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Product information presented here reflects conditions at time of publication. Consult factory regarding discrepancies or inconsistencies.



ENGINEERED PRODUCTS

Zoeller Family of Water Solutions™

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SECTION: Z1.20.130
 ZM1376
 1210
 Supersedes
 0810

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**PERFORMANCE DATA COMMERCIAL SEWAGE PUMPS
 MODELS 6404 - 6405**



GENERAL DATA

| | <input type="checkbox"/> 6404 | <input type="checkbox"/> 6405 |
|--|----------------------------------|----------------------------------|
| PUMP NAME PLATE HORSEPOWER: | 2HP | 3 HP |
| SOLID SIZE: in (mm) | 3" (76mm) | 3" (76mm) |
| MINIMUM HEAD: ft. (m) | 5.0' (1.5m) | 5.0' (1.5m) |
| MAXIMUM HEAD: ft. (m) | 33.0' (10.1m) | 38.0' (11.6m) |
| MAX.FLOW GPM (L/min) @ MIN. HEAD ft. (m) | 300 GPM @ 5' (1136 L/min @ 1.5m) | 361 GPM @ 5' (1366 L/min @ 1.5m) |
| DISCHARGE SIZE: | 4" HORIZONTAL FLANGE | 4" HORIZONTAL FLANGE |

| | | | |
|---------------------------|------------------|------------------------------------|---|
| PUMP NET WEIGHT: lbs (kg) | 150 lbs (68 kg) | MOTOR TYPE: | SUBMERSIBLE |
| SERVICE FACTOR: | 1.15 | TYPE SOW POWER CORD LENGTH: ft (m) | 25' (7.62m) <input type="checkbox"/> _____' |
| MOTOR DESIGN LETTER: | NEMA B | MOTOR SHAFT: | 416 S.S. |
| IMPELLER TYPE: | CAST IRON VORTEX | STATOR INSULATION: | CLASS B |
| O-RINGS AND COVER GASKET: | VITON | LEAD WIRES INSULATION: | CLASS B |
| RPM: | 1750 | MAXIMUM STATOR TEMPERATURE: | 266°F (130°C) |

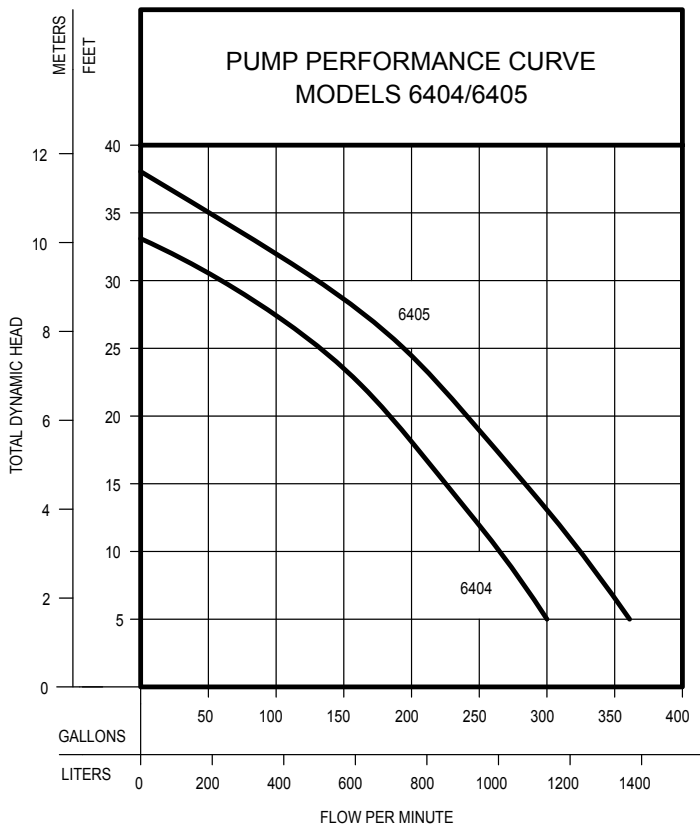
| | | |
|---|---|--|
| SHAFT SEAL CONSTRUCTION: | STANDARD | UPPER-CARBON/CERAMIC, LOWER-SILICON CARBIDE/ CARBON |
| | OPTIONAL <input type="checkbox"/> UPPER <input type="checkbox"/> LOWER | <input type="checkbox"/> SILICON CARBIDE / CARBON <input type="checkbox"/> SILICON CARBIDE / SILICON CARBIDE <input type="checkbox"/> SILICON CARBIDE / SILICON CARBIDE |
| MOTOR THERMAL SHUTOFF: | STANDARD (Single Phase Only) | THERMAL OVERLOAD WITH AUTOMATIC RESET |
| MOISTURE DETECTION: | <input type="checkbox"/> OPTIONAL* | MOISTURE SENSING PROBES |
| MINIMUM RECOMMENDED FLUID LEVEL: in (m) | | 12" (0.30m) |
| MAXIMUM WATER TEMPERATURE: | | 130°F (54°C) |
| | | 120°F (49°C) FOR WD6405 |

*Requires a circuit in control panel to function.
 **See back side for listed CSA models.

ELECTRICAL DATA

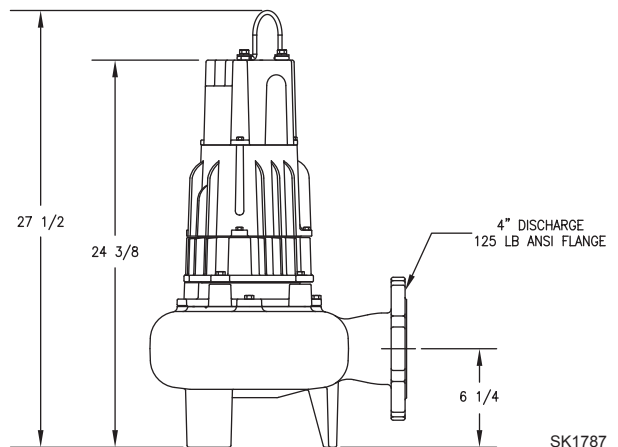
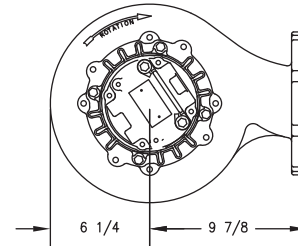
| MODEL | HP | <input type="checkbox"/> 200V/1Ph | | <input type="checkbox"/> 230V/1Ph | | <input type="checkbox"/> 200V/3Ph | | <input type="checkbox"/> 230V/3Ph | | <input type="checkbox"/> 460V/3Ph | | <input type="checkbox"/> 575V/3Ph | |
|-------------------------------|----|-----------------------------------|------|-----------------------------------|------|-----------------------------------|------|-----------------------------------|------|-----------------------------------|------|-----------------------------------|------|
| | | FLA | LRA | FLA | LRA | FLA | LRA | FLA | LRA | FLA | LRA | FLA | LRA |
| <input type="checkbox"/> 6404 | 2 | 14.4 | 49.5 | 12.9 | 44.0 | 13.8 | 46.0 | 10.5 | 42.0 | 5.2 | 21.0 | 4.1 | 17.9 |
| <input type="checkbox"/> 6405 | 3 | 20.2 | 49.5 | 19.0 | 44.0 | 14.8 | 46.0 | 12.2 | 39.5 | 6.1 | 21.0 | 4.8 | 17.9 |

Refer to reverse side for Head/Capacity Performance Curves



| MODEL | | 6404 | | 6405 | |
|----------------|--------|---------------|--------|---------------|--------|
| Feet | Meters | Gal. | Liters | Gal. | Liters |
| 5 | 1.5 | 300 | 1136 | 361 | 1367 |
| 10 | 3.0 | 265 | 1003 | 326 | 1234 |
| 15 | 4.6 | 224 | 848 | 284 | 1075 |
| 20 | 6.1 | 184 | 698 | 241 | 912 |
| 25 | 7.6 | 134 | 503 | 197 | 746 |
| 30 | 9.1 | 60 | 227 | 134 | 507 |
| 35 | 10.7 | -- | -- | 50 | 189 |
| Shut-off Head: | | 33 ft.(10.1m) | | 38 ft.(11.6m) | |

012116B



SK1787

Standard all models - 25 ft. cord - 2 HP

| 6404 MODELS | Control Selection (See Selection Guide) | | | | | Listed cCSAus |
|----------------|---|----|------|---------|--------|------------------|
| | Volts | Ph | Amps | Simplex | Duplex | |
| *E6404 | 230 | 1 | 12.9 | 2 or 3 | 4 | Yes |
| *WD6404 | 230 | 1 | 12.9 | --- | --- | Yes |
| I6404 | 200 | 1 | 14.4 | 2 or 3 | 4 | Yes |
| J6404 | 200 | 3 | 13.8 | 3 | 4 | Yes |
| F6404 | 230 | 3 | 10.5 | 3 | 4 | Yes |
| G6404 | 460 | 3 | 5.2 | 3 | 4 | Yes |
| BA6404 | 575 | 3 | 4.1 | 3 | 4 | Yes |

Standard all models - 25 ft. cord - 3 HP

| 6405 MODELS | Control Selection (See Selection Guide) | | | | | Listed cCSAus |
|----------------|---|----|------|---------|--------|------------------|
| | Volts | Ph | Amps | Simplex | Duplex | |
| *E6405 | 230 | 1 | 19.0 | 2 or 3 | 4 | Yes |
| *WD6405 | 230 | 1 | 19.0 | --- | --- | Yes |
| I6405 | 200 | 1 | 20.2 | 3 | 4 | Yes |
| J6405 | 200 | 3 | 14.8 | 3 | 4 | Yes |
| F6405 | 230 | 3 | 12.2 | 3 | 4 | Yes |
| G6405 | 460 | 3 | 6.1 | 3 | 4 | Yes |
| BA6405 | 575 | 3 | 4.8 | 3 | 4 | Yes |

*Molded plug.

20 amp outlet 10-0060, must be used with Model E6405 and WD6405.

All pumps available with optional moisture sensor. Seal fail indicator light available in NEMA 4X control panels.

SELECTION GUIDE

1. Single or Double piggyback variable level float switch pump control using the 15 amp plug and receptacle. Refer to ZM1536.
2. Single piggyback variable level float switch, hard wiring the pump lead wires to the float switch leads.
3. Refer to ZM1342 and select the correct simplex control panel listed for the pump. Refer to ZM1536 and select the desired variable level control switch, 3 required.
4. Refer to ZM1342 and select the correct duplex control panel listed for the pump. Refer to ZM1536 and select the desired variable level control switch, 3 or 4 required.

FEATURES

- Durable Epoxy Coated cast iron construction.
- Motor - 2 HP (6404) or 3 HP (6405), 60 Hz, 1750 RPM, 1 PH or 3 PH, oil-filled, hermetically sealed, automatic reset, thermal overload protected (1 PH).
- Bearings - Upper and lower ball bearings
- Stainless steel motor shaft.
- Dual Mechanical Shaft Seals - Upper carbon/ceramic, Lower silicon carbide/carbon. Optional seal materials available
- Viton O-ring seals and cover gasket
- Impeller - Non-clogging cast iron vortex design passes 3" spherical solids.
- 25 foot UL Listed 3-wire neoprene cord and plug. Longer cords available in lengths of 35-50 feet.
- No screens to clog.
- Stainless steel screws, bolts and handle.
- 4" Horizontal standard ANSI flange.
- Corrosion resistant powder coated epoxy finish.
- Moisture sensors available for early warning of seal failure. (Optional)
- 100% computerized tested.

For additional information on Zoeller products refer to catalog for; Rail Systems, ZM1347; Float Switch Brackets, ZM1328; Check Valves, ZM1348; High Water Alarm Panels and Float Switches, ZM1536; Control Panels, ZM1342.

CAUTION

All installation of controls, protection devices and wiring should be done by a qualified licensed electrician. All electrical and safety codes should be followed including the most recent National Electrical Code (NEC) and the Occupational Safety and Health Act (OSHA).