730 Drive with 720RE/REX 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



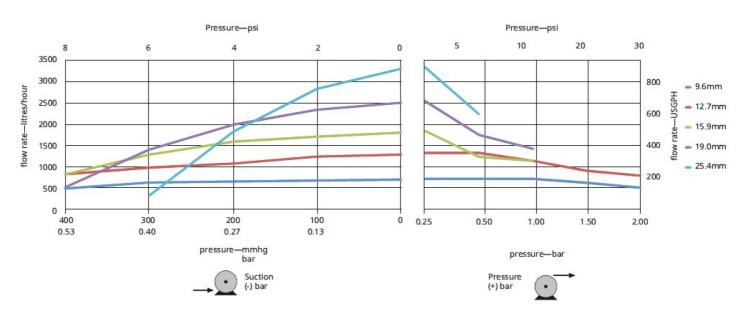


730 Drive with 720RE/REX Pumphead performance



720REX four-roller extension pumpheads for LoadSure elements — Tube bore and flow rates — L/h (USGPH)											
720RE/REX twin	0.25 bar (3.6 psi)		0.5 bar (8 psi)		1 bar (15 psi)		1.5 bar (22 psi)		2 bar (30 psi)		
	Max speed	Max speed Max Max		Max	Max speed	Max	Max speed	Мах	Max speed	Мах	
	(rpm)*	flow	(rpm)*	flow	(rpm)*	flow	(rpm)*	flow	(rpm)*	flow	
9.6 mm (0.4")	300*	700 (185)	300*	700 (185)	300*	700 (185)	250	590 (156)	200	470 (124)	
12.7 mm (0.5")	300*	1300 (343)	300*	1300 (343)	250	1100 (291)	200	870 (230)	175	760 (201)	
15.9 mm (0.6")	300*	1800 (476)	200	1200 (317)	175	1100 (291)					
19.0 mm (0.7")	300*	2500 (660)	200	1700 (449)	160	1390 (367)					
25.4 mm (1.0")	300*	3300 (872)	200	2200 (581)							

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



Technical specifications

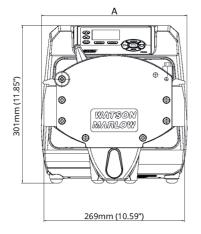
	730 Drive with 720RE/REX Pumphead
Pumphead number of rollers	4
Pumphead number of channels	1
Max. flow rate	3300 L/h
Min. flow rate	0.12 L/h
Max. flow rate	872 USGPH
Min. flow rate	0.03 USGPH
Drive speed control ratio	3600:1
Drive speed	0.1 - 360 rpm
Operating temperature range	5 to 40 °C
Operating temperature range	40 to 104 °F
Weight	31.5 kg
Weight	69.4 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	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

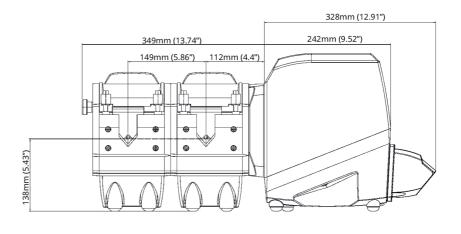
Materials of construction

	730 Drive with 720RE/REX 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.





	Dimension A
720REX	314 mm (12.4 ")

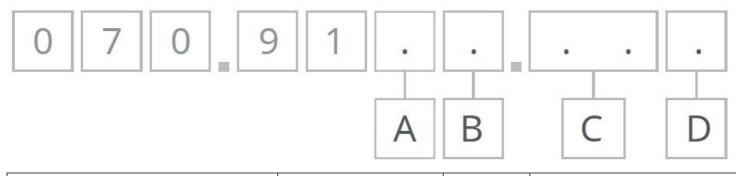
Control options

Key to pump drive

models																			
730SN	730UN	730DuN		730BpN 730US				730DuS				730EnN			730PnN				
Standard IP66 / NEMA 4X	Universal IP66 / NEMA 4X	Digital Univer NEMA 4X	sal IP66 ,		us Pump / Profibus Universal SCADA 66 / NEMA 4X / NEMA 4X			Digital Universal SCA IP66 / NEMA 4X				EtherNet/IP / IP66 / NEMA 4X			PROFINET® / IP66 /NEMA 4X				
Manual control		[··		1			1,=			I				1					
Pump drives 730SN 730							73	30Dı	uN	730B	рN	pN 730US		730Du	IS	730En	۱N	730	PnN
Intuitive keypad and colour display										V		-		10020		J		J	
Choice of flowrate or speed display V V							- I V			- -	v			- 	V			v V	
Full calibration with cho				V			- I.			- -				- -					
MemoDose function				✓	- -					1				✓					
Auto restart facility							1			v				✓		1		1	
Guard switch detection								v		-		1		1		✓	1		
Leak detection					1		1			v		-		√		1		1	
Dipensing (Network Co	ntrol)																		
Remote control																			
Pump drives										730SN	730	UN 7	30DuN	730BpN	730US	730D	uS	730EnN	730PnN
Configurable start/stop	, leak detector and	pressure switc	h input (\	/ia contact cl	osure o	r 5 V ⁻	TTL to 2	24 V))	✓ ✓ ✓				<u> </u>				√	v
Configurable start/stop			-											1	v	~	\neg		1
Direction change and a											~	-		1	1	1	\neg		1
Direction change and a		-												1	v	~	\neg		1
Remote operation of M	lemoDose (foot/har	nd-switch or log	gic input)							Ì	~	~			v	v			1
Four configurable digit	al status outputs th	rough 24 V, 30	W relays								v	~							
Four configurable digit	al status outputs th	rough 110 V re	lays												v	v			
Remote pressure/flow	sensors																	√	✓
Analogue speed co	ntrol																		
Pump drives							730SN	N 730UN		730	DuN	73	0BpN	730US	730D	uS i	730E	nN 7	30PnN
Fully configurable inpu	ts; 0-10 V or 4-20 m	A							√	v				1	✓				
Analogue outputs; 0-10) V, 4-20 mA							✓		1			~		√				
Keypad/analogue inpu	t scaling (replaceme	ent of diaphrag	m pump	s)						V				v					
Tacho frequency outpu	it; 0-1478 Hz								√	✓									
2x sensor inputs 4-20 n	nA or 0-1000Hz*															√		~	'
Security																			
Pump drives		730SN	73	0UN	730D)uN		73	30BpN		730	US	730	DuS	730	EnN		730Pn	N
3-level security PIN loc	ĸ	√	✓		V			1	,		✓ ✓		✓		√			1	
Network communi	ication																		
Pump drives			730SN	730U	N	73	0DuN		730	BpN		730U	S	730DuS	73	30EnN		730P	nN
RS485 network control						1								v					
Digital pump comr	nands (Profibus	/ EtherNet/	'IP)																
Pump drives						730	SN	730	DUN	730Du	N	730B	рN	730US	730Du	5 7	'30Er	זN 7	30PnN
PROFIBUS® DP V0												√							
PROFINET® (CC-B & Ne	etload Class III)																	√	
EtherNet/IP™																	/		
Communication speed	s from 9.6 kbits/s up	o to 12000 kbits	/s									√							
Network speed: 10/100	Mbps - Full Duplex	Operation														√	<u>, </u>		
Network speed: 100 Mi	ops - Full Duplex Op	eration																√	
Auto-detect bus speed												✓			+				
Speed set point												✓			<u> </u>		/	✓ ✓	
Speed feedback								⊢				✓					✓ ✓		
Flow calibration function						<u> </u>		⊢										✓	
Hours run						-		┣—										✓ ✓	
Revolution counter						-		┣─									√		
Leak detection Low fluid level alarm						-		┣─				✓ ✓				- V - V		✓ ✓	
						-		├──				✓ ✓				- V - V		✓ ✓	
Diagnostic feedback Flow Totaliser						-		⊢				×						✓ ✓	
Sensor scaling						-		<u> </u>										v	
-	ontrol)					-		<u> </u>											
ispensing (Network Control)												1			L				

*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 ^{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:			

NOLES.

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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