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SECTION: Z1.10.400
 ZM1373
 0525
 Supersedes
 0225

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



6180 SERIES COMMERCIAL EFFLUENT PUMPS TECHNICAL DATA



	☐ 6186	☐ 6188	☐ 6189
PUMP NAME PLATE HORSEPOWER:	1.5 HP	1.5 HP	2 HP
SOLID SIZE: in (mm)	3/4" (19mm)	3/4" (19mm)	3/4" (19mm)
MINIMUM HEAD: ft. (m)	5.0' (1.5m)	5.0' (1.5m)	5.0' (1.5m)
MAXIMUM HEAD: ft. (m)	114' (34.7m)	91' (27.7m)	110' (33.5m)
MAX.FLOW GPM (L/min) @ MIN. HEAD ft. (m)	58 GPM @ 5' (229 L/min @ 1.5m)	145 GPM @ 5' (549 L/min @ 1.5m)	145 GPM @ 5' (549 L/min @ 1.5m)
DISCHARGE SIZE: VERTICAL FEMALE	☐ 1-1/2" NPT; Optional Flange, order: ☐ 2" NPT (10-1305) or ☐ 3" NPT (10-1306)		

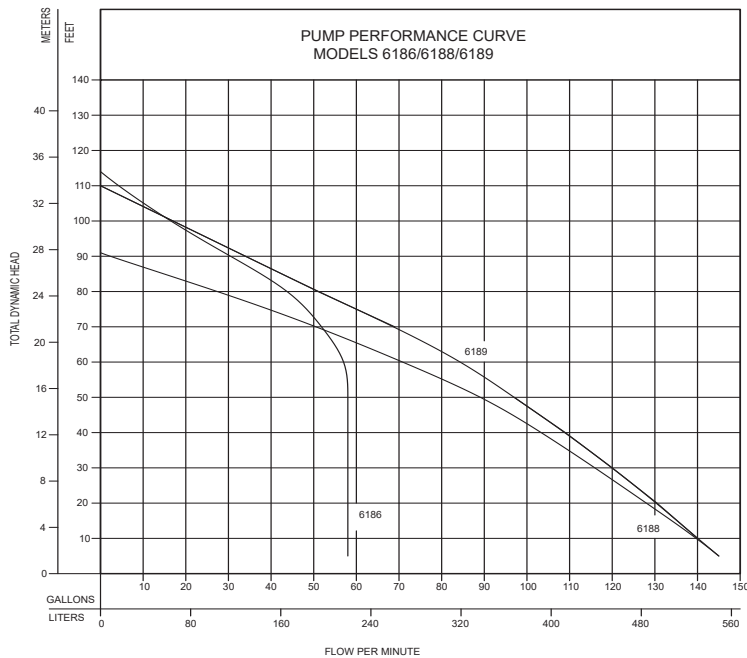
PUMP NET WEIGHT: lbs (kg)	89-94 lbs (40-43 kg)	MOTOR TYPE:	SUBMERSIBLE
SERVICE FACTOR:	1.0	TYPE SOW POWER CORD LENGTH: ft (m)	25' (7.62m) ☐ 50' (15.24m)
MOTOR DESIGN LETTER:	NEMA B	MOTOR SHAFT:	416 S.S.
IMPELLER TYPE:	CAST IRON VORTEX	STATOR AND LEAD WIRES INSULATION:	6185 CLASS B
			6186 - 6189 CLASS F
SQUARE RINGS:	VITON	MAXIMUM STATOR TEMPERATURE:	CLASS B 266 °F (130 °C)
RPM:	3450		CLASS F 311 °F (155 °C)

SHAFT SEAL CONSTRUCTION:	STANDARD	UPPER-CARBON/CERAMIC, LOWER-SILICON CARBIDE/ CARBON
	OPTIONAL ☐ UPPER ☐ LOWER	☐ SILICON CARBIDE / SILICON CARBIDE ☐ SILICON CARBIDE / SILICON CARBIDE
MOTOR THERMAL SHUTOFF:	STANDARD (Single Phase Only)	THERMAL OVERLOAD WITH AUTOMATIC RESET
MOISTURE DETECTION:	☐ OPTIONAL *	MOISTURE SENSING PROBES
MINIMUM RECOMMENDED FLUID LEVEL: in (m)		10" (0.25m)
MAXIMUM WATER TEMPERATURE:		130 °F (54 °C) 120 °F (49 °C) FOR WD6189

*Requires a circuit in control panel to function.

MODEL	HP	200V/1PH		☐ 230V/1PH		☐ 200V/3PH		☐ 230V/3PH		☐ 460V/3PH		☐ 575V/3PH	
		FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA	FLA	LRA
☐ 6186	1-1/2	17.2	48.3	13.7	38	10.3	42	9.2	35	4.6	18	3.6	18
☐ 6188	1-1/2	16.8	48.3	14.0	38	10.3	42	8.9	35	4.6	18	3.5	18
☐ 6189	2	20.5	48.3	17.1	38	13.2	42	11.2	35	6.0	18	5.8	18

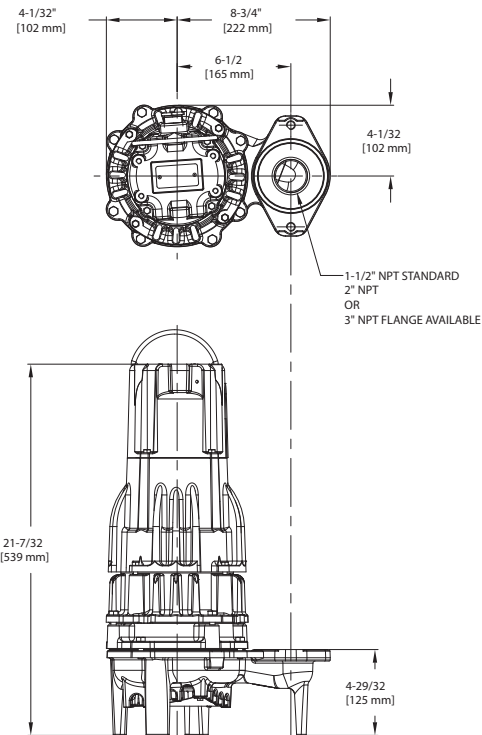
Refer to reverse side for Head/Capacity Performance Curves



TOTAL DYNAMIC HEAD/FLOW PER MINUTE EFFLUENT AND DEWATERING

MODELS		6186		6188		6189	
Feet	Meters	Gal.	Liters	Gal.	Liters	Gal.	Liters
5	1.5	58	220	145	549	145	549
10	3.0	58	220	140	530	140	530
20	6.1	58	220	128	484	130.5	494
30	9.1	58	220	116	439	120	454
40	12.2	58	220	103.5	392	109	413
50	15.2	58	220	90	341	97	367
60	18.3	58	220	71	269	85	322
70	21.3	52	197	51	193	69	261
80	24.4	45	170	28	106	51	193
90	27.4	30.5	115	2	8	34	129
100	30.5	16	60	--	--	17	64
110	32	4	15	--	--	--	--
120	36.6	--	--	--	--	--	--
130	39.6	--	--	--	--	--	--
Shut-off Head		114 ft. (35m)		91 ft. (28m)		110 ft. (34m)	

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SK1413

CAUTION Model 6185 should not be operated below 30' TDH

Standard all models - 25 ft. cord - 1.5 HP				
6186 MODELS	Control Selection			Listings
	Volts	PH	Amps	c CSA us
*E6186	230	1	13.7	Yes
I6186	200	1	17.2	Yes
J6186	200	3	10.3	Yes
F6186	230	3	9.2	Yes
G6186	460	3	4.6	Yes
BA6186	575	3	3.6	Yes

Standard all models - 25 ft. cord - 1.5 HP				
6188 MODELS	Control Selection			Listings
	Volts	PH	Amps	c CSA us
*E6188	230	1	14.0	Yes
I6188	200	1	16.8	Yes
J6188	200	3	10.3	Yes
F6188	230	3	8.9	Yes
G6188	460	3	4.6	Yes
BA6188	575	3	3.5	Yes

Standard all models - 25 ft. cord - 2 HP				
6189 MODELS	Control Selection			Listings
	Volts	PH	Amps	c CSA us
*E6189	230	1	17.1	No ⁽¹⁾
*VD6189	230	1	17.1	No
I6189	200	1	20.5	Yes
J6189	200	3	13.2	Yes
F6189	230	3	11.2	Yes
G6189	460	3	6.0	Yes
BA6189	575	3	5.8	Yes

(1) Factory shipped with 20 amp plug.

* Molded plug

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).

FEATURES

- Durable epoxy coated cast iron construction
- Motor 1.5-2 HP, 60 Hz, 3450 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 square ring seals
- Impeller - non-clogging cast iron vortex design passes 3/4" spherical solids
- 25 foot listed 3 wire neoprene cord and plug.
- No screens to clog
- Stainless steel screws, bolts and handle
- 1-1/2" NPT discharge with 2" or 3" flange available
- Corrosion resistant powder coated epoxy finish
- Moisture sensors available for early warning of seal failure. (Optional)
- 100% computerized tested.