

Main Office: 1135 Lance Road, Norfolk, Virginia 23502

Quality Equipment and Service Since 1962

Branch Office:

4715 Stockholm Court, Charlotte, NC 28273

Telephone: 757-461-0077

Telefax: 757-461-0808

Telephone: 704-374-0600

Telefax: 704-374-1008

Duplex, Enclosed Compressor System for Fueling Vehicles with Natural Gas (CNG): 10 to 100 HP, Air Cooled Design



| MODEL:* (HP = total motor HP) | UR40DE - (HP)* | UR50DE - (HP)* | UR65DE - (HP)* |
|--------------------------------------|--|---------------------------|-----------------------|
| Manufacturer: | Universal Air Products GPD | | |
| Power (Electric Motor):* | 10 to 40 HP* | 20 to 30 HP* | 60 to 100 HP* |
| Inlet Pressure: | 1 inch WC or higher | 1 inch WC or higher | 1 inch WC or higher |
| Discharge Pressure: | 6000 psig maximum | | |
| Flow (subject to inlet /outlet): | 10 to 50 SCFM | 20 to 70 SCFM | 40 to 160 SCFM |
| Vehicles fueled / day: | Consult sales representative | | |
| Compression Stages: | 4 | 4 | 4 |
| Cooling System Design: | Air | Air | Air |
| Electrical Classification (USA) | NEC NEMA Design 7, Class 1, Division 2, Group C, D | | |
| Electrical Voltage / Hz | 200 to 575V (50 or 60 Hz) | | |
| Electrical Phase (Ph) | 1 Ph to 10HP; 3 Ph all HP | 1 Ph to 10HP; 3 Ph all HP | 3 Ph |

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***Larger HP Systems Available**

Additional NG Compression System Features Include:

- Structural steel base frame, fork-liftable
- Full system steel enclosure with oil-resistant, sound and ambient insulation; ventilation louvers and fans; pitched roof with ridge vents, heat reflective roof panels; lift-off (trigger latch) 16 gauge steel access panels,
- PLC (programmable logic control)
- Digital message board with fault history and real time readings for all sensors
- Common fault indicator light for programmed shutdown conditions
- Duplex, full voltage motor starter and electrical control system mounted and wired
- Control voltage circuit with step-down transformer
- Motor overloads
- Power-on light
- Emergency kill (mushroom) switch
- On-off switch for start/stop control (two-way switch)
- Face gauge panel, including 1st stage thru final discharge pressure and oil pressure.
- Face gauge for final system pressure prior to the pressure maintaining valve
- Discharge pressure sensor with infinite setting control and multiple set points
- Low and high inlet pressure sensor
- Low oil pressure sensor
- High outlet temperature sensor (1st & 4th stages)
- Contacts provided for remote monitoring of system controls
- Built-in air cooled intercoolers and aftercooler
- Moisture separation, all stages
- Auto condensate drainage, all stages
- Cartridge dryer / filtration manifold, installed
- Forced lubrication system with oil pump and filter
- Crankcase breather piped to inlet or vent (subject to inlet conditions)
- Automatic compressor unloading system with vented to vapor recovery tank
- Non-return valve at discharge
- Minimum pressure valve at discharge
- Finish paint in blue or light gray enamel
- ASME, inlet gas surge tank with pressure gauge and gas tight relief valve
- Integrated vapor recovery system with ASME storage vessel regulated to system inlet
- Detailed general arrangement, electrical and flow diagrams for customer review and approval prior to system construction
- Detailed operations, maintenance and parts manuals provided in electronic or hard copy format (Standard English, alternate languages available at option)

Typical Feature/Options Available:

- Completely custom designs
- Larger horse power (kW)
- Water cooled compressor or aftercooler designs
- NEMA 7, Class 1, Division 1; rather than Division 2
- Loose starter and/or electrical controls for mounting remotely at the job site
- Reduced voltage starters (wye-delta, solid state or VFD)

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- Wired / wireless (LAN and/or WAN) based controls with monitoring capabilities (HMI and/or SCADA)
- Combination style disconnect switch for the duplex motor starter
- Open frame design (elimination of the full system enclosure)
- Lockable, trigger latch door panels
- Roof drainage systems complete with gutters and drain pipe connections to skid's edge
- Off-shore base frame (skid) design with lifting eye and drag provisions
- Low ambient protection
- Inlet pressure regulation
- Outlet pressure regulation
- Vapor recovery tank pressure or temperature sensors
- Analog controls rather than PLC
- Custom programming of the PLC:
 - Remote monitoring or controlling of the system
 - Customer site specific control or maintenance features
 - Remote operation, monitoring and diagnostics
- Engine driven designs
- High pressure storage tanks (ASME or DOT)
- Priority fill to high pressure gas storage
- Cascade fill to the vehicle gas storage
- Gas dispensing systems
- Custom inlet or discharge gas dryer in lieu of standard cartridge dryer manifold
- Inlet or discharge gas filtration
- Finish paint in epoxy and/or customer's color selection
- Hot dip galvanized structural steel base frame
- System modifications for non-municipal fuel gases, including biogas, landfill, digester, wastewater, Hydrogen and synthetic-gases. (Typical gas analysis required)
- Installation & startup
- Aftermarket technical support or site services
- Manuals provided in languages other than English

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