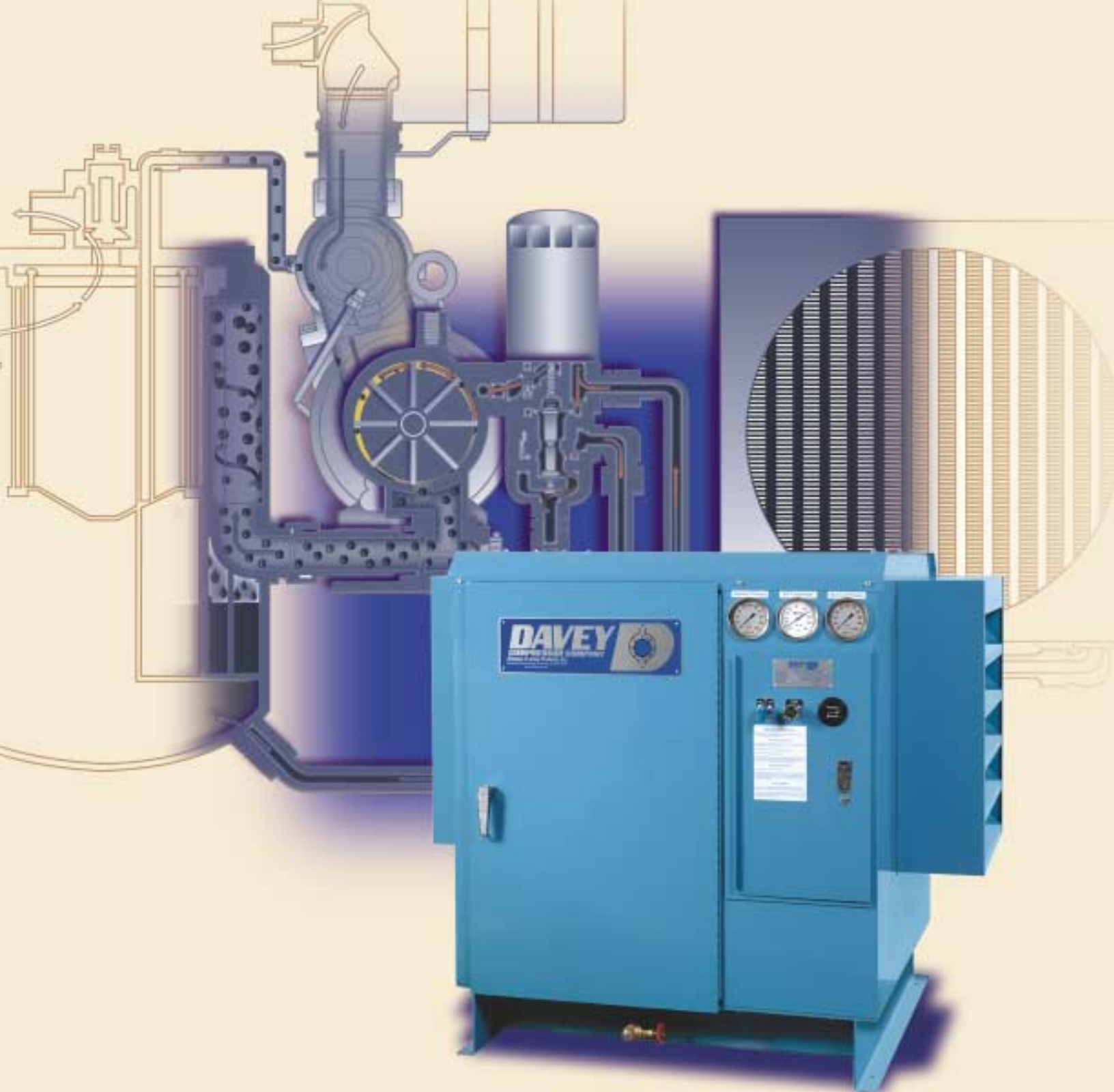
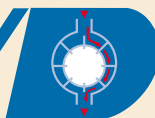


# *Davey Air Compressors*



**DAVEY**  
COMPRESSOR COMPANY  
Division of Jenny Products, Inc.



*The Davey Air Compressor is built to run for decades. The compressors are built around a unique central idea, The Perma-Vane® air end design, a concept unparalleled for rugged dependability. The entire Davey line of field-proven rotary sliding vane compressors offers this long outstanding list of standard features, all combined to bring optimal performance:*



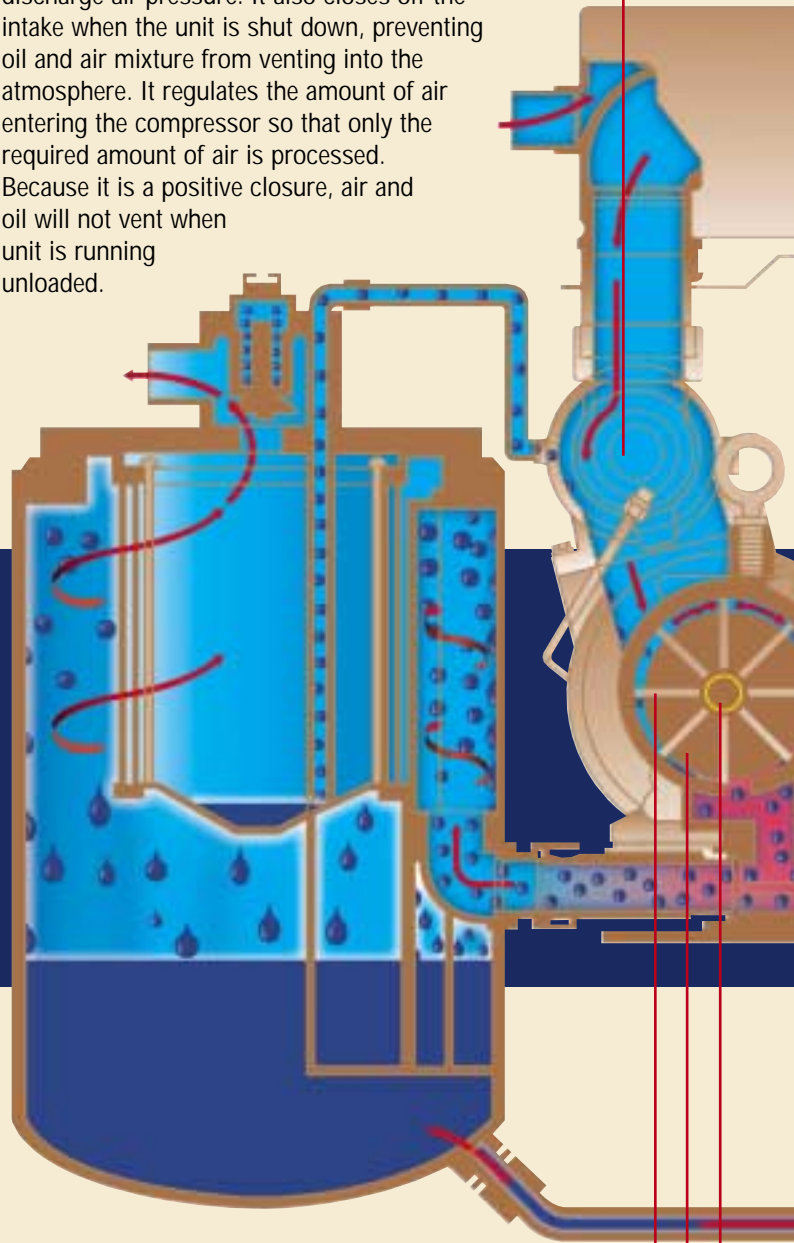
- High Capacity Cylindrical Roller Bearings. No Adjustment needed ever!
- Minimum B-10 bearing life of 90,000 hours.
- Patented Perma-Vane® blade design for extended life in the most hostile environments.
- Unique Free Floating Rotor and Blade design.
- Fewer moving parts.  
Fewer parts to fail.  
Fewer parts to replace.
- Air end is completely field serviceable.
- 5 Year or 15,000 hour air end warranty\*.

\*See Davey warranty policy for exact details.



#### Intake Control Assembly

The intake control assembly is regulated by discharge air pressure. It also closes off the intake when the unit is shut down, preventing oil and air mixture from venting into the atmosphere. It regulates the amount of air entering the compressor so that only the required amount of air is processed. Because it is a positive closure, air and oil will not vent when unit is running unloaded.



#### Perma-Vane® Blades

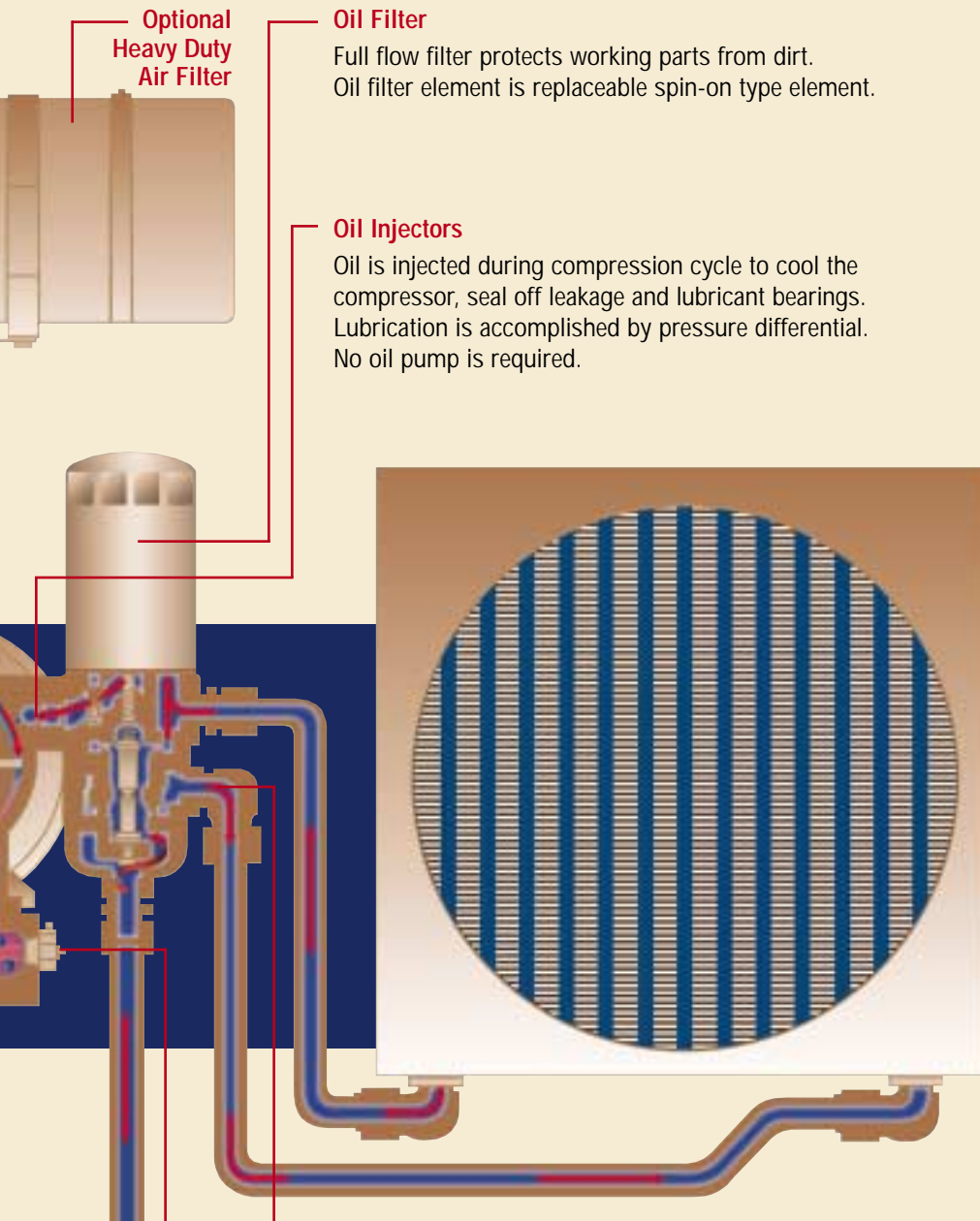
The heart of the Davey rotary compressor is the patented Perma-Vane blade. Blades can perform in excess of 60,000 hours without replacement.

#### Free Floating Rotor

Rotor is centered on shaft by oil injection through the end covers. This virtually eliminates risk of failure due to loss of clearance, while maintaining maximum efficiency.

#### Rotor Bearings

Heavy duty roller bearings assure extra long bearing life. No thrust bearings are required since no axial forces are generated by the compressor.



**Optional Heavy Duty Air Filter**

**Oil Filter**

Full flow filter protects working parts from dirt. Oil filter element is replaceable spin-on type element.

**Oil Injectors**

Oil is injected during compression cycle to cool the compressor, seal off leakage and lubricant bearings. Lubrication is accomplished by pressure differential. No oil pump is required.

**Thermo Switch Assembly**

Automatic control that will shut down unit if discharge temperature should exceed 235° F.

**Thermal Bypass Valve Assembly**

This simply serves two purposes:

- Rapidly warms compressor oil at initial start-up.
- Maintains constant optimum temperature. This extends lubricant life and minimizes formation of moisture condensation in the system.

Air  
 Air/Oil  
 Oil



**The Perma-Vane® Air End Principle**

The difference is the Davey Air End with its patented Perma-Vane® design and its overall simplicity. The Perma-Vane® Air End has surprisingly few moving parts. That means fewer parts to fail and fewer parts to replace. They breakdown less because there is less to breakdown. Because of the unique Davey floating rotor and blade principle, the Perma-Vane® Air End actually "fine-tunes" itself as it operates, which eliminates the risk of failure due to loss of clearance. Most screw compressor air ends begin to wear out the day they are turned on. But as the Perma-Vane® Air End ages, its efficiency actually improves. The more the air end works, the better it gets!

- Two-stage 10 micron filtration is standard.
- Large capacity oil sump for superior oil/air separation and longer lubricant life.
- Simple, reliable, low maintenance electro-pneumatic controls.
- Belt Driven – Uses standard motors with no expensive gearboxes needed.
- Low RPM – Less wear, less noise.
- Package is designed for high ambient temperature conditions.
- Easy access to all filters through full sized doors.
- Liquid filled pressure gauges for accurate readings.
- Compact design requires very little floor space.
- Automatic dual control. Saves energy automatically. When air demand is met, the compressor unloads itself. After a short interval, it shuts itself off automatically. When air demand returns, the compressor automatically goes back to full load.
- Entire unit is completely field serviceable.



BA



BAQ



BAH

**Standard Features – All Units:**

- Rotary Sliding Vane Air End
- ArmorClad Blades
- 5 Year Perma-Vane® Air End Warranty\*
- Integrated Air/Oil Cooler eliminates interconnecting plumbing
- Spin-On Oil Filter

- BA – Belt Drive, Air Cooled
- BW – Belt Drive, Water Cooled
- BAH – Belt Drive, Air Cooled, Enclosure

- 230/460Volt, 3 Phase, 60Hertz 1800 RPM Motors
- Magnetic Full Voltage Starters
- Dual Control with Automatic Timed Stop
- Glycerin Filled Separator Pressure Gauge
- Glycerin Filled Line Air Pressure Gauge

- BWH – Belt Drive, Water Cooled, Enclosure
- BAQ – Belt Drive, Air Cooled, Quiet Enclosure
- BWQ – Belt Drive, Water Cooled, Quiet Enclosure

- Oil Temperature Gauge
- Oil Sight Level Gauge
- Hour Meter
- Lighted Start Button
- High Oil Temperature Switch

\*See Davey warranty policy for exact details.

**BA – BAH – BAQ – Specifications**

Model	25	30	40	50	60
Motor Horsepower	25	30	40	50	60
Kilowatts	18.7	22.4	29.8	37.3	44.8
CFM at 100 PSI	105	125	180	215	265
M <sup>3</sup> /Min at 6.9 Bar	2.97	3.54	5.10	6.09	7.50
CFM at 125 PSI	100	115	160	200	244
M <sup>3</sup> /Min at 8.6 Bar	2.83	3.26	4.53	5.66	6.91
Air Connections	1-1/2" NPT	1-1/2" NPT	1-1/2" NPT	1-1/2" NPT	1-1/2" NPT
Aftercooler Approach	10°F	10°F	12°F	15°F	16°F

**Optional Features:**

- 208 Volt or 575Volt – 3 Phase
- Water Cooled Packages
- Water Cooled Aftercooler (available with water cooled models only)
- Water Control Valve (available with water cooled models only)
- Separator Service Indicator
- Enclosure Cabinet
- Quiet Enclosure Cabinet
- Heavy Duty Air Cleaner
- Moisture Separator

**BA – BAH – BAQ – Dimensions & Weights**

Horsepower	25	30	40	50	60
<b>L x W x H</b>					
BA (in. & cm.)	42 x 43 x 46 107 x 109 x 117	42 x 43 x 46 107 x 109 x 117	42 x 43 x 47 107 x 109 x 119	42 x 43 x 47 107 x 109 x 119	42 x 43 x 47 107 x 109 x 119
BAH (in. & cm.)	42 x 43 x 50 107 x 109 x 127	42 x 43 x 50 107 x 109 x 127	42 x 43 x 50 107 x 109 x 127	42 x 43 x 50 107 x 109 x 127	42 x 43 x 50 107 x 109 x 127
BAQ (in. & cm.)	42 x 58 x 50 107 x 150 x 127	42 x 58 x 50 107 x 150 x 127	42 x 58 x 50 107 x 150 x 127	42 x 58 x 50 107 x 150 x 127	42 x 58 x 50 107 x 150 x 127
<b>Weight</b>					
BA (lbs. & kg.)	1505 / 683	1555 / 705	1905 / 864	1955 / 887	2005 / 910
BAH (lbs. & kg.)	1635 / 742	1685 / 764	2035 / 923	2085 / 946	2135 / 970
BAQ (lbs. & kg.)	1700 / 771	1750 / 794	2100 / 953	2150 / 975	2200 / 1000



**BOWLIN ENTERPRISES**  
**ORDER DESK: 800-597-4625**  
**FAX: 800-255-1408**