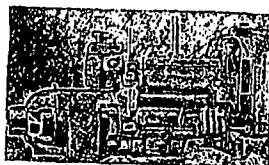


speed variation within 2%; automatic release limits overloading to 10%. Individual injection pump for each cylinder is interchangeable with that of any other FR engine.

These diesels are manufactured by R A Lister & Co. Ltd, Dursley, Gloucestershire, England. Upon arrival in the U.S., they are equipped with American accessories, such as starters, generators, radiators, clutches, etc. Parts are stocked by the U.S. distributor.

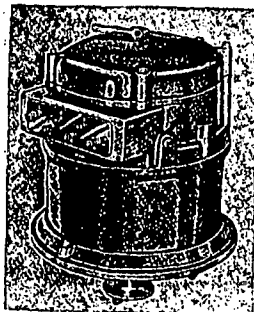
National Supply Co, Engine Div, 33 Colby St, Springfield, Ohio.



High-Speed Diesel

1126 • New high-speed diesel engine, the Cos D326, is offered in industrial, electric set and marine arrangements. Basic engine is 6 cylinder with 5 1/2-in. bore and 6-in. stroke. Individual fuel pumps and valves are mounted directly adjacent to cylinders they serve. Pumps, intake and exhaust valve are actuated by single camshaft. Pistons are cooled by oil jets from under-mounted nozzles.

Caterpillar Tractor Co, Peoria 8, Ill.



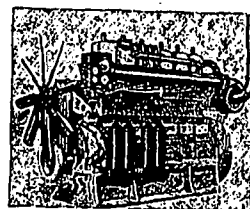
Long-Lived Ignition System

125 • New long-lived ignition system is based on a pulse generator. It can produce output potentials up to 30,000-v with extreme reliability, and will let internal combustion engines run 6 months without shut-down, even for spark-plug inspection, according to the manufacturer.

Pulse generator MCC supplies accurately timed low tension electrical pulses that are

stepped up to the required spark potential by either single or double ignition transformers mounted on each cylinder near the spark plug or plugs.

American Bosch Corp, Springfield, Mass.



Turbocharged Diesels

531 • Five engine sizes, from 426 to 2891 cu in. displacement, now incorporate turbo-charging. Manufacturer claims substantial power increases and greater fuel economy. Units may use any standard diesel fuel.

All engines are heavy-duty, 6-cylinder, 4-cycle units. Power rating of the 426 cu in. engine is increased from 147 to 185 hp, the 2894 cu in. engine rating is increased from 406 to 570 hp.

Waukesha Motor Co, Waukesha, Wis.

TELL ME MORE!

We'll ask the maker to send details. Just fill out cards on pages 223 & 249

Turbine Drive

741 • Single-stage, impulse, double-impact steam turbines type DH, direct steam against a single row of blades twice by special steam-reversing nozzles. Turbine can now develop 1000 hp at pressures up to 875 psi and 750 F. Unit is well adapted for mechanical drives with pumps, fans, blowers, generators.

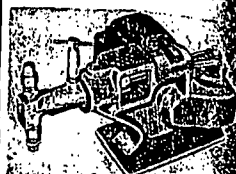
Dept J, Dean Hill Pump Co, 4000 E 16th St, Indianapolis 7, Ind.

Diesel Governor

P1125 • Hydraulic governor for universal application to all types of diesels has adjustments, self-contained oil supply, new system of bypass porting that eliminates accumulators. Two needle valves allow adjustment of recovery time on acceleration and deceleration. Bypass-type lands assure quick servo-piston response on small pilot-valve movements.

Dale Hydraulic Controls, Inc, South & Pleasant Sts, Rockford, Ill.

PUMPS AND



Controlled Volume Chemical Metering Pump

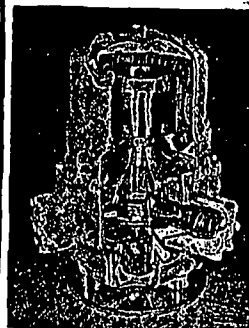
916 • Model X-52 Adjust-O-Feeder provides accurate feeding of chemical solutions where low capacity and medium pressure will meet requirements. Standard model has adjustable capacity range from 1 to 10 gph, pressures up to 650 psi. A feeding range of from 0.5 to 5 gpm at same discharge pressure is also available. Unit is complete and self contained, weighs less than 100 lb.

Proportioners, Inc, 345 Harris Ave, Providence 1, R. I.

Air Compressor

952 • Model 25D stationary air compressor has a displacement of 128 cfm. It is direct-connected to a 25-hp electric motor and is available with constant speed or start-and-stop pushbutton controls as desired.

Compressor is of V-type design with 7 1/2 in. low pressure cylinder and a 4 1/2 in. high pressure cylinder. Stroke is 4 1/2 in. Davy Compressor Co, Kent, Ohio.



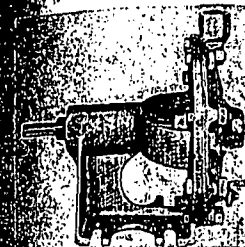
Hermetic Compressor

404 • New Trans accessible hermetic compressor built in 5- and 7 1/2-ton rate capacities using Freon-22 refrigerant and 3-ton capacity using Freon-12. It is designed to

COMPRESSORS

for self-contained air conditioners. Combines the advantages of hermetic construction with accessibility of valves, oil and lubricant.

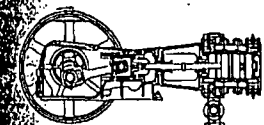
Co, La Crosse, Wis.



Reversible Pump

1338 • Model CAY centrifugal pump, which operates with equal efficiency in either direction, was designed for circulating cooling water in air compressors, diesel and gasoline engines and other water-cooled machines. Pump has mechanical seal, head to 50 ft, capacity to 57 gpm.

Gardner-Denver Co, 100 Williamson St, Quincy, Ill.



Oil-Free Compressor

531 • New compressor employs a steel-backed cylinder-liner of carbon. Manufacturer guarantees air or gas will be compressed free of impurities. Cylinder head of class ATL units is constructed in segments, permitting removal for inspection without interrupting intake or discharge connections.

Pennsylvania Pump & Compressor Co, Easton, Pa.

Water Cooler-Recirculator

337 • Water-cooling and recirculating unit has been developed for use with Chrysler Airtemp 3-hp packaged air conditioners.

The water cooler takes the place of outside water supply, provides a steady flow of cooled water at proper operating pressure. Sealed-in water coolant prevents scaling and corrosion.

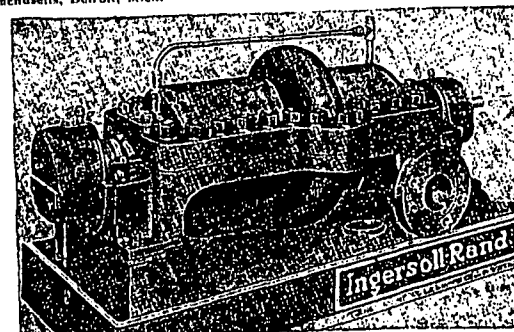
Warm water is forced through two automobile-type radiators, while a high-capacity blower draws outside air through the radi-

The Showcase

of New Equipment

tors. The water is quickly cooled, then returned to the air conditioner in a continuous cycle. Unit weighs 350 lb, occupies 8.3 sq ft of floor space.

Chrysler Corp, Airtemp Div, 341 Massachusetts, Detroit, Mich.

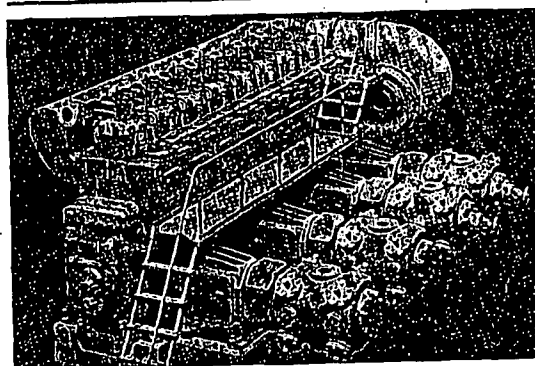


Multi-Stage Centrifugal Pumps

806 • Redesigned line of horizontal multi-stage centrifugal pumps for medium-pressure applications incorporate modern hydraulics that give higher efficiency and better operation. These pumps, called Class CNTA, are intended for boiler feed, mine

dewatering, marine, refinery and general industrial services to 800 psi. Built in 1 1/2, 2, 2 1/2 and 3-in. sizes, units are available with 4, 6 or 8 stages.

Ingersoll-Rand Co, 11 Broadway, New York 4, N. Y.



Turbocharged 2-Cycle Gas-Engine-Driven Compressor

701 • Model TRA is claimed to be America's first turbocharged 2-cycle right angle gas-engine-driven compressor.

The TRA-8 develops 1320 bhp, has eight vertical in-line cylinders of 14 in. bore and 14 in. stroke, integrally connected to horizontal compressor cylinders.

Manufacturer claims these advantages: 50% more power than non-turbocharged units of comparable bore and stroke; lower fuel consumption; 25% less cooling water per bhp; practically constant fuel consump-

tion between 70% of load and maximum; quiet operation with no exhaust pulsations.

The turbocharger uses the waste heat, velocity and mass flow of the exhaust gases to drive a radial inflow turbine. The turbine is integrally connected to a centrifugal compressor that pumps air for scavenging power cylinders and provides air for combustion. Engine drives the turbocharger at start-up and on light loads. At other times, turbocharger operates independently.

Clark Bros Co, Olean, N. Y.