730 Drive with 720RE

pumphead

700 series cased pump

Features and benefits

- Colour display and intuitive menu structures provide visual status indication and minimal key presses
- Flow rates from 0.12 L/h (0.03 USGPH) to 2000 L/h (528 USGPH)
- 3,600:1 speed control range from 0.1 to 360 rpm in 0.1 rpm increments
- Keypad incorporates 3-level security PIN lock
- IP66 (NEMA 4X) cased pumps
- Dual voltage 115/230 V 50/60 Hz
- Remote Analogue/Digital, RS485, PROFIBUS®, PROFINET®, SCADA and EtherNet/IP[™] control options



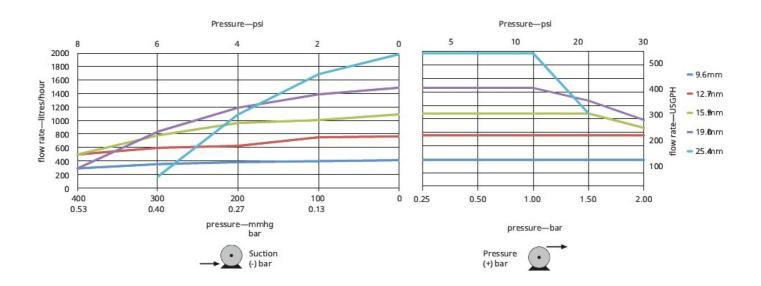


730 Drive with 720RE pumphead performance



720RE four-roller pumpheads for LoadSure elements — Tube bore and flow rates — L/h (USGPH)										
720RE single	0.25 bar (3.6 psi)		0.5 bar (8 psi)		1 bar (15 psi)		1.5 bar (22 psi)		2 bar (30 psi)	
pumphead	Max speed (rpm)*	Max flow	Max speed (rpm)*	Max flow	Max speed (rpm)*	Max flow		Max flow	Max speed (rpm)*	Max flow
9.6 mm (0.4")	360	420 (111)	360	420 (111)	360	420 (111)	360	420 (111)	360	420 (111)
12.7 mm (0.5")	360	780 (206)	360	780 (206)	360	780 (206)	360	780 (206)	360	780 (206)
15.9 mm (0.6")	360	1100 (291)	360	1100 (291)	360	1100 (291)	360	1100 (291)	300	900 (238)
19.0 mm (0.7")	360	1500 (396)	360	1500 (396)	360	1500 (396)	300	1300 (343)	250	1000 (264)
25.4 mm (1.0")	360	2000 (528)	360	2000 (528)	360	2000 (528)	200	1100 (291)		

*The maximum speed is reduced at increased discharge pressures to ensure safe running of the pump





Technical specifications

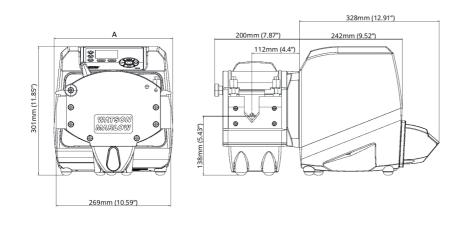
	730 Drive with 720RE pumphead
Pumphead number of rollers	4
Pumphead number of channels	1
Max. flow rate	2000 L/h
Min. flow rate	0.12 L/h
Max. flow rate	528 USGPH
Min. flow rate	0.03 USGPH
Drive speed control ratio	3600:1
Drive speed	0.1 - 360 rpm
Operating temperature range	5 °C to 40 °C
Operating temperature range	40 °F to 104 °F
Weight	25 kg
Weight	55.1 lbs
Drive weight	18.5 kg
Drive weight	40.8 lbs
Control types	EtherNet/IP™, Profibus®, Profinet®, Remote Analogue/Digital, RS485, SCADA
Drive control options	BpN, DuN, DuS, EnN, PnN, SN, UN, US
Drive standards	CE, cETLus, C-Tick, IRAM, NSF/ANSI 61 (for Marprene tubing and loadsure elements)
Drive ingress protection	IP66, NEMA 4X
Drive humidity	(Non-condensing) 80 % up to 31 °C (88 °F) decreasing linearly to 50 % at 40 °C (104 °F)
Drive noise	85dB(A) at 1m
Max. altitude	2000 m
Drive power supply	100 V to 120 V/200 V to 240 V 1ph 50/60 Hz 350 VA
Compatible tubing bore size	9.6, 12.7, 15.9, 19, 25.4 mm
Compatible tubing wall thickness	4.8 mm

Materials of construction

	730 Drive with 720RE pumphead
Driveshaft	Stainless steel 440C
Drive casework	Pressure die-cast aluminium LM24, Pressure die-cast aluminium LM6
Drive casework coating	Alocrom pre-treatment, Exterior grade polyester powder coat
Guide roller assembly	MoS2 filled Nylon 6 (Nylatron)
Drive keypad/HMI	Polyester
Pumphead front/back plates	Aluminium
Drive rear blanking plate	Stainless steel 316
Pumphead body assembly	Aluminium
Pumphead roller assembly	MoS2 filled Nylon 6 (Nylatron)
Pumphead rotor assembly	Aluminium, Stainless steel
Pumphead track	Aluminium
Spindles	Stainless steel
Springs	Stainless steel
Switch-plate	ABS PA-765

Information listed covers the complete range. For detailed specifications of individual models/components refer to user manual or contact WMFTS representative.

730 Drive with 720RE pumphead dimensions



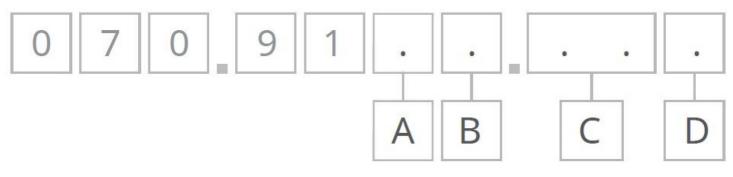
	Dimension A
720RE	314 mm (12.4 ")

Control options

Key to pump dr	rive models														
730SN	730UN	730DuN	730Bp	730US				7	30DuS		730En	N	730PnN		
Standard IP66 /	Universal IP66 /	Digital Universal IP66 /	Bus Pump / Pro	Unive	Universal SCADA / IP66 /						EtherNet/IP / IP66 /		PROFINET	® / IP66	
NEMA 4X	NEMA 4X	NEMA 4X	/ NEMA 4X	NEMA 4X			I	P66 / NEMA	NEM	NEMA 4X		/NEMA 4X			
Manual control	l														
Pump drives 730SN				730UN	N 730DuN)DuN	730BpN		730US	730	DuS	730Er	N	730PnN
Intuitive keypad ar	nd colour display		✓	✓	✓		√		√	✓	· ·	/			
Choice of flowrate	or speed display		~	✓			√	~		√		/	✓ ✓		√
Full calibration with	n choice of flow unit	5	~	✓			√	✓ ✓		√		/	✓		√
MemoDose functio	n		~	✓			√			√		/			
Auto restart facility	1		~	✓			√	✓		√		/	✓		√
Guard switch deteo	tion		✓	✓			√	~		✓		/	✓		√
Leak detection				✓			√	✓		√		√			√
Dipensing (Networ	k Control)														
Remote contro	l														
Pump drives							7	730SN	1 730UN	730DuN	730BpN	730US	730Du	5 730En	730PnN
	stop, leak detector	and pressure switch input	(via contact clos	sure or 5 V	TTL to	24 V)			✓	√	· ·			✓	v
-		and pressure switch input				,				İ	1	~	~	1	
-		gle input (via contact clos		-					~	~	1		İ	1	1
		gle input (via 110 V indus								İ		√	~	1	
		hand-switch or logic inpu	-						~	~		~	~	1	
· · · · · · · · · · · · · · · · · · ·		s through 24 V, 30 W relay							~	√			İ	1	
		s through 110 V relays								İ		~	~	1	
Remote pressure/f		- *								İ			İ	~	√
Analogue speed	d control									,		,	,	1	1
Pump drives					730	30SN 730U		73	30DuN	730BpN	730US	7300	730DuS 730En		730PnN
	inputs; 0-10 V or 4-2	0 mA			730	<u>→</u>			√ V			√			, 3 01 III.
Analogue outputs;									√ √			_	▼		
		ement of diaphragm pum	ns)				+ + +		· ✓	<u> </u>					
Tacho frequency of			P3)				~		· ✓						
	20 mA or 0-1000Hz*						•							v	✓
Security														- 1	
Pump drives		730SN	730UN	7300	NIN		730BpN 730U			US 730DuS		7	30EnN	7	30PnN
3-level security PIN	Llock	√	<u>√</u>	/302			√ √	√		,5	√		V		√
		•	•	, v	_	V					•	•			
Network comm	iunication	720531	7201101	7200			7200.0		7201	<u> </u>		-	205		20.0
Pump drives		730SN	730UN	730Di	IN	_	730Bpl	N 730US 73			730DuS			1N 730PnN	
RS485 network con				~							√				
	ommands (Profil	ous / EtherNet/IP)													
Pump drives				730	SN	730	DUN 7	730D	uN 73	0BpN	730US	730Du	S 73	0EnN	730PnN
PROFIBUS® DP V0										✓					
PROFINET® (CC-B & Netload Class III)															√
EtherNet/IP™														✓	
Communication speeds from 9.6 kbits/s up to 12000 kbits/s										✓ ✓				_	
Network speed: 10/100 Mbps - Full Duplex Operation														✓	
Network speed: 100 Mbps - Full Duplex Operation															√
Auto-detect bus speed										✓ ✓				_	
Speed set point										✓ ✓				✓ ✓	∕
Speed feedback						<u> </u>				✓ ✓				✓ ✓	<u>√</u>
Flow calibration fu	nction									✓ ✓				✓ ✓	
Hours run										✓ ✓				✓ ✓	
Revolution counter										✓ ✓				✓ ✓	
Leak detection										✓ ✓				✓ ✓	
Low fluid level alarm										✓ ✓				✓ ✓	
Diagnostic feedbac	.К									✓ ✓				✓ /	✓ ✓
Flow Totaliser													_	✓ /	
Sensor scaling	wk Cantral													✓ ✓	√
Dispensing (Netwo	irk Control)														

*Range of 3rd party pressure/flow sensors supported—see compatible sensor list on www.wmftg.com/literature

Product codes



Product codes

A	В	c	D					
Model	Ingress Protection	Pumphead	Plug options					
3: S	N: IP66/ NEMA 4X	00: 720R	U: UK mains plug					
4: U	S: SCADA IP66/ NEMA 4X ^{1,2}	E0: 720RE	E: EU mains plug					
5: Du		X0: 720R/RX	A: American mains plug					
6: Вр		EX: 720RE/RX	K: Australia mains plug					
8: En			R: Argentina mains plug					
9: Pn			C: Swiss mains plug					
			D: India/ South Africa mains plug					
			B: Brazilian mains plug					
Notes: 1. U and Du models only 2. Only available with American mains plug								

Disclaimer: All flow rates shown were obtained pumping water at 20 °C (68 °F) with zero suction and delivery heads. The information contained in this document is believed to be correct but Watson-Marlow Limited accepts no liability for any errors it contains and reserves the right to alter specifications without notice. It is the user's responsibility to ensure product suitability for use within their application. Watson-Marlow, LoadSure, Pumpsil, PureWeld XL, Bioprene, Marprene are registered trademarks of Watson-Marlow Limited. Tri-Clamp is a registered trademark of Alfa Laval Corporate AB. GORE and STA-PURE are registered trademarks of W.L. Gore and Associates. Please state the product code when ordering pumps and tubing.

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27 November 2023