

TECHNICAL DATA

Fluke 730 Series

Pneumatic/Hydraulic Test Pumps, Filters and Adapters



Pneumatic/Hydraulic Test Pumps

The New Fluke 730 series portable pumps feature fast pressure generation and stable pressure, and are easy-to-use. These pumps can provide stable and reliable pressure during calibration. The unique design of these pumps enables them to solve the common problems associated with pressure pumps, such as blocking, leakage, and laborious operation. They are your right-hand assistant in the process of manual pressure calibration. In conjunction with the Fluke 730G Smart Digital Pressure Calibrator with internal HART communication, these test pumps enable high-efficiency and high-accuracy measurement and calibration of pressure gauges, pressure switches, and pressure transmitters. This makes them ideal for metrology institutes and enterprises seeking to establish pressure laboratories.

Features

- Two-year warranty - use with confidence.
- Special surface treatment with scratch and corrosion resistance.
- Fast and steady pressure rise. Multi-stage boosting is used, which is 5 times the conventional increase speed.
- Precision shut-off valves ensure the effect of voltage stabilisation.
- M20×1.5 female thread quick connection fitting. Quick disassembly without pressure relief. No wrench and Teflon tape required.
- Unique pressure rod structure can save time and labour in the pressure making process.
- High precision pressure trimming.



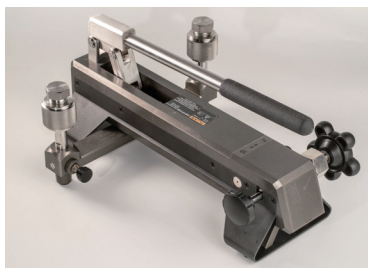
Fluke 730LTP/40K

- Pressure range -40kPa to 40kPa
- Ultra-precision fine adjustment. The minimum controllable adjustment granularity is high
- Special insulation which minimises the influence of external temperature



Fluke 730LTP/600K

- Pressure range -95kPa to 600kPa
- Pressure is generated by the combination of the pressure rod and screw for faster and smoother pressure increase and decrease
- Safety switch between pressure and vacuum



Fluke 730PTP/10M

- Pressure range -0.095MPa to 10MPa
- Multi-stage boosting is used, which is 5 times the conventional efficiency
- Safety lock ensures safe switching between positive and negative pressure



Fluke 730HTP/70M

- Pressure range 0MPa to 70MPa
- The pressure generation by the pressure rod can calibrate pressure meters with a large cavity
- Fine adjustment via the screw has a high minimum controllable adjustment granularity

Specifications

Key Features	FLK-730LTP/40K	FLK-730LTP/600K	FLK-730PTP/10M	FLK-730HTP/70M
Pressure range	-40 kPa to 40 kPa	-95 kPa to 600 kPa	-0.095 MPa to 10 MPa	0 MPa to 70 MPa
Fitting	M20 X 1.5	M20 X 1.5	M20 X 1.5	M20 X 1.5
Weight	2.3 kg	2.9 kg	5.5 kg	5.1 kg
Dimensions (L x W x H)	230 x 140 x 130 mm	298 x 173 x 150 mm	360 x 250 x 145 mm	384 x 198 x 175 mm
Reservoir volume	2.3 cm ³	2.7 cm ³	3.5 cm ³	3.1 cm ³
Fine adjustment volume	0.7 cm ³	2.1 cm ³	2.1 cm ³	2.1 cm ³
Pre-pressure volume	42 cm ³	14 cm ³	49.5 cm ³	3.8 cm ³
Medium	Air	Air	Air	Deionised water or mineral oil

Adapters and Accessories

Adapters

38 adapters to meet the requirements of various equipment connection					
M20 x 1.5 M to	1/2" NPT-M	1/2" ZG-M	1/2" G-M	M10 x 1 F	M10 x 1 M
	3/8" NPT-M	3/8" ZG-M	3/8" G-M	M12 x 1.5 F	M12 x 1.5 M
	1/4" NPT-M	1/4" ZG-M	1/4" G-M	M14 x 1.5 F	M14 x 1.5 M
	1/8" NPT-M	1/8" ZG-M	1/8" G-M	M16 x 1.5 F	M16 x 1.5 M
	1/8" NPT-F	1/8" ZG-F	1/8" G-F	M20 x 1.5 F	M20 x 1.5 M
	1/4" NPT-F	1/4" ZG-F	1/4" G-F	M20 x 1.5 F, 90°	Φ6 Hose Barb
	3/8" NPT-F	3/8" ZG-F	3/8" G-F		Φ8 Hose Barb
	1/2" NPT-F	1/2" ZG-F	1/2" G-F		Φ10 Hose Barb

Filters

Liquid filters are mainly used in hydraulic (non-corrosive) calibration work to filter a small amount of impurities in the device under test. Liquid-to-gas media separator filters are mainly used in hydraulic (non-corrosive) calibration work to separate and filter a small amount of impurities in the device under test.



FLK-730 ILF



FLK-730GLSF

Model	FLK-730 ILF liquid filter	FLK-730GLSF liquid-to-gas separator
Pressure range	(0 to 70) MPa	(-0.1 to 25) Mpa
Body material	Stainless steel 304	
Filtering fineness	0.05 mm	
External Dimensions	100 × φ42	120 × φ50
Weight	0.5 kg	0.6 kg
Fitting size	Source: M20×1.5 Male thread; Device: M20×1.5 Female thread	

Verification management SW

Connect the 730G to a PC via a USB cable by using the optional PCSW verification management software.

Key features:

Paperless management of calibration process

- Automatically identify the stability and record the calibration data
- Automatic calculation of Out of Tolerance
- Verification report generated automatically

Intelligent calibration

- Output current calibration
- Zeroing
- Address, range, and meter information

Asset management of equipment under test and standard instruments



Order information

Accessories/options	Description	Qty
Seal	Matching with the M20× 1.5 quick-connector end-face seal	20
M20 quick-connection plug	Plug M20 connector to prevent contamination	2
* Adapter	38 adapters	38
* Liquid-to-gas separator	Pressure range (-0.1 to 25) Mpa	1
* Liquid separator	Pressure range (0 to 70) Mpa	1
* Options, to be purchased separately		

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