

IPEload R744 auto. air

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
- No connection to chilled water network required
- Dial gauges to monitor operating pressure levels



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|---------------------------------|---|
| Device | |
| Supported refrigerants | R744 (CO2) |
| Refrigerant connections | HP (3/8") / LP (1/2") |
| Service connections | 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 | 10 ... 30 °C (50 ... 86 °F), max. 70 % r.H. |
| 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) |
| 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 | |

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|----------------------------|---|
| 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) |