Power Source Technology for the Future **Denyo**®

SOUNDPROOF DIESEL ENGINE-DRIVEN COMPRESSOR
<Variable Pressure>

DIS-200VPB

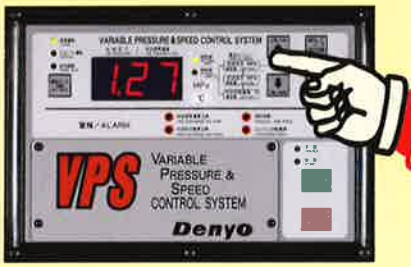
1.27~1.03~0.83~0.70MPa
21.2~22.7~24.0~25.5m³

Delivery pressure is fully adjustable by Variable Pressure System

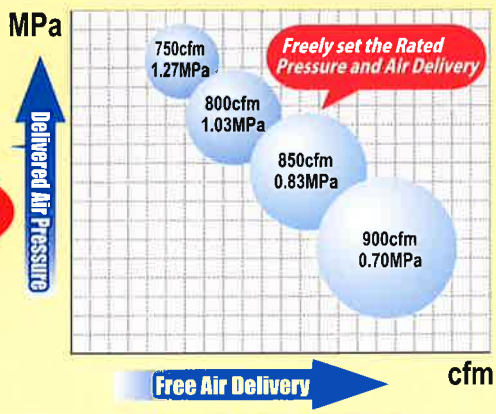
Fully-digital control allows any delivery pressure to be entered with the operating panel, for automatic control of the capacity and engine speed to match the working air volume.
Instead of the conventional pressure adjustment method which involves adjusting the setpoint pressure while referring to a pressure gauge, the required delivery pressure can be easily set on the control panel in 0.01-Mpa increments from 0.70 to 1.27MPa.

High Pressure 1.27MPa	High Pressure 1.03MPa	Low Pressure-High Capacity 0.70MPa
21.2m³/min(750cfm)	22.7m³/min(800cfm)	25.5m³/min(900cfm)

Delivered Air Pressure		Free Air Delivery
1.27MPa	21.2m³/min(750cfm)	
1.03MPa	22.7m³/min(800cfm)	
0.83MPa	24.0m³/min(850cfm)	
0.70MPa	25.5m³/min(900cfm)	



You can set easily on the control panel in 0.01-Mpa increments from 0.70 to 1.27MPa.



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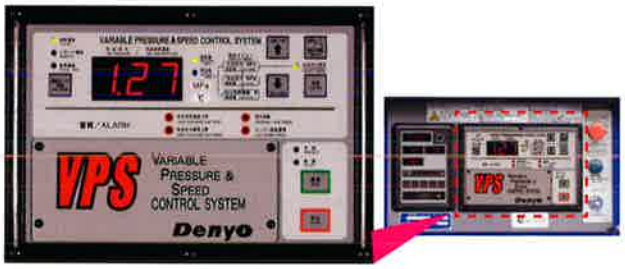

Lower fuel consumption and noise

Electronic engine control regulates the engine speed to the minimum required level depending on the load, reducing both fuel consumption and noise.
Setting the unit to Eco-Mode Operation can reduce the amount of fuel consumption even further.

Even more detailed settings can be made to fit the application

The controller sub-panel can be used to make fine adjustments during parallel operation and to configure optimal settings to match work processes.

Function #1: Eco-Mode / Power Mode Selection

Eco-Mode Operation, which suppresses the amount of fuel consumption, is recommended if the air volume is not particularly critical. Under Eco-Mode Operation, the engine's maximum speed will not become higher than 2250 min-1, even if the delivery pressure falls below the setpoint pressure.

Power Mode Operation
If it is desired to maximize the benefits of an electronically-controlled engine, and the delivery pressure is low with a light engine load, the engine speed is raised to increase the air volume.

Eco-Mode Operation
If only pressure and not air volume is required, the amount of fuel consumption can be minimized by suppressing the engine speed.

Function #2: Variable Pressure Control (VPC) / Constant Pressure Control (CPC) Selection

Control can be selected from VPC (Variable Pressure Control) which is equivalent to standard engine compressor operation, or CPC (Constant Pressure Control), which allows the maximum fuel efficiency per unit of delivery volume.

Variable Pressure Control [VPC]
The delivery pressure is lowered in stages to correspond to the increase in engine speed as it ranges from the no-load pressure to the rated pressure.

Constant Pressure Control [CPC]
A method where the engine speed is controlled to maintain the delivery pressure at a set value. This control method is effective for factory equipment air supply sources or other cases where load fluctuations are comparatively small.

SPECIFICATION TABLE

MODEL		DIS-200VPB	
COMPRESSOR			
Type		Rotary screw, single-stage compression, oil cooled	
Delivered air pressure	MPa	1.27～1.03～0.83～0.70	
Free Air Delivery	m^3/min	21.2～22.7～24.0～25.5	
Lube Oil Capacity	L	90	
Receiver Tank Capacity	m^3	0.25	
Service Cock Size x Q'ty		20A(R3/4)×2 50A(Rc2)×1	
Engine			
Model		Hino J08E-UK	
Type		Common Rail, Inlined, Direct injected, Turbocharged	
No.of Cylinders-Bore×Stroke	mm	6-112×130	
Piston Displacement	L	7.684	
Output Rating	kW(PS)	197(268)	
Rated Speed	rpm	2100(Rated)～2180～2260～2350	
Fuel		ASTM No. 2 Diesel Fuel or Equivalent	
Fuel Tank Capacity	L	400	
Fuel Consumption*1	L/h	1.27MPa・750cfm	32.8
		1.03MPa・800cfm	27.1
		0.83MPa・850cfm	26.4
		0.70MPa・900cfm	25.3
Lube Oil Sump Capacity	L	25.5	
Coolant Capacity	L	28	
Battery×Quantity		145F51×2	
UNIT			
Dimensions	Length mm	3610	
	Width mm	1780	
	Height mm	1795	
Dry Weight	kg	3490	
LwA dB	No load.Rated	99●	
Exhaust gas regulations		Stage III (Japanese)	

*1・・・ Fuel consumption is based on operation at 70% load.
● : Super low noise construction equipment designated by the MLIT Japan

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