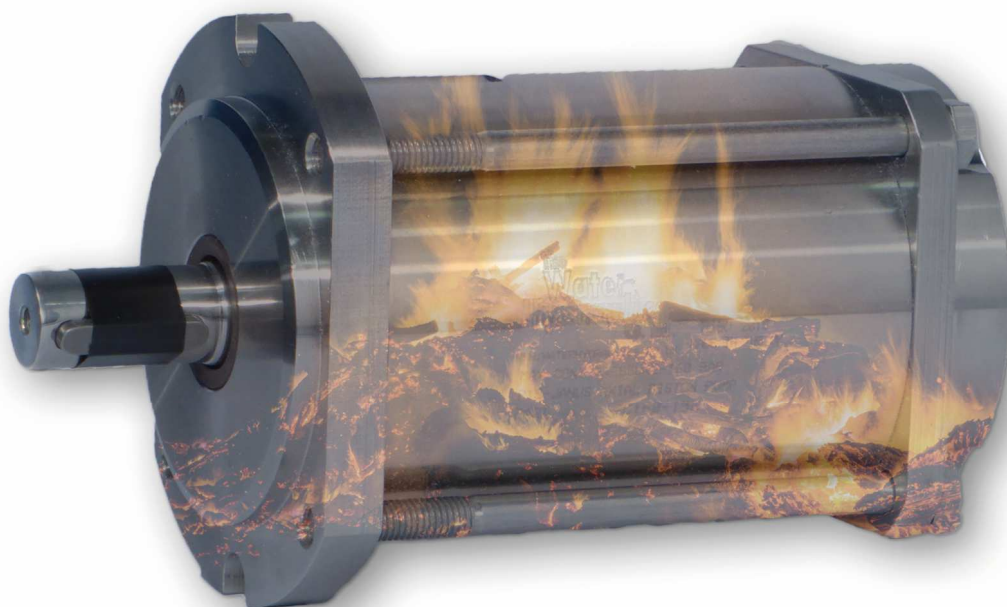


# JANUS PUMPS

FIRE PUMP  
FOGGING SYSTEM

The  
**Water**  
**Hydraulics**  
Co. Ltd.



FM 87247

# JANUS PUMPS FIRE PUMP FOGGING SYSTEM

## Design

The Janus axial piston fire pumps are totally oil free, clean and completely safe to use in all locations including Atex environments. Advanced material technology ensures high velocity and heavily loaded surfaces can operate effectively with water as their only coolant/lubricant. The elimination of lubricating oil within the mechanics of the pumps removes the requirement for piston sealing which in turn reduces the need of servicing seals in the high cyclic loaded components.

Important for the fire industry, the potential of the lubricating oil to contaminate and enter the pumped fluid is totally removed.

The 9 piston design combined with direct 4 pole motor operation produces a very smooth output flow and removes the requirement for output accumulation or pulsation damping. Pressure ripple-free performance against a fixed orifice make the product ideal for fire fighting applications. System component fatigue is rare due to the smooth low noise performance of the advanced technology. Light weight and compact design reduces powerpack size and the all 316L stainless steel construction ensures exceptional corrosion resistance and unsurpassed life expectancy even in harsh environments

## Noise Level

81dBa on 100l pump @ 130 bar.

## Power Packs

The units are available as a complete power pack including electrical control system or as a motor/ pump assembly. Multiple pump installations are common with additional stand-by pump assemblies, should specification demand.

Low capacity jockey pumps for system activation are also available again in all 316 construction. All pumps are produced in accordance with ISO 14847, EN12162 and EN 809.

A full range of safety relief and solenoid operated zone valves are also available, please ask for data sheet for further information.

## ATEX

This unit is used globally in FM approved systems and is ATEX approved to comply with regulations of Directive 94/9/EC (ATEX) for equipment or protection systems intended for use in potentially explosive atmospheres.

Product group, category, zones:  
II 2GD ck T6 T85°C +1°C≤TA≤+40°C



# JANUS PUMPS FIRE PUMP FOGGING SYSTEM

PUMP	Displacement (CC/REV)	PRESSURE - BAR			
		80	100	120	140
P6	6.0	8.3 l/min	8.0 l/min	7.7 l/min	7.4 l/min
		1.5 KW	2.2 KW	2.2 KW	3.0 KW
		90L Frame	100L Frame	100L Frame	100L Frame
	<b>Number of Spray Heads</b>	2	2	1	1
	<b>Tank Capacity — Useable</b>	25 Litres			
	<b>PC160-6.0W</b>	<b>P6-060-M08-S25</b>	<b>P6-060-M09-S25</b>	<b>P6-060-M10-S25</b>	
P15	19.0	25.9 l/min	25.5 l/min	25.1 l/min	24.7 l/min
		5.5 KW	5.5 KW	7.5 KW	7.5 KW
		132S Frame	132S Frame	132M Frame	132M Frame
	<b>Number of Spray Heads</b>	5		5	
	<b>Tank Capacity — Useable</b>	350 Litres			
	<b>PC160-19W</b>	<b>P15-019-M12-S350</b>	<b>P15-019-M13-S350</b>		
P30	23	31.6 l/min	30.9 l/min	30.2 l/min	29.5 l/min
		5.5 KW	7.5 KW	11 KW	11 KW
		132S Frame	132M Frame	160M Frame	160M Frame
	<b>Number of Spray Heads</b>	7	7	7	
	<b>Tank Capacity — Useable</b>	500 Litres		500 Litres	
		<b>PC160-23W</b>	<b>P30-023-M12-S500</b>	<b>P30-023-M13-S500</b>	<b>P30-023-M14-S500</b>
	35	49.6 l/min	48.9 l/min	48.2 l/min	47.5 l/min
		11 KW	11 KW	15 KW	15 KW
		160M Frame	160M Frame	160L Frame	160L Frame
	<b>Number of Spray Heads</b>	11		11	
<b>Tank Capacity — Useable</b>	1100 Litres		1100 Litres		
	<b>PC160-35W</b>	<b>P30-035-M14-S1100</b>	<b>P30-035-M15-S1100</b>		
P60	51	73.5 l/min	72.5 l/min	71.5 l/min	70.5 l/min
		15 KW	15 KW	18.5 KW	22 KW
		160L Frame	160L Frame	180M Frame	180L Frame
	<b>Number of Spray Heads</b>	16		16	16
	<b>Tank Capacity — Useable</b>	1800 Litres		1800 Litres	
		<b>PC160-51W</b>	<b>P60-051-M15-S1800</b>	<b>P60-051-M16-S1800</b>	<b>P60-051-M17-S1800</b>
	63	91.5 l/min	90.5 l/min	89.5 l/min	88.5 l/min
		15 KW	18.5 KW	22 KW	30 KW
		160L Frame	180M Frame	180L Frame	200L Frame
	<b>Number of Spray Heads</b>	20	20	20	20
	<b>Tank Capacity — Useable</b>	2300 Litres		2300 Litres	
		<b>PC160-63W</b>	<b>P60-063-M15-S2300</b>	<b>P60-063-M16-S2300</b>	<b>P60-063-M17-S2300</b>
	70	99.6 l/min	98.9 l/min	98.2 l/min	97.5 l/min
		18.5 KW	22 KW	30 KW	30 KW
		180M Frame	180L Frame	200L Frame	200L Frame
<b>Number of Spray Heads</b>	22	22	22		
<b>Tank Capacity — Useable</b>	2600 Litres		2600 Litres		
	<b>PC160-70W</b>	<b>P60-070-M16-S2600</b>	<b>P60-070-M17-S2600</b>	<b>P60-070-M18-S2600</b>	

Tank capacity (based on 30 minutes fire fighting operation). Guaranteed 15l/min water supply flow

Motor and flow specification based on 400V 4 pole 50 Hz operation. Pumps maximum continuous working pressure 160 bar

Single phase motors are available, please contact TWHC for more details.

# JANUS PUMPS FIRE PUMP FOGGING SYSTEM

PUMP	Displacement (CC/REV)	PRESSURE - BAR			
		80	100	120	140
P180	<b>135</b>	196.5 l/min	194.5 l/min	192.5 l/min	189.5 l/min
		30 KW	45 KW	55 KW	55 KW
		200L Frame	225M Frame	250M Frame	250M Frame
	<b>Number of Spray Heads</b>	43	43	43	
	<b>Tank Capacity — Useable</b>	5500 Litres		5500 Litres	
	<b>PC160-135W</b>	<b>P180-135-M18-S5500</b>	<b>P180-135-M20-S5500</b>	<b>P180-135-M21-S5500</b>	
	<b>180</b>	264 l/min	262 l/min	260 l/min	257 l/min
		45 KW	55 KW	75 KW	75 KW
		225M Frame	250M Frame	280S Frame	280S Frame
	<b>Number of Spray Heads</b>	58	58	58	
	<b>Tank Capacity — Useable</b>	7500 Litres		7500 Litres	
	<b>PC160-180W</b>	<b>P180-180-M20-S7500</b>	<b>P180-180-M21-S7500</b>	<b>P180-180-M22-S7500</b>	
	<b>225</b>	320.2 l/min	318.2 l/min	316.2 l/min	313.2 l/min
		55 KW	75 KW	75 KW	90 KW
		250M Frame	280S Frame	280S Frame	280M Frame
	<b>Number of Spray Heads</b>	72	72	72	72
<b>Tank Capacity — Useable</b>	9200 Litres		9200 Litres		
<b>PC160-225W</b>	<b>P180-225-M21-S9200</b>	<b>P180-225-M22-S9200</b>	<b>P180-225-M22-S9200</b>	<b>P180-225-M23-S9200</b>	



Tank capacity (based on 30 minutes fire fighting operation). Guaranteed 15l/min water supply flow

Motor and flow specification based on 400V 4 pole 50 Hz operation. Pumps maximum continuous working pressure 160 bar

Single phase motors are available, please contact TWHC for more details.

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