



# ES 45      ES 22      E115

## THE VERY HIGH PRESSURE GENERATORS

<b>TECHNICAL DATA</b>		<b>E45</b>	<b>E22</b>	<b>E115</b>
<b>General information</b>	Nominal power (kW / Hp)	45/60	22/30	15/
	Unleaded weight (kg)	1100	1000	500
	Length (mm)	1500	1500	1000
	Width(mm)	900	900	700
	Height (mm)	1450	1450	1000
<b>Hydraulic System</b>	Tank capacity (l)	230	230	100
	Recommended oil	ISO 46	ISO 46	ISO 46
	Pump flow rate (l/mn)	120	60	40
	Working pressure (bar)	190	190	190
<b>Electrical supply</b>	Voltage (VAC)	400	400	400
	Current (A) Absorbed/ Protection	81/100	42/63	30/45
	Frequency (Hz)	50/60	50/60	50
<b>Water cutting</b>	Water cutting supply minimum flow-rate	10 l/mn at 1,8 bar	5 l/mn at 1,8 bar	2 l/mn at 1,8 bar
	Max. flow rate (l/mn)	4,8	2,6	1,2
	Max. working pressure (bar)	4138	4138	4138
	Low pressure inlet connection (mm)	Ø 19	Ø 19	Ø19
	VHP pressure outlet connection	3/8"	3/8"	3/8"
<b>AIR/OIL exchanger (optional)</b>	Motor power (kW)	2x(0,45) + 0,75	0,45	0,12
	Voltage (V)	400	400	400
	Amperage (A)	2x(0,84) +1,91	0,84	0,26
<b>Plungers</b>		Ceramic	Ceramic	Ceramic
	Frequency(Hz)	50/60	50/60	50/60
<b>WATER/OIL exchanger</b>	Water cooling supply minimum flow-rate	15 l/mn at 10°C	10 l/mn at 10° C	10 l/mn at 10°C
<b>Sound level with air cooling system</b>	1m distance from the pump (dBA-Leq)	75	75	75
	2 low pressure filters	5 µ and 1 µ	5 µ and 1 µ	5 µ and 1 µ
<b>Water filters</b>				
<b>Oil filters</b>	Intensifier input/output	10µ	10µ	10µ

<b>STANDARD DELIVERY WITH THE EQUIPMENT</b>	<b>1 maintenance kit including:</b>	<b>Documentation</b>
	<ul style="list-style-type: none"> <li>○ Specific tools</li> <li>○ Discharge « vanne » spare parts</li> <li>○ intensifier spare parts</li> <li>○ attenuator anti-extrusion seals and rings</li> </ul>	- Technical documentation (installation, utilisation, maintenance)
<b>Customer duties :</b>	Water and electrical supplies and wasted water outlet device. Hydraulic and lubrication oil supply.	

### RECOMMENDED WATER QUALITY STANDARDS

<b>PARAMETERS</b>	<b>Correct</b>	<b>Acceptable</b>	These standards describe the recommended water quality at the inlet filter unit of the water jet cutting equipment. If the water supply does not satisfy to these standards, a pre-treatment of the water will be necessary (for instance with a water softener).
Iron in mg/l	0,1	0,2	
Oxygen in mg/l	1	2	
pH	Between 6,5 and 8,5		
Sodium mg/l	10	50	
Dissolved solids in mg/l	100	200	
Total hardness CaCO <sub>3</sub> in mg/l	10	15	
Cloudiness rating NTU	5	5	