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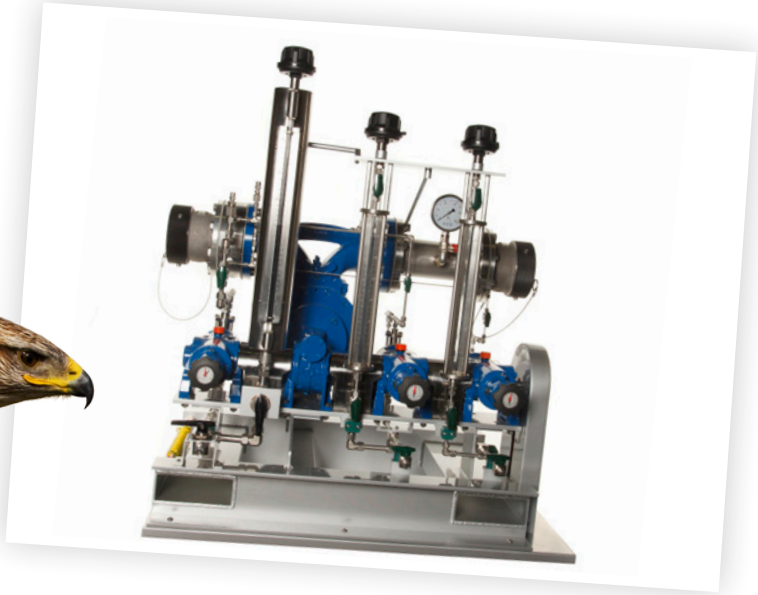
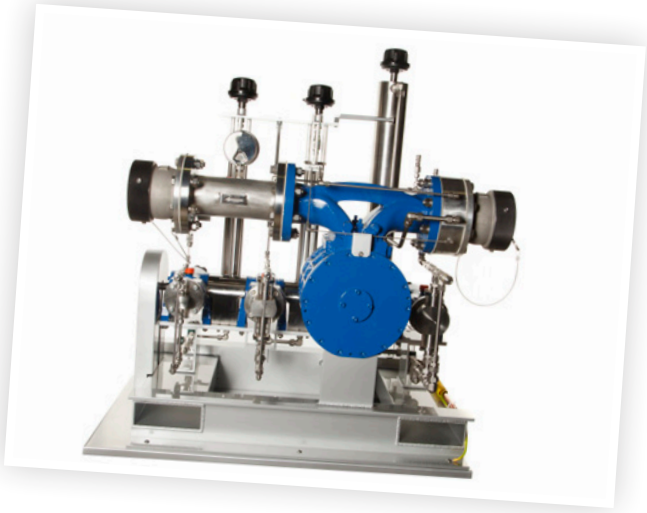


STAND ALONE, SELF POWERED, SELF CONTAINED, POSITIVE DISPLACEMENT

FUEL ADDITIVE INJECTION RIG



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STAND ALONE, SELF POWERED, SELF CONTAINED, POSITIVE DISPLACEMENT
FUEL ADDITIVE INJECTION RIG

The rig family has been designed to operate where no external power is available or there is a lack of adequate electrical / mechanical power.

The Positive Injection Pumps derive their power from a positive displacement vane type pump which operates from 10% - 100% of the design flow from the main product delivery pipeline.

The injection pumps employed are "Piston Type" which ensures total accuracy per stroke over a long period of time.

The delivery per product can be altered with the unit either running or static and the measuring jars are manufactured from stainless steel and the graduations are scribed into the stainless steel so that the values on the jugs will not be impaired with age or use.

The micrometer settings can be locked to ensure no illegal tampering of the settings takes place.

All wetted surfaces are of 316 Stainless Steel.

The Chassis can be manufactured from Aluminium / Mild Steel / Stainless Steel.

The inlet / outlet can either be flanged only ANSI 150 or with proprietary couplings.

The "Family" of systems are related to the main product flow as below:

2"	3"		
(800 lpm)	(1,333 lpm)		
"Sparrow Hawk"	"Red Kite"		
4"	6"	8"	
(2,500 lpm)	(4,166 lpm)	(5,500 lpm)	
"Hawk"	"Osprey"	"Sea Eagle"	

On all main flow units the "Motor" is a positive displacement type with appropriate piston injection pumps and pipework to suit the customers injection requirements, which ensures continuous accuracy.

The range of pumps can vary from 1-4 again dependent on customers requirements. More injectors can be added if required.

Different seals can be used and this is dependent on the injection liquid.

The rigs can be supplied in a skid layout with the stainless steel supply tanks adequately sized to meet intended main line flows.

Thank you for your kind enquiry.

Yours faithfully,

Ron Scott
Managing Director

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EPS 3 INCH FUEL BLENDER UNIT ADDITIVE INJECTION DATA

Pump head designation	Catalogue data			Adjusted litres/hr at 59 strokes/min	Adjusted kW at 13 bar	Max PPM Theoretical	Maximum range with 10:1 gearbox PPM - 10%-100%	Maximum range with 15:1 gearbox PPM - 10%-100%
	litres/hr 74 spm	Max bar	kW at max					
EPS-3.2-G/V1	0.72	200	0.37	0.55	0.04	6.9	0.6 - 6.	0.4 - 4
EPS-6-T2	2	200	0.55	1.5	0.04	18	1.5 - 15	1.0 - 10
EPS-8-T2	3.5	200	0.55	2.6	0.04	32	3.0 - 30	2.0 - 20
EPS-10-T2	5.5	200	0.55	4.1	0.04	51	5.0 - 50	3.0 - 30
EPS-12-T1	8.5	200	0.55	6.4	0.04	80	8.0 - 80	5.0 - 50
EPS-15-T1	14	200	0.55	10.8	0.04	131	12 - 125	8.0 - 80
EPS-25-T1	40	162	0.75	30	0.06	375	35 - 350	20 - 200
EPS-35-T1	80	83	1.1	60	0.17	750	70 - 700	45 - 450
EPS-50-T1	164	40	0.75	123	0.24	1537	150 - 1500	100 - 1000
EPS-60-T1	227	28	0.75	170	0.35	2125	200 - 2000	130 - 1300
EPS-70-T1	324	20	0.75	243	0.48	3037	300 - 3000	200 - 2000
EPS-85-T1	480	14	0.75	360	0.75	4500	450 - 4500	300 -3000

Information for EPS 3 inch drive unit running at max flow rate of 80 m^3/hr, 300 Imperial GPM

These figures are based on water & may vary depending on product.

Pump head designation EPS-(1)-(2)(3)

EPS Manufacturer (1) |Plunger Diameter (2) Seal Material T=PTFE V=Viton N=Nitrile G=Graphite (3) Number of Valves inlet(outlet) 1=single 2=double

EPS 4 INCH FUEL BLENDER UNIT ADDITIVE INJECTION DATA

Pump head designation	Catalogue data			Adjusted litres/hr at 78 strokes/min	Adjusted kW at 13 bar	Max PPM Theoretical	Maximum range with 7:1 gearbox PPM - 10%-100%	Maximum range with 10:1 gearbox PPM - 10%-100%
	litres/hr 74 spm	Max bar	kW at max					
EPS-3.2-G/V1	0.72	200	0.37	0.72	0.04	4.8	0.5 - 4.5	0.3 - 3.0
EPS-6-T2	2	200	0.55	2.1	0.04	14	1.2 - 12	0.8 - 8.0
EPS-8-T2	3.5	200	0.55	3.7	0.04	25	2.5 - 25	1.5 - 15
EPS-10-T2	5.5	200	0.55	5.7	0.04	38	3.5 - 35	2.4 - 24
EPS-12-T1	8.5	200	0.55	8.9	0.04	59	5.5 - 55	3.5 - 35
EPS-15-T1	14	200	0.55	14.7	0.04	98	9.5 - 95	6.5 - 65
EPS-25-T1	40	162	0.75	42	0.06	280	25 - 250	17.5 - 175
EPS-35-T1	80	83	1.1	84	0.17	559	55 - 550	38 - 380
EPS-50-T1	164	40	0.75	172	0.24	1145	110 - 1100	75 - 750
EPS-60-T1	227	28	0.75	238	0.35	1585	150 - 1500	100 - 1000
EPS-70-T1	324	20	0.75	340	0.48	2264	220 - 2200	150 - 1500
EPS-85-T1	480	14	0.75	504	0.75	3356	330 - 3300	230 - 2300

Information for EPS 4 inch drive unit running at max flow rate of 150 m^3/hr, 550 Imperial GPM

These figures are based on water & may vary depending on product.

Pump head designation EPS-(1)-(2)(3)

EPS Manufacturer (1) |Plunger Diameter (2) Seal Material T=PTFE V=Viton N=Nitrile G=Graphite (3) Number of Valves inlet(outlet) 1=single 2=double

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EPS 6 INCH FUEL BLENDER UNIT ADDITIVE INJECTION DATA

Pump head designation	Catalogue data			Adjusted litres/hr at 87 strokes/min	Adjusted kW at 13 bar	Max PPM Theoretical	Maximum range with 7:1 gearbox PPM - 10%-100%	Maximum range with 10:1 gearbox PPM - 10%-100%
	litres/hr 74 spm	Max bar	kW at max					
EPS-3.2-G/V1	0.72	200	0.37	0.84	0.04	3.8	0.3 - 3.0	0.2 - 2.0
EPS-6-T2	2	200	0.55	2.4	0.04	9.6	0.9 - 9.0	0.6 - 6.0
EPS-8-T2	3.5	200	0.55	4.3	0.04	17.2	1.5 - 15	1.0 - 10
EPS-10-T2	5.5	200	0.55	6.7	0.04	27	2.5 - 25	2.5 - 15
EPS-12-T1	8.5	200	0.55	9.9	0.04	39.6	3.5 - 35	2.4 - 24
EPS-15-T1	14	200	0.55	16	0.04	64	6.0 - 60	4.0 - 40
EPS-25-T1	40	162	0.75	46	0.06	184	18 - 180	12 - 120
EPS-35-T1	80	83	1.1	93	0.17	372	35 - 350	24 - 240
EPS-50-T1	164	40	0.75	191	0.24	760	75 - 750	50 - 500
EPS-60-T1	227	28	0.75	265	0.35	1050	100 - 1000	70 - 700
EPS-70-T1	324	20	0.75	379	0.48	1516	150 - 1500	100 - 1000
EPS-85-T1	480	14	0.75	561	0.75	2244	220 - 2200	150 - 1500

Information for EPS 6 inch drive unit running at max flow rate of 250 m³/hr, 900 Imperial GPM

These figures are based on water & may vary depending on product.

Pump head designation EPS-(1)-(2)(3)

EPS Manufacturer (1) |Plunger Diameter (2) Seal Material T=PTFE V=Viton N=Nitrile G=Graphite (3) Number of Valves inlet(outlet) 1=single 2=double

EPS 8 INCH FUEL BLENDER UNIT ADDITIVE INJECTION DATA

Pump head designation	Catalogue data			Adjusted litres/hr at 86 strokes/min	Adjusted kW at 13 bar	Max PPM Theoretical	Maximum range with 7:1 gearbox PPM - 10%-100%	Maximum range with 5:1 gearbox PPM - 10%-100%
	litres/hr 74 spm	Max bar	kW at max					
EPS-3.2-G/V1	0.72	200	0.37	0.79	0.04	2.4	0.25 - 2.0	0.5 - 3.3
EPS-6-T2	2	200	0.55	2.2	0.04	6.7	0.6 - 6.0	0.9 - 9.0
EPS-8-T2	3.5	200	0.55	3.85	0.04	11.6	1.0 - 10.0	1.5 - 15
EPS-10-T2	5.5	200	0.55	6.05	0.04	18	1.5 - 15.0	2.5 - 25
EPS-12-T1	8.5	200	0.55	9.3	0.04	28	2.5 - 25	3.5 - 35
EPS-15-T1	14	200	0.55	15.4	0.04	46	4.5 - 45	6.0 - 60
EPS-25-T1	40	162	0.75	44	0.06	133	13 - 130	18 - 180
EPS-35-T1	80	83	1.1	88	0.17	266	26 - 260	35 - 350
EPS-50-T1	164	40	0.75	180	0.24	545	50 - 500	75 - 750
EPS-60-T1	227	28	0.75	249	0.35	754	75 - 750	100 - 1000
EPS-70-T1	324	20	0.75	356	0.48	1078	100 - 1000	150 -1500
EPS-85-T1	480	14	0.75	528	0.75	1599	150 - 1500	220 - 2200

Information for EPS 8 inch drive unit running at max flow rate of 330 m³/hr, 1200 Imperial GPM

These figures are based on water & may vary depending on product.

Pump head designation EPS-(1)-(2)(3)

EPS Manufacturer (1) |Plunger Diameter (2) Seal Material T=PTFE V=Viton N=Nitrile G=Graphite (3) Number of Valves inlet(outlet) 1=single 2=double

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