Direct Driven Tube Axial Flow Fans
CAS Series from 560 mm to 1400 mm dia
CAS Areo Foil Tube Axial Fan - Description

Features

- 560 - 1400 mm diameter
- Volume upto 80000 cfm
- High energy efficiency fans
- IP55 Motors protection
- Low Noise levels

Impellers

- High pressure die cast Aluminum Alloy with smoothed hub and clamp plate for adjustable pitch Angle availability to achieve low noise & high efficiency

Casings

- Casings are spun form sheet steel with integral pre-drilled and reduced inlet flanges Continuously welded, heavy gauge, corrosion resistant with an option of enamel/epoxy/powder coated steel housing for its long life.

Motors

- All motors are totally enclosed air stream rated class "F" insulation. Single speed motors are suitable for speed control by voltage regulation where indicated. Three phase motors are suitable or use with Frequency inventors. High Temperature option can be provided for Smoke Exhaust application at different Motor Speed.

Performance

- Fans shall be factory tested, test ratings for air moving devices and shall be guaranteed by the manufacturer to deliver the submitted rated performance levels.

Factory Run Test

- All fans prior to shipment shall be completely assembled and test run as a unit at operating speed or maximum RPM allowed for the particular construction type. Each Impeller shall be statically and dynamically balanced. “Balance Quality and Vibration Levels for Fans”
Guarantee

- The manufacturer shall guarantee the workmanship and materials for its Tube axial fans for at least one (1) year from startup or eighteen (18) months from shipment, whichever occurs first.

Accessories

Wide range of accessories are available on request on additional cost  - Bird screen, mounting feet, flexible connections, vibration isolators and silencer

CAS Series With Flow Configuration "A" is Certified by AMCA International

CRYSTAL AIR SYSTEMS certifies that the Axial Fan Model CAS 560, 710, 900 to 1120 shown herein are licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 211 and AMCA Publication 311 and comply with the requirements of the AMCA Certified Ratings Program.
Dimensions:

CAS Series from Tube Axial Fan from 560 mm to 1400 mm dia.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>N X Pd</th>
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<tr>
<td>CAS 560</td>
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<td>590</td>
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<td>710</td>
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<td>600</td>
<td>745</td>
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<td>20 x 15</td>
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</table>

All dimensions are in mm
Sound Power Level Lwi(A) in dB

<table>
<thead>
<tr>
<th>RPM</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f</th>
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</tbody>
</table>

**Note:**
- Performance certified is for installation type D: Ducted inlet, Ducted outlet.
- Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- Values shown are for inlet 1wA sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.
Sound Power Level Lw(A) in dB

<table>
<thead>
<tr>
<th>RPM</th>
<th>a</th>
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<th>e</th>
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</thead>
<tbody>
<tr>
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- Ratings include the effects of duct end correction.
CAS 560/150/5-5/2
560 mm 2900 rev/min 50 hz

Air Density ρ=1.2 kg/m³

Fan Speed 2900 RPM

Sound Power Level Lwi(A) in dB

<table>
<thead>
<tr>
<th>RPM</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
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Note:
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• Values shown are for inlet 1w1A sound power levels for Installation type D: ducted inlet, ducted outlet.
• Ratings include the effects of duct end correction.
**Fan Speed: 1450 RPM**

**Shaft Power (kW)**

- 2.5
- 2
- 1.5
- 1
- 0.5
- 0

**Volume Flow (m³/h)**

- 0
- 2500
- 5000
- 7500
- 10000
- 12500
- 15000
- 17500
- 20000

**Fan Speed: 1450 RPM**

**Static Pressure (Pa)**

- 400
- 300
- 200
- 100
- 0

**Volume Flow (m³/h)**

- 0
- 2500
- 5000
- 7500
- 10000
- 12500
- 15000
- 17500
- 20000

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**Sound Power Level Lwi (A) in dB(A)**

<table>
<thead>
<tr>
<th>RPM</th>
<th>a</th>
<th>b</th>
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<th>f</th>
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<td>83</td>
<td>89</td>
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<td>91</td>
<td>92</td>
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</tbody>
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**Note:**
- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.

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Model: CAS 630 is not licensed to bear the AMCA Certified Ratings Seal
Sound Power Level LwI (A) in dB(A)

<table>
<thead>
<tr>
<th>RPM</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
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<th>g</th>
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<th>j</th>
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Note:
- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwIA sound power levels for installation Type D-Ducted inlet, Ducted outlet.
Fan Speed: 2900 RPM

Sound Power Level Lw1 (A) in dB(A)

RPM  a  b  c  d  e  f  g  h  i  j  k  l
2900  100 102 101 103 105 106 104 101 103 108 107 105

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* Values shown are for inlet Lw1 sound power levels for installation Type D-Ducted inlet, Ducted outlet.

Model: CAS 630 is not licensed to bear the AMCA Certified Ratings Seal.
Fan Speed 1450 RPM

Sound Power Level Lwi(A) in dB

<table>
<thead>
<tr>
<th>RPM</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f</th>
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<td>95</td>
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Note:
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- Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- Values shown are for inlet 1wA sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.
Fan Speed 960 RPM

Sound Power Level Lw(A) in dB

<table>
<thead>
<tr>
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<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f</th>
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</table>

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- Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- Values shown are for inlet Lw(A) sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.
Sound Power Level Lw(A) in dB

<table>
<thead>
<tr>
<th>RPM</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f</th>
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<td>73</td>
<td>77</td>
<td>76</td>
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Note:
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- Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- Values shown are for inlet Lw(A) sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.
Sound Power Level Lwi (A) in dB(A)

<table>
<thead>
<tr>
<th>RPM</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f</th>
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</table>

Note:
- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.
Sound Power Level Lw(A) in dB(A)

<table>
<thead>
<tr>
<th>RPM</th>
<th>a</th>
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<th>c</th>
<th>d</th>
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<th>f</th>
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<td>90</td>
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</tbody>
</table>

Note:
- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet Lw(A) sound power levels for installation Type D-Ducted inlet, Ducted outlet.

Model: CAS 800 is not licensed to bear the AMCA Certified Ratings Seal
Fan Speed: 725 RPM

Sound Power Level Lwi (A) in dB(A)

<table>
<thead>
<tr>
<th>RPM</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f</th>
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</table>

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* Values shown are for inlet LwA sound power levels for installation Type D-Ducted inlet, Ducted outlet.

Model: CAS 800 is not licensed to bear the AMCA Certified Ratings Seal
Fan Speed 1450 RPM

Sound Power Level Lw(A) in dB

<table>
<thead>
<tr>
<th>RPM</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
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Note:
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- Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- Values shown are for inlet 1w1A sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.
CAS 900/280/6-12/6
900 mm 960 rev/min 50 hz

Fan Speed 960 RPM

<table>
<thead>
<tr>
<th>RPM</th>
<th>a</th>
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<th>c</th>
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<th>e</th>
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</table>

Sound Power Level Lw(A) in dB

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- Values shown are for inlet lwa sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.
Sound Power Level Lw(A) in dB

<table>
<thead>
<tr>
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<th>a</th>
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Sound Power Level Lwi(A) in dB

<table>
<thead>
<tr>
<th>RPM</th>
<th>a</th>
<th>b</th>
<th>c</th>
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<th>e</th>
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### Sound Power Level LwA (dB)

<table>
<thead>
<tr>
<th>RPM</th>
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- Ratings include the effects of duct end correction.
Fan Speed 725 RPM

Sound Power Level Lwi(A) in dB

<table>
<thead>
<tr>
<th>RPM</th>
<th>a</th>
<th>b</th>
<th>c</th>
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Air Density ρ=1.2 kg/m³
**Sound Power Level Lw(A) in dB**

<table>
<thead>
<tr>
<th>RPM</th>
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<th>b</th>
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Sound Power Level Lw(A) in dB

<table>
<thead>
<tr>
<th>RPM</th>
<th>960</th>
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Air Density p=1.2 kg/m³
Sound Power Level Lwi(A) in dB

<table>
<thead>
<tr>
<th>RPM</th>
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<td>86</td>
<td>87</td>
<td>89</td>
<td>89</td>
<td>93</td>
<td>90</td>
<td>88</td>
<td>88</td>
</tr>
</tbody>
</table>

Note:
- Performance certified is for installation type D - Ducted inlet, Ducted outlet.
- Performance ratings do not include the effects of appurtenances (accessories).
- The A-weighted sound ratings shown have been calculated per AMCA International Standard 301.
- Values shown are for inlet lwiA sound power levels for installation type D: ducted inlet, ducted outlet.
- Ratings include the effects of duct end correction.
Fan Speed: 1450 RPM

Shaft Power (kW) vs Volume Flow (m³/h)

Fan Speed: 1450 RPM
Air Density 1.2 kg m⁻³/s

Static Pressure (Pa) vs Volume Flow (m³/h)

Sound Power Level Lwi (A) in dB(A)

<table>
<thead>
<tr>
<th>RPM</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>
</tr>
</thead>
<tbody>
<tr>
<td>1450</td>
<td>107</td>
<td>108</td>
<td>110</td>
<td>112</td>
<td>108</td>
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<td>111</td>
<td>114</td>
<td>115</td>
<td>114</td>
<td>112</td>
</tr>
</tbody>
</table>

Note:
- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.

Model: CAS 1250 is not licensed to bear the AMCA Certified Ratings Seal
CAS 1250/280/6-12/6
1250 mm 960 rev/min 50 Hz

Fan Speed: 960 RPM

<table>
<thead>
<tr>
<th>RPM</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>
</tr>
</thead>
<tbody>
<tr>
<td>1450</td>
<td>107</td>
<td>108</td>
<td>110</td>
<td>111</td>
<td>108</td>
<td>110</td>
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<td>115</td>
<td>116</td>
<td>114</td>
<td>111</td>
</tr>
</tbody>
</table>

Note:
- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwA sound power levels for installation Type D-Ducted inlet, Ducted outlet.

Model: CAS 1250 is not licensed to bear the AMCA Certified Ratings Seal

www.crystalairsystems.co.in
Sound Power Level Lwi (A) in dB(A)  

<table>
<thead>
<tr>
<th>RPM</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
<th>e</th>
<th>f</th>
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<td>88</td>
<td>89</td>
<td>90</td>
<td>91</td>
<td>95</td>
<td>91</td>
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<td>97</td>
<td>94</td>
<td>98</td>
<td>96</td>
<td>99</td>
</tr>
</tbody>
</table>

**Note:**  
* Performance ratings do not include the effects of appurtenances (accessories).  
* Values shown are for inlet LwiA sound power levels for installation Type D-Ducted inlet, Ducted outlet.

Model: CAS 1250 is not licensed to bear the AMCA Certified Ratings Seal.
CAS 1400/350/14-14/8
1400 mm 725 rev/min 50 hz

Fan Speed : 725 RPM

Shaft Power (kW) vs. Volume Flow (m³/h)

Fan Speed : 725 RPM
Air Density 1.2 kg/m³

Static Pressure (Pa) vs. Volume Flow (m³/h)

Sound Power Level Lwi (A) in dB(A)

<table>
<thead>
<tr>
<th>RPM</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>l</th>
</tr>
</thead>
<tbody>
<tr>
<td>725</td>
<td>92</td>
<td>94</td>
<td>95</td>
<td>96</td>
<td>98</td>
<td>97</td>
<td>96</td>
<td>98</td>
<td>98</td>
</tr>
</tbody>
</table>

Note:
- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwA sound power levels for installation Type D-Ducted inlet, Ducted outlet.

Model: CAS 1400 is not licensed to bear the AMCA Certified Ratings Seal
Fan Speed: 960 RPM

Sound Power Level Lwi (A) in dB(A)

<table>
<thead>
<tr>
<th>RPM</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>l</th>
</tr>
</thead>
<tbody>
<tr>
<td>960</td>
<td>103</td>
<td>102</td>
<td>104</td>
<td>105</td>
<td>104</td>
<td>108</td>
<td>106</td>
<td>109</td>
<td>106</td>
</tr>
</tbody>
</table>

Note:
- Performance ratings do not include the effects of appurtenances (accessories).
- Values shown are for inlet LwIA sound power levels for installation Type D-Ducted inlet, Ducted outlet.

Model: CAS 1400 is not licensed to bear the AMCA Certified Ratings Seal