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Large Compressor System for Fueling Vehicles with Natural Gas (CNG):
60 to 300 HP, AIR COOLED



MODEL:* (HP = Horse Power)	UR90 - (HP)*	UR100 - (HP)*
Manufacturer:	Universal Air Products GPD	Universal Air Products GPD
Power (Electric Motor):	60 to 200 HP	150 to 300 HP
Inlet Pressure:	1 inch WC or higher	1 inch WC or higher
Discharge Pressure:	6000 psig maximum	6000 psig maximum
Flow (subject to inlet /outlet):	100 to 560 SCFM	476 to 1030 SCFM
Vehicles fueled per day:	Consult sales representative	Consult sales representative
Compression Stages:	3 to 5, subject to inlet	3 to 5, subject to inlet
Cooling System Design:	Air	Air
Electrical Classification (USA)	NEC NEMA Design 7, Class 1, Division 2, Group C, D	NEC NEMA Design 7, Class 1, Division 2, Group C, D
Electrical Voltage / Hertz	200 to 575V (50 or 60 Hz)	200 to 575V (50 or 60 Hz)
Electrical Phase (Ph)	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
- 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 & final stages)
- Contacts provided for remote monitoring of system controls
- Built-in air cooled intercoolers and aftercooler
- Air blast cooling system with fan and shroud
- 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 –(See UR60 and UR89 Series)
- 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 starter (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)
- Sound attenuating intake and discharge acoustical baffles for the system enclosure for enhanced sound reduction
- Combination style disconnect switch for the motor starter
- 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:
 - Duplex or triplex system control design & programming
 - 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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