

Tensioner Pumps Technical Specifications

W. Christie supply many different air, electric and manually driven pump units, of varying pressure and fluid discharge specifications.

This document details the main tensioning air pump, the model HHT.627x series.

The standard tensioning pump configuration is the model HTT.6271, with a maximum working pressure of 1,500 bar fitted with a suitable gauge and outlet connection.

For higher pressure needs the model HTT.6272 pump is configured with a 2,275 bar maximum working pressure and is also fitted with a suitable gauge and outlet connection.



Series HTT.627X

Model	Max Working Pressure
HTT.6271	1,500 bar (21,750 psi)
HTT.6272	2,275 bar (33,000 psi)

Technical Information

Approximate size - 42 cm x 42 cm x 45 cm

Weight (reservoir empty) - 22.5 kg

Reservoir capacity - 9 litres

Hydraulic piston diameter - 6.35 mm

Hydraulic piston area - 31.67 mm²

Volume per stroke - 999.6 mm³

Hydraulic oil - ISO Grade 10, 32 and 68
(Example: Shell Morlina oil 10)

When operating from zero to rated hydraulic pressure, air consumption will be approximately 28ft³/min of free air at 100 psi input. At lower air pressures and higher hydraulic pressures, air consumption will be reduced proportionally to flow rates included.

Approximate Air to Hydraulic Pressure Ratio Static Condition

Ratio	10	20	30	40	50	60	70	80	90	100
440:1	5,000	8,000	12,500	16,500	21,000	25,500	30,000	34,000	38,000	42,500

Note: When operating from 0 to rated hydraulic pressure, air consumption will be approx 28scfm of free air at 100 psi input. At lower air pressure and higher hydraulic pressure, air consumption will reduce proportionally.

Measurements

Model Ratio	Hydraulic piston diameter (in)	Hydraulic piston area (in ²)	Volume per stroke (in ³)
440:1	0.25	0.049	0.061

* No statement or data within this literature is warranted or guaranteed to be accurate.

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