100% CORROSION-RESISTANT FUME EXHAUST FANS

Exhaust fans are a critical component of any air pollution control system. KCH Engineered Systems manufacturers a complete line of centrifugal exhaust fans and blowers. Each is built of the highest quality materials to withstand corrosive fumes and gases. Our fans are AMCA Certified and independently tested for performance.

APPLICATIONS
- Municipal Odor Control
- Degasifiers/Aerators
- Corrosive Airstreams

BENEFITS
- Airflows to 70,000 CFM
- 100% Corrosion Resistance
- Quiet Operation
- Backwardly Inclined wheel for non-overloading operation
- POLYLAST®/POLYSTRONG®, FRP or Polypropylene Construction
- AMCA Licensed for Performance
- Dynamically Balanced for smooth operation

Additionally, our VFD Controlled, direct drive fans offer their own unique benefits including:
- Adjustable air flow control
- Smooth startup, ramp up and ramp down
- Elimination of motor starters
- No belts to maintain or replace
- Zero belt loss
- No pulley cost
- Extended bearing and motor life
PRODUCT INFORMATION

KCH Engineered Systems manufactures both direct or v-belt drive fans and exhaust systems, available in twenty different sizes with airflows up to 70,000 CFM. Constructed of POLYLAST®, POLYSTRONG®, FRP, stainless steel and special alloys, our chemical resistant fans can be equipped with variable frequency drives to ramp down airflow when needed.

To better serve our customers, KCH Engineered Systems offers a complete line of replacement parts, including:

- Direct Drive
- Heavy Duty Bearings
- Vibration Isolators
- 316 Stainless Steel Wheels
- 316 Stainless Steel Shafts
- Motors
- Complete Housings
- Coated Steel, Stainless Steel, or Galvanized Frames
- Belt and Shaft Guards
- Flexible Inlet Connectors

APPLICATIONS

- Municipal Odor Control
- Degasifiers/Aerators
- Corrosive Airstreams

BENEFITS

- Airflows to 70,000 CFM
- 100% Corrosion Resistance
- Quiet Operation
- Backwardly Inclined wheel for non-overloading operation
- POLYLAST®/POLYSTRONG®, FRP or Polypropylene Construction
- AMCA Licensed for Performance
- Dynamically Balanced for smooth operation

Additionally, our VFD Controlled, direct drive fans offer their own unique benefits including:

- Adjustable air flow control
- Smooth startup, ramp up and ramp down
- Elimination of motor starters
- No belts to maintain or replace
- Zero belt loss
- No pulley cost
- Extended bearing and motor life
NOTES:
1. USE ARRANGEMENT NO. 9-A ON 30 HP AND BELOW (THIS DRAWING).
2. USE ARRANGEMENT NO. 9-3 ON 40 HP TO 100 HP MOTORS (SEE DRAWING NICERT90).
3. USE ARRANGEMENT NO. 1 ON MOTORS ABOVE 100 HP (SEE DRAWING NICERT98).
4. BOTTOM HORIZONTAL OR DOWNSTAIR DISCHARGE REQUIRES STEEL MODIFICATIONS.

<table>
<thead>
<tr>
<th>FAN NO.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
<th>N</th>
<th>INLET</th>
<th>BOLT HOLES</th>
<th>SHAFT DIA.</th>
<th>KEYWAY IN SHAFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.25</td>
<td>12.75</td>
<td>9.75</td>
<td>10.375</td>
<td>11.297</td>
<td>9.75</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>.500</td>
<td>1.188</td>
<td>.250 X .125</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.5</td>
<td>14.000</td>
<td>10.750</td>
<td>11.063</td>
<td>12.358</td>
<td>10.625</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>.500</td>
<td>1.188</td>
<td>.250 X .125</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>15.625</td>
<td>11.750</td>
<td>11.875</td>
<td>13.703</td>
<td>11.688</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>.500</td>
<td>1.438</td>
<td>.375 X .188</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16.5</td>
<td>17.125</td>
<td>13.125</td>
<td>12.500</td>
<td>14.968</td>
<td>12.625</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>.500</td>
<td>1.438</td>
<td>.375 X .188</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.25</td>
<td>19.000</td>
<td>14.300</td>
<td>13.687</td>
<td>16.609</td>
<td>14.031</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>.500</td>
<td>1.438</td>
<td>.375 X .188</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>20.875</td>
<td>15.875</td>
<td>14.813</td>
<td>18.186</td>
<td>15.375</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>.500</td>
<td>1.438</td>
<td>.375 X .188</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22.5</td>
<td>23.250</td>
<td>17.625</td>
<td>16.189</td>
<td>20.224</td>
<td>17.094</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>.500</td>
<td>1.438</td>
<td>.375 X .188</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24.5</td>
<td>25.500</td>
<td>19.500</td>
<td>17.563</td>
<td>22.281</td>
<td>18.813</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>.625</td>
<td>1.938</td>
<td>.500 X .250</td>
<td></td>
<td></td>
</tr>
<tr>
<td>27</td>
<td>28.125</td>
<td>21.500</td>
<td>19.500</td>
<td>24.594</td>
<td>20.790</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>.625</td>
<td>1.938</td>
<td>.500 X .250</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30</td>
<td>31.250</td>
<td>23.750</td>
<td>21.000</td>
<td>27.594</td>
<td>23.031</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>.625</td>
<td>2.438</td>
<td>.625 X .313</td>
<td></td>
<td></td>
</tr>
<tr>
<td>33</td>
<td>34.375</td>
<td>26.250</td>
<td>22.813</td>
<td>30.000</td>
<td>25.313</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>.625</td>
<td>2.438</td>
<td>.625 X .313</td>
<td></td>
<td></td>
</tr>
<tr>
<td>36.5</td>
<td>38.000</td>
<td>29.000</td>
<td>25.063</td>
<td>33.156</td>
<td>28.000</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>1.50</td>
<td>.625</td>
<td>2.438</td>
<td>.625 X .313</td>
<td></td>
<td></td>
</tr>
<tr>
<td>40.25</td>
<td>42.000</td>
<td>32.000</td>
<td>27.938</td>
<td>36.594</td>
<td>30.875</td>
<td>2.00</td>
<td>43.750</td>
<td>63.000</td>
<td>53.000</td>
<td>58.000</td>
<td>53.000</td>
<td>58.750</td>
<td>1.500</td>
<td>66.000</td>
<td>42.500</td>
<td>.875</td>
<td>2.938</td>
</tr>
<tr>
<td>44.5</td>
<td>46.500</td>
<td>35.375</td>
<td>30.888</td>
<td>40.484</td>
<td>34.156</td>
<td>2.00</td>
<td>44.750</td>
<td>68.875</td>
<td>58.000</td>
<td>61.000</td>
<td>59.125</td>
<td>58.000</td>
<td>58.000</td>
<td>1.500</td>
<td>69.875</td>
<td>47.000</td>
<td>.875</td>
</tr>
<tr>
<td>49</td>
<td>51.125</td>
<td>39.000</td>
<td>34.000</td>
<td>44.563</td>
<td>37.625</td>
<td>2.00</td>
<td>48.000</td>
<td>77.500</td>
<td>64.000</td>
<td>67.000</td>
<td>41.750</td>
<td>53.000</td>
<td>58.000</td>
<td>1.500</td>
<td>80.500</td>
<td>51.625</td>
<td>.875</td>
</tr>
<tr>
<td>54.25</td>
<td>56.500</td>
<td>43.125</td>
<td>37.188</td>
<td>49.513</td>
<td>41.625</td>
<td>2.00</td>
<td>52.000</td>
<td>81.500</td>
<td>69.000</td>
<td>72.000</td>
<td>46.875</td>
<td>53.000</td>
<td>58.000</td>
<td>1.500</td>
<td>84.500</td>
<td>57.250</td>
<td>.875</td>
</tr>
<tr>
<td>60</td>
<td>62.500</td>
<td>47.750</td>
<td>41.188</td>
<td>54.594</td>
<td>46.063</td>
<td>2.00</td>
<td>57.750</td>
<td>86.000</td>
<td>75.000</td>
<td>78.000</td>
<td>51.500</td>
<td>58.000</td>
<td>59.000</td>
<td>1.500</td>
<td>89.000</td>
<td>63.250</td>
<td>1.000</td>
</tr>
</tbody>
</table>