



MODEL GBX-424 AND GBX-412

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-424 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-412 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:

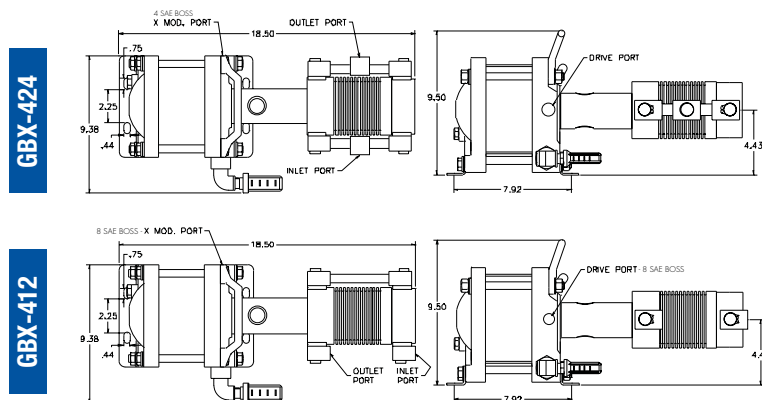
Designed, Manufactured and Tested in the USA 		
Description	GBX-424	GBX-412
Pump Configuration	Double Acting	2-Stage
Pump Displacement per cycle	24.1 cu-in	12.0 cu-in
Vacuum Draw	N/A	To 27" HG
Max Outlet Pressure	Drive pressure x 4:1 area ratio + inlet pressure	
Min Drive Air Pressure	12-psi	
Max Drive Air Pressure	150-psi	
Max Boost Pressure Rating	1250-psi	
Drive Port Size	1/2" SAE	
Gas Inlet & Outlet ports	1/2" SAE	

PERFORMANCE:

Inlet Pressure- PSIG	Discharge Flow Rate – Lbs./min *	
	GBX-424	GBX-412
80	0.86	0.47
70	0.75	0.42
60	0.65	0.37
50	0.55	0.32
40	0.45	0.27
30	0.36	0.22
20	0.27	0.17
10	0.19	0.12
0		0.08

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

DIMENSIONAL DATA:



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