

**Consistent
Performance,**

**Reliable
Operation,**

**Ease of
Maintenance...**

***Why settle
for anything less?***



Standard Series
Hot Water High Pressure
Cleaning System

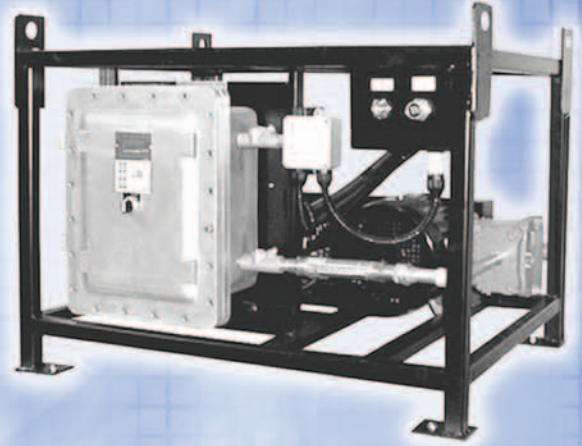


Offshore Series
Hot Water High Pressure
Cleaning System



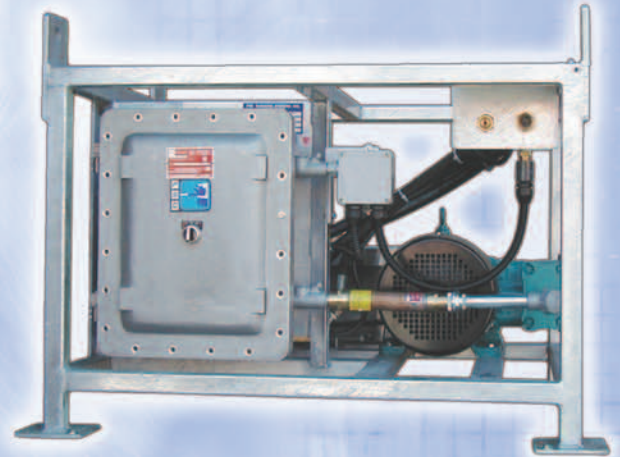
STANDARD SERIES FEATURES:

- General belt-driven, oil-bath plunger pump with pressure regulator (multi-gun capability) and powder coat painted pulley guard
- CSA approved / UL listed explosion-proof motor—1800 rpm, IP56 ingress protection, 1.15 service factor, class F insulation
- Fully automatic start / stop circuit with solid state time delay shut down—controlled by trigger gun activation
- Steel cage construction with mounting feet and lifting eyes—powder coat painted
- Automatic high temperature shut down (thermo probe) for pump protection
- 50 ft. high pressure hose assembly complete with lance, trigger gun and chemical injection
- CSA approved / UL listed control box, heating elements, flexible coupling, conduit and seals
- CSA inspected and certified for use in Class 1, Division 1, Group C & D hazardous location environments



OFFSHORE SERIES FEATURES:

- General belt-driven, oil-bath plunger pump with pressure regulator (multi-gun capability) and stainless steel pulley guard
- CSA approved / UL listed explosion-proof motor—1800 rpm, IP56 ingress protection, 1.15 service factor, class F insulation
- Fully automatic start / stop circuit with solid state time delay shutdown—controlled by trigger gun activation
- Steel cage construction with drip-proof pump base, mounting feet and lifting eyes—galvanized to ASTM123 and CSA G164—M1981 specifications
- Automatic high temperature shut down (thermo probe) for pump protection
- 50 ft. high pressure hose assembly complete with lance, trigger gun and chemical injection
- CSA approved / UL listed control box, flexible coupling, conduit and seals
- CSA inspected and certified for use in Class 1, Division 1, Group C & D hazardous location environments



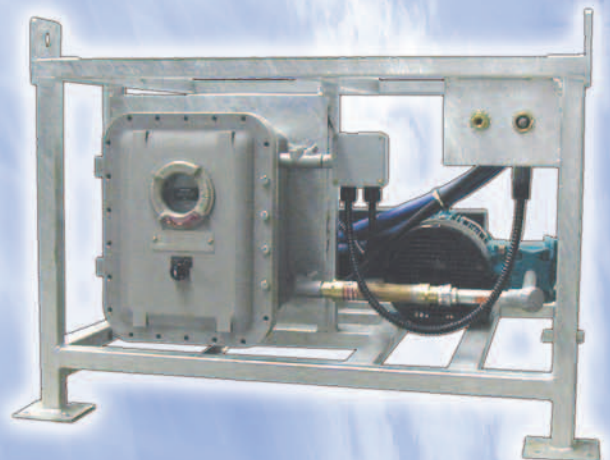
Standard Model	Flow gpm	Pressure psi	Motor hp	Full Load Current			Dimensions l x w x h – in.	Weight Lbs.
				208v-3 ph	460v-3 ph	575v-3 ph		
ES420EA3-EX1	4	1900	5	14.6	6.6	5.3	39 x 33 x 30	560
ES429EA3-EX1	4	2900	7.5	22.5	10.2	8.2	39 x 33 x 30	580
ES440EA3-EX1	4	4000	10	29	13.1	10.5	40 x 33 x 30	600
ES543EA3-EX1	5.4	3000	10	29	13.1	10.5	40 x 33 x 30	600

Offshore Model	Flow gpm	Pressure psi	Motor hp	Full Load Current			Dimensions l x w x h – in.	Weight Lbs.
				208v-3 ph	460v-3 ph	575v-3 ph		
EOS420EA3-EX1	4	1900	5	14.6	6.6	5.3	39 x 33 x 30	580
EOS429EA3-EX1	4	2900	7.5	22.5	10.2	8.2	39 x 33 x 30	600
EOS440EA3-EX1	4	4000	10	29	13.1	10.5	40 x 33 x 30	620
EOS543EA3-EX1	5.4	3000	10	29	13.1	10.5	40 x 33 x 30	620

Note: models available from 2 gpm to 40 gpm / 300 psi to 6000 psi — price on request

COMMON FACTORY ADDED OPTIONS:

- CAT plunger or piston pump
- SA nitrogen charged pulsation dampener
- SRA surge relief assembly (for flows of 6 gpm and greater)
- PG liquid-filled pressure gauge
- LWPP low inlet water pressure protection with reset
- ETM-EXA (D) integrated analog (digital) hour meter
- USC upstream (high pressure) chemical injection
- PCA-EX portability feature with phenolic casters and push/pull handle
- HRA 13 (16) high pressure hose reel assembly with 13 in. (16 in.) drum
- EGR-50 enclosed grounding reel with 50 ft. grounding wire and clamp



STANDARD SERIES FEATURES:

- General belt-driven, oil-bath plunger pump with pressure regulator (multi-gun capability) and powder coat painted pump cover with louvered end covers
- CSA approved / UL listed explosion-proof motor—1800 rpm, IP56 ingress protection, 1.15 service factor, class F insulation
- Non-direct immersion heat exchanger with #316 stainless steel heat exchange coil, Calrod elements with Incoloy sleeves, adjustable temperature controller and low water (heat exchanger fluid) level switch
- Fully automatic start / stop circuit with solid state time delay shutdown —controlled by trigger gun activation
- Steel cage construction with mounting feet and lifting eyes—powder coat painted
- Automatic high temperature shut down (thermo probe) for pump protection
- 50 ft. high pressure hose assembly complete with lance, trigger gun and chemical injection
- CSA approved / UL listed control box, heating elements, flexible coupling, conduit and seals
- CSA inspected and certified for use in Class 1, Division 1, Group C & D hazardous location environments



OFFSHORE SERIES FEATURES:

- General belt-driven, oil-bath plunger pump with pressure regulator (multi-gun capability) and stainless steel pump cover with mesh/louvered end covers
- CSA approved / UL listed explosion-proof motor—1800 rpm, IP56 ingress protection, 1.15 service factor, class F insulation
- Non-direct immersion heat exchanger with #316 stainless steel heat exchange coil, Calrod elements with Incoloy sleeves, adjustable temperature controller and low water (heat exchanger fluid) level switch
- Fully automatic start / stop circuit with solid state time delay shutdown —controlled by trigger gun activation
- Steel cage construction with drip-proof pump base, mounting feet and lifting eyes —galvanized to ASTM123 and CSA G164-M1981 specifications
- Automatic high temperature shut down (thermo probe) for pump protection
- Low inlet water pressure protection
- 50 ft. high pressure hose assembly complete with lance, trigger gun and chemical injection
- CSA approved / UL listed control box, heating elements, flexible coupling, conduit and seals
- CSA inspected and certified for use in Class 1, Division 1, Group C & D hazardous location environments



Standard Model	Flow gpm	Pressure psi	Motor hp	KW Input	Full Load Current		Dimensions	Weight
					460v-3 ph	575v-3 ph	l x w x h – in.	Lbs.
ES420K448A-EX1	4	1900	5	48	65	52	61 x 48 x 54	1130
ES420K472A-EX1	4	1900	5	72	94	75	61 x 56 x 54	1170
ES429K448A-EX1	4	2900	7.5	48	68	55	61 x 48 x 54	1170
ES429K472A-EX1	4	2900	7.5	72	97	78	61 x 56 x 54	1210
ES440K448A-EX1	4	4000	10	48	70	57	61 x 48 x 54	1210
ES440K427A-EX1	4	4000	10	72	99	80	61 x 56 x 54	1250
Offshore Model	Flow gpm	Pressure psi	Motor hp	KW Input	Full Load Current		Dimensions	Weight
					460v-3 ph	575v-3 ph	l x w x h – in.	Lbs.
EOS420K448A-EX1	4	1900	7.5	48	68	55	61 x 48 x 54	1200
EOS420K472A-EX1	4	1900	7.5	72	97	78	61 x 56 x 54	1240
EOS429K448A-EX1	4	2900	10	48	70	57	61 x 48 x 54	1240
EOS429K472A-EX1	4	2900	10	72	99	80	61 x 56 x 54	1280
EOS440K448A-EX1	4	4000	15	48	76	61	61 x 48 x 54	1280
EOS440K427A-EX1	4	4000	15	72	105	84	61 x 56 x 54	1320

Note: models available from 2 gpm to 10 gpm / 1000 psi to 5000 psi — price on request

FUNCTIONAL DESCRIPTION:

The EOS429K448AS-EX1 explosion-proof, hot water pressure washer is designed to provide pressurized hot water, under controlled conditions, for the task of cleaning or de-icing of material surfaces while operating in hazardous location environments with ambient temperatures ranging from -40°F to +120°F (-40°C to +50°C).

DESIGN:

- System output: 4 gal. / min. at 2900 p.s.i.g. (15.1 lit. / min. at 19995 kPa)
- Temperature output range: 85°F to 185°F (30°C to 85°C)
- Electrical data: 600 VAC primary / 3 phase / 60 hertz / 52 full load amps / 120 VAC control
- Heat exchanger input: 48 kW (163,800 btuh)
- High pressure pump motor: 10 hp (7.5 kW)
- Centrifugal pump motor: 1.5 hp (1.1 kW)
- Heat exchanger tank capacity: 70 gal. (265 lit.)
- Heat exchanger fluid: aqueous-based, non-bioactive ionic fluid with oil-based vapor barrier—no dilution
- Anti-freeze tank capacity: 5.5 gal. (20.8 lit.)
- Anti-freeze material: propylene glycol—no dilution
- System dimensions: 65 in.L x 56 in.W x 62 in.H (1651 mm x 1422 mm x 1575 mm)
- System weight: dry—2187 lbs. (992 kg.) / operating—2822 lbs. (1280 kg.)

CONSTRUCTION:

FRAME STRUCTURE: carbon steel (level II traceability / CSA G40.21-98 260WT) galvanized to ASTM-123 and CSA G164-M1981 standards.

LIFTING LUGS: carbon steel (Charpy tested / level II traceability / CSA G40.21-98 grade 260WT) galvanized to ASTM-123 and CSA G164-M1981 standards. Each lug and associated weld load tested and certified at not less than 1320 lbs (600 kg.)

ENCLOSURE (BODY / LATCHES/HARDWARE): #316 stainless steel (level II traceability) isolated from frame structure with weather-rated gaskets and/or gasket material. Complies with zero-tolerance water ingress requirements.

DOCUMENTATION:

- I / O / M (Installation / Operation / Maintenance) and Certification Manuals
- Dimensional Drawings—all aspects
- Bill of Materials
- Center of Gravity and Load Calculation Data and Report
- Material Traceability Certificate
- Sound Power / Pressure Level Test and Report
- Hydrostatic Test and Report
- Weld Strength Tests and Report—Magnetic Particle and Liquid Penetrant Type
- Enclosure Integrity Test and Report—Water Ingress
- System Inspection / Testing and Conformity-to-Order Reports

STANDARD EQUIPMENT:

- 200 ft. x ½" inner diameter high pressure wash hose mounted on 225 ft. capacity, powder coat painted high pressure hose reel with 5000 psi rated stainless steel swivel, 42" high pressure wand, trigger gun and nozzle selection
- JBEW explosion-proof control box with reset (manual/anti-freeze) /off/auto control switch, emergency shutdown pushbutton, motor/heater control, intrinsically-safe circuit and 1½" sweep elbow with certified explosion-proof seal
- Belt-driven, oil-bath triplex plunger pump with pressure regulator, thermo shield pump protection system, liquid-filled pressure gauge and #316 stainless steel belt guard—mounted on galvanized drip-proof base
- Direct-driven centrifugal feed pump with by-pass
- 10 h.p. explosion-proof high-pressure pump motor—IP55, 1800 rpm, 1.15 service factor
- 1.5 h.p. explosion-proof centrifugal pump motor—IP55, 3600 rpm, 1.15 service factor
- Weather-tight system enclosure with #316 stainless steel side and bottom panels, access doors and tapered roof with drain gutter, and Marine-grade hardware
- Manually activated winterizing system with control valve and anti-freeze reservoir



PSC Cleaning Systems, Inc.

800.246.9689

905.761.1733 • FAX: 905.738.6168

www.psclean.com • EMAIL: info@pscclean.com

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