SILENT HYDRAULIC POWER UNIT

Low-noise, efficient and reliable hydraulic power system



The Moog Silent Hydraulic Power Unit (HPU) is a reliable and efficient hydraulic power system that provides stable hydraulic power to machinery and equipment. The Silent HPU series covers a wide range of flow needs, with a maximum output of 600 l/min. The modular design of the Silent HPU allows for product assembly to be configured according to user requirements, providing high flexibility when expanding output flow is required.

The Silent HPU uses Moog Radial Piston Pumps (RKP), which have a robust and contamination-resistant design that results in long service life and high reliability. The RKP's rapid response time and high volumetric efficiency promote overall efficient operation of the HPU and help save energy. The structure of the 9 radial pistons of RKP, due to the smaller piston diameter, reduces the flow and pressure pulsation on the high-pressure side, thus reducing noise emissions.

To accommodate users space constraints and equipment layout, the control cabinet (with the control panel) of the Silent HPU has left and right mounting position options. In addition to local operation, the Silent HPU can also be equipped with remote control functions to flexibly meet operational needs.

The Silent HPU offers a Flow-on-Demand feature that intelligently controls the flow output for better energy savings. The structure of the Silent HPU is designed to reduce noise caused by the pump output. The pump body is immersed in the oil tank, which further reduces the noise generated during operation. The pump assembly rack and oil tank are installed in the structure of the Silent HPU by means of mechanical isolation connection, and the cover of the overall structure is equipped with sound insulation materials. The overall noise of the Moog Silent HPU can be controlled at a low level.



ADVANTAGES

- Compact size, space-saving
- Low noise for a quiet working environment
- High efficiency and energy saving
- Stable output to ensure the quality of work
- It has both expandability and compatibility, and the device can be flexibly deployed
- Easy to inspect and maintain, helping to reduce costs

APPLICATIONS

As a hydraulic power source for hydraulic machinery:

- Automotive and aviation test systems
- Industrial machinery and equipment
- General hydraulic machinery

SPECIFICATIONS

TECHNICAL DATA

Model	C132-S100	C132-S200	C132-S300	C132-S400	C132-S500	C132-S600
Maximum flow [1]	100 l/min	200 l/min	300 l/min	400 l/min	500 l/min	600 l/min
Working pressure	210 bar	210 bar	210 bar	210 bar	210 bar	210 bar
Noise level [2]	68 dB (A)	68 dB (A)	70 dB (A)	70 dB (A)	72 dB (A)	72 dB (A)
Tank capacity	750 l	1,010 l	1,500 l	1,800 l	2,200 l	2,580 l
Dimensions **Length** **Width** **Height**	 1,900 mm 1,300 mm 1,700 mm	 2,300 mm 1,300 mm 1,700 mm	 3,360 mm 1,300 mm 2,040 mm	 3,360 mm 1,300 mm 2,040 mm	 3,810 mm 1,300 mm 2,045mm	 4,200 mm 1,300 mm 2,045 mm
Weight (without oil)	2,000 kg	3,000 kg	4,000 kg	4,500 kg	4,850 kg	5,200 kg
Main Motor size	45 kW x 1	45 kW x 2	45 kW x 3	45 kW x 4	45 kW x 5	45 kW x 6
Number of motor/pump units	1	2	3	4	5	6
Pump type	RKP	RKP	RKP	RKP	RKP	RKP
Maximum operating temperature	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
Minimum operating temperature	5 °C	5 °C	5 °C	5 °C	5 °C	5 °C

[1] The output flow is calculated based on a 50 Hz power supply

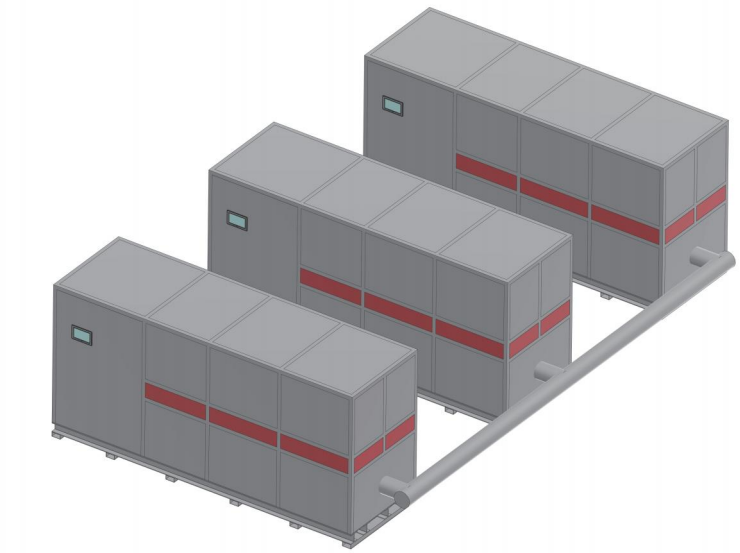
[2] The measurement of the noise level [dB(A)] vary depending on the environment in which the device is located, and the noise level is measured in a free space environment.

CONFIGURATION OPTIONS

- Choice of flow rates
- Position options of the control cabinet
- It can be equipped with a remote-control function
- A non-contact flow meter is provided

MULTIPLE HPU COMBINATIONS

Multiple Silent HPUs can be connected to form a hydraulically shared HPU as a single system. It achieves higher flow rates than the standard 600 l/min HPU.



Multiple Silent HPU Combination

Moog has offices around the world. For more information or the office nearest you, contact us online.

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