

## ORV12 - 220

### The compressor package for specific requirements

The ORV12 module is an air compressor package for drilling & other special applications, including rig manufacturers, specialty packagers, rig retrofits.

The module has no engine and has the option to be coupled to an electro / hydraulic / diesel drive.

The ORV12 is delivered in 2 separate modules for easy installation, a air compressor module available in weatherproof canopy and an oil/air-separator module.



### REQUESTED VALUES :

Capacity :	1200 cfm
Working Pressure :	350 psi
Engine Speed :	1800 rpm
Available Power :	544 BHP
Altitude :	0 ft
Ambient temperature :	68°F

### SELECTED SOLUTION :

#### TECHNICAL DATA (at sea level and ambient temperature of 68°F)

Data at engine speed of 1800 rpm, gear-ratio of 2.195 and working pressure of 350 psi

Maximum Capacity :	1253 cfm
Power Consumption :	506 BHP
Torque :	1476 lb.ft
Oil Capacity :	20 us gallon

#### TECHNICAL DATA (at altitude of 0 ft and ambient temperature of 68°F)

Data at engine speed of 1800 rpm, gear-ratio of 2.195 and working pressure of 350 psi

Maximum Capacity :	1253 cfm
Derated Power Consumption :	506 BHP
Torque :	1476 lb.ft

#### AIR MODULE

Dimensions :	5.22 ft x 5.58 ft x 4.46 ft
Weight :	3086 lb

#### OIL/AIR SEPARATOR

Dimensions :	1.97 ft x 1.35 ft x 4.10 ft
Weight :	661 lb

#### COMPRESSOR OIL TO BE USED IN FOLLOWING CONDITIONS :

PAR OIL S: Ambient temperature : -13°F to +86°F

PAR OIL S 68 : Ambient temperature : 32°F to +122°F

### TORSIONAL VIBRATION DATA ANALYSIS :

This data is to be used for coupling selection between the drive and the OEM module.

Moment of Inertia:	$J = WR^2 = 10077.9 \text{ lb.in}^2$
	$4 \times J = GD^2 = 40311.6 \text{ lb.in}^2$