

## WS EFFLUENT SERIES - 1/3 HP, 1/2 HP, 1 HP

### APPLICATIONS

Effluent wastewater removal, dewatering, water transfer

### FEATURES

- Split-phase, oil-filled motor
- Designed for high torque
- Piggyback mechanical float option available for automatic operation
- 2" NPT (51 mm) discharge
- Handles solids up to 3/4" (19 mm) diameter
- 120 °F (49 °C) liquid temperature rating
- cCSAus listed



### SERIES SPECIFICATIONS

| Item No. | Model          | HP  | Volts   | Phase | HZ | Amps |       | Watts | Gallons per minute (Liters per minute) @ Height |           |           |           |           |           |           |           |          |          | Shut-Off | PSI           |              |              |      |
|----------|----------------|-----|---------|-------|----|------|-------|-------|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|---------------|--------------|--------------|------|
|          |                |     |         |       |    | FLA  | Start |       | 10'   | 15'       | 20'       | 25'       | 30'       | 35'       | 40'       | 45'       | 50'      | 60'      |          |               | 80'          |              |      |
| 620010   | WS30M          | 1/3 | 115     | 1     | 60 | 10.4 | 50.4  | 1000  | 90 (341)  | 70 (265)  | 45 (170)  | 15 (57)   | -         | -         | -         | -         | -        | -        | -        | -             | 28' (8.53 m) | 12           |      |
| 620000   | WS30AM         | 1/3 | 115     | 1     | 60 | 10.4 | 50.4  | 1000  | 90 (341)  | 70 (265)  | 45 (170)  | 15 (57)   | -         | -         | -         | -         | -        | -        | -        | -             | -            | 28' (8.53 m) | 12   |
| 620231   | WS50M-20       | 1/2 | 115     | 1     | 60 | 11.6 | 26.9  | 950   | 90 (341)  | 80 (303)  | 64 (242)  | 50 (189)  | -         | -         | -         | -         | -        | -        | -        | -             | -            | 42' (12.8 m) | 18.2 |
| 620233   | WS50AM-20      | 1/2 | 115     | 1     | 60 | 11.6 | 26.9  | 950   | 90 (341)  | 80 (303)  | 64 (242)  | 50 (189)  | -         | -         | -         | -         | -        | -        | -        | -             | -            | 42' (12.8 m) | 18.2 |
| 620251   | WS50M-12-20    | 1/2 | 208-230 | 1     | 60 | 9.7  | 32.6  | 1100  | 90 (341)  | 80 (303)  | 64 (242)  | 50 (189)  | -         | -         | -         | -         | -        | -        | -        | -             | -            | 42' (12.8 m) | 18.2 |
| 620200   | WS50HM         | 1/2 | 115     | 1     | 60 | 15   | 26.9  | 1100  | 115 (435)                                       | 107 (405) | 98 (371)  | 88 (333)  | 78 (295)  | 67 (254)  | 57 (216)  | 43 (163)  | 30 (114) | -        | -        | -             | -            | 63' (19.2 m) | 27.3 |
| 620218   | WS50HM-20      | 1/2 | 115     | 1     | 60 | 15   | 26.9  | 1470  | 115 (435)                                       | 107 (405) | 98 (371)  | 88 (333)  | 78 (295)  | 67 (254)  | 57 (216)  | 43 (163)  | 30 (114) | -        | -        | -             | -            | 63' (19.2 m) | 27.3 |
| 620219   | WS50HAM-20     | 1/2 | 115     | 1     | 60 | 15   | 26.9  | 1470  | 115 (435)                                       | 107 (405) | 98 (371)  | 88 (333)  | 78 (295)  | 67 (254)  | 57 (216)  | 43 (163)  | 30 (114) | -        | -        | -             | -            | 63' (19.2 m) | 27.3 |
| 620220   | WS50HM-12-20   | 1/2 | 208-230 | 1     | 60 | 9.7  | 32.6  | 1540  | 115 (435)                                       | 107 (405) | 98 (371)  | 88 (333)  | 78 (295)  | 67 (254)  | 57 (216)  | 43 (163)  | 30 (114) | -        | -        | -             | -            | 63' (19.2 m) | 27.3 |
| 620222   | WS100HM-12-20  | 1   | 208-230 | 1     | 60 | 13.6 | 46.9  | 2660  | 150 (568)                                       | 145 (549) | 140 (530) | 134 (507) | 128 (485) | 121 (458) | 115 (435) | 106 (401) | 97 (367) | 76 (288) | 27 (102) | 90' (27.43 m) | 39           |              |      |
| 620223   | WS100HAM-12-20 | 1   | 208-230 | 1     | 60 | 13.6 | 46.9  | 2660  | 150 (568)                                       | 145 (549) | 140 (530) | 134 (507) | 128 (485) | 121 (458) | 115 (435) | 106 (401) | 97 (367) | 76 (288) | 27 (102) | 90' (27.43 m) | 39           |              |      |
| 620206   | WS100HM-34     | 1   | 460     | 3**   | 60 | 3.1  | 16.7  | 2000  | 150 (568)                                       | 145 (549) | 140 (530) | 134 (507) | 128 (485) | 121 (458) | 115 (435) | 106 (401) | 97 (367) | 76 (288) | 27 (102) | 90' (27.43 m) | 39           |              |      |

\*\* Three-phase pumps must have a three-phase control panel for automatic or manual operation

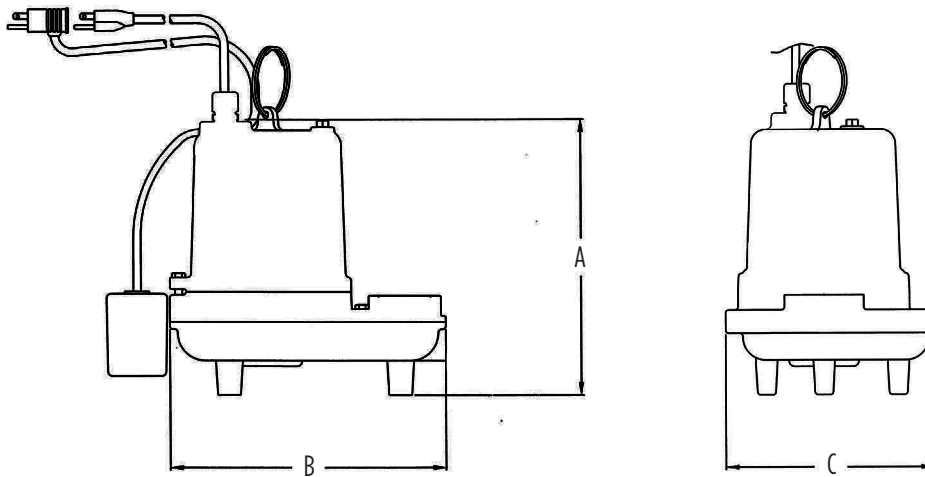
| Item No. | Model          | Volts   | Switch Type / Operation           | On Level | Off Level | Cord        | Weight lbs (Kg) |
|----------|----------------|---------|-----------------------------------|----------|-----------|-------------|-----------------|
| 620010   | WS30M          | 115     | Manual                            | -        | -         | 20' (6.1 m) | 51 (22.68 Kg)   |
| 620000   | WS30AM         | 115     | Piggyback Mechanical Float Switch | -        | -         | Adjustable  | 53 (24.04 Kg)   |
| 620231   | WS50M-20       | 115     | Manual                            | -        | -         | 20' (6.1 m) | 55 (24.95 Kg)   |
| 620233   | WS50AM-20      | 115     | Piggyback Mechanical Float Switch | -        | -         | Adjustable  | 57 (25.85 Kg)   |
| 620251   | WS50M-12-20    | 208-230 | Manual                            | -        | -         | 20' (6.1 m) | 56 (25.40 Kg)   |
| 620200   | WS50HM         | 115     | Manual                            | -        | -         | 30' (9.1 m) | 57 (25.85 Kg)   |
| 620218   | WS50HM-20      | 115     | Manual                            | -        | -         | 20' (6.1 m) | 56 (25.40 Kg)   |
| 620219   | WS50HAM-20     | 115     | Piggyback Mechanical Float Switch | -        | -         | Adjustable  | 58 (26.31 Kg)   |
| 620220   | WS50HM-12-20   | 208-230 | Manual                            | -        | -         | 20' (6.1 m) | 56 (25.40 Kg)   |
| 620222   | WS100HM-12-20  | 208-230 | Manual                            | -        | -         | 20' (6.1 m) | 57 (25.85 Kg)   |
| 620223   | WS100HAM-12-20 | 208-230 | Piggyback Mechanical Float Switch | -        | -         | Adjustable  | 59 (26.76 Kg)   |
| 620206   | WS100HM-34     | 460     | Manual                            | -        | -         | 30' (9.1 m) | 62 (28.12 Kg)   |



# EFFLUENT PUMPS

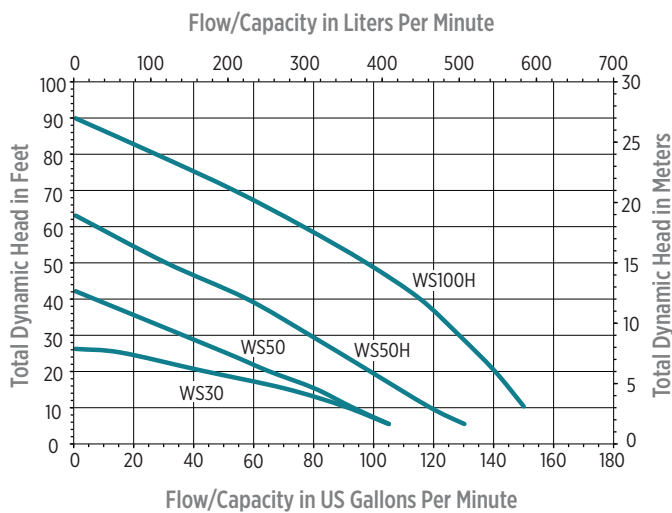
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### ENGINEERING DATA



| Model  | A                    | B                   | C                  |
|--------|----------------------|---------------------|--------------------|
| WS30   | 11.25"<br>(28.58 cm) | 12.25"<br>(31.1 cm) | 9.38"<br>(23.8 cm) |
| WS50   | 13.75"<br>(34.93 cm) | 12.25"<br>(31.1 cm) | 9.38"<br>(23.8 cm) |
| WS50H  | 13.75"<br>(34.93 cm) | 12.25"<br>(31.1 cm) | 9.38"<br>(23.8 cm) |
| WS100H | 13.75"<br>(34.93 cm) | 12.25"<br>(31.1 cm) | 9.38"<br>(23.8 cm) |

### PERFORMANCE DATA



### CONSTRUCTION

|                          |                               |
|--------------------------|-------------------------------|
| <b>Motor Housing</b>     | Cast iron                     |
| <b>Impeller Material</b> | Cast iron                     |
| <b>Impeller Type</b>     | Non-clog                      |
| <b>Volute</b>            | Cast iron                     |
| <b>Motor Shaft</b>       | Stainless steel               |
| <b>Shaft Seal</b>        | Carbon/ceramic                |
| <b>Fasteners</b>         | Stainless steel               |
| <b>Bearings</b>          | Upper and lower ball bearings |
| <b>Power Cord</b>        | SJOW                          |