

# Mobile Axial Hydraulic Pumps

Variable Displacement Load Sense Control

**Certified Power**  
SOLUTIONS®



The Eaton® X20 portfolio of open-circuit piston pumps is built to maximize machine performance and productivity. With sophisticated controls that enhance system efficiency and a compact design that delivers incredible power, the X20 portfolio empowers mobile machine operators to do more work in less time using less fuel.

## Excellent Pressure Responsiveness

The X20 portfolio delivers the fastest response and recovery times in the open-circuit piston segment, helping customers get the job done faster.

## Simplified Pump Architecture

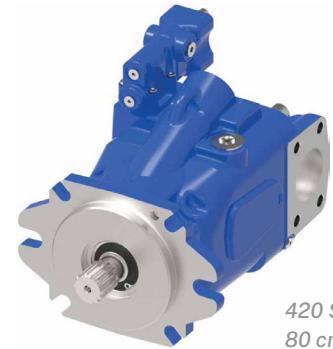
The X20 pump has 25% fewer components than traditional pumps, reducing the number of leak points and simplifying maintenance.

## Compact Package Size

The X20 portfolio's small size satisfies Tier 4 requirements and provides more flexibility when designing the engine compartment.

## One-Piece Housing

Single-piece pump housing removes leak points and makes maintenance faster and easier versus more complicated multi-piece housings.



420 Series  
80 cm<sup>3</sup>/rev



620 Series  
98 cm<sup>3</sup>/rev

**Eaton's 420 Series** is available with displacements of 41cc, 49cc, 62cc, and 80cc for operating speeds at 2,650 rpm. A strong, field-proven rotating group allows the pumps to handle pressures to 280 bar (4060 psi) continuous and 320 bar (4600 psi) intermittent.

**Eaton's 620 Series** is currently available in 98cc (5 .98 in<sup>3</sup>/r) displacement. It is rated at 310 bar and is capable of generating over 100 kW (134 hp). The 620 design also incorporates new advances in product reliability.



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Series 420			Units	ADU041 ADU049		ADU062	ADU080
	Displacement		cc/r (in³/r)	41.0 (2.50)	49.2 (3.00)	62.3 (3.80)	80.0 (4.88)
	Mounting	2 Bolt B, 2 Bolt C , 2/4 Bolt C					
	Pressure	Continuous	bar (psi)	280 (4060)	280 (4060)	280 (4060)	210 (3050)
		Intermittent²		320 (4600)	320 (4600)	320 (4600)	230 (3335)
		Peak³		350 (5000)	350 (5000)	350 (5000)	250 (3625)
	Speed⁴	At 1 bar abs (0 psig)	rpm	2650	2650	2600	2500
		At.85 bar abs (5 in.Hg)		2450	2450	2400	2200
		At 2 bar abs (15 psig)		2950	2950	2800	2800
		Max (standby)		3600	3600	3600	3600
		Min		600	600	600	600
	Power	Max (theoretical)	kW (hp)	50.7 (68.0)	60.8 (81.5)	75.6 (101.3)	61.7 (82.7)
		Standby		.98 (1.3)	.98 (1.3)	1.1 (1.5)	1.4 (1.9)
	Torque	Max (theoretical)	Nm (lb-ft)	183 (135)	219 (162)	278 (205)	268 (198)
	Weight	Single Seal¹	kg (lbm)	22.9 (50.4)	22.9 (50.4)	23.8 (52.4)	24.2 (53.4)
		Dual Seal¹		24.1 (53.1)	24.1 (53.1)	25.0 (55.1)	25.4 (56.1)
	Bearing life⁵	At 140 bar (2030 psi)	B10 Hours	103,650	55,580	33,500	17,150
At 210 bar (3045 psi)		26,830		14,380	8,670	4,440	
At 280 bar (4060 psi)		10,280		5,510	3,320	N/A	
Mass moment of inertia		Nm-sec²	0.003	0.003	0.005	0.006	
		(lb-in-sec²)	-0.029	-0.029	-0.040	-0.052	

Series 620

		Units	ADY074 ADY098	
Displacement		cc/r (in³/r)	74.4 (4.54)	98.0 (5.98)
Mounting (SAE)	4 Bolt C, 2/4 Bolt C			
Pressure	Continuous	bar (psi)	310 (4495)	280 (4060)
	Intermittent³		346 (5020)	320 (4600)
	Peak⁴		373 (5410)	350 (5000)
Speed⁵	Rated	rpm	2400	2200
	Max		2880	2640
	Min		600	600
Power	Max (theoretical)	kW (hp)	92.3 (123.7)	100.6 (134.9)
	Standby		2.1 (2.8)	2.6 (3.5)
Torque	Max (theoretical)	Nm (lb-ft)	367.3 (270.9)	436.7 (322.1)
Weight¹		kg (lbf)	43.5 (96.1)	45.9 (101.3)
Bearing life⁶	At 140 bar (2030 psi)	B10 Hours	125,200	81,400
	At 210 bar (3045 psi)		32,900	21,400
	At 280 bar (4060 psi)		12,100	7,900
	At 310 bar (4495 psi)		8,600	
Mass moment of inertia		kg-m²	0.009	0.012
		(lbm-ft²)	-0.211	-0.279

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