

# The Vilter VSS Unit. How It All Fits Together.

## SINGLE ROTOR SCREW COMPRESSOR

Direct-connected, 3600 RPM Single Screw type compressor with one main rotor that meshes with two diametrically opposed star-shaped gate rotors. Exhibits low noise and low vibration characteristics. Compressor and drive motor are mounted on structural base supports.

## OSHA-DESIGNED COUPLING GUARD

## LARGE CAPACITY MICRONIC OIL FILTER

Filters lubricating oil before injection into compressor. Filter cartridge design ensures greater dirt-holding capacity. Internal cartridge(s) filters all the oil; removes contaminant particles as small as 10 microns. Large cartridge permits easier start-up of compressor in colder environment; less down time. No need to drop whole filter assembly when changing recharge elements — just remove cover plate. Filter inlet and outlet are equipped with transducers for monitoring pressure drop, and shut-off valves for servicing.

## PRIMER PUMP

Direct-connected, gear-type oil pump. Prelubes compressor before startup. Is off during normal operation to save energy consumption.

## MICROPROCESSOR CONTROL PANEL

Control panel consists of a 4 x 40 supertwist backlit LCD display and a NEMA 4 enclosure with single board microprocessor control unit and sealed NEMA 4 keypad. Includes all necessary safety and operating controls, and can display all current operating conditions including suction, discharge, manifold, oil and filter differential pressures, plus suction, discharge, oil manifold, and oil separator temperatures. See pages 8 and 9 for additional details.

## V-PLUS® CONTROL PANEL

(on V-PLUS® oil cooled units only)

NEMA 1 panel displays average oil and discharge temperatures off the temperature controller. Also houses the variable speed drive for the V-PLUS® liquid pump.

## SPECIAL VILTER VSS OPTIONS

### DUAL FILTER ARRANGEMENT

Dual filters are piped in parallel, including necessary valves, so that either of the filter cartridges can be changed without shutting down the unit. When run simultaneously, dual filters will also provide considerably more dirt-holding capacity.

### CUSTOMIZING VSS UNITS FOR SPECIAL ENVIRONMENTS

Vilter can custom-equip VSS Units with weather-proof wiring, gauges, appropriate NEMA control panels (including heaters), special paints and coatings, etc., for outdoor duty.