730 Drive with 720R Pumphead



700 series cased pump

Features and benefits

- Color display and intuitive menu structures provide visual status indication and minimal key presses
- Flow rates from 0.12 L/h (0.03 USGPH) to 3,300 L/h (872 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

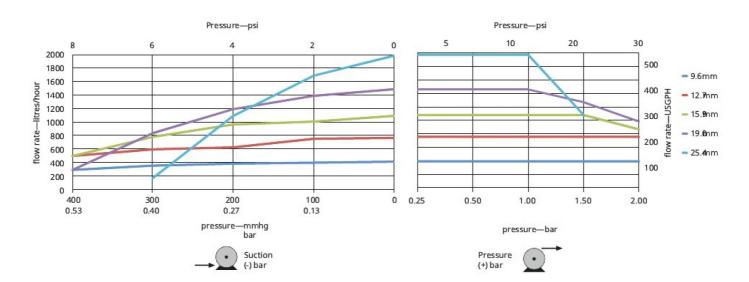




730 Drive with 720R Pumphead performance

720R four-roller pumpheads for continuous 4.8 mm wall thickness tubing — Tube bore and flow rates — L/h (USGPH)										
720R 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)	
pumpheads	Max speed	Мах	Max speed	Мах	Max speed	Мах	Max speed	Max	Max speed	Max
pumpneaus	(rpm)*	flow	(rpm)*	flow	(rpm)*	flow	(rpm)*	flow	(rpm)*	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





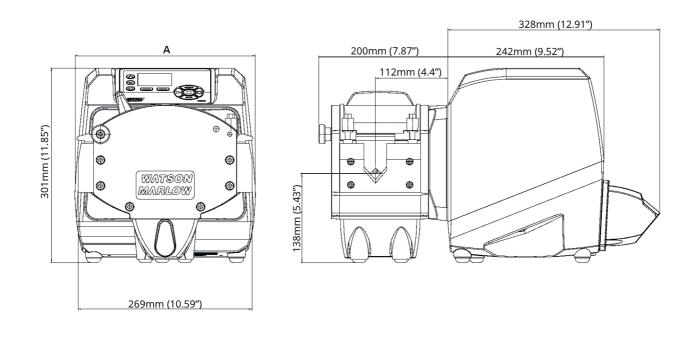
Technical specifications

	730 Drive with 720R 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 to 40 °C
Operating temperature range	40 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 40C (104F)
Drive noise	85dB(A) at 1m
Max. altitude	2000 m
Drive power supply	100 to 120 V/200 to 240 V 1ph 50/60 Hz 350 VA, 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 720R Pumphead
Driveshaft	Stainless steel 440C
Drive casework	Pressure die-cast aluminum LM24, Pressure die-cast aluminum 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	Aluminum
Drive rear blanking plate	Stainless steel 316
Pumphead body assembly	Aluminum
Pumphead roller assembly	MoS2 filled Nylon 6 (Nylatron)
Pumphead rotor assembly	Aluminum, Stainless steel
Pumphead track	Aluminum
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.



Dimen	ension A
720R 279 mm	nm (11")

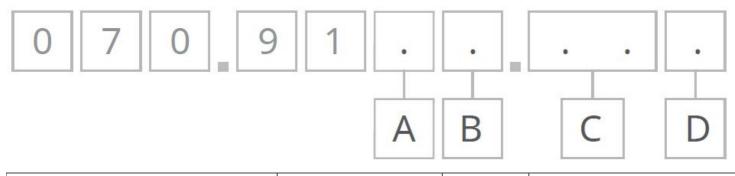
Control options

Key to pump drive

models																	
730SN	730UN	730DuN		730BpN		7	730US		7	730DuS		730Er		EnN		730PnN	
Standard IP66 / NEMA	Universal IP66 /	Digital Unive	rsal IP66 ,	/ Bus Pump	; U	Universal SCADA /		/ IP66 [Digital Universal SCA		DA / Eth	EtherNet/IP / IP66				/ IP66	
4X	NEMA 4X	NEMA 4X		IP66 / NEMA 4X / NEMA 4X				I	IP66 / NEMA 4X			MA 4X	/NEMA	/NEMA 4X			
Manual control																	
Pump drives				730SN	730UN	J	730D	uN	730Bp	οN	730US	730Du	IS	730EnN	J 7	730P	nN
Intuitive keypad and co	lour display			√	√		√		√		√	✓		√		/	
Choice of flowrate or speed display 🗸 🗸					√		√				√	v		√ √		v	
Full calibration with choice of flow units					-		✓				✓	√		v v		v	
				√	√		√				✓	✓ ✓					
				v	✓		√		√		<i>J</i>			V		v	
Guard switch detection				v	V		✓ ✓				✓	v		✓ ✓		v	
Leak detection				✓		~		✓		✓	✓		v	`	<u> </u>		
Dipensing (Network Co	ntrol)			<u> </u>													
Remote control																	
Pump drives									730SN	730UN		730BpN	730US	730Du	_		730PnN
Configurable start/stop		-	-				:o 24 V))		~	~	_			✓		√
Configurable start/stop		-	-			ic)							✓	√	_		
Direction change and a					to 24 V)				~	~				_			
Direction change and a				-									√	√	_		
Remote operation of M										√	✓ ✓		√	✓	_		
Four configurable digita		-								√	√		7		_		
Four configurable digita Remote pressure/flows		rougn 110 v re	slays										V	✓ 			J
• •															v		v
Analogue speed co	ntroi					720		7201101	7005		700D N	720110	7200				0.D., N
Pump drives						730	ISN	730UN	7300	JUN	730BpN	730US	730Di	IS 7.	30EnN	/3	0PnN
Fully configurable input		iA				_		✓	✓			✓ ✓	-	v			
Analogue outputs; 0-10 Keypad/analogue input		ont of diaphra		<u>c)</u>		_	✓ ✓		✓ ✓			√	✓ ✓			+	
Tacho frequency output			Jui bruib	5)		_		1	 ✓			_	~				
2x sensor inputs 4-20 m								•	-							1	
Security								1		l							
Pump drives		730SN	73	OUN	730Du	N	7	30BpN		730US	72)DuS	7308	nN	720	0PnN	1
3-level security PIN lock	,	√	/ √		√ √					√	/ J	<i></i>	J		/ J	<i>)</i> F H N	•
Network communi		v	<u> `</u>		V		•			•	v		v		•		
	cation		720651	72011	NI			720	Deski			730DuS	70			20.0.4	NI
Pump drives					N											30Pn	IN
RS485 network control			730SN	730U		730Du		/30	BpN	730	103		75	0EnN	7.		
Didital bumb comp				/300		730Du √		/30	ври	730	103	√ √		OENN			
<u> </u>	nands (Profibus	; / EtherNet		7300		v						v					
Pump drives	nands (Profibus	s / EtherNet		/300					730DuN	I 73	0BpN		730Du		0EnN	73	0PnN
Pump drives PROFIBUS® DP V0		s / EtherNet				v						v					0PnN
Pump drives PROFIBUS® DP V0 PROFINET® (CC-B & Ne		s / EtherNet				v				I 73		v		5 73		730 √	0PnN
Pump drives PROFIBUS® DP V0 PROFINET® (CC-B & Ne EtherNet/IP™	etload Class III)		/IP)			v				I 73		v					0PnN
Pump drives PROFIBUS® DP V0 PROFINET® (CC-B & Ne EtherNet/IP™ Communication speeds	etload Class III) s from 9.6 kbits/s u	p to 12000 kbit	/IP)			v				I 73		v		5 73 ↓ ↓			0PnN
Pump drives PROFIBUS® DP V0 PROFINET® (CC-B & Ne EtherNet/IP™ Communication speeds Network speed: 10/100	etload Class III) s from 9.6 kbits/s uj Mbps - Full Duplex	p to 12000 kbit Operation	/IP)			v				I 73		v		5 73		✓ ✓	0PnN
Pump drives PROFIBUS® DP V0 PROFINET® (CC-B & Ne EtherNet/IP™ Communication speeds Network speed: 10/100 Network speed: 100 Mb	etload Class III) s from 9.6 kbits/s uj Mbps - Full Duplex	p to 12000 kbit Operation	/IP)			v				↓ 73: ✓ ✓ ✓		v		5 73 ↓ ↓			0PnN
Pump drives PROFIBUS® DP V0 PROFINET® (CC-B & Ne EtherNet/IP™ Communication speeds Network speed: 10/100 Network speed: 100 Mb Auto-detect bus speed	etload Class III) s from 9.6 kbits/s uj Mbps - Full Duplex	p to 12000 kbit Operation	/IP)			v				√ √ √ √		v		5 73 7 7 7		✓ ✓ ✓	DPnN
Pump drives PROFIBUS® DP V0 PROFINET® (CC-B & Ne EtherNet/IP™ Communication speeds Network speed: 10/100 Network speed: 100 Mb Auto-detect bus speed Speed set point	etload Class III) s from 9.6 kbits/s uj Mbps - Full Duplex	p to 12000 kbit Operation	/IP)			v				i 730 v i v v v v v v v v v v		v		5 73 7 7 7 7 7 7 7 7 7		✓ ✓ ✓ ✓ ✓	DPnN
Pump drives PROFIBUS® DP V0 PROFINET® (CC-B & Ne EtherNet/IP™ Communication speeds Network speed: 10/100 Network speed: 100 Mb Auto-detect bus speed Speed set point Speed feedback	etload Class III) s from 9.6 kbits/s u Mbps - Full Duplex ops - Full Duplex Op	p to 12000 kbit Operation	/IP)			v				√ √ √ √		v		5 73 7 7 7		✓ ✓ ✓	0PnN
Pump drives PROFIBUS® DP V0 PROFINET® (CC-B & Ne EtherNet/IP™ Communication speeds Network speed: 10/100 Network speed: 100 Mb Auto-detect bus speed Speed set point Speed feedback Flow calibration functio	etload Class III) s from 9.6 kbits/s u Mbps - Full Duplex ops - Full Duplex Op	p to 12000 kbit Operation	/IP)			v				4 730 7 730 7 730 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		v		5 73 7 7 7 7 7 7 7 7 7		✓ ✓ ✓ ✓ ✓	0PnN
Pump drives PROFIBUS® DP V0 PROFINET® (CC-B & Ne EtherNet/IP™ Communication speeds Network speed: 10/100 Network speed: 100 Mb Auto-detect bus speed Speed set point Speed feedback Flow calibration functio Hours run	etload Class III) s from 9.6 kbits/s u Mbps - Full Duplex ops - Full Duplex Op	p to 12000 kbit Operation	/IP)			v				I 73 J J J J J J J J J J J J		v		5 73 7 7 7 7 7 7 7 7 7		✓ ✓ ✓ ✓ ✓	0PnN
Pump drives PROFIBUS® DP V0 PROFINET® (CC-B & Ne EtherNet/IP™ Communication speeds Network speed: 10/100 Network speed: 100 Mb Auto-detect bus speed Speed set point Speed feedback Flow calibration functio Hours run Revolution counter	etload Class III) s from 9.6 kbits/s u Mbps - Full Duplex ops - Full Duplex Op	p to 12000 kbit Operation	/IP)			v				I 73 V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V V		v		5 73 7 7 7 7 7 7 7 7 7			0PnN
Pump drives PROFIBUS® DP V0 PROFINET® (CC-B & Ne EtherNet/IP™ Communication speeds Network speed: 10/100 Network speed: 10/100 Network speed: 100 Mb Auto-detect bus speed Speed set point Speed feedback Flow calibration functio Hours run Revolution counter Leak detection	etload Class III) s from 9.6 kbits/s u Mbps - Full Duplex ops - Full Duplex Op	p to 12000 kbit Operation	/IP)			v				I 73 J J J J J J J J J J J J J J J J J J J J		v		5 73 7 7 7 7 7 7 7 7 7			0PnN
Pump drives PROFIBUS® DP V0 PROFINET® (CC-B & Ne EtherNet/IP™ Communication speeds	etload Class III) s from 9.6 kbits/s u Mbps - Full Duplex ops - Full Duplex Op	p to 12000 kbit Operation	/IP)			v				I 73 V V		v		5 73		J J	0PnN
Pump drives PROFIBUS® DP V0 PROFINET® (CC-B & Ne EtherNet/IP™ Communication speeds Network speed: 10/100 Network speed: 10/100 Network speed: 100 Mb Auto-detect bus speed Speed set point Speed feedback Flow calibration functio Hours run Revolution counter Leak detection Low fluid level alarm Diagnostic feedback	etload Class III) s from 9.6 kbits/s u Mbps - Full Duplex ops - Full Duplex Op	p to 12000 kbit Operation	/IP)			v				I 73 J J J J J J J J J J J J J J J J J J J J J J J J J J		v		5 73		J J	DPnN
Pump drives PROFIBUS® DP V0 PROFINET® (CC-B & Ne EtherNet/IP™ Communication speeds Network speed: 10/100 Network speed: 100 Mb Auto-detect bus speed Speed set point Speed feedback Flow calibration functio Hours run Revolution counter Leak detection Low fluid level alarm	etload Class III) s from 9.6 kbits/s u Mbps - Full Duplex ops - Full Duplex Op	p to 12000 kbit Operation	/IP)			v				I 73 J J J J J J J J J J J J J J J J J J J J J J J J J J		v		5 73		J J	DPnN

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

Product codes



A	в	с	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 ¹²	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 users 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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