INDUSTRIAL AIR COMPRESSOR - 15-30 HP
Compressor & Desiccant Dryer Package

ELECTRIC MOTOR:
» Nema T-Frame, C-Face, double shaft, open drip proof squirrel cage induction type.
» Direct coupling to motor for positive alignment.

MOTOR STARTER:
» Full voltage magnetic starter with 120 volt controls, Nema 1 enclosure, circuit breaker, transformer and three phase over load protector.

AIR INTAKE FILTER:
» Multi-stage dry type with replaceable element.

CONTROLS:
» Full modulation, electronically controlled for smooth operation and lowest possible no load power. Auto dual control, timed stop or constant run.

INSTRUMENTATION:
» Line pressure gauge, fluid reservoir gauge, hour meter, discharge temperature gauge, oil filter and separator element differential gauges.
» Microprocessor control available.

PROTECTIVE DEVICES:
» Class 20 overload relay, high temperature and overpressure shut down.

COOLING SYSTEM:
» Air cooled with air cooler/aftercooler and factory filled with Palasyn 45 synthetic lubricoolant. Equipped with micro fiber full flow oil filter.

AIR DRYER:
» Desiccant air dryer, water separator and coalescing filter for moisture removal, spin on replaceable cartridges.
**Sullivan-Palatek Desert Air Desiccant Dryer System**

**FEATURES**
- Provides low dew points, and drops relative humidity below 10% consistently
- Dryer housings manufactured from solid aluminum
- Modular design
- Cartridge style regeneration orifices
- Dual outlet and inlet ports
- Dual inlet / auxiliary ports
- Each tower housing has a single piston spool
- Water trap & coalescing filter, standard
- Unloaded shutdown, standard feature

Dual inlet ports and outlet ports provides for easier installation. The unique design of this modular system also allows compressed air to bypass through the inlet chamber for use downstream without having to pass through the drying technology.

**BENEFITS**
- Waterborne ready!
- Does not require buying an entirely new unit to increase your shop’s drying capacity
- Stronger construction; eliminates casting porosity
- Eliminates the need for manifold system
- Provides the ability to customize the performance of your dryer
- 1” NPT ports provide for easier installation options and reduces pressure drop through the dryer
- Allows for filtered air without drying the air for other uses such as breathing air
- Less parts, more reliable, and easy to service

Moisture Minder pneumatic drains automatically actuate with the dryer to eliminate any water and oil trapped by the coalescing filters. Eliminates the need for float drains on our pre-filtration.

Pre-filtration consists of a Sullivan-Palatek water separator and oil coalescing filter. These units can handle up to a quart of liquid per minute for extremely wet and dirty air systems.

Tower mounting stud with built-in regeneration valve. The size of the regeneration orifice controls how much air is used by the system to dry the towers. Reducing air volume and increasing orifice size can provide even lower dew points.

Dryer housings are machined from solid aluminum billet. Hard coat anodize provides superior strength and corrosion resistance.

PLC controller allows for more consistent air flow by staggering tower sequencing.

Single piston spool per tower reduces the number of moving components. Makes for easy maintenance.
## Compressor Technical Data

<table>
<thead>
<tr>
<th>MODEL 60Hz</th>
<th>15D</th>
<th>20D</th>
<th>25D4</th>
<th>25D</th>
<th>30D7</th>
<th>30DG</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>COMPRESSOR DATA</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Capacity, ACFM</td>
<td>55</td>
<td>80</td>
<td>95</td>
<td>110</td>
<td>115</td>
<td>125</td>
</tr>
<tr>
<td>Maximum full load/unload, psig</td>
<td>120/130</td>
<td>120/130</td>
<td>120/130</td>
<td>120/130</td>
<td>120/130</td>
<td>120/130</td>
</tr>
<tr>
<td>Minimum full load, psig</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>60</td>
<td>70</td>
</tr>
<tr>
<td>Motor horsepower</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>25</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Motor speed, RPM</td>
<td>1,750</td>
<td>1,750</td>
<td>1,750</td>
<td>3,550</td>
<td>3,550</td>
<td>1,750</td>
</tr>
<tr>
<td>BHP @ full load</td>
<td>14</td>
<td>21.5</td>
<td>25</td>
<td>27</td>
<td>30</td>
<td>34</td>
</tr>
<tr>
<td>BHP @ 100 psig</td>
<td>13</td>
<td>19.1</td>
<td>22.2</td>
<td>24</td>
<td>28</td>
<td>32</td>
</tr>
<tr>
<td>Driven rotor coupling</td>
<td>Direct</td>
<td>Direct</td>
<td>Direct</td>
<td>Direct</td>
<td>Direct</td>
<td>Direct</td>
</tr>
<tr>
<td>Drive ratio</td>
<td>Direct</td>
<td>Direct</td>
<td>Direct</td>
<td>Direct</td>
<td>Direct</td>
<td>Direct</td>
</tr>
<tr>
<td>Rotor diameter &amp; L/D</td>
<td>108mm x 1.65</td>
<td>108mm x 1.65</td>
<td>108mm x 2.1</td>
<td>108mm x 1.65</td>
<td>108mm x 1.65</td>
<td>108mm x 2.3</td>
</tr>
<tr>
<td><strong>COOLING DATA, AIR COOLED</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fan air flow, CFM</td>
<td>1,000</td>
<td>2,200</td>
<td>2,250</td>
<td>2,600</td>
<td>2,600</td>
<td>4,600</td>
</tr>
<tr>
<td>Max. duct loss, &quot;H2O</td>
<td>0.3</td>
<td>0.3</td>
<td>0.25</td>
<td>0.25</td>
<td>0.25</td>
<td>0.2</td>
</tr>
<tr>
<td>Aftercooler approach degree F</td>
<td>12</td>
<td>12</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>10</td>
</tr>
<tr>
<td>Heat rejection, BTU/hr.</td>
<td>34,700</td>
<td>51,600</td>
<td>59,200</td>
<td>68,500</td>
<td>71,600</td>
<td>81,408</td>
</tr>
<tr>
<td>Fluid capacity</td>
<td>3 gal.</td>
<td>3 gal.</td>
<td>3 gal.</td>
<td>3 gal.</td>
<td>3 gal.</td>
<td>6 gal.</td>
</tr>
<tr>
<td><strong>COOLING DATA, WATER COOLED</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GPM w/60 deg. F. water</td>
<td>1.5</td>
<td>2.3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>GPM w/70 deg. F. water</td>
<td>1.9</td>
<td>2.9</td>
<td>3.7</td>
<td>3.7</td>
<td>3.7</td>
<td>4.4</td>
</tr>
<tr>
<td>GPM w/80 deg. F. water</td>
<td>2.5</td>
<td>3.8</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>6</td>
</tr>
<tr>
<td>Max. water temp., deg. F.</td>
<td>85</td>
<td>85</td>
<td>85</td>
<td>85</td>
<td>85</td>
<td>85</td>
</tr>
<tr>
<td><strong>SOUND DATA (dba @ 1m)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air cooled, open</td>
<td>78</td>
<td>80</td>
<td>81</td>
<td>88</td>
<td>88</td>
<td>82</td>
</tr>
<tr>
<td>Air cooled, enclosed</td>
<td>72</td>
<td>72</td>
<td>74</td>
<td>80</td>
<td>78</td>
<td>78</td>
</tr>
<tr>
<td>Water cooled, open</td>
<td>75</td>
<td>82</td>
<td>77</td>
<td>87</td>
<td>87</td>
<td>80</td>
</tr>
<tr>
<td>Water cooled, enclosed</td>
<td>76</td>
<td>77</td>
<td>73</td>
<td>80</td>
<td>82</td>
<td>70</td>
</tr>
<tr>
<td><strong>DISCHARGE PIPING, (FNPT)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Base mount (@ CDD end)</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
<td>1&quot;</td>
</tr>
<tr>
<td>Tank mount (@ tank end)</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>2&quot;</td>
</tr>
<tr>
<td><strong>ELECTRICAL DATA</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motor, FLA @ 575V</td>
<td>15.4</td>
<td>20.8</td>
<td>27.2</td>
<td>23.2</td>
<td>28.0</td>
<td>31.2</td>
</tr>
<tr>
<td>Motor, FLA @ 460V</td>
<td>19.2</td>
<td>26.0</td>
<td>34.0</td>
<td>29.0</td>
<td>35.0</td>
<td>39</td>
</tr>
<tr>
<td>Motor, FLA @ 230V</td>
<td>38.4</td>
<td>52.0</td>
<td>68.0</td>
<td>58.0</td>
<td>70.0</td>
<td>78</td>
</tr>
<tr>
<td>Motor, FLA @ 208V</td>
<td>42.7</td>
<td>57.5</td>
<td>75.2</td>
<td>64.1</td>
<td>77.4</td>
<td>86.3</td>
</tr>
<tr>
<td>Motor, FLA @ 200V</td>
<td>44.2</td>
<td>59.8</td>
<td>74.0</td>
<td>66.7</td>
<td>89.0</td>
<td>89.7</td>
</tr>
<tr>
<td>Circuit Breaker Control</td>
<td>115 V</td>
<td>115 V</td>
<td>115 V</td>
<td>115 V</td>
<td>115 V</td>
<td>115 V</td>
</tr>
</tbody>
</table>

Descriptions, specifications and pictures represented in this brochure may vary from actual equipment purchased.
Electric Driven Industrial Air Compressors
5-10 HP Belt Driven
15-40 HP Direct Drive
40-100 HP Updraft
SP20 125-300 HP Series
SP32 300-450 HP Series
High and Low Pressure
Variable Frequency Drive Designs
Specialty Packaged Systems

Piston Air Compressors
Splash Lube
Pressure Lube
Gas Driven

Compressed Air Accessories
Refrigerated Air Dryers
Desiccant Air Dryers
Air Filters
Oil Free Systems
Air System Analysis
System Management Solutions
Condensate Management Systems

Air Ends for OEM Applications
Complete line up to meet your needs!

Sullivan-Palatek
1201 W US Hwy 20
Michigan City, IN 46360
PH: 800-438-6203
FX: 800-725-6203
info@palatek.com
www.sullivanpalatek.com

Diesel Driven Portable Air Compressors
185 cfm to 1800 cfm
John Deere, CAT, Cummins,
ISUZU and DEUTZ Engines
3 year Air End Warranty
Utility Models
Offshore Models

High Pressure Portable and Skid
950-1500 cfm at 350-500 psi

Instrument Quality Air
D375 to D1600

NEW Gas Powered, Dual Fuel, 185 cfm Units
Ford and Mitsubishi Engines
Skid Mount Aftercoolers
Skid Mount Dryers and Aftercoolers
Construction Electric Rentals 50-450HP
Electronic Parts Orders Through
SmartEquip™
Full Line of Pneumatic Tools
Hoses and Accessories

Distributed By:

PH: 800-438-6203
FX: 800-725-6203
info@palatek.com
www.sullivanpalatek.com

15-30 CDD 8-14 1/M