



WING TON FAN INDUSTRY LIMITED



YS SERIES AXIAL FLOW FANS

CATA-AMCA-YS JANUARY ,2021



YS SERIES ADJUSTABLE PITCH AXIAL FLOW FANS

Wing Ton Fan Industry Limited certifies that

the Axial Flow Fan – YS240, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1250 and 1500 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.

The AMCA Certified Ratings Seal applies to FEG for Models YS400, 450, 500, 560, 630, 710, 800, 900, 1000, 1250 and 1500 only.

The AMCA Certified Ratings Seal applies to air performance and sound for Models YS240, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1250 and 1500 only.



For YS240,315,355



For YS400,450,500,560,630,710,800,900,
1000,1250 and 1500

The **YS Series** of axial flow fans is available in an extensive range of variants and air flow performance. They can be manufactured to handle most conditions from ambient air and can be ordered in 14 sizes (240, 315, 355, 400, 450, 500, 560, 630, 710, 800, 900, 1000, 1250 and 1500mm) diameter. They are available in direct drive type.



Typical Applications Commercial and industrial supply or exhaust air applications such as shopping centers, office buildings and car parks, through to industrial processes and equipment ventilation.

FEATURE

A. CASING

- Standard casings are made of steel
- Coated by strong epoxy powder.
- Equipped with complete flange and mounting feet.
- Casings can be stainless steel or durable hot-dipped galvanized steel can be supplied at request.

B. IMPELLER

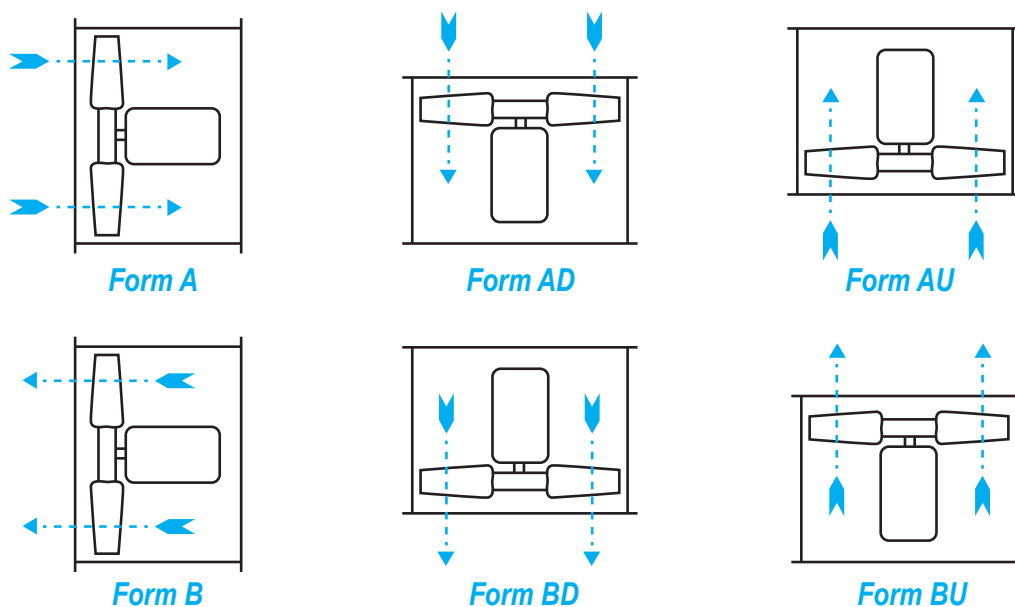
- Most of the impellers are adjustable pitch aero foil section. (except 250 and 300mm)
- Impeller material is made of die cast aluminum.
- With a specific impeller pitch angle, it ensures selections can be made accurately to the specification.

C. MOTOR

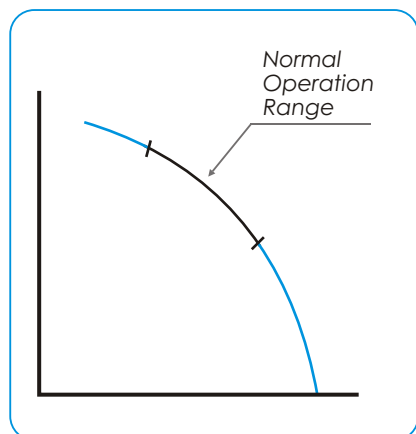
- The standard motors used are foot or pad mounted.
- For normal duty, the motors are of squirrel cage, induction motors to suit virtually any application.
- They are fitted with ball or roller bearings which are fully enclosed and sealed-for life and therefore do not require maintenance.
- Motors are generally wound for 380V/3ph/50Hz or 220V/1ph/50Hz.
- Insulation to Class F with Class B temperature rise is used throughout, allowing for operation in ambient up to +40°C.

D. DIRECTION OF AIRFLOW

- The standard direction of air flow is Form B, BD and BU. However, Form A, AD and AU can be supplied if required. Motors operating at BD, DU, AD and AU require up thrust bearing. Please inform us in advance if the fans are installed vertically.



Performance for Form B airflow direction are not licensed by AMCA International



The achieved fan performances can differ from the test performances shown on the subsequent due to two main effects:-

- A.) The encroachment of irregular or abrupt changes within the system close to the fan. If good design practice is followed, then the fan will receive nearly uniform air into its inlet and discharge its air flow in an almost ideal pattern. If this is achieved the fan will perform to its expected level.
- B.) Changes to the internal elements of the fan: e.g. large junction boxes on motors, belt drive stacks or excessive blade tip clearances.

Tests were conducted to assess these effects and the generalised impact is shown below for fan selections made within the normal operating region over a wide blade-angle range.



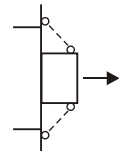
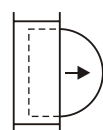
Other Fan Arrangement

Some required duty pressure should be adjusted to account for the below gains / losses before making a selection on the standard performance curves.

| Fan Arrangement | Effect on pressure capability | Effect on Total sound level |
|---|-------------------------------|-----------------------------|
| Single stage fan unit with downstream guide vanes | x 1.25 | + 1dB |
| Two stage fan unit with intermediate straightener | x 2.00 | + 3dB |
| Contra-rotating two stage fan unit | x 2.4 | + 8 to 10dB |
| Bifurcated fan unit | x 0.7 | + 2dB |

* Performance for single stage fan unit with downstream guide vanes, two stage fan unit with intermediate straightener, contra-rotating two stage fan unit and Bifurcated fan unit are not licensed by AMCA International.

Standard Accessory Losses

| | | |
|---|---|--|
| Low loss inlet cone |  | k'loss 0.2 Form 'A' 0.38 Form B |
| Flat 'finger type' guard |  | k'loss 0.75 |
| Coned motor side guard |  | k'loss 0.4 |
| Non return dampers (airstream) operated |  | k'loss 0.3 ~ 0.4 |

* Performance for accessory losses are not licensed by AMCA International.

BELT DRIVEN TYPE AXIAL FLOW FANS (YP SERIES)

- The YP Series of axial flow fans is available in an extensive range of variants and air flow performance.
- In this instance the casing covers the entire length of the impeller and v-belt drive. Motor is mounted outside the fan case.
- They can be manufactured to handle most conditions from ambient air to hot, corrosive or explosive gases and can be ordered in 14 sizes extending from 240 to 1500mm diameter.
- These units of generally specified when it is important to keep the motor away from the airstream generated due either to temperature or the nature of the gases being processed. An additional advantage is that by correctly specifying the positioning of the motor ease of maintenance is assured.
- Commercial and industrial supply or exhaust air applications such as shopping centers, office buildings and car parks, through to industrial processes and equipment ventilation.
- To overcome the duty pressure losses, additional 30% duty pressure should be adjusted to account for the loss before making a selection on the standard performance curves. +2dB will be adjusted due to the effect on total sound level.
- Performance of AP Series Axial Flow Fans are not licensed by AMCA International.

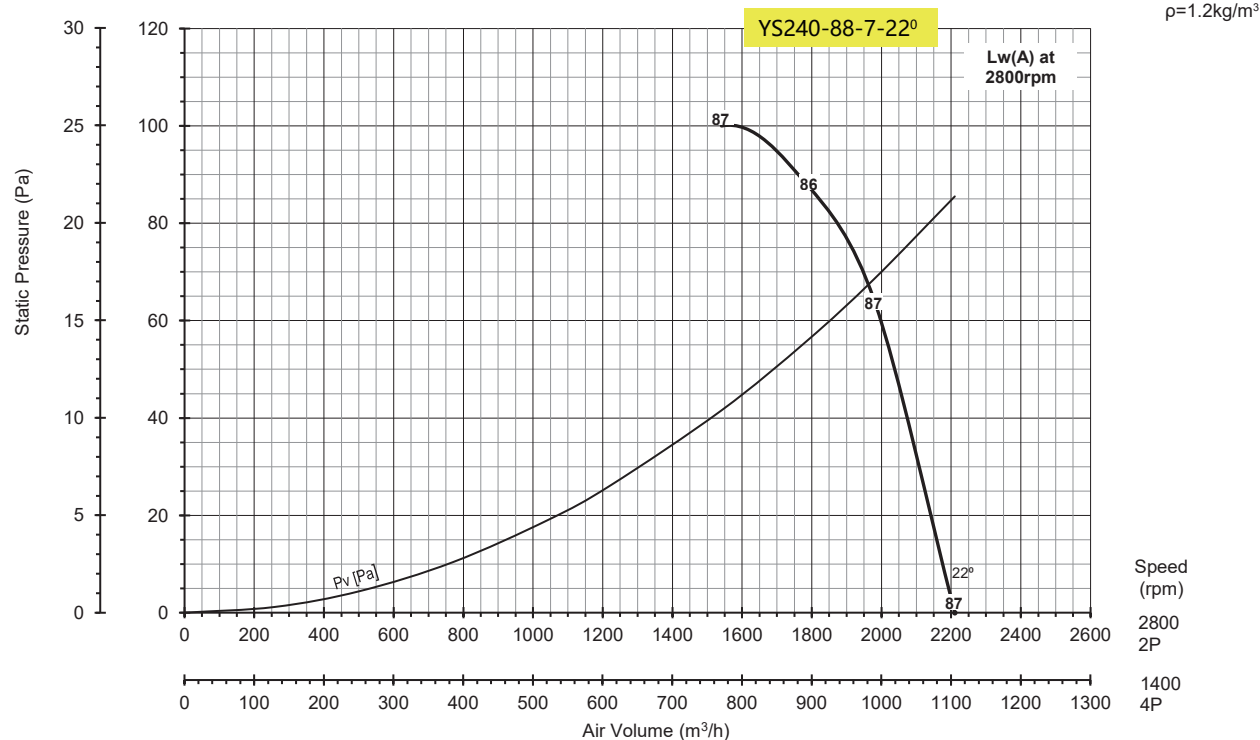


BIFURCATED TYPE AXIAL FLOW FANS (YB SERIES)

- Bifurcated fans are ideal for exhausting or recirculating fumes, gases and hot air up to 80 ° C (NT) or 200 ° C (HT) continuous operation. They can be ordered in 11 sizes extending from 400 to 1500mm diameter.
- Bifurcated axial fans are used in situations where it is important that the motor is kept out of the airstream (though with suitable access to ambient air) due to the type or temperature of the gases/fumes involved.
- Compared to direct drive axial types, bifurcated fans have the following advantages:
- Higher temperature ratings / Isolation of motor from heat or contaminants in the airstream / Easier maintenance.
- To overcome the duty pressure losses, additional 30% duty pressure should be adjusted to account for the loss before making a selection on the standard performance curves. +2dB will be adjusted due to the effect on total sound level.
- Performance of YB Series Axial Flow Fans are not licensed by AMCA International.



YS SERIES AXIAL FLOW FAN



| Model No | Speed(RPM) | Blade Angle | Motor(Kw) | Peak Absorbed Power(Kw) | LwA dB(A) |
|---------------|------------|-------------|-----------|-------------------------|-----------|
| YS240-88-7-22 | 1400 | 22 | 0.07 | 0.036 | -19 |
| | 2800 | | 0.37 | 0.288 | 0 |

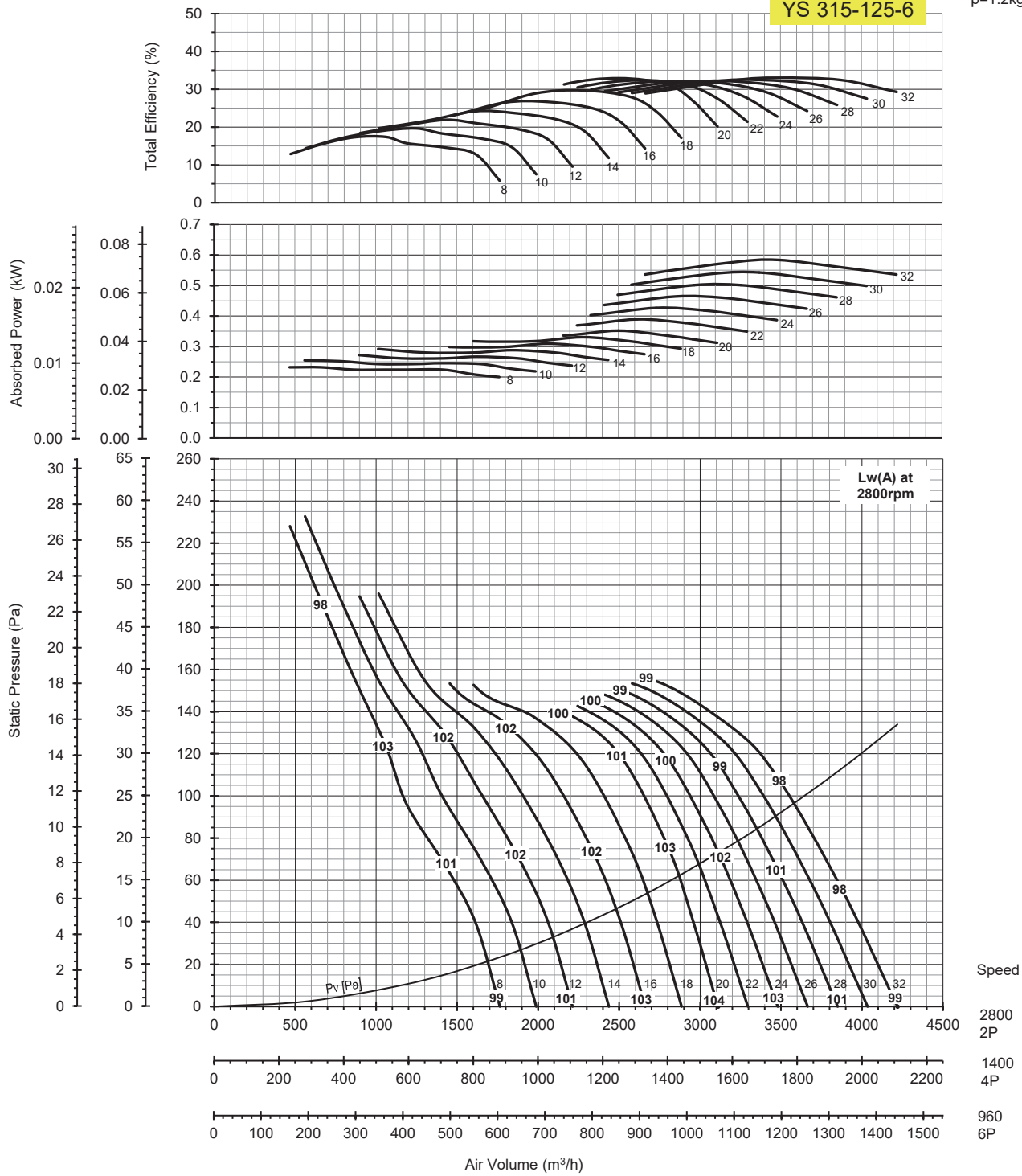
* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

YS SERIES AXIAL FLOW FAN

YS 315-125-6

$\rho=1.2\text{kg/m}^3$



| At 960 RPM | | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS315-H-6/0.18-6 | 8 | 0.18 | 0.009 |
| | 10 | | 0.010 |
| | 12 | | 0.011 |
| | 14 | | 0.012 |
| | 16 | | 0.012 |
| | 18 | | 0.014 |
| | 20 | | 0.014 |
| | 22 | | 0.016 |
| | 24 | | 0.017 |
| | 26 | | 0.019 |
| | 28 | | 0.020 |
| | 30 | | 0.022 |
| | 32 | | 0.024 |
| LwA dB(A) | -29 | | |

| | At 1400 RPM | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS315-H-6/0.18-4 | 8 | 0.18 | 0.029 |
| | 10 | | 0.032 |
| | 12 | | 0.034 |
| | 14 | | 0.037 |
| | 16 | | 0.039 |
| | 18 | | 0.042 |
| | 20 | | 0.044 |
| | 22 | | 0.049 |
| | 24 | | 0.053 |
| | 26 | | 0.058 |
| | 28 | | 0.063 |
| | 30 | | 0.068 |
| | 32 | | 0.073 |
| LwA dB(A) | -18 | | |

| At 2800 RPM | | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS315-H-6/0.37-2 | 8 | 0.37 | 0.232 |
| | 10 | | 0.255 |
| | 12 | | 0.272 |
| | 14 | | 0.292 |
| | 16 | | 0.309 |
| | 18 | | 0.336 |
| YS315-H-6/0.55-2 | 20 | 0.55 | 0.352 |
| | 22 | | 0.389 |
| | 24 | | 0.427 |
| | 26 | | 0.464 |
| | 28 | | 0.501 |
| | 30 | | 0.543 |
| YS315-H-6/0.75-2 | 32 | 0.75 | 0.584 |
| LwA dB(A) | 0 | | |

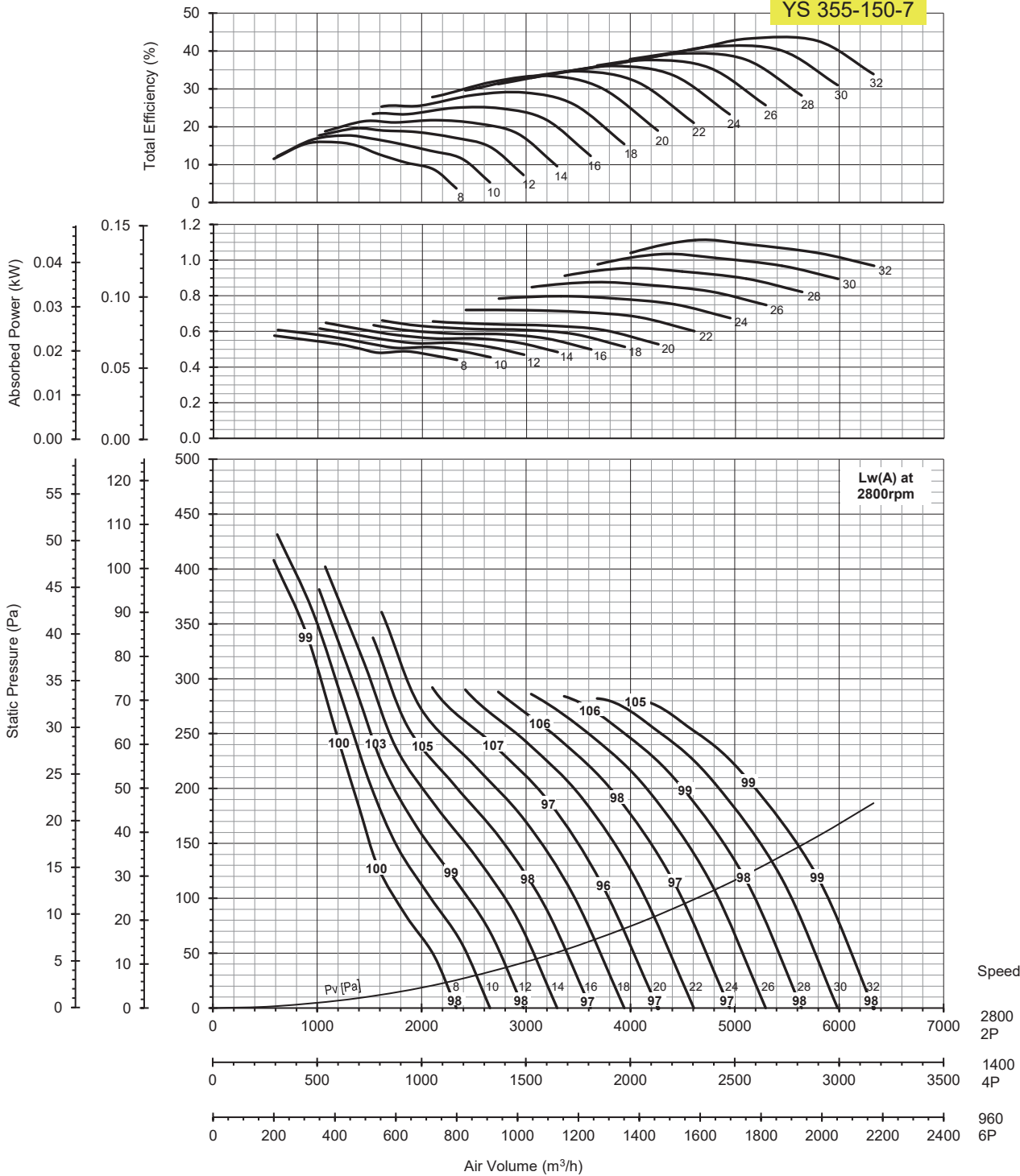
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YS SERIES AXIAL FLOW FAN

$\rho=1.2\text{kg/m}^3$

YS 355-150-7



| | At 960 RPM | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS355-H-7/0.18-6 | 8 | 0.18 | 0.023 |
| | 10 | | 0.025 |
| | 12 | | 0.025 |
| | 14 | | 0.026 |
| | 16 | | 0.026 |
| | 18 | | 0.027 |
| | 20 | | 0.026 |
| | 22 | | 0.029 |
| | 24 | | 0.032 |
| | 26 | | 0.035 |
| | 28 | | 0.038 |
| | 30 | | 0.042 |
| | 32 | | 0.045 |
| LwA dB(A) | -30 | | |

| | At 1400 RPM | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS355-H-7/0.18-4 | 8 | 0.18 | 0.072 |
| | 10 | | 0.076 |
| | 12 | | 0.077 |
| | 14 | | 0.081 |
| | 16 | | 0.079 |
| | 18 | | 0.083 |
| | 20 | | 0.082 |
| | 22 | | 0.090 |
| | 24 | | 0.100 |
| | 26 | | 0.110 |
| | 28 | | 0.119 |
| | 30 | | 0.129 |
| | 32 | | 0.139 |
| LwA dB(A) | -20 | | |

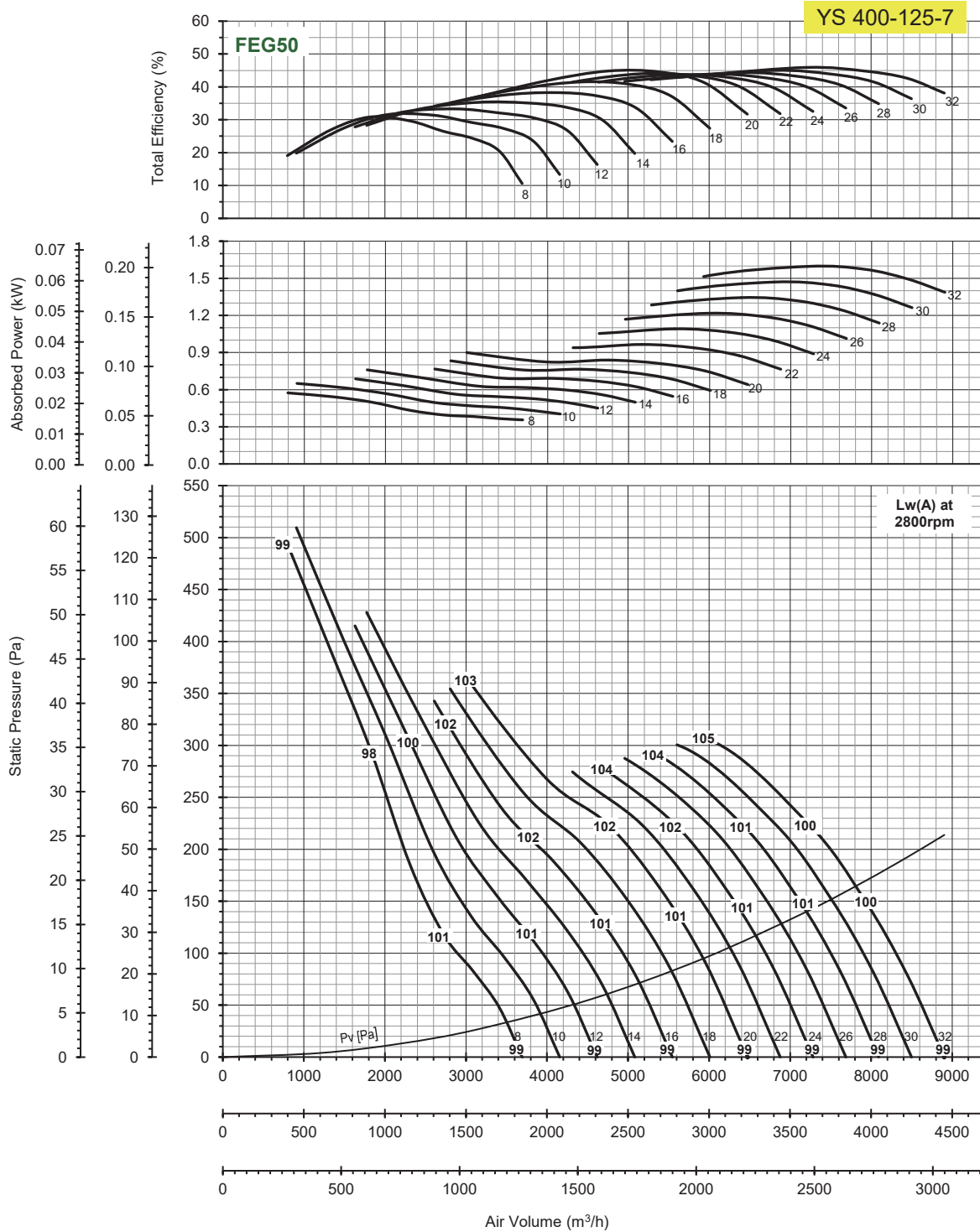
| At 2800 RPM | | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS355-H-7/0.75-2 | 8 | 0.75 | 0.576 |
| | 10 | | 0.608 |
| | 12 | | 0.616 |
| | 14 | | 0.648 |
| | 16 | | 0.635 |
| | 18 | | 0.661 |
| YS355-H-7/0.11-2 | 20 | 1.1 | 0.656 |
| | 22 | | 0.720 |
| | 24 | | 0.797 |
| | 26 | | 0.876 |
| YS355-H-7/1.5-2 | 28 | 1.5 | 0.955 |
| | 30 | | 1.033 |
| LwA dB(A) | 32 | 1.5 | 1.112 |
| LwA dB(A) | 0 | | |

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* 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.

YS SERIES AXIAL FLOW FAN

$\rho=1.2\text{kg/m}^3$



| At 960 RPM | | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS400-H-7/0.18-6 | 8 | 0.18 | 0.023 |
| | 10 | | 0.026 |
| | 12 | | 0.028 |
| | 14 | | 0.031 |
| | 16 | | 0.031 |
| | 18 | | 0.034 |
| | 20 | | 0.037 |
| | 22 | | 0.039 |
| | 24 | | 0.044 |
| | 26 | | 0.049 |
| | 28 | | 0.054 |
| | 30 | | 0.059 |
| | 32 | | 0.064 |
| LwA dB(A) | | -28 | |

| At 1400 RPM | | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS400-H-7/0.18-4 | 8 | 0.18 | 0.072 |
| | 10 | | 0.081 |
| | 12 | | 0.086 |
| | 14 | | 0.095 |
| | 16 | | 0.096 |
| | 18 | | 0.104 |
| | 20 | | 0.114 |
| | 22 | | 0.121 |
| | 24 | | 0.136 |
| | 26 | | 0.152 |
| | 28 | | 0.168 |
| | 30 | | 0.184 |
| | 32 | | 0.200 |
| LwA dB(A) | | -18 | |

| At 2800 RPM | | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS400-H-7/0.75-2 | 8 | 0.75 | 0.574 |
| | 10 | | 0.651 |
| | 12 | | 0.688 |
| YS400-H-7/1.1-2 | 14 | 1.1 | 0.760 |
| | 16 | | 0.770 |
| | 18 | | 0.833 |
| | 20 | | 0.910 |
| | 22 | | 0.965 |
| | 24 | | 1.091 |
| YS400-H-7/1.5-2 | 26 | 1.5 | 1.218 |
| | 28 | | 1.344 |
| | 30 | | 1.470 |
| YS400-H-7/2.2-2 | 32 | 2.2 | 1.596 |
| LwA dB(A) | | 0 | |

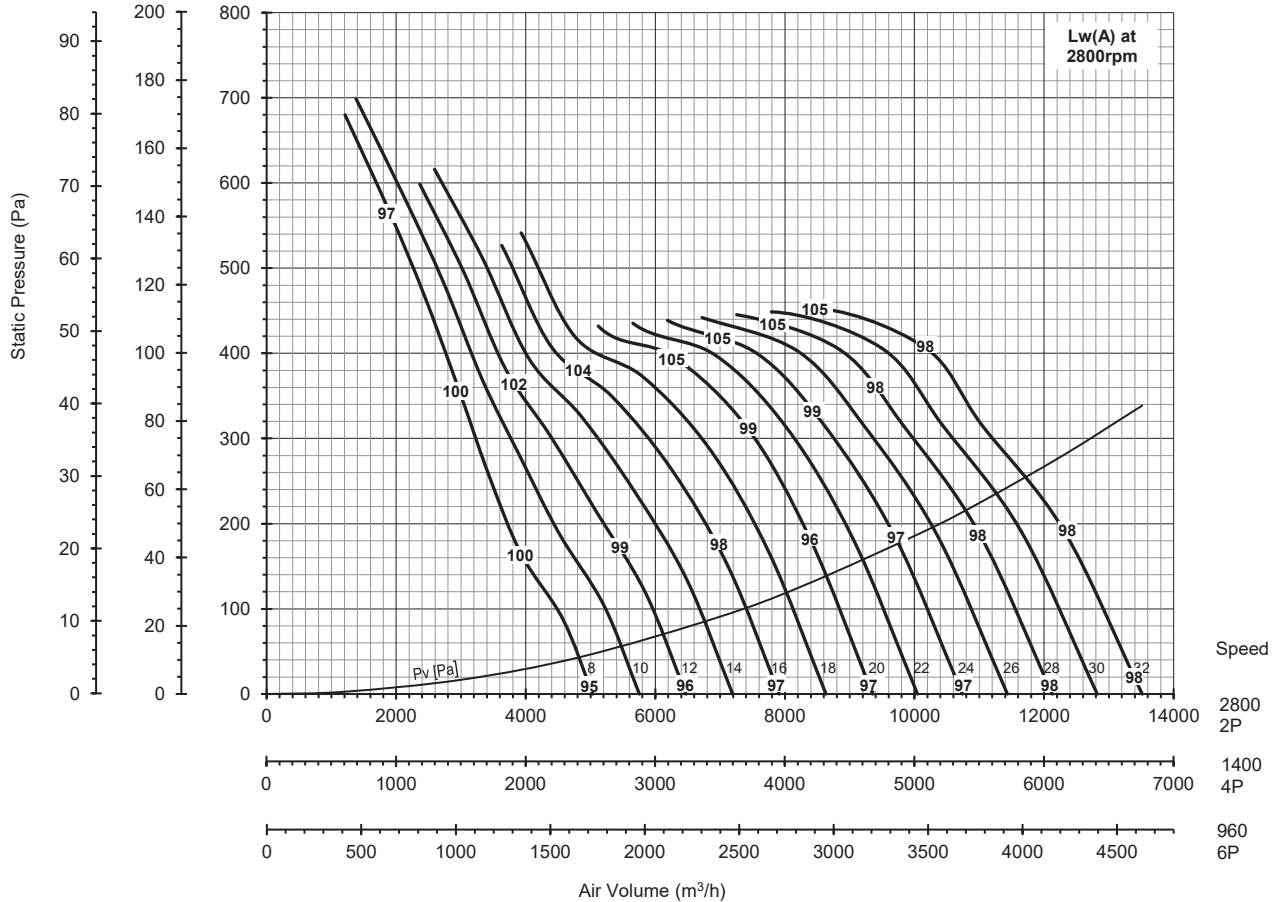
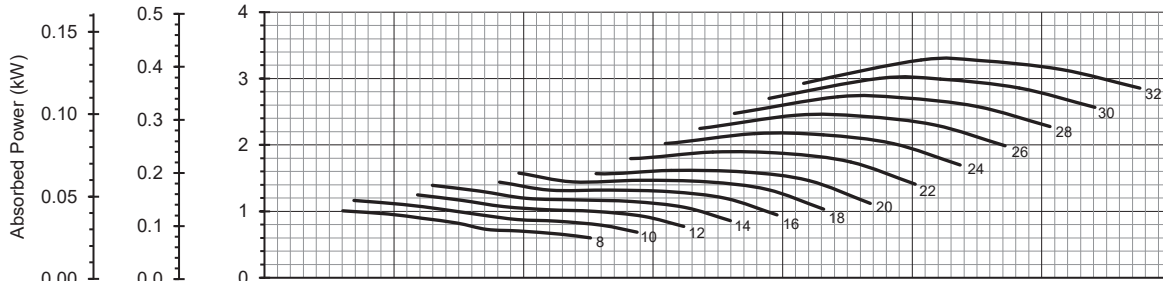
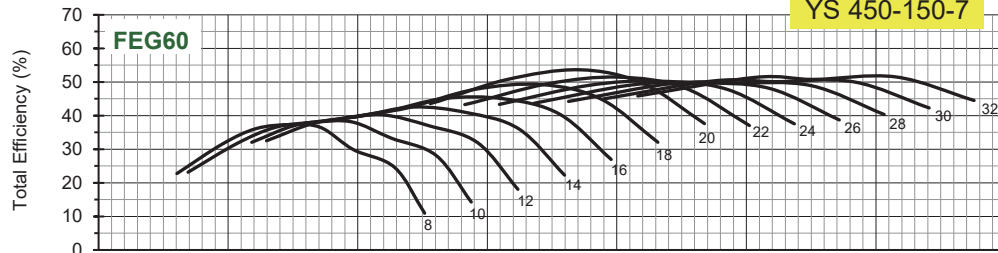
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YS SERIES AXIAL FAN

YS 450-150-7

$\rho=1.2\text{kg/m}^3$



| | At 960 RPM | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS450-H-7/0.18-6 | 8 | 0.18 | 0.041 |
| | 10 | | 0.047 |
| | 12 | | 0.050 |
| | 14 | | 0.056 |
| | 16 | | 0.058 |
| | 18 | | 0.064 |
| | 20 | | 0.065 |
| | 22 | | 0.076 |
| | 24 | | 0.087 |
| | 26 | | 0.099 |
| | 28 | | 0.110 |
| | 30 | | 0.121 |
| | 32 | | 0.132 |
| LwA d(BA) | -28 | | |

| | At 1400 RPM | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorber Power (Kw) |
| YS450-H-7/0.18-4 | 8 | 0.18 | 0.126 |
| | 10 | | 0.146 |
| | 12 | | 0.156 |
| | 14 | | 0.174 |
| YS450-H-7/0.37-4 | 16 | 0.37 | 0.180 |
| | 18 | | 0.197 |
| | 20 | | 0.202 |
| | 22 | | 0.237 |
| | 24 | | 0.271 |
| | 26 | | 0.306 |
| | 28 | | 0.341 |
| | 30 | | 0.375 |
| YS450-H-7/0.55-4 | 32 | 0.55 | 0.410 |
| | | | |
| LwA dB(A) | -19 | | |

| | At 2800 RPM | | |
|-----------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS450-H-7/1.1-2 | 8 | 1.1 | 1.008 |
| YS450-H-7/1.5-2 | 10 | 1.5 | 1.164 |
| | 12 | | 1.248 |
| | 14 | | 1.392 |
| | 16 | | 1.440 |
| YS450-H-7/2.2-2 | 18 | 2.2 | 1.576 |
| | 20 | | 1.616 |
| | 22 | | 1.893 |
| | 24 | | 2.171 |
| YS450-H-7/3-2 | 26 | 3 | 2.448 |
| | 28 | | 2.725 |
| YS450-H-7/4-2 | 30 | 4 | 3.003 |
| | 32 | | 3.280 |
| LWA dB(A) | 0 | | |

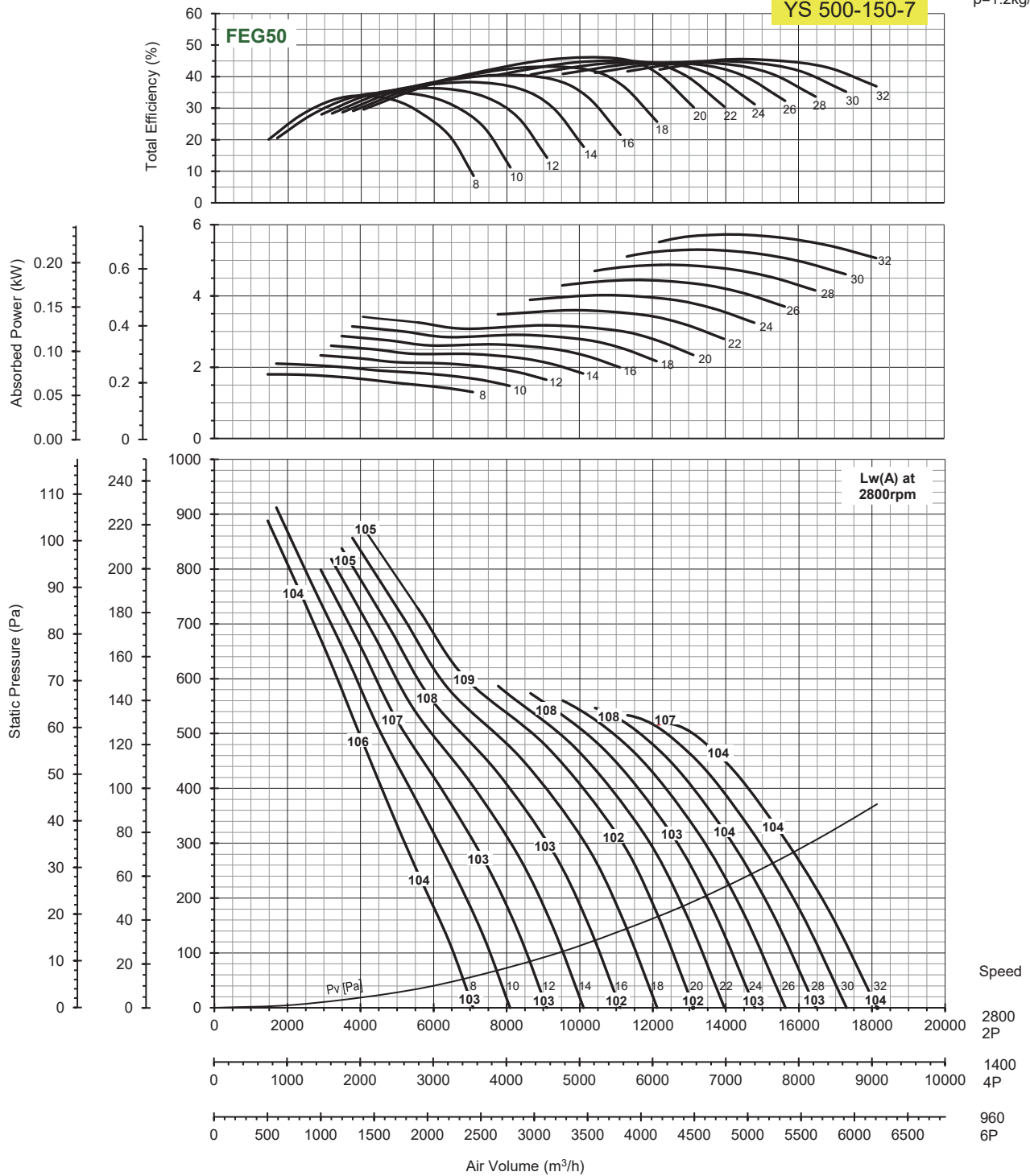
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YS SERIES AXIAL FLOW FAN

YS 500-150-7

$\rho=1.2\text{kg/m}^3$



| At 960 RPM | | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS500-H-7/0.18-6 | 8 | 0.18 | 0.073 |
| | 10 | | 0.085 |
| | 12 | | 0.094 |
| | 14 | | 0.105 |
| | 16 | | 0.116 |
| | 18 | | 0.127 |
| | 20 | | 0.138 |
| | 22 | | 0.145 |
| | 24 | | 0.162 |
| | 26 | | 0.179 |
| YS500-H-7/0.37-6 | 28 | 0.37 | 0.196 |
| | 30 | | 0.213 |
| | 32 | | 0.231 |
| LwA dB(A) | | -25 | |

| At 1400 RPM | | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS500-H-7/0.37-4 | 8 | 0.37 | 0.226 |
| | 10 | | 0.263 |
| | 12 | | 0.292 |
| | 14 | | 0.326 |
| | 16 | | 0.359 |
| YS500-H-7/0.55-4 | 18 | 0.55 | 0.393 |
| | 20 | | 0.427 |
| | 22 | | 0.450 |
| | 24 | | 0.503 |
| | 26 | | 0.556 |
| YS500-H-7/0.75-4 | 28 | 0.75 | 0.609 |
| | 30 | | 0.662 |
| | 32 | | 0.715 |
| LwA dB(A) | | -16 | |

| At 2800 RPM | | | |
|-----------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS500-H-7/2.2-2 | 8 | 2.2 | 1.810 |
| | 10 | | 2.101 |
| YS500-H-7/3-2 | 12 | 3 | 2.333 |
| | 14 | | 2.604 |
| | 16 | | 2.875 |
| YS500-H-7/4-2 | 18 | 4 | 3.145 |
| | 20 | | 3.416 |
| | 22 | | 3.600 |
| | 24 | | 4.024 |
| YS500-H-7/5.5-2 | 26 | 5.5 | 4.448 |
| | 28 | | 4.872 |
| | 30 | | 5.296 |
| | 32 | | 5.720 |
| LwA dB(A) | | 0 | |

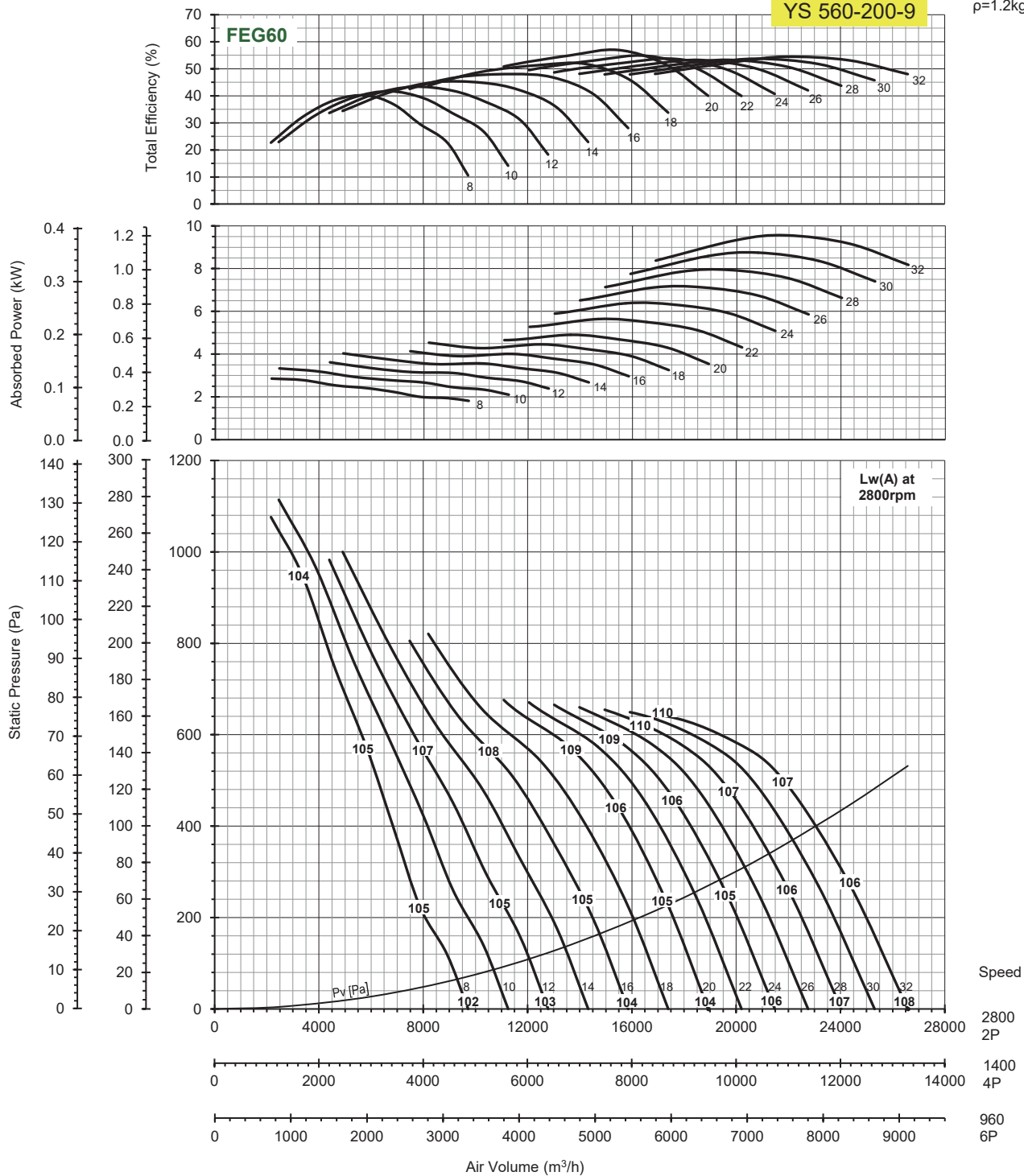
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YS SERIES AXIAL FLOW FAN

YS 560-200-9

$\rho=1.2\text{kg/m}^3$



| At 960 RPM | | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS560-H-9/0.18-6 | 8 | 0.18 | 0.115 |
| | 10 | | 0.134 |
| | 12 | | 0.146 |
| | 14 | | 0.163 |
| | 16 | | 0.167 |
| YS560-H-9/0.37-6 | 18 | 0.37 | 0.183 |
| | 20 | | 0.198 |
| | 22 | | 0.227 |
| | 24 | | 0.257 |
| | 26 | | 0.287 |
| | 28 | | 0.320 |
| | 30 | | 0.353 |
| YS560-H-9/0.55-6 | 32 | 0.55 | 0.385 |
| LwA dB(A) | -28 | | |

| At 1400 RPM | | | |
|------------------|-----------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS560-H-9/0.37-4 | 8 | 0.37 | 0.357 |
| YS560-H-9/0.55-4 | 10 | 0.55 | 0.417 |
| | 12 | | 0.452 |
| | 14 | | 0.505 |
| | 16 | | 0.517 |
| YS560-H-9/0.75-4 | 18 | 0.75 | 0.567 |
| | 20 | | 0.613 |
| | 22 | | 0.705 |
| | 24 | | 0.797 |
| YS560-H-9/1.1-4 | 26 | 1.1 | 0.891 |
| | 28 | | 0.992 |
| | 30 | | 1.094 |
| | YS560-H-9/1.5-4 | | 32 |
| LwA dB(A) | -17 | | |

| At 2800 RPM | | | |
|-----------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS560-H-9/3-2 | 8 | 3 | 2.856 |
| YS560-H-9/4-2 | 10 | 4 | 3.332 |
| | 12 | | 3.619 |
| YS560-H-9/5.5-2 | 14 | 5.5 | 4.036 |
| | 16 | | 4.136 |
| | 18 | | 4.536 |
| | 20 | | 4.904 |
| YS560-H-9/7.5-2 | 22 | 7.5 | 5.641 |
| | 24 | | 6.379 |
| | 26 | | 7.124 |
| | 28 | | 7.936 |
| YS560-H-9/11-2 | 30 | 11 | 8.748 |
| | 32 | | 9.560 |
| LwA dB(A) | 0 | | |

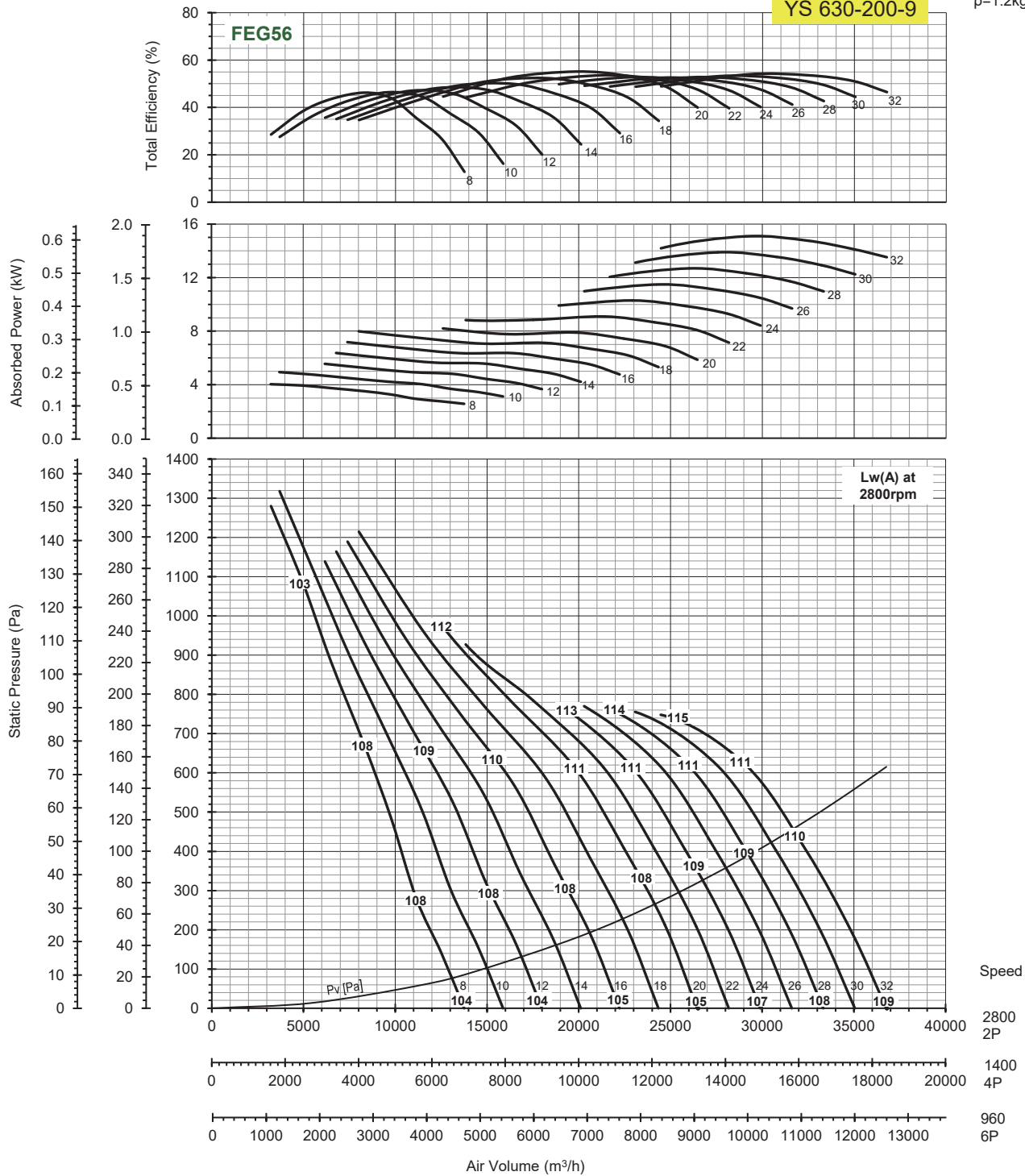
* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of aperturancs (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. 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.

YS SERIES AXIAL FLOW FAN

YS 630-200-9

$\rho=1.2\text{kg/m}^3$



| | At 960 RPM | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS630-H-9/0.18-6 | 8 | 0.18 | 0.163 |
| YS630-H-9/0.37-6 | 10 | 0.37 | 0.199 |
| | 12 | | 0.224 |
| | 14 | | 0.257 |
| | 16 | | 0.289 |
| | 18 | | 0.322 |
| | 20 | | 0.330 |
| YS630-H-9/0.55-6 | 22 | 0.55 | 0.367 |
| | 24 | | 0.415 |
| | 26 | | 0.463 |
| YS630-H-9/0.75-6 | 28 | 0.75 | 0.511 |
| | 30 | | 0.560 |
| | 32 | | 0.608 |
| LwA dB(A) | -27 | | |

| At 1400 RPM | | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS630-H-9/0.55-4 | 8 | 0.55 | 0.504 |
| YS630-H-9/0.75-4 | 10 | 0.75 | 0.617 |
| | 12 | | 0.695 |
| | 14 | | 0.796 |
| YS630-H-9/1.1-4 | 16 | 1.1 | 0.897 |
| | 18 | | 0.999 |
| | 20 | | 1.025 |
| | 22 | | 1.137 |
| YS630-H-9/1.5-4 | 24 | 1.5 | 1.287 |
| | 26 | | 1.437 |
| | 28 | | 1.586 |
| | 30 | | 1.736 |
| YS630-H-9/2.2-4 | 32 | 2.2 | 1.886 |
| LwA dB(A) | -17 | | |

| At 2800 RPM | | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS630-H-9/5.5-2 | 8 | 5.5 | 4.032 |
| | 10 | | 4.936 |
| | 12 | | 5.557 |
| YS630-H-9/7.5-2 | 14 | 7.5 | 6.368 |
| | 16 | | 7.179 |
| | 18 | | 7.989 |
| YS630-H-9/11-2 | 20 | 11 | 8.200 |
| | 22 | | 9.905 |
| | 24 | | 10.29 |
| | 26 | | 11.49 |
| YS630-H-9/15-2 | 28 | 15 | 12.69 |
| | 30 | | 13.89 |
| | 32 | | 15.09 |
| YS630-H-9/18.5-2 | 32 | 18.5 | 15.09 |
| LwA dB(A) | 0 | | |

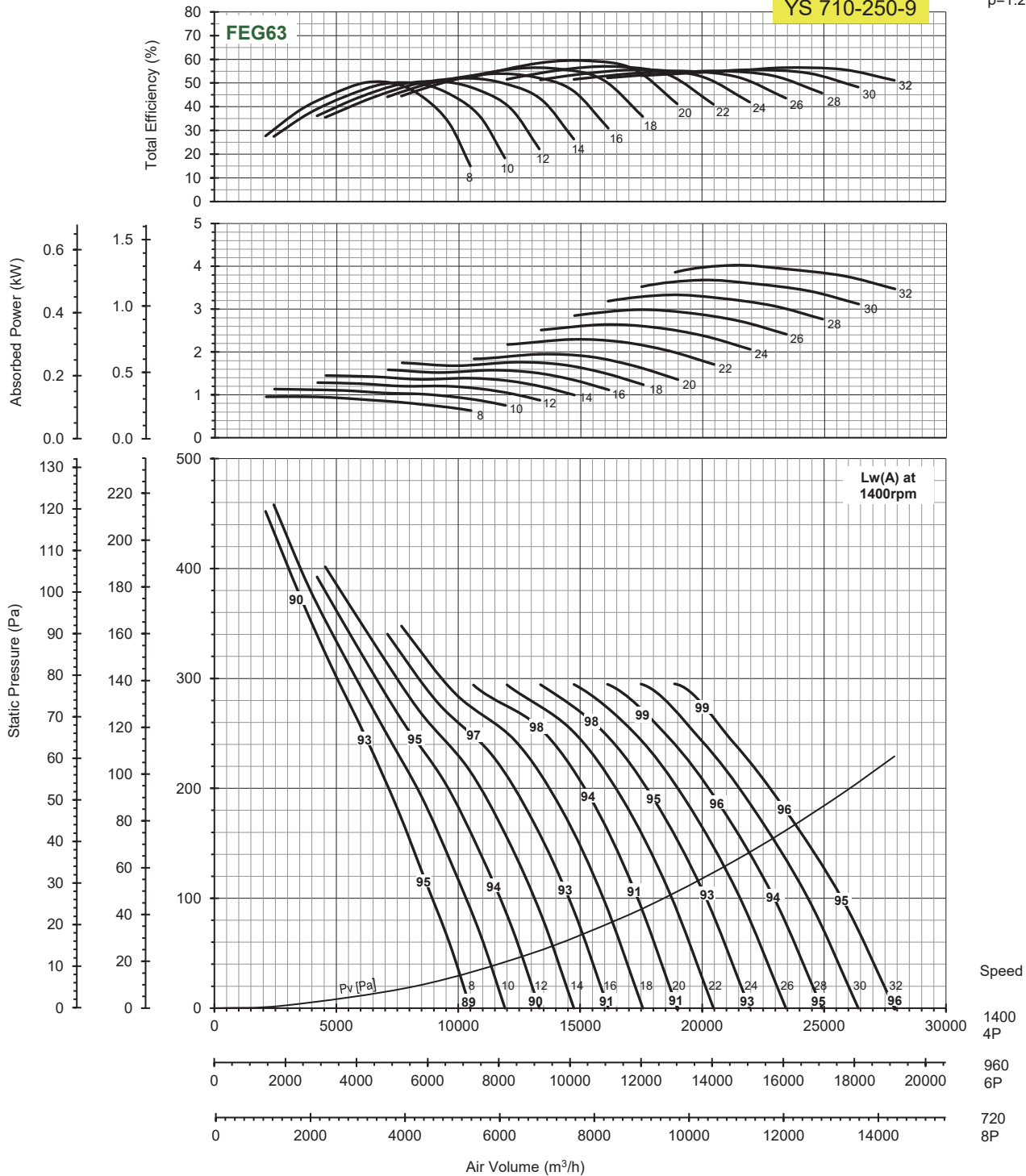
* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

YS SERIES AXIAL FLOW FAN

YS 710-250-9

$\rho=1.2\text{kg/m}^3$



| At 720 RPM | | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS710-H-9/0.18-8 | 8 | 0.18 | 0.130 |
| | 10 | | 0.154 |
| | 12 | | 0.175 |
| YS710-H-9/0.37-8 | 14 | 0.37 | 0.197 |
| | 16 | | 0.216 |
| | 18 | | 0.240 |
| | 20 | | 0.265 |
| | 22 | | 0.312 |
| YS710-H-9/0.55-8 | 24 | 0.55 | 0.359 |
| | 26 | | 0.406 |
| | 28 | | 0.453 |
| | 30 | | 0.500 |
| | 32 | | 0.547 |
| LwA dB(A) | -17 | | |

| At 960 RPM | | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS710-H-9/0.37-6 | 8 | 0.37 | 0.309 |
| | 10 | | 0.366 |
| | 12 | | 0.415 |
| YS710-H-9/0.55-6 | 14 | 0.55 | 0.468 |
| | 16 | | 0.511 |
| | 18 | | 0.568 |
| YS710-H-9/0.75-6 | 20 | 0.75 | 0.628 |
| | 22 | | 0.740 |
| | 24 | | 0.851 |
| | 26 | | 0.963 |
| YS710-H-9/1.1-6 | 28 | 1.1 | 1.075 |
| | 30 | | 1.186 |
| | 32 | | 1.298 |
| LwA dB(A) | -10 | | |

| At 1400 RPM | | | |
|-----------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS710-H-9/1.1-4 | 8 | 1.1 | 0.957 |
| YS710-H-9/1.5-4 | 10 | 1.5 | 1.134 |
| | 12 | | 1.286 |
| | 14 | | 1.451 |
| YS710-H-9/2.2-4 | 16 | 2.2 | 1.586 |
| | 18 | | 1.762 |
| | 20 | | 1.948 |
| | 22 | | 2.294 |
| YS710-H-9/3-4 | 24 | 3 | 2.640 |
| | 26 | | 2.987 |
| | 28 | | 3.333 |
| YS710-H-9/4-4 | 30 | 4 | 3.679 |
| | 32 | | 4.025 |
| LwA dB(A) | 0 | | |

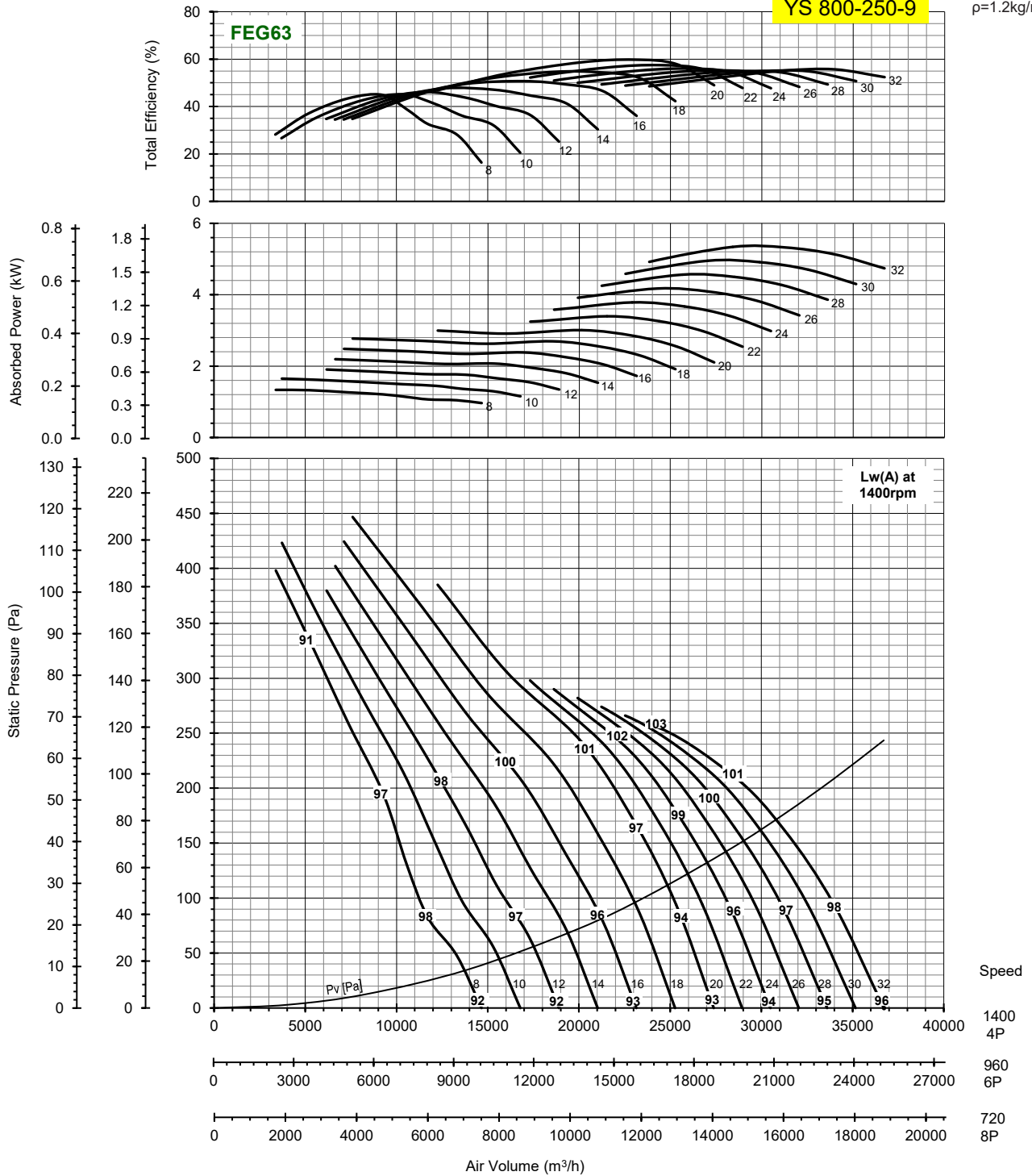
* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

YS SERIES AXIAL FLOW FAN

YS 800-250-9

$\rho=1.2\text{kg/m}^3$



| | At 720 RPM | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS800-H-9/0.37-8 | 8 | 0.37 | 0.181 |
| | 10 | | 0.224 |
| | 12 | | 0.259 |
| | 14 | | 0.298 |
| | 16 | | 0.338 |
| YS800-H-9/0.55-8 | 18 | 0.55 | 0.377 |
| | 20 | | 0.409 |
| | 22 | | 0.462 |
| | 24 | | 0.515 |
| YS800-H-9/0.75-8 | 26 | 0.75 | 0.568 |
| | 28 | | 0.621 |
| | 30 | | 0.673 |
| | 32 | | 0.726 |
| LwA dB(A) | -16 | | |

| At 960 RPM | | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS800-H-9/0.55-6 | 8 | 0.55 | 0.430 |
| | 10 | | 0.532 |
| | 12 | | 0.614 |
| | 14 | | 0.707 |
| YS800-H-9/1.1-6 | 16 | 1.1 | 0.801 |
| | 18 | | 0.894 |
| | 20 | | 0.970 |
| | 22 | | 1.095 |
| YS800-H-9/1.5-6 | 24 | 1.5 | 1.220 |
| | 26 | | 1.345 |
| | 28 | | 1.471 |
| | 30 | | 1.596 |
| YS800-H-9/2.2-6 | 32 | 2.2 | 1.721 |
| LwA dB(A) | -10 | | |

| | At 1400 RPM | | |
|-----------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS800-H-9/1.5-4 | 8 | 1.5 | 1.334 |
| YS800-H-9/2.2-4 | 10 | 2.2 | 1.650 |
| | 12 | | 1.905 |
| | 14 | | 2.194 |
| YS800-H-9/3-4 | 16 | 3 | 2.483 |
| | 18 | | 2.773 |
| | 20 | | 3.007 |
| YS800-H-9/4-4 | 22 | 4 | 3.396 |
| | 24 | | 3.784 |
| | 26 | | 4.173 |
| YS800-H-9/5.5-4 | 28 | 5.5 | 4.562 |
| | 30 | | 4.950 |
| | 32 | | 5.339 |
| | LwA dB(A) | | 0 |

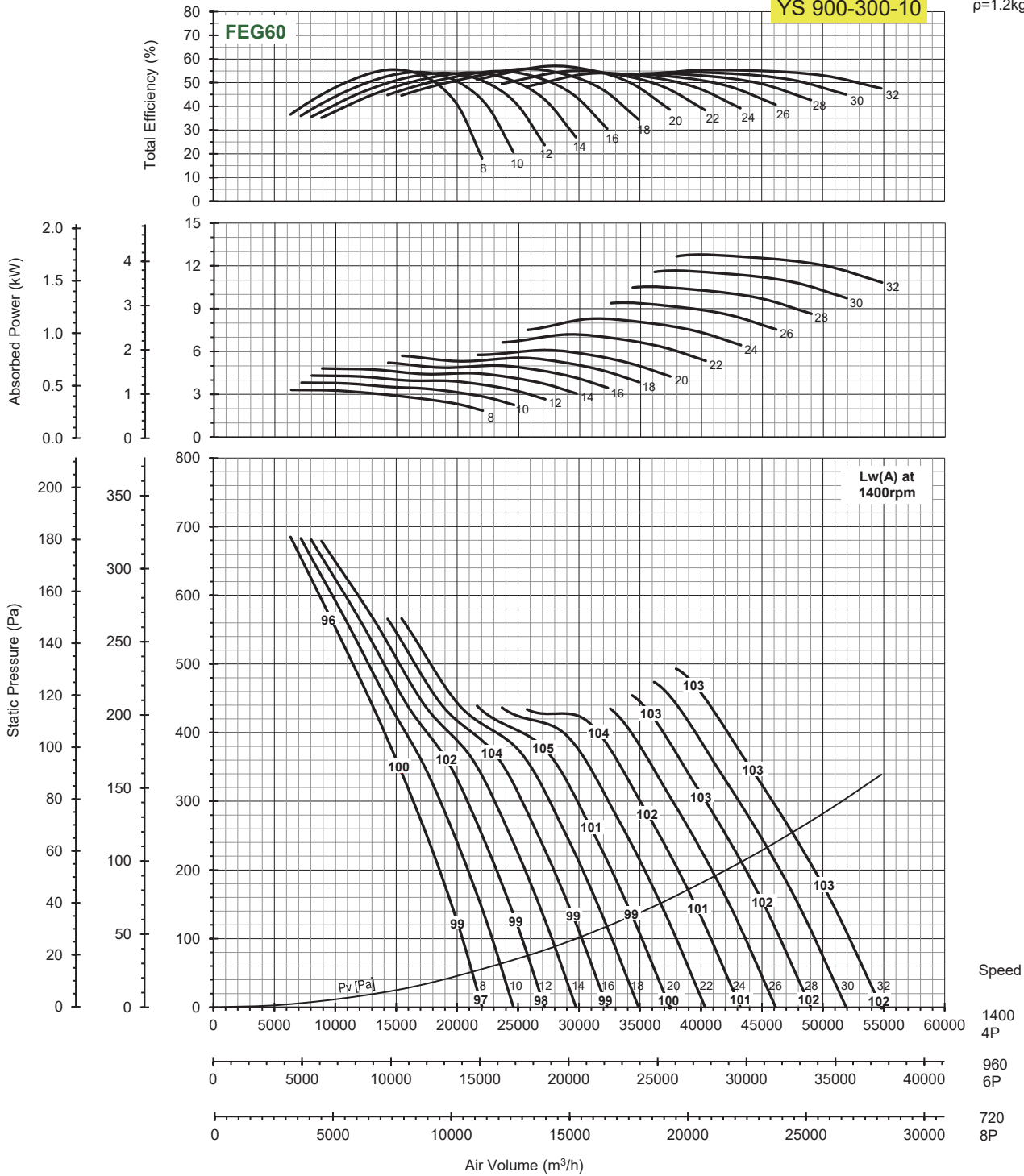
* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

YS SERIES AXIAL FLOW FAN

YS 900-300-10

$\rho=1.2\text{kg/m}^3$



| At 720 RPM | | | |
|-------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS900-H-10/0.55-8 | 8 | 0.55 | 0.451 |
| | 10 | | 0.519 |
| | 12 | | 0.587 |
| YS900-H-10/0.75-8 | 14 | 0.75 | 0.655 |
| | 16 | | 0.710 |
| | 18 | | 0.776 |
| YS900-H-10/1.1-8 | 20 | 1.1 | 0.830 |
| | 22 | | 0.979 |
| | 24 | | 1.128 |
| YS900-H-10/1.5-8 | 26 | 1.5 | 1.277 |
| | 28 | | 1.426 |
| | 30 | | 1.575 |
| YS900-H-10/2.2-8 | 32 | 2.2 | 1.724 |
| LwA dB(A) | -16 | | |

| At 960 RPM | | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS900-H-10/1.1-6 | 8 | 1.1 | 1.069 |
| | 10 | | 1.230 |
| | 12 | | 1.392 |
| YS900-H-10/1.5-6 | 14 | 1.5 | 1.553 |
| | 16 | | 1.682 |
| | 18 | | 1.839 |
| YS900-H-10/2.2-6 | 20 | 2.2 | 1.967 |
| | 22 | | 2.320 |
| | 24 | | 2.673 |
| YS900-H-10/3-6 | 26 | 3 | 3.027 |
| | 28 | | 3.380 |
| | 30 | | 3.733 |
| YS900-H-10/7.5-6 | 32 | 7.5 | 4.086 |
| LwA dB(A) | -10 | | |

| At 1400 RPM | | | |
|------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS900-H-10/4-4 | 8 | 4 | 3.316 |
| | 10 | | 3.816 |
| | 12 | | 4.316 |
| YS900-H-10/5.5-4 | 14 | 5.5 | 4.816 |
| | 16 | | 5.218 |
| | 18 | | 5.703 |
| YS900-H-10/7.5-4 | 20 | 7.5 | 6.101 |
| | 22 | | 7.196 |
| | 24 | | 8.291 |
| YS900-H-10/11-4 | 26 | 11 | 9.387 |
| | 28 | | 10.48 |
| | 30 | | 11.58 |
| YS900-H-10/15-4 | 32 | 15 | 12.67 |
| LwA dB(A) | 0 | | |

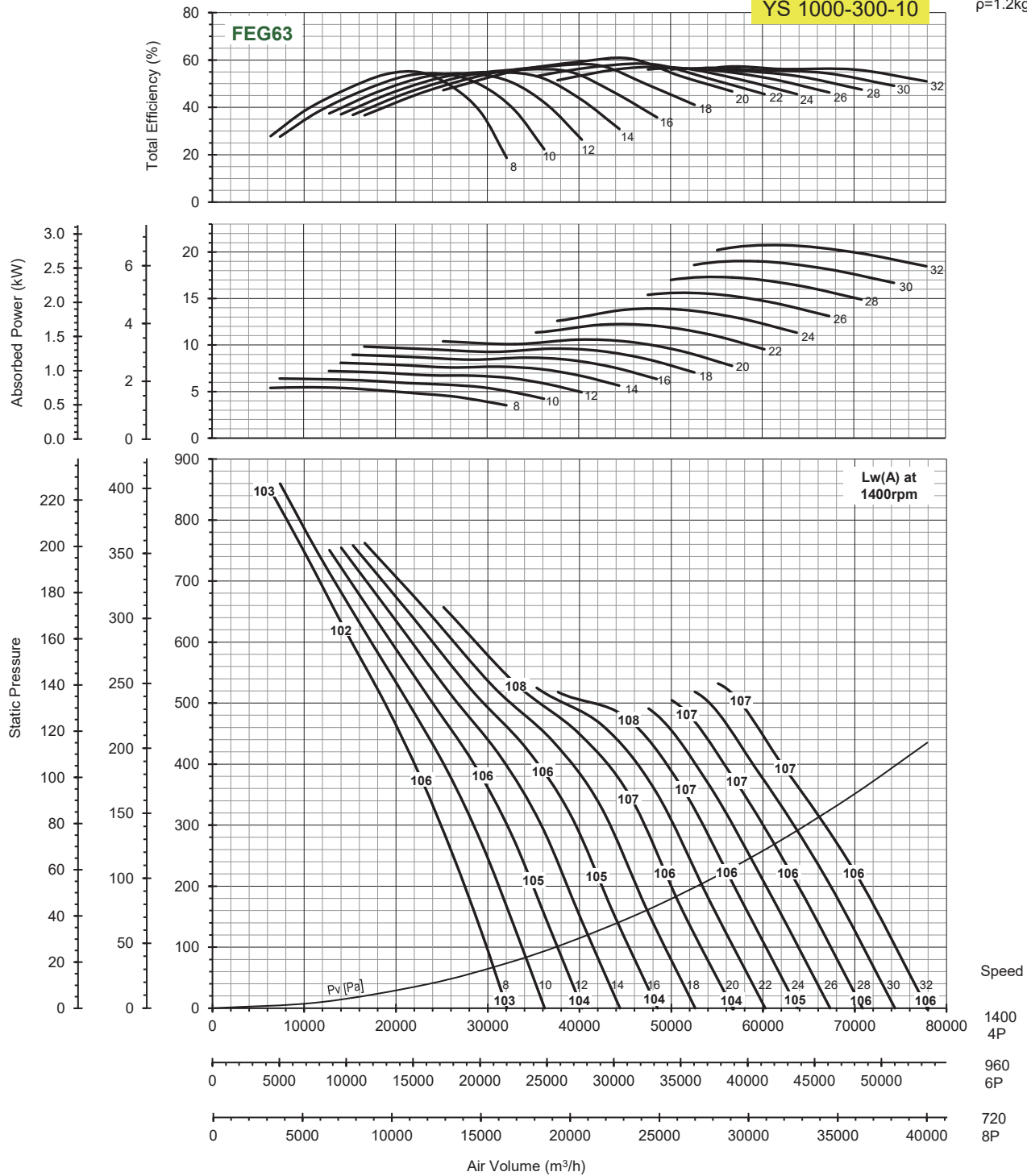
* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

YS SERIES AXIAL FLOW FAN

YS 1000-300-10

$\rho=1.2\text{kg/m}^3$



| At 720 RPM | | | |
|--------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS1000-H-10/0.75-8 | 8 | 0.75 | 0.743 |
| YS1000-H-10/1.1-8 | 10 | 1.1 | 0.871 |
| | 12 | | 0.981 |
| | 14 | | 1.100 |
| YS1000-H-10/1.5-8 | 16 | 1.5 | 1.219 |
| | 18 | | 1.338 |
| | 20 | | 1.440 |
| YS1000-H-10/2.2-8 | 22 | 2.2 | 1.658 |
| | 24 | | 1.878 |
| | 26 | | 2.113 |
| | 28 | | 2.349 |
| YS1000-H-10/3-8 | 30 | 3 | 2.584 |
| | 32 | | 2.820 |
| LwA dB(A) | -17 | | |

| At 960 RPM | | | |
|-------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS1000-H-10/2.2-6 | 8 | 2.2 | 1.762 |
| | 10 | | 2.064 |
| | 12 | | 2.325 |
| YS1000-H-10/3-6 | 14 | 3 | 2.607 |
| | 16 | | 2.889 |
| | 18 | | 3.171 |
| YS1000-H-10/4-6 | 20 | 4 | 3.413 |
| | 22 | | 3.929 |
| YS1000-H-10/5.5-6 | 24 | 5.5 | 4.451 |
| | 26 | | 5.009 |
| | 28 | | 5.568 |
| YS1000-H-10/7.5-6 | 30 | 7.5 | 6.126 |
| | 32 | | 6.684 |
| LwA dB(A) | -10 | | |

| At 1400 RPM | | | |
|--------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS1000-H-10/5.5-4 | 8 | 5.5 | 5.464 |
| YS1000-H-10/7.5-4 | 10 | 7.5 | 6.402 |
| | 12 | | 7.212 |
| | 14 | | 8.087 |
| YS1000-H-10/11-4 | 16 | 11 | 8.961 |
| | 18 | | 9.835 |
| | 20 | | 10.58 |
| YS1000-H-10/15-4 | 22 | 15 | 12.19 |
| | 24 | | 13.80 |
| YS1000-H-10/18.5-4 | 26 | 18.5 | 15.54 |
| | 28 | | 17.27 |
| YS1000-H-10/22-4 | 30 | 22 | 19.00 |
| | 32 | | 20.73 |
| LwA dB(A) | 0 | | |

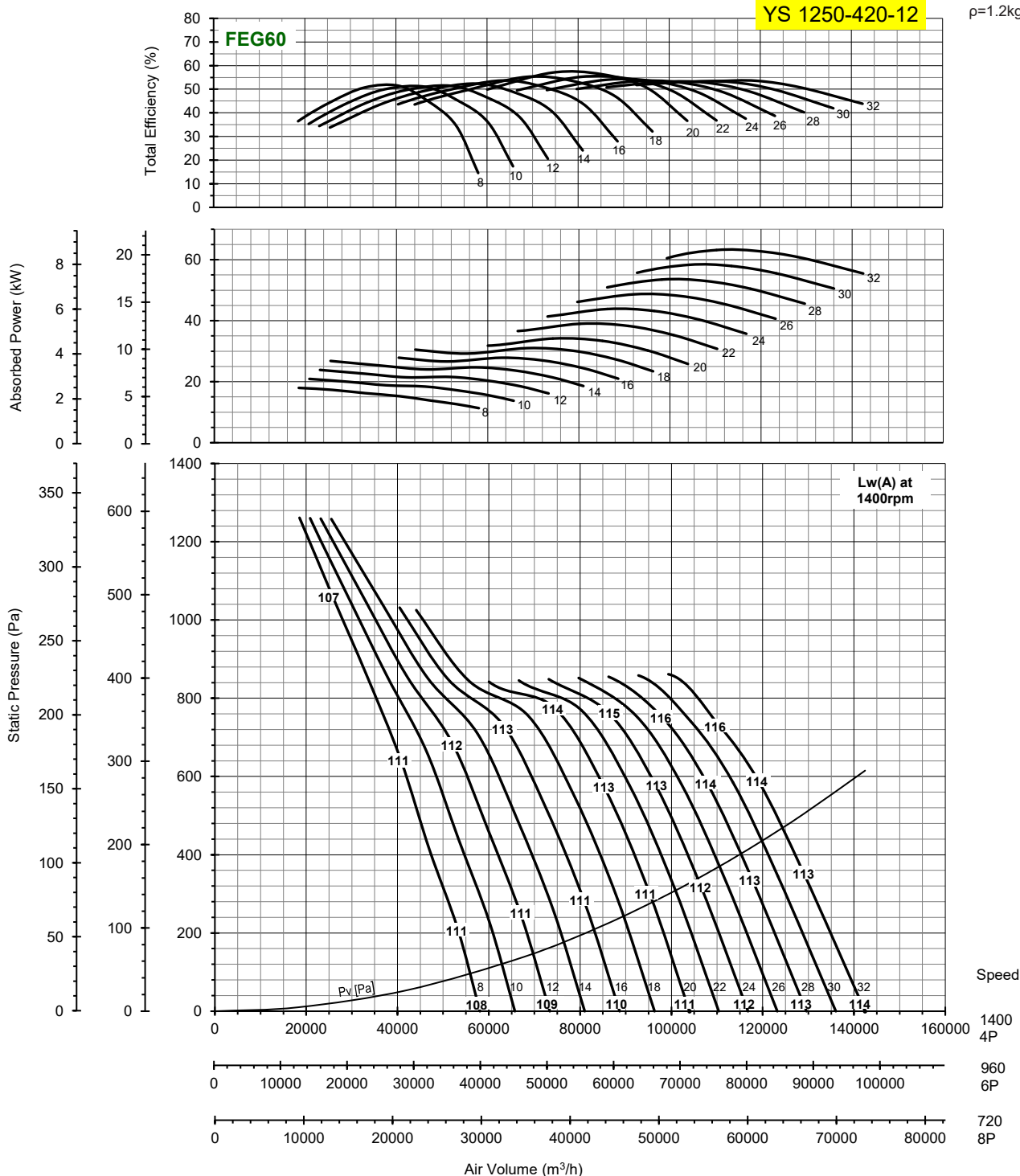
* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

YS SERIES AXIAL FLOW FAN

YS 1250-420-12

$\rho=1.2\text{kg/m}^3$



| At 720 RPM | | | |
|-------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS1250-H-12/3-8 | 8 | 3 | 2.444 |
| | 10 | | 2.845 |
| | 12 | | 3.246 |
| YS1250-H-12/4-8 | 14 | 4 | 3.646 |
| | 16 | | 3.792 |
| | 18 | | 4.218 |
| YS1250-H-12/5.5-8 | 20 | 5.5 | 4.647 |
| | 22 | | 5.305 |
| | 24 | | 5.962 |
| YS1250-H-12/7.5-8 | 26 | 7.5 | 6.620 |
| | 28 | | 7.277 |
| | 30 | | 7.935 |
| YS1250-H-12/11-8 | 32 | 11 | 8.593 |
| LwA dB(A) | -16 | | |

| At 960 RPM | | | |
|--------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS1250-H-12/7.5-6 | 8 | 7.5 | 5.793 |
| | 10 | | 6.743 |
| | 12 | | 7.693 |
| YS1250-H-12/11-6 | 14 | 11 | 8.643 |
| | 16 | | 8.989 |
| | 18 | | 9.999 |
| YS1250-H-12/15-6 | 20 | 15 | 11.02 |
| | 22 | | 12.57 |
| | 24 | | 14.13 |
| YS1250-H-12/18.5-6 | 26 | 18.5 | 15.69 |
| | 28 | | 17.25 |
| | 30 | | 18.81 |
| YS1250-H-12/22-6 | 32 | 22 | 20.37 |
| LwA dB(A) | -9 | | |

| | At 1400 RPM | | |
|--------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS1250-H-12/18.5-4 | 8 | 18.5 | 17.97 |
| YS1250-H-12/22-4 | 10 | 22 | 20.91 |
| YS1250-H-12/30-4 | 12 | 30 | 23.86 |
| | 14 | | 26.81 |
| | 16 | | 27.88 |
| YS1250-H-12/37-4 | 18 | 37 | 31.01 |
| | 20 | | 34.16 |
| YS1250-H-12/45-4 | 22 | 45 | 39.00 |
| | 24 | | 43.83 |
| YS1250-H-12/55-4 | 26 | 55 | 48.67 |
| | 28 | | 53.50 |
| YS1250-H-12/75-4 | 30 | 75 | 58.34 |
| | 32 | | 63.17 |
| LwA dB(A) | 0 | | |

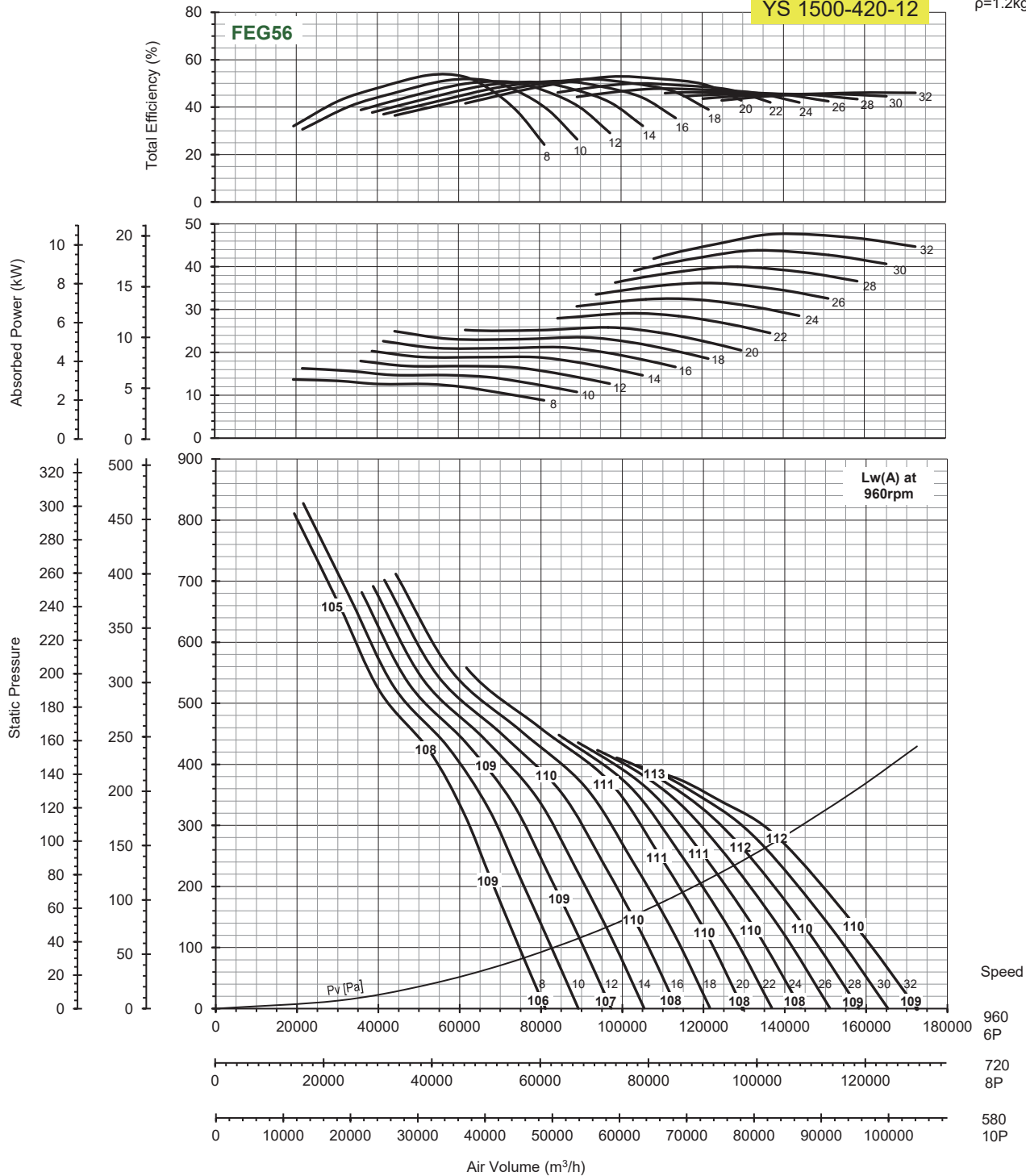
* Performance certified is for installation type D - Ducted inlet, Ducted outlet. Performance ratings do not include the effects of appurtenances (accessories).

* The A-weighted sound ratings shown have been calculated per AMCA International Standard 301. Values shown are for inlet LwA sound power levels for installation type D: ducted inlet, ducted outlet. Ratings include the effects of duct end correction.

YS SERIES AXIAL FLOW FAN

YS 1500-420-12

$\rho=1.2\text{kg/m}^3$



| | At 580 RPM | | |
|--------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS1500-H-12/4-10 | 8 | 4 | 3.018 |
| | 10 | | 3.592 |
| | 12 | | 3.970 |
| YS1500-H-12/5.5-10 | 14 | 5.5 | 4.481 |
| | 16 | | 4.992 |
| YS1500-H-12/7.5-10 | 18 | 7.5 | 5.503 |
| | 20 | | 5.699 |
| | 22 | | 6.423 |
| YS1500-H-12/11-10 | 24 | 11 | 7.147 |
| | 26 | | 7.974 |
| | 28 | | 8.820 |
| | 30 | | 9.666 |
| | 32 | | 10.51 |
| LwA dB(A) | -12 | | |

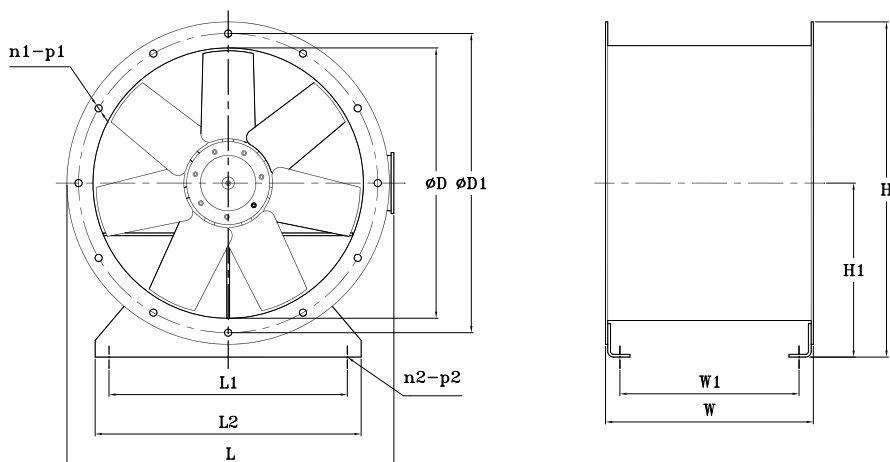
| | At 720 RPM | | |
|--------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS1500-H-12/7.5-8 | 8 | 7.5 | 5.774 |
| | 10 | | 6.871 |
| YS1500-H-12/11-8 | 12 | 11 | 7.594 |
| | 14 | | 8.572 |
| | 16 | | 9.549 |
| | 18 | | 10.53 |
| YS1500-H-12/15-8 | 20 | 15 | 10.90 |
| | 22 | | 12.29 |
| | 24 | | 13.67 |
| YS1500-H-12/18.5-8 | 26 | 18.5 | 15.26 |
| | 28 | | 16.87 |
| | 30 | | 18.49 |
| YS1500-H-12/22-8 | 32 | 22 | 20.11 |
| LwA dB(A) | -7 | | |

| | At 960 RPM | | |
|--------------------|-------------|------------|--------------------------|
| Model No | Blade Angle | Motor (Kw) | Peak Absorbed Power (Kw) |
| YS1500-H-12/15-6 | 8 | 15 | 13.69 |
| YS1500-H-12/18.5-6 | 10 | 18.5 | 16.29 |
| | 12 | | 18.00 |
| YS1500-H-12/22-6 | 14 | 22 | 20.32 |
| YS1500-H-12/30-6 | 16 | 30 | 22.64 |
| | 18 | | 24.95 |
| | 20 | | 25.84 |
| | 22 | | 29.13 |
| YS1500-H-12/37-6 | 24 | 37 | 32.41 |
| | 26 | | 36.16 |
| | 28 | | 40.00 |
| YS1500-H-12/45-6 | 30 | 45 | 43.83 |
| YS1500-H-12/55-6 | 32 | 55 | 47.67 |
| LwA dB(A) | 0 | | |

* Performance certified is for installation type A - Free inlet, Free 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 outlet LwA sound power levels for installation type A: free inlet, free outlet.

Dimensions (mm)



| Model | ϕD | $\phi D1$ | L | L1 | L2 | W1 | H | H1 | n1-p1 | n2-p2 | W | |
|--------|----------|-----------|------|------|------|-----------------|------|-----|---------------|--------------|-------------------------------------|-----------------|
| | | | | | | | | | | | Frame No | W |
| YS240 | 240 | 280 | 305 | 205 | 245 | 180 | 325 | 172 | 6- $\phi 10$ | 4- $\phi 10$ | Y63 ~ Y80 | 237 |
| YS315 | 312 | 355 | 408 | 260 | 305 | 237 | 408 | 210 | 6- $\phi 10$ | 4- $\phi 10$ | Y63 ~ Y80 | 290 |
| YS355 | 359 | 405 | 453 | 305 | 355 | 271 | 444 | 225 | 8- $\phi 12$ | 4- $\phi 13$ | Y63 ~ Y80 | 335 |
| YS400 | 401 | 448 | 499 | 350 | 400 | 306 | 492 | 250 | 8- $\phi 12$ | 4- $\phi 13$ | Y63 ~ Y90 | 370 |
| YS450 | 450 | 497 | 549 | 400 | 450 | 306/366 | 547 | 280 | 8- $\phi 12$ | 4- $\phi 13$ | Y63 ~ Y90/Y100 ~ Y112 | 370/430 |
| YS500 | 504 | 551 | 599 | 440 | 500 | 384/434 | 607 | 315 | 8- $\phi 12$ | 4- $\phi 13$ | Y63 ~ Y112/Y132 | 450/500 |
| YS560 | 565 | 629 | 679 | 500 | 560 | 376/426/576 | 677 | 345 | 12- $\phi 14$ | 4- $\phi 13$ | Y63 ~ Y112/Y132/Y160 | 450/500/650 |
| YS630 | 634 | 698 | 749 | 570 | 630 | 365/415/565/615 | 767 | 400 | 12- $\phi 14$ | 4- $\phi 13$ | Y63 ~ Y100/Y132/Y160M/Y160L | 450/500/650/700 |
| YS710 | 711 | 775 | 829 | 650 | 710 | 364/414 | 857 | 450 | 12- $\phi 14$ | 4- $\phi 16$ | Y80 ~ Y112/Y132 | 450/500 |
| YS800 | 797 | 861 | 919 | 730 | 800 | 364/414 | 954 | 502 | 14- $\phi 14$ | 4- $\phi 16$ | Y80 ~ Y112/Y132 | 450/500 |
| YS900 | 894 | 958 | 1019 | 800 | 900 | 342/392/592 | 1082 | 580 | 14- $\phi 14$ | 4- $\phi 20$ | Y80 ~ Y112/Y132/Y160 | 450/500/700 |
| YS1000 | 1003 | 1067 | 1120 | 800 | 1000 | 352/432/602/702 | 1183 | 630 | 14- $\phi 14$ | 6- $\phi 20$ | Y80 ~ Y112/Y132/Y160/Y180 | 450/500/700/800 |
| YS1250 | 1250 | 1314 | 1380 | 1050 | 1250 | 580/730/930 | 1432 | 750 | 16- $\phi 14$ | 6- $\phi 20$ | Y32 ~ Y160/Y180 ~ /Y225/Y250 ~ Y280 | 700/850/1050 |
| YS1500 | 1510 | 1580 | 1655 | 1300 | 1500 | 580/730/930 | 1715 | 895 | 16- $\phi 14$ | 6- $\phi 20$ | Y160/Y180 ~ /Y225/Y250 ~ Y280 | 700/850/1050 |



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