



MODEL GBX-741 AND GBX-722

BUTANE & PROPANE EXTRACTION PUMPS


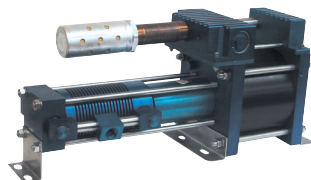
Low-Pressure, High Flow, Oil Free

These units are designed for subcritical and supercritical Botanical Oil extraction using Butane & Propane. It consists of a large area double acting drive piston directly connected, through a high pressure seal and bearings, to a double acting or 2-stage boost piston. The drive section includes a spool type directional control valve and poppet type pilot valves to allow automatically reciprocate when compressed air (or a suitable gas) is applied to the drive port. Drive exhaust is routed to a muffler which is positioned near the finned gas section to enhance cooling.

Model GBX-741 is a double acting configuration. The boost piston provides double acting flow due to the action of the dual inlet and outlet check valves built in.

Model GBX-722 is a 2-stage configuration. Output is only provided during the "pull" stroke (2nd stage). On the opposite stroke (1st stage), gas is compressed and transferred into the 2nd stage whose volume is somewhat smaller due to the connecting rod.

SPECIFICATIONS:

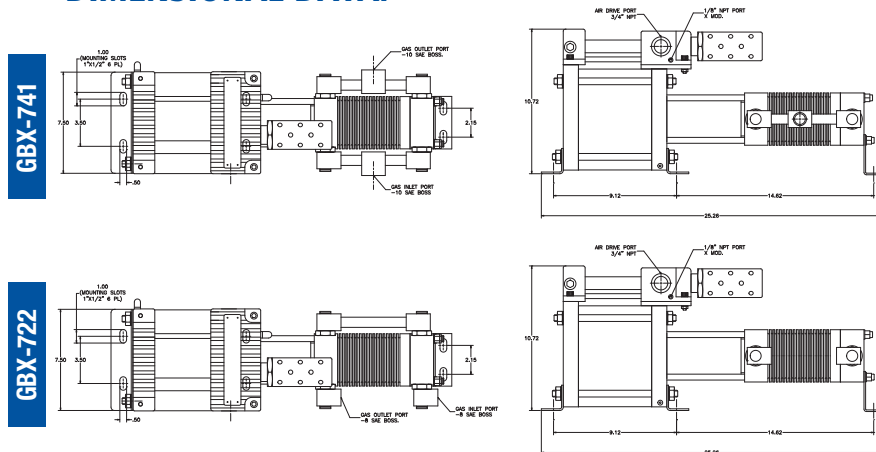
<div>Designed, Manufactured and Tested in the USA</div> <div></div>	<div></div>	
	<div>Description</div>	<div>GBX-741</div>
<div>Pump Configuration</div>	<div>Double Acting</div>	<div>2-Stage</div>
<div>Pump Displacement per cycle</div>	<div>41.4 cu-in</div>	<div>21.6 cu-in</div>
<div>Vacuum Draw</div>	<div>N/A</div>	<div>To 27" HG</div>
<div>Gas Inlet & Outlet ports</div>	<div>5/8" SAE</div>	<div>1/2" SAE</div>
<div>Max Outlet Pressure</div>	<div>Drive pressure x 7:1 area ratio + inlet pressure</div>	
<div>Min Drive Air Pressure</div>	<div>12-psi</div>	
<div>Max Drive Air Pressure</div>	<div>150-psi</div>	
<div>Max Boost Pressure Rating</div>	<div>1250-psi</div>	
<div>Drive Port Size</div>	<div>3/4" NPTF</div>	

PERFORMANCE:

Inlet Pressure- PSIG	Discharge Flow Rate – Lbs./min *	
	GBX-741	GBX-722
80	1.48	0.85
70	1.29	0.76
60	1.12	0.67
50	0.94	0.58
40	0.77	0.49
30	0.62	0.40
20	0.46	0.31
10	0.33	0.22
0	0.00	0.14

Note: Data based on 100-psi drive operating at 70 cycles/min

DIMENSIONAL DATA:



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