-----|-----|-----|------|------|
| | | | | 0 | 2.4 | 3.6 | 4.8 | 6 | 7.2 | 8.4 | |
| 6CC10D4/4 | 1.0 | 0.75 | M/T | 0 | 40 | 60 | 80 | 100 | 120 | 140 | 1.5" |
| 6CC10D5/5 | 1.0 | 0.75 | M/T | 35 | 32 | 30 | 26 | 21 | 18 | 13.2 | 1.5" |
| 6CC15D6/6 | 1.5 | 1.1 | M/T | 42 | 38 | 35 | 30 | 24 | 15 | - | 1.5" |
| 6CC20D8/8 | 2.0 | 1.5 | M/T | 51 | 48 | 45 | 40 | 36 | 30 | 20 | 1.5" |
| 6CC20D10/10 | 2.0 | 1.5 | M/T | 70 | 64 | 59 | 51 | 40 | 25 | - | 1.5" |
| 6CC20D12/12 | 2.0 | 1.5 | M/T | 84 | 77 | 68 | 63 | 53 | 28 | - | 1.5" |
| 6CC30D16/16 | 3.0 | 2.2 | M/T | 100 | 40 | 79 | 66 | 47 | 25 | - | 1.5" |
| | | | | 129 | 119 | 105 | 90 | 66 | - | - | 1.5" |

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| Product Code | HP | kW | Phase | Q - m³/hr | | | | | | | | DNM |
|--------------|-----|-----|-------|-----------|------|------|------|------|------|------|------|-----|
| | | | | 0 | 15 | 18 | 21 | 24 | 30 | 36 | | |
| 6CC15D1/1 | 1.5 | 1.1 | M/T | 0 | 15 | 18 | 21 | 24 | 30 | 36 | | |
| 6CC20D1/1 | 2.0 | 1.5 | M/T | 0 | 250 | 300 | 350 | 400 | 500 | 600 | | |
| 6CC30D1/1 | 3.0 | 2.2 | M/T | 11 | 10.5 | 9.2 | 9 | 8.5 | 7.5 | 6 | 2.5" | |
| 6CC30D2/2 | 3.0 | 2.2 | M/T | 11.5 | 10.9 | 10.2 | 9.7 | 9.2 | 8.8 | 8.5 | 2.5" | |
| | | | | 12 | 11.4 | 10.9 | 10.3 | 9.8 | 9.3 | 9 | 2.5" | |
| | | | | 22 | 21 | 19 | 18 | 15.6 | 13.2 | 11.6 | 2.5" | |

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