

**Dwg:** DS-S08-023    **Rev:** A    **Date:** 1/19/07

**Section**    Scavenger    **Tab**    Ejector    **Page**    \_\_\_\_\_

### MOTOR SPECIFICATIONS

<b>Motor Design</b>	NEMA design B, squirrel cage induction, oil filled, non toxic oil
<b>Motor Type</b>	Enclosed submersible
<b>Insulation Class</b>	Class B, rated at 120° C
<b>Motor Protection</b>	<u>Single Phase:</u> Internal thermal protection with automatic reset. Installer must provide circuit breaker for short circuit protection per N.E.C standards. <u>Three Phase:</u> Installer must provide external motor overload protection device such as a contactor w/ thermal relay, and circuit breaker for short circuit protection per N.E.C. standards.
<b>Service Factor</b>	1.15
<b>Voltage Tolerance</b>	± 10% from name plate rating

### MOTOR DATA, 60Hz

Model	Phase	Output Power bhp	Volts	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	Pole/Speed (rpm)
EJ 20W-2	1*	2.0	230	19.0	59	G	4/1750
EJ 20D-2	3**	2.0	208-230	9.9-9	44-40	K	4/1750
	3**	2.0	460	4.5	20	K	4/1750
	3	2.0	575	3.6	16	K	4/1750

\* Start switch and capacitor integrated into top of pump.

\*\* These three phase motors are tri-voltage, 208/230/460.

### MATERIALS of CONSTRUCTION

<b>Upper Motor Lid</b>	Cast Iron ASTM A48 Class 30
<b>Motor Housing</b>	Cast Iron ASTM A48 Class 30
<b>Oil Chamber</b>	Cast Iron ASTM A48 Class 30
<b>Volute</b>	Cast Iron ASTM A48 Class 30
<b>Bottom Plate</b>	Cast Iron ASTM A48 Class 30
<b>Impeller</b>	Cast Iron ASTM A48 Class 30
<b>Lifting Bail</b>	AISI 304 Stainless Steel
<b>Oil (motor &amp; oil chamber)</b>	Non-toxic white mineral oil (Marcol 52)
<b>External Hardware</b>	AISI 304 Stainless Steel
<b>O-Rings</b>	Buna-N
<b>Motor Shaft</b>	AISI 420 Stainless Steel
<b>Upper Bearing</b>	Single row ball bearing
<b>Lower Bearing(s)</b>	Single row ball bearing
<b>Upper Shaft Seal (secondary)</b>	Rotating carbon face w/ stationary ceramic face.
<b>Lower Shaft Seal (primary)</b>	Rotating carbon face w/ stationary ceramic face. Includes V-ring lip seal for lower seal protection. Option: Silicon Carbide mechanical seal

### DIMENSIONS, WEIGHT, AND MISC.

<b>Pump weight, lb. (kg)</b>	90 (41) [EJ 20W-2], 84 (38) [EJ 20D-2]
<b>Maximum submergence, ft. (m)</b>	65 (20)
<b>Discharge size, standard</b>	2 inch horizontal
<b>Discharge type</b>	Flange with standard ANSI class 125 bolt pattern.
<b>Maximum temp. of pumped fluid</b>	40°C continuous, 50°C intermittent
<b>Agency Approvals</b>	UL 778 and CSA C22.2-108

### CABLE SPECIFICATIONS

POWER CABLE	VOLTAGE	DIAMETER	LENGTH	OUTER JACKET
12/3 SJEOOW (EJ 20W-2)	230	0.43in (10.9mm)	20 ft (6m)	Thermoplastic elastomer
14/4 SEOOW (EJ 20D-2)	208-230/460	0.57in (14.5mm)		
16/4 SEOOW (EJ 20D-2)	575	0.43in (10.9mm)		