

IPEload R744 auto. wat.

Compact load unit for CO2 automotive compressors

- Internal cooling simplifies replacement of the compressor
- Automatic control of process variables HP, LP, EVC
- Integrated PLC system with handheld terminal
- User administration with access right control
- Connection to chilled water network required
- Dial gauges to monitor operating pressure levels
- (Image similar)



Device	
Supported refrigerants	R744 (CO2)
Refrigerant connections	HP (3/8") / LP (1/2")
Coolant connections	Inlet (3/4") / outlet (3/4") - outside thread
Service connections	HP / LP (7/16" UNF)
Dimensions	B700 mm x H1350 mm x T750 mm (27.56 in x 53.15 in x 29.53 in)
Weight	200 kg (441 lb)
Type of control	PLC-controlled / handheld terminal
Power consumption, typical	Approx. 2.6 kW
Number of pressure gauges	3
HP gauge - hot gas pressure	0 ... 160 bar
MP gauge - medium pressure	0 ... 100 bar
LP gauge - suction pressure	0 ... 100 bar
Working temperature range	Max. 40 °C (104 °F)
Electrical connections	
Power supply	1 x 16 A, 230 V AC, 50 Hz Schuko
Magnetic clutch	2 x 4 mm (banana) plug
Nutating disc	2 x 4 mm (banana) plug
Supply	
Internal cooling device	Approx. 1.5 kg (R134a)
Refrigerant amount test circuit	Max. 2.5 kg (CO2)
Supported coolants	Water / brine (70% water / 30% glycol)
Coolant temperature inlet	6 °C
Coolant mass flow	180 kg/h
Coolant differential pressure	p > 0.5 bar
Control ranges	

Discharge pressure range	65 ... 140 bar
Suction pressure range	20 ... 60 bar
Superheating - suction line	5 ... 40 K
Refrigerant mass flow	30 ... 250 kg/h
Mechanical compressor	
Magnetic clutch	On/off, 12 VDC & 24 VDC
Control ECV	0 ... 1000 mA
Compressor speed	Ext.
Electric compressor	
Control	Ext. (LIN / CAN Bus & IPEmotion software)