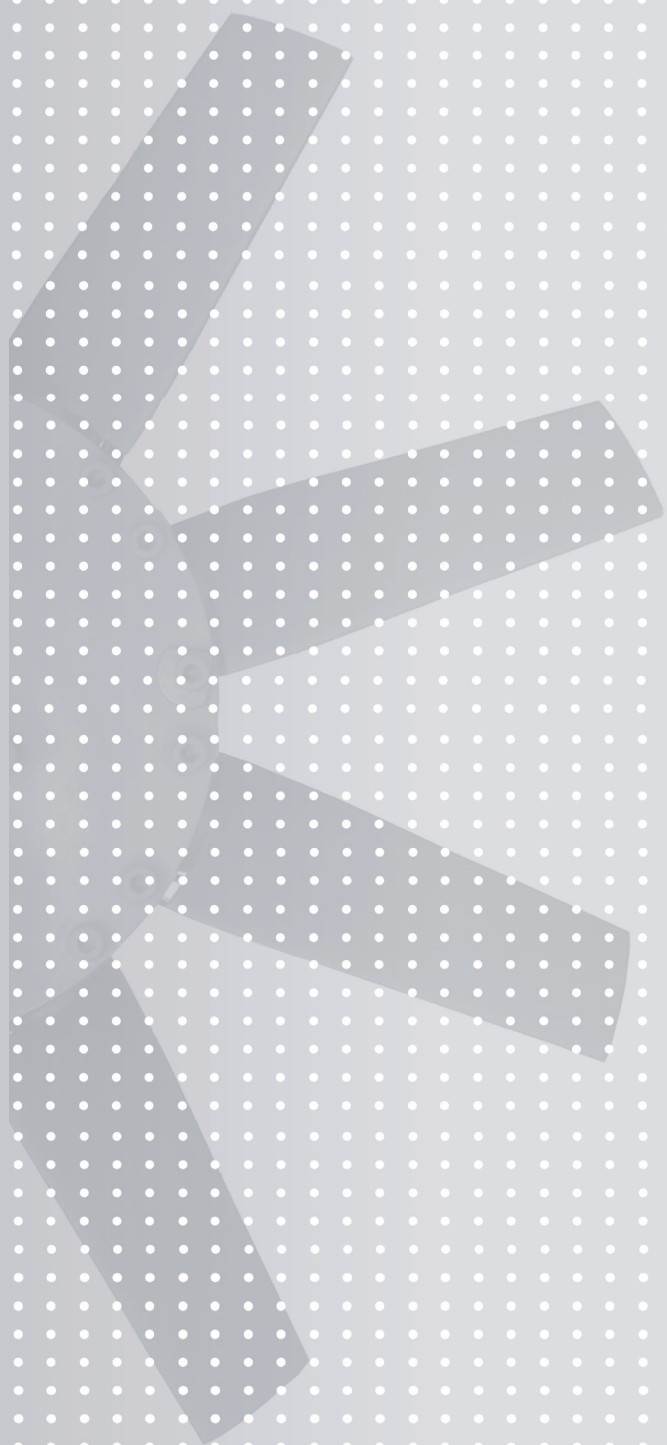


***burprovent***



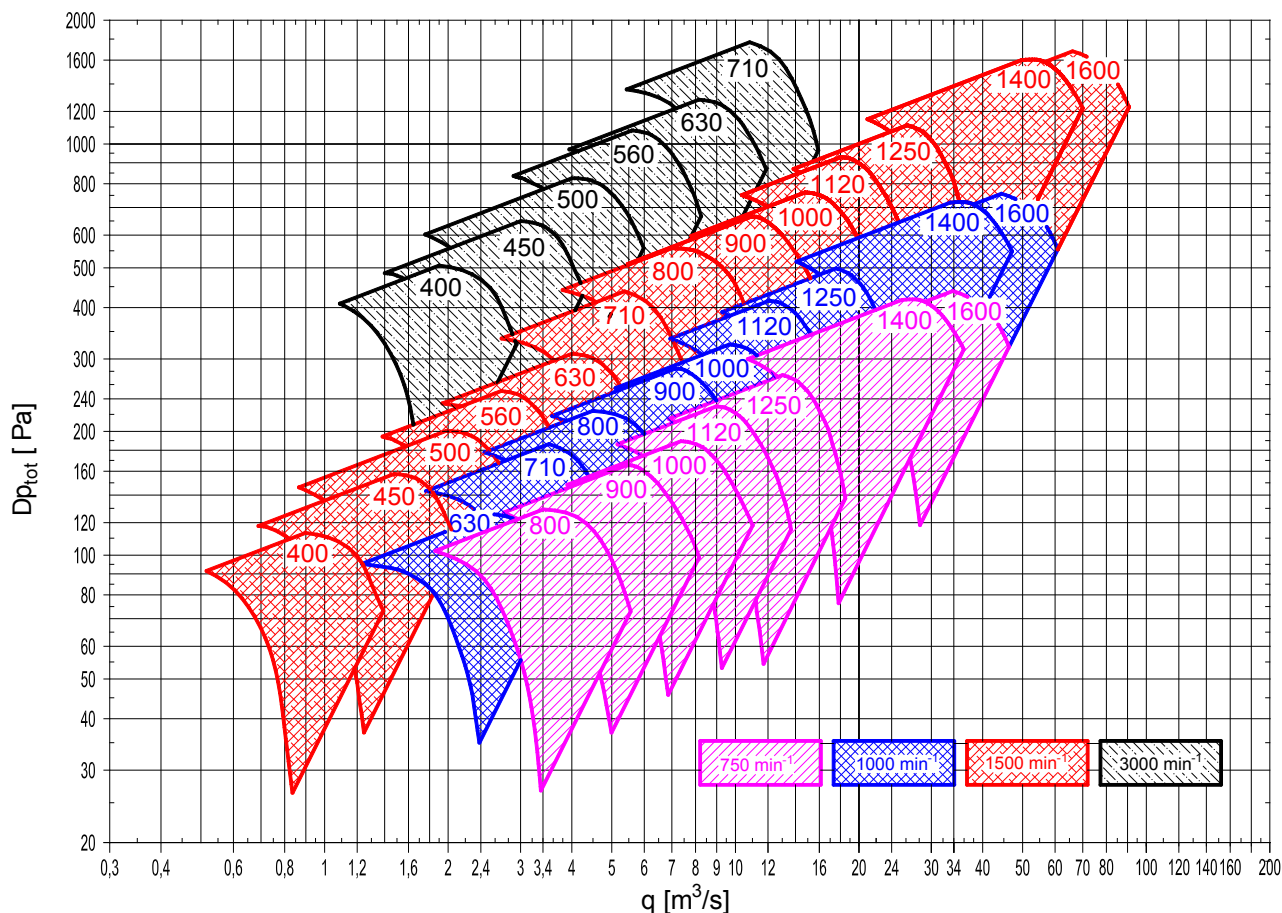
**Axialventilatoren AVS / AVSV**

|                                              |    |
|----------------------------------------------|----|
| Auswahl Diagramm                             | 1  |
| Allgemeines                                  | 2  |
| Ventilator Bezeichnung                       | 2  |
| Technische Daten AVS und AVSV                | 3  |
| AVS AXIAL Ventilatoren                       | 5  |
| Ausführungen und Abmessungen                 | 5  |
| Einbaumöglichkeiten u. Luftströmungsrichtung | 5  |
| Schalldruckpegel AVS                         | 6  |
| Kenndaten AVS                                | 7  |
| AVSV Axial Ventilatoren                      | 18 |
| Abmessungen AVSV                             | 18 |
| Einbaumöglichkeiten                          | 18 |
| Schalldruckpegel AVSV                        | 19 |
| Kenndaten AVS                                | 20 |
| Axial Ventilatoren EX AVS und EX AVSV        | 33 |
| Zubehör                                      | 34 |
| Schalter und Drehzahlregler                  | 36 |
| Schaltdiagramm                               | 38 |
| Spezifikationen AVS, AVSV                    | 39 |
| Spezifikationen EX AVS, EX AVSV              | 40 |
| Installations Beispiele                      | 42 |

|                                          |    |
|------------------------------------------|----|
| SELECTION DIAGRAM                        | 1  |
| GENERAL                                  | 2  |
| FAN DESIGNATION                          | 2  |
| TECHNICAL DATA AVS and AVSV              | 3  |
| AVS AXIAL FANS                           | 5  |
| Designs and dimensions                   | 5  |
| Airflow direction and mounting positions | 3  |
| Sound level data AVS                     | 6  |
| Characteristics AVS                      | 7  |
| AVSV AXIAL FANS                          | 18 |
| Dimensions AVSV                          | 18 |
| Mounting positions                       | 18 |
| Sound level data AVSV                    | 19 |
| Characteristics AVSV                     | 20 |
| AXIAL FANS TYPE EX AVS and EX AVSV       | 33 |
| ACCESSORIES                              | 34 |
| SWITCHES AND SPEED CONTROLLERS           | 36 |
| WIRING DIAGRAMS                          | 38 |
| SPECIFICATION AVS; AVSV                  | 39 |
| SPECIFICATION EX AVS; EX AVSV            | 41 |
| INSTALATION EXAMPLES                     | 42 |

**AUSWAHL DIAGRAMM**

**SELECTION DIAGRAM**



## Allgemeines

- AVS –** Axial Ventilator ohne Leitschaukel  
**AVSV –** Axial Ventilator mit Leitschaukel für Hochdruck Systeme und Installationen mit Druck-Kanal oder Diffusor.

Der Axial Ventilator Typ AVS kann in der Standard-Ausführung einen großen Bereich im Lüftungs- und Klimabereich abdecken, sowie in der Fertigungsindustrie eingesetzt werden. Sie sind für große Luftmengen mit geringem Druck bis zu einer mittleren Temperatur von 55°C geeignet.

Das Laufrad besitzt Flügel, die eine hohe Effizienz und ein leises Laufen des Ventilators garantieren. Die Flügel und die Radnabe sind korrosionsbeständig und besitzen eine Aluminiumlegierung. Bei Ventilatorstillstand können die Flügelwinkel geändert und die Ventilatoreigenschaft, abhängig vom Betriebspunkt, angepasst werden. Das Laufrad ist nach Klasse G 6,3 gemäß DIN ISO 1940-1 (VDI 2060) statisch und dynamisch ausgewuchtet. Das Gehäuse erhält man standardmäßig in RAL 7011.

Für den Antrieb kommen folgende IEC-Drehstrom-Motoren zum Einsatz: 3x400 V, 50 Hz, IP 55, Isolationsklasse F, PTC-Sensoren für den thermischen Schutz. Elektrischer Anschluss: Beim Kanalanschluss sitzt der Klemmkasten am Ventilatorgehäuse, bei der Kurzversion im Motorklemmkasten.

Wir produzieren Ventilatoren mit einem Durchmesser von Ø400 bis zu Ø1600 mm gemäß ISO-R20.

Axial-Ventilatoren mit Leitschaukel AVSV erreichen einen höheren Gesamtdruck. Diese werden überwiegend für Installationen in einem Kanal, oder mit einem Diffusor mit höherem Druckabfall, eingesetzt. Die Ventilatorschaukel-Charakteristik ermöglicht in den meisten Fällen, dass der Ventilator im optimalen Betriebspunkt läuft.

## Posebne izvedbe

- EXAVS – Ventilator der in explosionsgefährdeten Bereichen einsetzbar ist (gem. Richtlinie 94/9/ES) II 2G Ex c IIB T4– Seite 33;
- HT - AV Entrauchungsventilator – Katalog HT-AV;
- AVT Ventilator einsetzbar für Transformatorenkühlung;
- Feuerverzinktes Gehäuse;
- Gehäuse und Laufrad Nabe von 1.4301, 1.4404, 1.4571;
- Ventilatoren mit Riemenantrieb;
- Ventilatoren mit zwangsgeköhlten Motoren für höhere Temperaturen;
- Ventilatorausführung gemäß Kundenwunsch.

Der Verkauf, sowie die technische Abteilung kann gemäß den vorgegebenen Daten und Verwendungszwecken den optimalsten Ventilator für Sie auslegen.

## GENERAL

- AVS –** axial fans without guide vane  
**AVSV –** axial fans with guide vane for high pressure systems and installation with pressure duct or diffuser.

AVS type axial fans are designed for wide field of applications in ventilation and air-condition systems and as technological fans in process industry. They are suitable for larger airflows at relative low pressure for the medium temperatures up to 55°C.

Airfoil mould casted impeller blades ensure high efficiency ratio and relatively low sound level. Blades and hub material is corrosion resistant Al alloy. At fan standstill the blades angle is adjustable and the fan characteristic can be adjusted according to system operating point. Impeller is statically and dynamically balanced in class G 6,3 according to DIN ISO 1940-1. Welded casing is standard painted with RAL 7011.

For drive the IEC three-phase motors are used: 3x400 V, 50Hz, IP 55, insulation class F, PTC sensors for thermal protection. Electrical connection: duct design has terminal box on the fan casing and short design in the motor terminal box.

We produce fans from diameter Ø400 to Ø1600 mm according ISO-R20 standard.

Axial fans with guide vane AVSV achieve higher total pressure. They are mainly used for installation in a duct or with diffuser in systems with higher pressure drop.

Fan technical characteristics enables in most cases that direct driven fan can operate in range of optimal efficiency ratio.

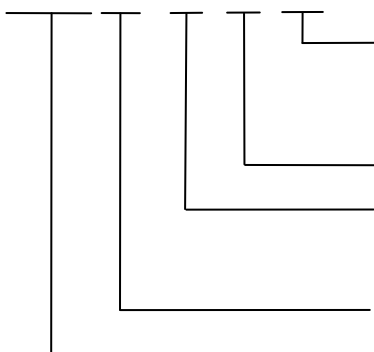
## Special designs

- EX AVS fans for operation in potentially explosive atmosphere (94/9/ES directive) II 2G Ex c IIB T4– page 33;
- fans for smoke and heat extraction – catalogue ODT-AV;
- AVT fans for electrical equipment cooling - transformers;
- hot dip galvanized casing;
- casing and impeller hub from 1.4301, 1.4404, 1.4571;
- belt driven fans;
- fans with forced cooling motor for higher temperatures;
- fan design according to customer's requests.

Sales and technical department can select for you the most suitable fan according to given data and field of use.

## Bezeichnungen

**AVS(V) 630 – 4/8 – xx – xxx**



### Luftströmungsrichtung u. Installation

- Rechte Luftströmungsrichtung
- Vertikale Ausführung
- Zusätzliche Anforderungen

### Ausführung AL (für AVS)

#### Motor-Pol-Nr.:

- 2, 4, 6, 8;
- 2/4, 4/8; 4/6, 6/8

#### Durchmesser nominal [mm]

#### Axial Ventilator Typ

- AVS** ohne Leitschaukel
- AVSV** mit Leitschaukel
- EX AVS** Ex Typ ohne Leitschaukel
- EX AVSV** Ex Typ mit Leitschaukel

## FAN DESIGNATION

### Airflow direction and installation

- Right flow direction
- Vertical design
- Additional requests

### Design AL (for AVS)

#### Motor poles no.

- 2, 4, 6, 8;
- 2/4, 4/8; 4/6, 6/8

#### Nominal diameter [mm]

#### Axial fan type

- AVS** without guide vane
- AVSV** with guide vane
- EX AVS** Ex design without guide vane
- EX AVSV** Ex design with guide vane

| Typ<br>Type | n<br>RPM             | Winkel<br>Angle | Motor 400V; 50Hz |                |     | Gewicht<br>Weight |            |      |
|-------------|----------------------|-----------------|------------------|----------------|-----|-------------------|------------|------|
|             |                      |                 | P <sub>EM</sub>  | I <sub>N</sub> | IEC | AVS               | AVSV       |      |
| AVS<br>AVSV | [min <sup>-1</sup> ] |                 | [kW]             | [A]            |     | AL<br>[kg]        | AK<br>[kg] | [kg] |

|         |           |         |           |           |    |    |    |    |
|---------|-----------|---------|-----------|-----------|----|----|----|----|
| 400-2   | 3000      | 16°-21° | 1,5       | 3,2       | 90 | 24 | 41 | 47 |
|         |           | 22°-32° | 2,2       | 4,51      | 90 | 26 | 44 | 50 |
| 400-4   | 1500      | 16°-32° | 0,25      | 1,07      | 71 | 17 | 24 | 30 |
| 400-2/4 | 3000/1500 | 16°-24° | 1,50/0,37 | 3,38/0,90 | 90 | /  | 41 | 47 |
|         |           | 16°-30° | 2,00/0,50 | 4,63/1,24 | 90 | /  | 47 | 53 |

|         |           |         |           |           |     |    |    |    |
|---------|-----------|---------|-----------|-----------|-----|----|----|----|
| 450-2   | 3000      | 16°-20° | 2,2       | 4,51      | 90  | /  | 54 | 61 |
|         |           | 21°-27° | 3,0       | 5,93      | 100 | /  | 62 | 69 |
| 450-4   | 1500      | 16°-26° | 0,37      | 1,07      | 71  | 18 | 27 | 34 |
|         |           | 27°-32° | 0,55      | 1,46      | 80  | 21 | 38 | 45 |
| 450-2/4 | 3000/1500 | 16°-18° | 2,00/0,50 | 4,63/1,24 | 90  | /  | 57 | 64 |
|         |           | 19°-32° | 3,60/0,90 | 8,45/2,48 | 100 | /  | 74 | 81 |

|         |           |         |           |           |     |    |    |    |
|---------|-----------|---------|-----------|-----------|-----|----|----|----|
| 500-2   | 3000      | 16°     | 3,0       | 5,93      | 100 | /  | 69 | 77 |
|         |           | 17°-23° | 4,0       | 7,32      | 112 | /  | 76 | 84 |
| 500-4   | 1500      | 16°     | 0,37      | 1,07      | 71  | 20 | 30 | 38 |
|         |           | 17°-25° | 0,55      | 1,46      | 80  | 22 | 41 | 49 |
|         |           | 26°-32° | 0,75      | 2,06      | 80  | 23 | 42 | 50 |
| 500-2/4 | 3000/1500 | 16°-20° | 3,60/0,90 | 8,45/2,48 | 100 | /  | 72 | 80 |
|         |           | 21°-27° | 4,80/1,20 | 9,57/2,48 | 112 | /  | 83 | 91 |

|         |           |         |           |           |     |    |     |     |
|---------|-----------|---------|-----------|-----------|-----|----|-----|-----|
| 560-2   | 3000      | 16°-18° | 5,5       | 13,7      | 132 | /  | 104 | 114 |
|         |           | 18°-21° | 7,5       | 13,7      | 132 | /  | 107 | 117 |
|         |           | 22°-30° | 11        | 20,0      | 160 | /  | 120 | 130 |
| 560-4   | 1500      | 16°-19° | 0,75      | 1,89      | 80  | 30 | 48  | 58  |
|         |           | 20°-28° | 1,1       | 2,7       | 90  | 34 | 53  | 63  |
|         |           | 29°-32° | 1,5       | 3,5       | 90  | 36 | 59  | 69  |
| 560-2/4 | 3000/1500 | 16°-23° | 8,20/2,20 | 15,1/4,90 | 132 | /  | 130 | 140 |
|         |           | 24°-32° | 12,0/3,30 | 22,2/7,33 | 160 | /  | 163 | 173 |

|         |           |         |           |           |     |    |     |     |
|---------|-----------|---------|-----------|-----------|-----|----|-----|-----|
| 630-2   | 3000      | 16°     | 7,5       | 13,7      | 132 | /  | 117 | 128 |
|         |           | 17°-21° | 11        | 20,0      | 132 | /  | 130 | 141 |
|         |           | 22°-28° | 15        | 26,6      | 160 | /  | 174 | 185 |
|         |           | 29°-32° | 18,5      | 32,6      | 160 | /  | 191 | 202 |
|         |           | 16°-18° | 1,1       | 2,7       | 90  | 36 | 55  | 66  |
| 630-4   | 1500      | 19°-24° | 1,5       | 3,5       | 90  | 39 | 61  | 72  |
|         |           | 25°-32° | 2,2       | 4,88      | 100 | 43 | 67  | 78  |
|         |           | 16°     | 0,25      | 0,91      | 71  | 29 | 37  | 48  |
| 630-6   | 1000      | 17°-23° | 0,37      | 1,21      | 80  | 31 | 48  | 59  |
|         |           | 24°-32° | 0,55      | 1,78      | 80  | 31 | 50  | 61  |
| 630-2/4 | 3000/1500 | 16°-17° | 8,20/2,20 | 15,1/4,90 | 132 | /  | 140 | 151 |
|         |           | 18°-23° | 12,0/3,30 | 22,2/7,33 | 160 | /  | 174 | 185 |
|         |           | 24°-32° | 17,0/4,30 | 30,7/9,71 | 160 | /  | 191 | 202 |
| 630-4/6 | 1500/1000 | 16°-31° | 2,00/0,75 | 4,17/2,29 | 100 | /  | 67  | 78  |

|          |           |         |           |           |     |    |     |     |
|----------|-----------|---------|-----------|-----------|-----|----|-----|-----|
| 710S-2   | 3000      | 16°     | 15        | 27,4      | 160 | /  | 210 | 228 |
|          |           | 17°-20° | 18,5      | 33,7      | 160 | /  | 227 | 245 |
|          |           | 21°-24° | 22        | 39,9      | 180 | /  | 264 | 282 |
| 710S-4   | 1500      | 16°-20° | 2,2       | 4,88      | 100 | 60 | 98  | 116 |
|          |           | 21°-26° | 3,0       | 6,4       | 100 | 64 | 102 | 120 |
|          |           | 27°-28° | 4,0       | 8,28      | 112 | 70 | 108 | 126 |
| 710S-6   | 1000      | 16°-24° | 0,75      | 2,19      | 90  | 53 | 84  | 102 |
|          |           | 25°-28° | 1,1       | 2,98      | 90  | 55 | 86  | 104 |
| 710S-2/4 | 3000/1500 | 16°-19° | 17,0/4,30 | 30,7/9,71 | 160 | /  | 227 | 245 |
| 710S-4/6 | 1500/1000 | 16°-27° | 3,00/1,00 | 7,80/2,88 | 112 | /  | 106 | 124 |

| Typ<br>Type | n<br>RPM             | Winkel<br>Angle | Motor 400V; 50Hz |                |     | Gewicht<br>Weight |            |      |
|-------------|----------------------|-----------------|------------------|----------------|-----|-------------------|------------|------|
|             |                      |                 | P <sub>EM</sub>  | I <sub>N</sub> | IEC | AVS               | AVSV       |      |
| AVS<br>AVSV | [min <sup>-1</sup> ] |                 | [kW]             | [A]            |     | AL<br>[kg]        | AK<br>[kg] | [kg] |

|         |           |         |           |           |     |    |     |     |
|---------|-----------|---------|-----------|-----------|-----|----|-----|-----|
| 710-2   | 3000      | 16°     | 15        | 27,4      | 160 | /  | 221 | 239 |
|         |           | 17°-20° | 18,5      | 33,7      | 160 | /  | 238 | 256 |
|         |           | 21°-23° | 22        | 39,9      | 180 | /  | 274 | 292 |
| 710-4   | 1500      | 16°-20° | 2,2       | 4,88      | 100 | 71 | 109 | 127 |
|         |           | 21°-24° | 3,0       | 6,4       | 100 | 75 | 113 | 131 |
|         |           | 25°-30° | 4,0       | 8,28      | 112 | 81 | 119 | 137 |
|         |           | 32°     | 5,5       | 10,8      | 132 | 96 | 106 | 124 |
| 710-6   | 1000      | 16°-23° | 0,75      | 2,19      | 90  | 64 | 95  | 113 |
|         |           | 24°-31° | 1,1       | 2,98      | 90  | 66 | 97  | 115 |
|         |           | 32°     | 1,5       | 4,00      | 100 | 72 | 105 | 123 |
| 710-2/4 | 3000/1500 | 16°-19° | 17,0/4,30 | 30,7/9,71 | 160 | /  | 238 | 256 |
| 710-4/6 | 1500/1000 | 16°-27° | 3,00/1,00 | 7,80/2,88 | 112 | /  | 116 | 134 |

|         |           |         |           |           |     |    |     |     |
|---------|-----------|---------|-----------|-----------|-----|----|-----|-----|
| 800-4   | 1500      | 14°-18° | 4,0       | 8,28      | 112 | /  | 154 | 176 |
|         |           | 19°-24° | 5,5       | 10,8      | 132 | /  | 174 | 196 |
|         |           | 25°-32° | 7,5       | 14,3      | 132 | /  | 186 | 208 |
| 800-6   | 1000      | 14°-19° | 1,1       | 2,98      | 90  | 73 | 112 | 134 |
|         |           | 20°-24° | 1,5       | 4,0       | 100 | 78 | 121 | 143 |
|         |           | 25°-32° | 2,2       | 5,12      | 112 | 87 | 127 | 149 |
| 800-8   | 750       | 14°-22° | 0,55      | 1,96      | 90  | 74 | 112 | 134 |
|         |           | 23°-29° | 0,75      | 2,42      | 100 | 78 | 121 | 143 |
|         |           | 30°-32° | 1,1       | 3,21      | 100 | 81 | 122 | 144 |
| 800-4/6 | 1500/1000 | 14°-26° | 6,00/2,20 | 11,8/5,66 | 132 | /  | 186 | 208 |
|         |           | 27°-32° | 10,0/3,30 | 21,1/8,40 | 160 | /  | 230 | 252 |
| 800-4/8 | 1500/750  | 14°-22° | 5,00/1,20 | 10,2/3,09 | 132 | /  | 178 | 200 |
|         |           | 23°-28° | 6,50/1,80 | 13,9/5,62 | 132 | /  | 186 | 208 |
|         |           | 29°-32° | 10,0/2,50 | 20,2/6,60 | 160 | /  | 223 | 245 |

|         |           |         |           |           |     |   |     |     |
|---------|-----------|---------|-----------|-----------|-----|---|-----|-----|
| 900-4   | 1500      | 14°     | 5,5       | 10,8      | 132 | / | 203 | 230 |
|         |           | 15°-19° | 7,5       | 14,3      | 132 | / | 215 | 242 |
|         |           | 20°-26° | 11        | 20,9      | 160 | / | 260 | 287 |
|         |           | 27°-32° | 15        | 28,1      | 160 | / | 279 | 306 |
| 900-6   | 1000      | 14°-20° | 2,2       | 5,12      | 112 | / | 140 | 167 |
|         |           | 21°-26° | 3,0       | 7,0       | 132 | / | 159 | 186 |
|         |           | 27°-32° | 4,0       | 8,9       | 132 | / | 174 | 201 |
| 900-8   | 750       | 14°-22° | 1,1       | 3,21      | 100 | / | 134 | 161 |
|         |           | 23°-28° | 1,5       | 4,19      | 112 | / | 140 | 167 |
|         |           | 29°-32° | 2,2       | 5,7       | 132 | / | 165 | 192 |
| 900-4/6 | 1500/1000 | 14°-24° | 10,0/3,30 | 21,1/8,40 | 160 | / | 260 | 287 |
|         |           | 25°-30° | 13,0/4,40 | 25,3/10,8 | 160 | / | 279 | 306 |
|         |           | 31°-32° | 16,0/5,40 | 30,5/13,9 | 180 | / | 329 | 356 |
| 900-4/8 | 1500/750  | 14°-24° | 10,0/2,50 | 20,2/6,60 | 160 | / | 253 | 280 |
|         |           | 25°-30° | 12,5/3,50 | 23,4/8,30 | 160 | / | 274 | 301 |
|         |           | 31°-32° | 16,0/4,50 | 29,9/11,0 | 180 | / | 318 | 345 |



| Typ<br>Type | n<br>RPM             | Winkel<br>Angle | Motor 400V; 50Hz |                |     | Gewicht<br>Weight |            |      |
|-------------|----------------------|-----------------|------------------|----------------|-----|-------------------|------------|------|
|             |                      |                 | P <sub>EM</sub>  | I <sub>N</sub> | IEC | AVS               | AVSV       |      |
| AVS<br>AVSV | [min <sup>-1</sup> ] |                 | [kW]             | [A]            |     | AL<br>[kg]        | AK<br>[kg] | [kg] |

|          |           |         |           |           |     |   |     |     |
|----------|-----------|---------|-----------|-----------|-----|---|-----|-----|
| 1000-4   | 1500      | 14°-19° | 11        | 20,9      | 160 | / | 281 | 313 |
|          |           | 20°-24° | 15        | 28,1      | 160 | / | 300 | 332 |
|          |           | 25°-30° | 18,5      | 33,3      | 180 | / | 338 | 370 |
|          |           | 31°-32° | 22        | 40,3      | 180 | / | 351 | 383 |
| 1000-6   | 1000      | 14°-19° | 3,0       | 7,0       | 132 | / | 181 | 213 |
|          |           | 20°-24° | 4,0       | 8,9       | 132 | / | 196 | 228 |
|          |           | 25°-30° | 5,5       | 12,0      | 132 | / | 200 | 232 |
|          |           | 31°-32° | 7,5       | 15,8      | 160 | / | 237 | 269 |
| 1000-8   | 750       | 14°-20° | 1,5       | 4,19      | 112 | / | 160 | 192 |
|          |           | 21°-28° | 2,2       | 5,7       | 132 | / | 187 | 219 |
|          |           | 29°-32° | 3,0       | 7,3       | 132 | / | 191 | 223 |
| 1000-4/6 | 1500/1000 | 14°-17° | 10,0/3,30 | 21,1/8,40 | 160 | / | 281 | 313 |
|          |           | 18°-21° | 13,0/4,40 | 25,3/10,8 | 160 | / | 300 | 332 |
|          |           | 22°-25° | 16,0/5,40 | 30,5/13,9 | 180 | / | 351 | 383 |
|          |           | 26°-28° | 20,0/6,70 | 37,2/15,4 | 180 | / | 360 | 392 |
| 1000-4/8 | 1500/750  | 14°-17° | 10,0/2,50 | 20,2/6,60 | 160 | / | 274 | 306 |
|          |           | 18°-21° | 12,5/3,50 | 23,4/8,30 | 160 | / | 296 | 328 |
|          |           | 22°-25° | 16,0/4,50 | 29,9/11,0 | 180 | / | 341 | 373 |
|          |           | 26°-28° | 20,0/5,00 | 37,7/12,9 | 180 | / | 355 | 387 |

|          |           |         |           |           |     |   |     |     |
|----------|-----------|---------|-----------|-----------|-----|---|-----|-----|
| 1120-4   | 1500      | 14°-16° | 15        | 28,1      | 160 | / | 368 | 409 |
|          |           | 17°-19° | 18,5      | 33,3      | 180 | / | 406 | 447 |
|          |           | 20°-22° | 22        | 39,9      | 180 | / | 420 | 461 |
|          |           | 23°-28° | 30        | 53,8      | 200 | / | 470 | 511 |
|          |           | 29°-30° | 37        | 66,9      | 225 | / | 525 | 566 |
| 1120-6   | 1000      | 14°-19° | 5,5       | 12        | 132 | / | 269 | 310 |
|          |           | 20°-24° | 7,5       | 15,8      | 160 | / | 309 | 350 |
|          |           | 25°-30° | 11        | 22,4      | 160 | / | 331 | 372 |
| 1120-8   | 750       | 14°-19° | 2,2       | 5,7       | 132 | / | 257 | 298 |
|          |           | 20°-24° | 3,0       | 7,3       | 132 | / | 261 | 302 |
|          |           | 25°-30° | 4,0       | 9,3       | 160 | / | 296 | 337 |
| 1120-4/6 | 1500/1000 | 14°-17° | 16,0/5,40 | 30,5/13,9 | 180 | / | 420 | 461 |
|          |           | 18°-20° | 20,0/6,70 | 37,2/15,4 | 180 | / | 428 | 469 |
| 1120-4/8 | 1500/750  | 14°-17° | 16,0/4,50 | 29,9/11,0 | 180 | / | 409 | 450 |
|          |           | 18°-20° | 20,0/5,00 | 37,7/12,9 | 180 | / | 424 | 465 |

|         |      |         |      |      |     |   |     |     |
|---------|------|---------|------|------|-----|---|-----|-----|
| 1250S-4 | 1500 | 14°-17° | 30   | 53,8 | 200 | / | 539 | 586 |
|         |      | 18°-20° | 37   | 66,9 | 225 | / | 594 | 641 |
|         |      | 21°-23° | 45   | 80,2 | 225 | / | 627 | 668 |
|         |      | 24°-28° | 55   | 97,0 | 250 | / | 689 | 730 |
| 1250S-6 | 1000 | 14°-20° | 11   | 22,4 | 160 | / | 387 | 428 |
|         |      | 21°-26° | 15   | 29,4 | 180 | / | 432 | 473 |
|         |      | 27°-28° | 18,5 | 35,3 | 200 | / | 478 | 519 |

| Typ<br>Type | n<br>RPM             | Winkel<br>Angle | Motor 400V; 50Hz |                |     | Gewicht<br>Weight |            |      |
|-------------|----------------------|-----------------|------------------|----------------|-----|-------------------|------------|------|
|             |                      |                 | P <sub>EM</sub>  | I <sub>N</sub> | IEC | AVS               | AVSV       |      |
| AVS<br>AVSV | [min <sup>-1</sup> ] |                 | [kW]             | [A]            |     | AL<br>[kg]        | AK<br>[kg] | [kg] |

|        |      |         |      |      |     |   |     |     |
|--------|------|---------|------|------|-----|---|-----|-----|
| 1250-4 | 1500 | 16°-17° | 37   | 66,9 | 225 | / | 619 | 696 |
|        |      | 18°-20° | 45   | 80,2 | 225 | / | 652 | 729 |
|        |      | 21°-25° | 55   | 97,6 | 250 | / | 714 | 791 |
|        |      | 26°-32° | 75   | 133  | 280 | / | 844 | 921 |
| 1250-6 | 1000 | 16°-19° | 11   | 22,4 | 160 | / | 411 | 488 |
|        |      | 20°-25° | 15   | 29,4 | 180 | / | 457 | 534 |
|        |      | 26°-30° | 18,5 | 35,3 | 200 | / | 502 | 579 |
|        |      | 31°-32° | 22   | 42,1 | 200 | / | 511 | 588 |
| 1250-8 | 750  | 16°-20° | 5,5  | 12,7 | 160 | / | 387 | 464 |
|        |      | 21°-28° | 7,5  | 16,3 | 160 | / | 408 | 485 |
|        |      | 29°-32° | 11   | 23,7 | 180 | / | 456 | 533 |

|          |      |         |      |      |     |   |    |    |
|----------|------|---------|------|------|-----|---|----|----|
| 1400-4 * | 1500 | 11°     | 45   | 80,2 | 225 | / | ** | ** |
|          |      | 12°-15° | 55   | 97,6 | 250 | / | ** | ** |
|          |      | 16°-20° | 75   | 133  | 280 | / | ** | ** |
|          |      | 21°-24° | 90   | 159  | 280 | / | ** | ** |
|          |      | 25°-28° | 110  | 191  | 315 | / | ** | ** |
| 1400-6 * | 1000 | 30°-31° | 132  | 229  | 315 | / | ** | ** |
|          |      | 11°-13° | 15   | 29,4 | 200 | / | ** | ** |
|          |      | 14°-17° | 18,5 | 35,3 | 200 | / | ** | ** |
|          |      | 18°-20° | 22   | 42,1 | 200 | / | ** | ** |
|          |      | 21°-27° | 30   | 56,3 | 225 | / | ** | ** |
| 1400-8 * | 750  | 28°-31° | 37   | 67,4 | 250 | / | ** | ** |
|          |      | 11°-16° | 7,5  | 16,3 | 160 | / | ** | ** |
|          |      | 17°-23° | 11   | 23,7 | 180 | / | ** | ** |
|          |      | 24°-29° | 15   | 32,1 | 200 | / | ** | ** |
|          |      | 30°-31° | 18,5 | 38,8 | 225 | / | ** | ** |

|          |      |         |      |      |     |   |    |    |
|----------|------|---------|------|------|-----|---|----|----|
| 1600-4 * | 1500 | 9°-13°  | 75   | 133  | 280 | / | ** | ** |
|          |      | 14°-16° | 90   | 159  | 280 | / | ** | ** |
|          |      | 17°-19° | 110  | 191  | 315 | / | ** | ** |
|          |      | 20°-22° | 132  | 229  | 315 | / | ** | ** |
|          |      | 23°-25° | 160  | 274  | 315 | / | ** | ** |
| 1600-6 * | 1000 | 26°-29° | 200  | 341  | 315 | / | ** | ** |
|          |      | 9°-11°  | 18,5 | 35,3 | 225 | / | ** | ** |
|          |      | 12°-13° | 22   | 42,1 | 250 | / | ** | ** |
|          |      | 14°-18° | 30   | 56,3 | 250 | / | ** | ** |
|          |      | 19°-21° | 37   | 67,4 | 250 | / | ** | ** |
| 1600-8 * | 750  | 22°-25° | 45   | 81,5 | 280 | / | ** | ** |
|          |      | 26°-29° | 55   | 99,2 | 280 | / | ** | ** |
|          |      | 9°-15°  | 11   | 23,7 | 180 | / | ** | ** |
|          |      | 16°-19° | 15   | 32,1 | 200 | / | ** | ** |
|          |      | 20°-24° | 18,5 | 38,8 | 225 | / | ** | ** |

Die Parameter des Elektromotors können je nach Hersteller abweichen.

Detailliertere Motorparameter hängen von dem benötigten Arbeitspunkt des Ventilators ab.

\* Nur AVSV

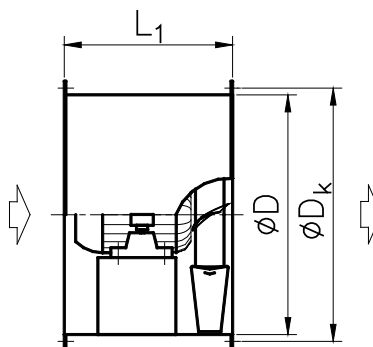
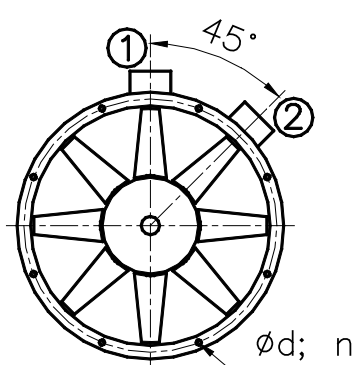
\*\* In Abhängigkeit vom Motor

Parameters of the electric motor can deviate with regard to its producer.

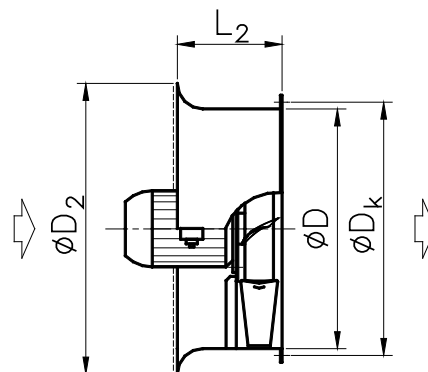
More detailed motor parameters are determined according to the required fan operating point.

\* AVSV only

\*\* depending on the motor

**AVS AXIAL VENTILATOREN**
**Ausführungen und Abmessungen**
**AVS AXIAL FANS**
**Designs and dimensions**


Standard Ausführung  
Standard design



AL - geformtes Einström-Gehäuse  
AL - shaped inlet casing

Standard Lüftungsströmung: **LINKS** (Motor auf der Ansaugseite)  
Standard air flow direction: **LEFT** (motor on suction side)

Standard Montage Position: **HORIZONTAL**  
Standard mounting position: **HORIZONTAL**

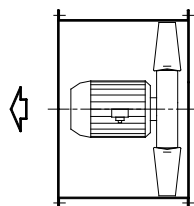
| AVS -  | ØD<br>[mm] | ØD <sub>k</sub><br>[mm] | ØD <sub>o</sub><br>[mm] | Ød<br>[mm] | n  | L <sub>1</sub><br>[mm] | L <sub>1</sub> <sup>*</sup><br>[mm] | L <sub>2</sub><br>[mm] | ØD <sub>2</sub><br>[mm] | Z<br>Flügelanzahl<br>Blades No. | Anschluss<br>box<br>Terminal<br>box |
|--------|------------|-------------------------|-------------------------|------------|----|------------------------|-------------------------------------|------------------------|-------------------------|---------------------------------|-------------------------------------|
| 400    | 400        | 438                     | 464                     | Ø9,5       | 12 | 400                    |                                     | 240                    | 500                     | 7                               | 1                                   |
| 450    | 450        | 487                     | 513                     | Ø9,5       | 12 | 450                    |                                     | 240                    | 550                     | 7                               | 1                                   |
| 500    | 500        | 541                     | 567                     | Ø9,5       | 12 | 500                    |                                     | 240                    | 650                     | 7                               | 1                                   |
| 560    | 560        | 605                     | 639                     | Ø11,5      | 16 | 550                    |                                     | 240                    | 710                     | 8                               | 1                                   |
| 630    | 630        | 674                     | 708                     | Ø11,5      | 16 | 650                    | 500                                 | 240                    | 790                     | 8                               | 1                                   |
| 710 S  | 710        | 751                     | 785                     | Ø11,5      | 16 | 700                    | 550                                 | 240                    | 870                     | 9                               | 2                                   |
| 710    | 710        | 751                     | 785                     | Ø11,5      | 16 | 700                    | 550                                 | 240                    | 870                     | 7                               | 2                                   |
| 800    | 800        | 837                     | 871                     | Ø11,5      | 24 | 650                    |                                     | 300                    | 960                     | 8                               | 2                                   |
| 900    | 900        | 958                     | 1004                    | Ø14        | 24 | 800                    | 700                                 | /                      | 1100                    | 8                               | 2                                   |
| 1000   | 1000       | 1067                    | 1107                    | Ø14        | 24 | 800                    | 700                                 | /                      | 1200                    | 8                               | 2                                   |
| 1120   | 1120       | 1200                    | 1250                    | Ø18        | 32 | 1000                   | 800                                 | /                      | 1360                    | 9                               | 2                                   |
| 1250 S | 1250       | 1337                    | 1387                    | Ø18        | 32 | 1000                   | 800                                 | /                      | 1480                    | 11                              | 2                                   |
| 1250   | 1250       | 1337                    | 1387                    | Ø18        | 32 | 1000                   | 800                                 | /                      | 1480                    | 8                               | 2                                   |

L<sub>1</sub><sup>\*</sup> – Für 4,6-Pol Elektromotor (AVS 630 – 710)  
– za 6,8- Pol Elektromotor (AVS 900 – 1250)

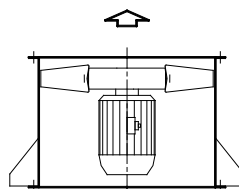
L<sub>1</sub><sup>\*</sup> – For 4,6-pole motors (AVS 630 – 710)  
– For 6,8-pole motors (AVS 900 – 1250)

**Luftströmungsrichtung und  
Montagepositionen**

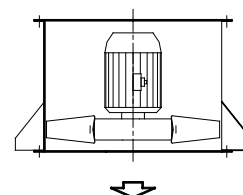
Luftströmungsrichtung: Rechts (Motor auf der  
Druckseite)  
Airflow direction: **RIGHT** (motor on pressure side)


**Airflow direction and mounting positions**

Standard vertikale Ausführung  
Standard vertical design



Vertikale Ausführung:  
**DOWN**  
Vertical design: **DOWN**



Kombinationen mit speziellen Montage Positionen und Luftströmungsrichtungen sind ebenfalls möglich.  
Combinations with special mounting positions and right air flow direction are also possible.

## Schalldruckpegel AVS

Der Schalldruckpegel ist abhängig von der geförderten Luftmenge und dem Totaldruck vom Ventilator (s. Diagramm  $LW_t$ ).

Die Korrekturwerte sind abhängig von:

- Ventilator-Durchmesser ( $K_D$ );
- Flügelwinkel ( $K_\alpha$ );
- Position des Betriebspunktes auf der Kurve ( $K_L$ ).

Der Schalldruckpegel errechnet sich wie folgt:

$$LW = LW_t + K_D + K_\alpha + K_L \text{ (dB)}$$

Der Schalldruckpegel in den verschiedenen Oktavbändern wird über folgende Gleichung bestimmt:

$$LW_{\text{okt}} = LW + K_{\text{okt}} \text{ (dB)}$$

## Sound level data AVS

Sound power level depends on the quantity of supplied air and the total pressure of the fan.

Correction values depend of:

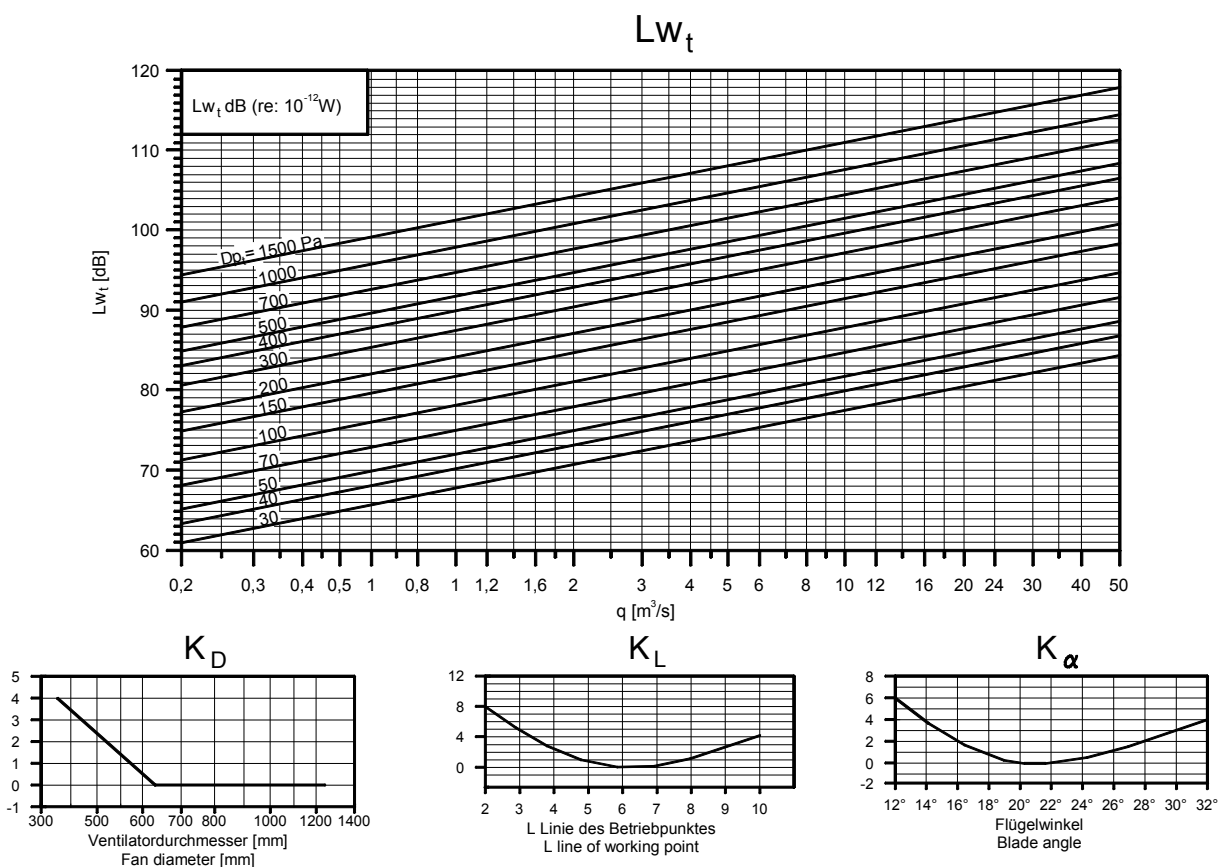
- fan diameter ( $K_D$ );
- blades angle ( $K_\alpha$ );
- position of operating point in graph ( $K_L$ ).

The sound power level is:

$$LW = LW_t + K_D + K_\alpha + K_L \text{ (dB)}$$

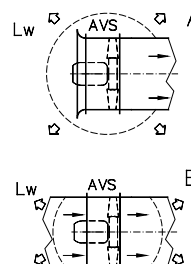
Sound power level in the individual octave bands are determined by equation:

$$LW_{\text{okt}} = LW + K_{\text{okt}} \text{ (dB)}$$



| Installation<br>Installation. | $f_r$ (Hz) | $K_{\text{okt}}$ (dB) |     |     |     |     |     |     |     |
|-------------------------------|------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|
|                               |            | 63                    | 125 | 250 | 500 | 1k  | 2k  | 4k  | 8k  |
| "A"                           | 90 – 180   | -8                    | -7  | -6  | -5  | -8  | -15 | -22 | -30 |
|                               | 181 – 355  | -16                   | -8  | -7  | -6  | -5  | -8  | -15 | -22 |
|                               | 356 – 710  | -22                   | -16 | -8  | -7  | -6  | -5  | -8  | -15 |
| "B"                           | 90 – 180   | -7                    | -7  | -7  | -9  | -10 | -22 | -35 | -49 |
|                               | 181 – 355  | -7                    | -7  | -7  | -7  | -9  | -10 | -22 | -35 |
|                               | 356 – 710  | -8                    | -7  | -7  | -7  | -7  | -9  | -10 | -22 |

Installation / Installation

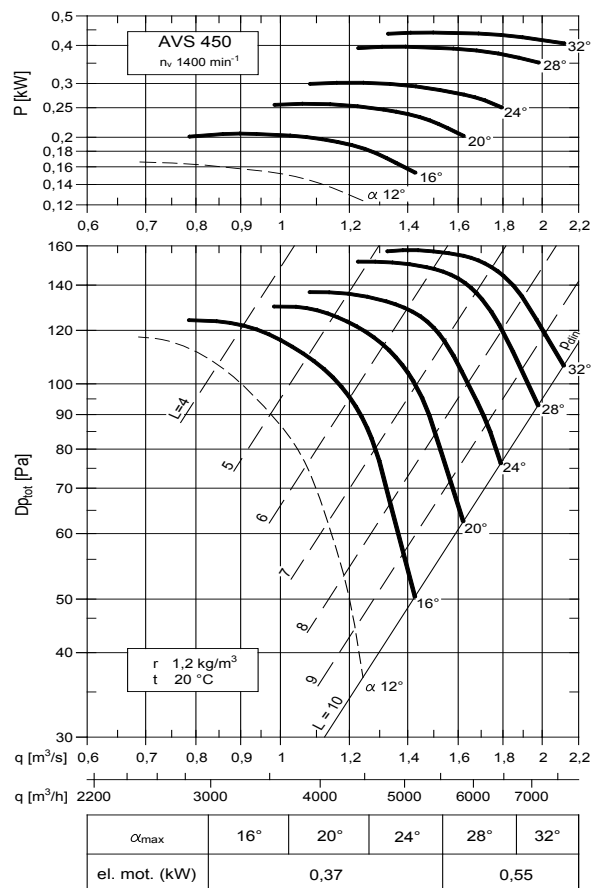
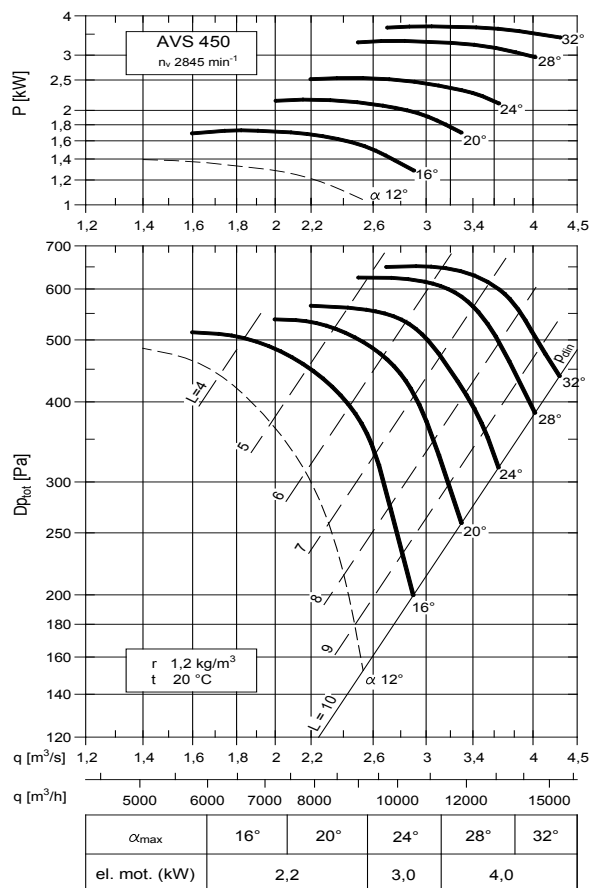
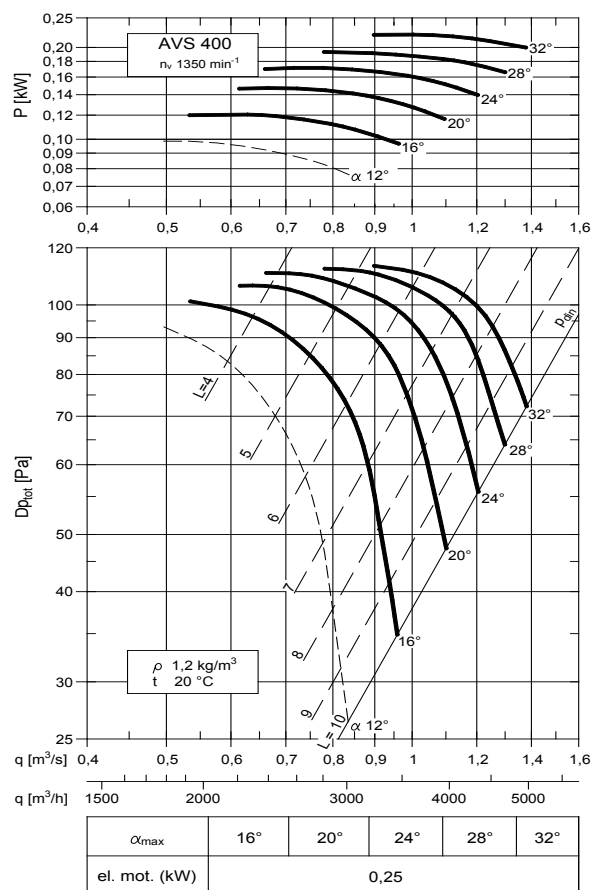
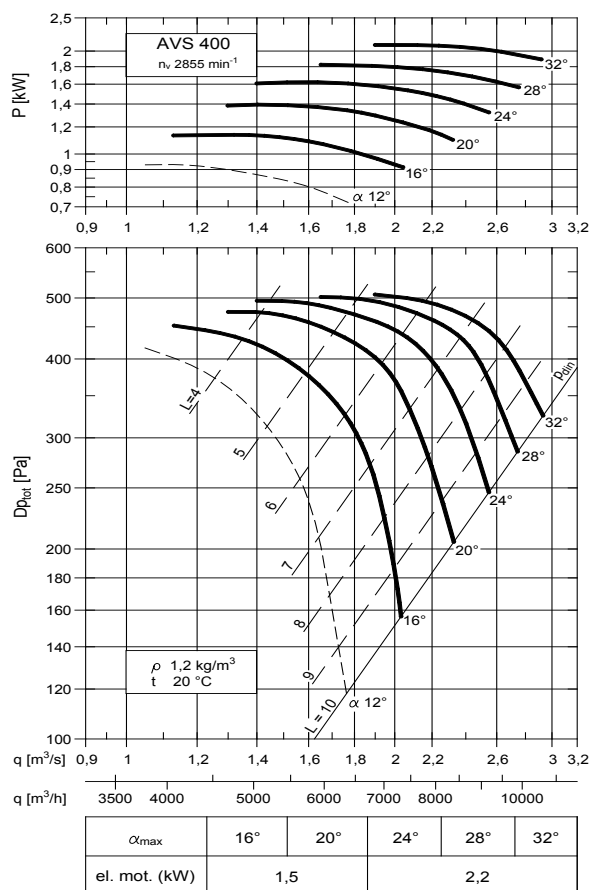


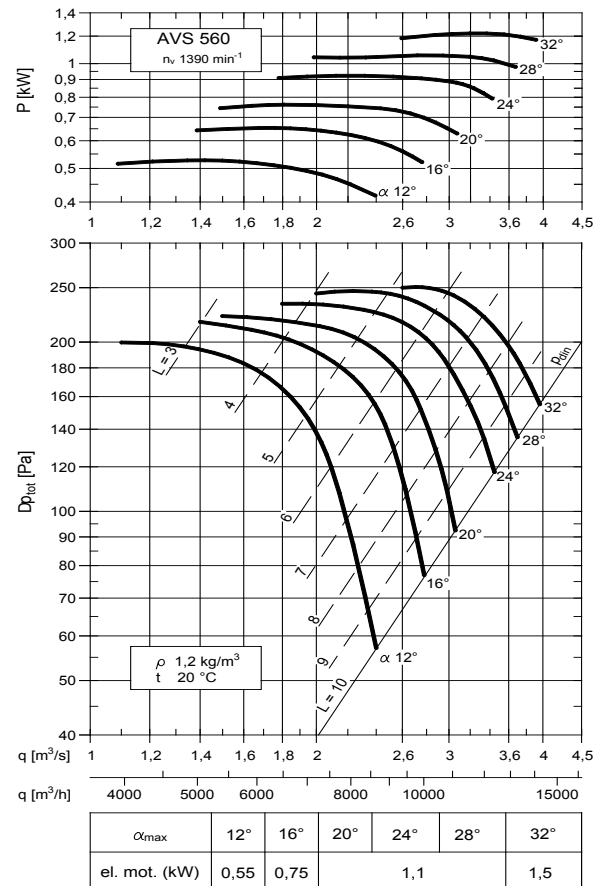
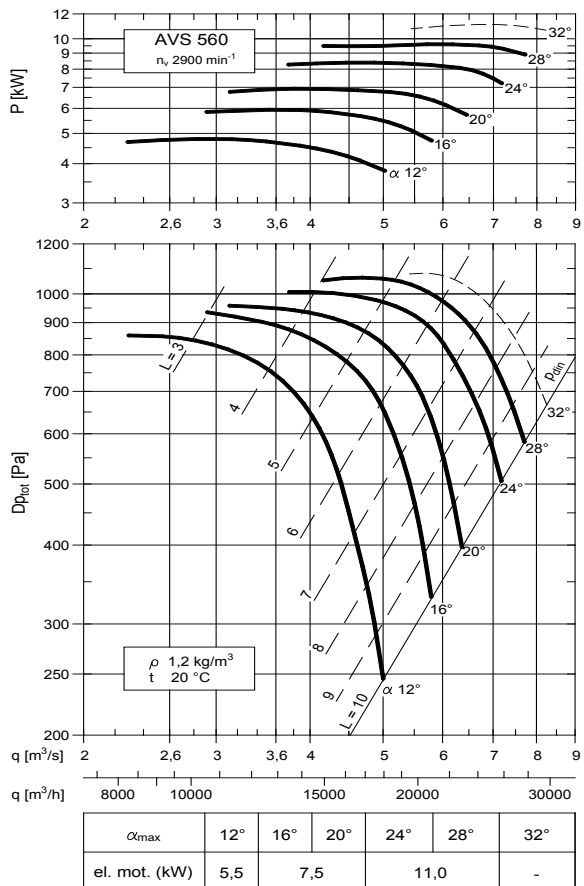
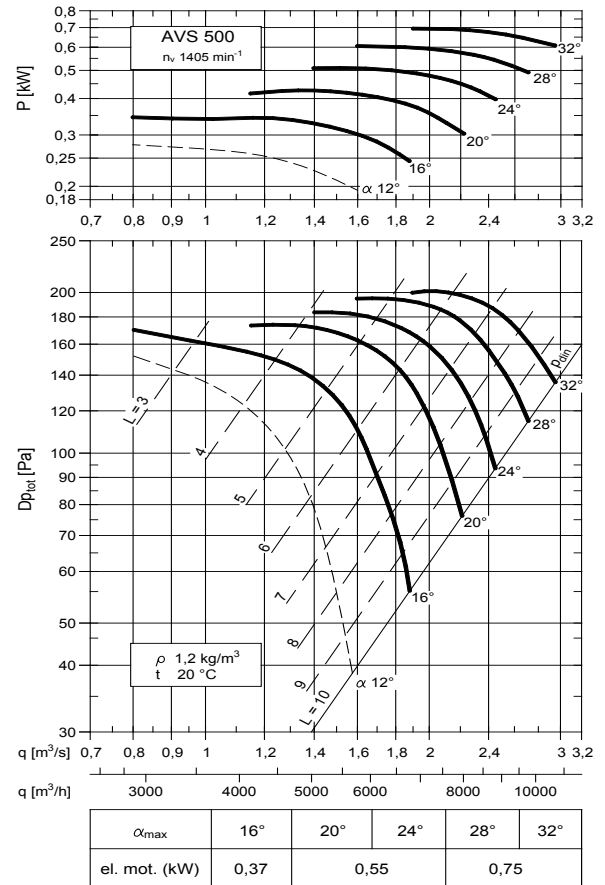
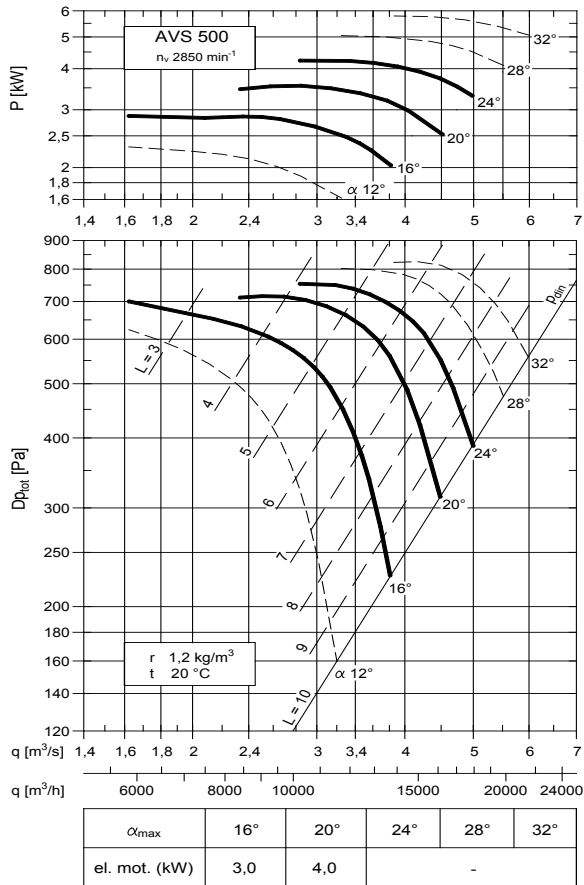
$$f_r = \frac{n}{60} \cdot z \text{ [Hz]} \quad \text{Flüglfrequenz (Hz)}$$

$$f_r = \frac{n}{60} \cdot z \text{ [Hz]} \quad \text{Blades frequency (Hz)}$$

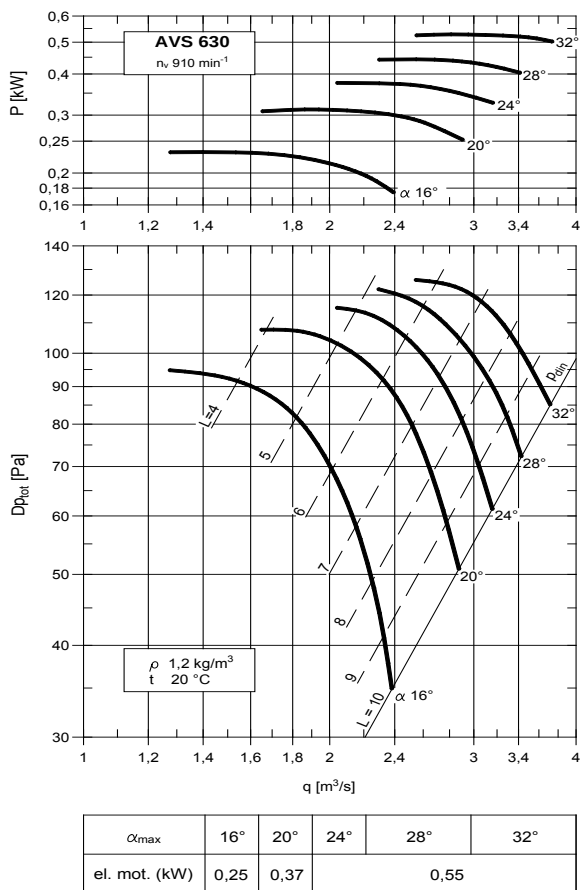
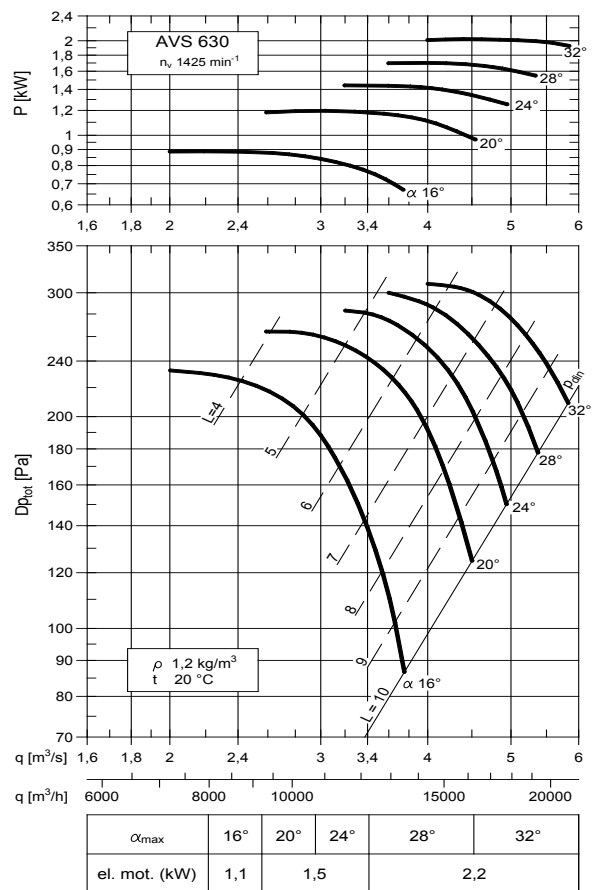
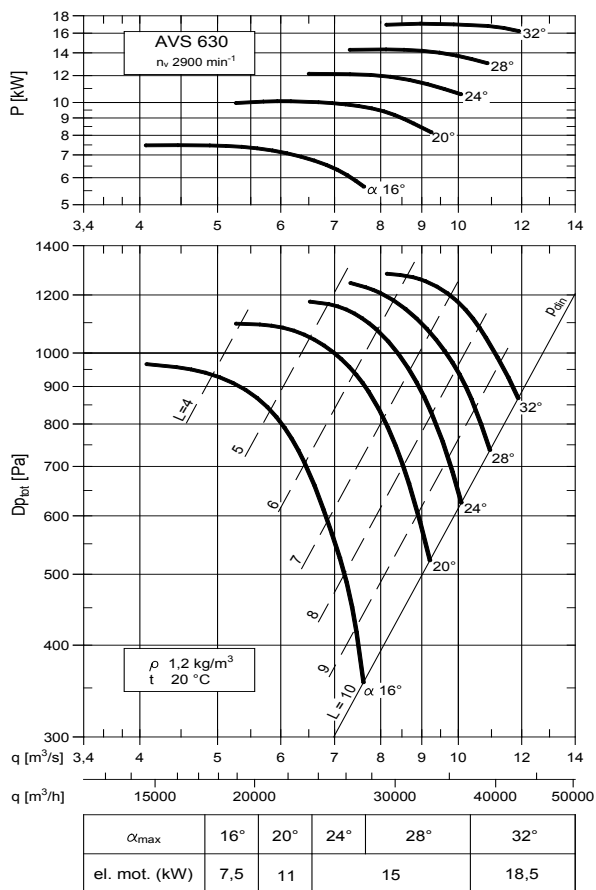
$z$  – Anzahl der Flügel (s. Seite 5)  
 $n$  – Drehzahl ( $\text{min}^{-1}$ )

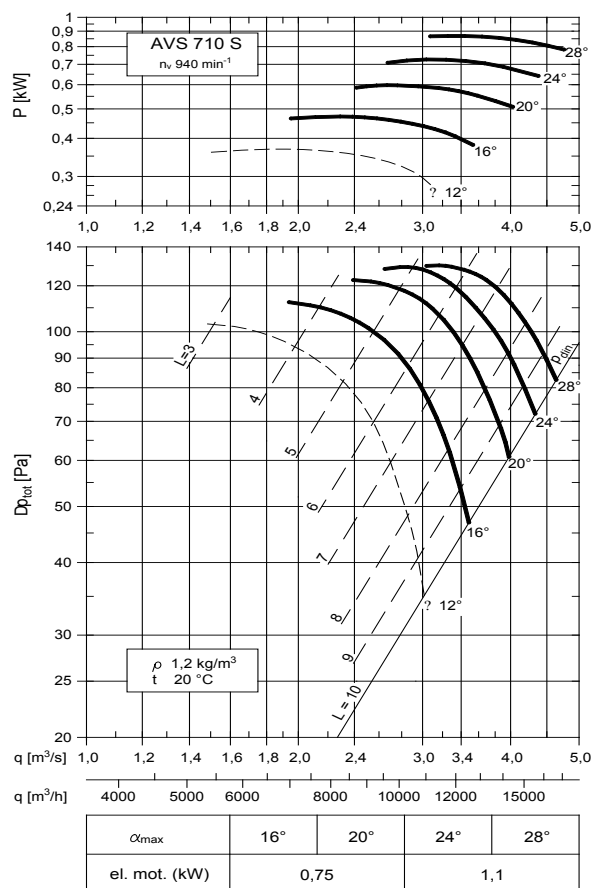
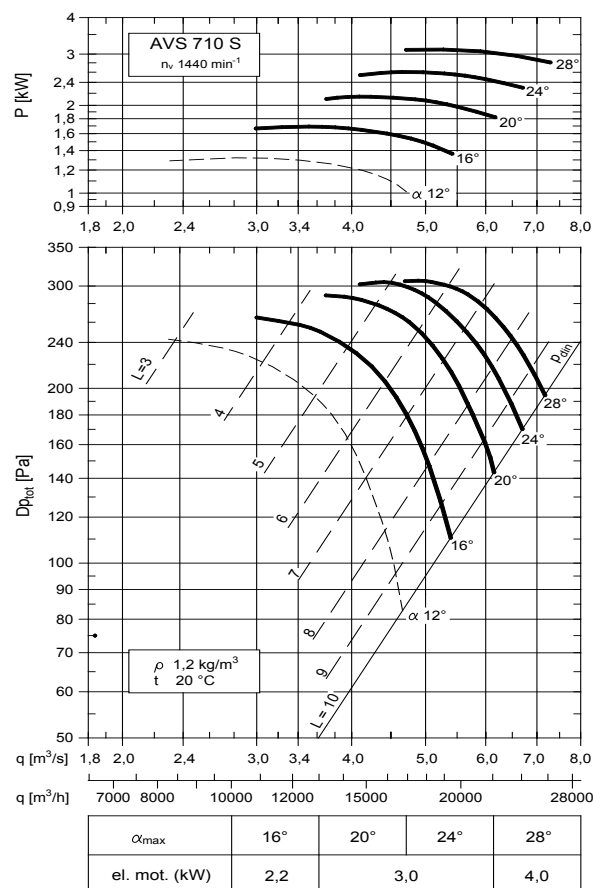
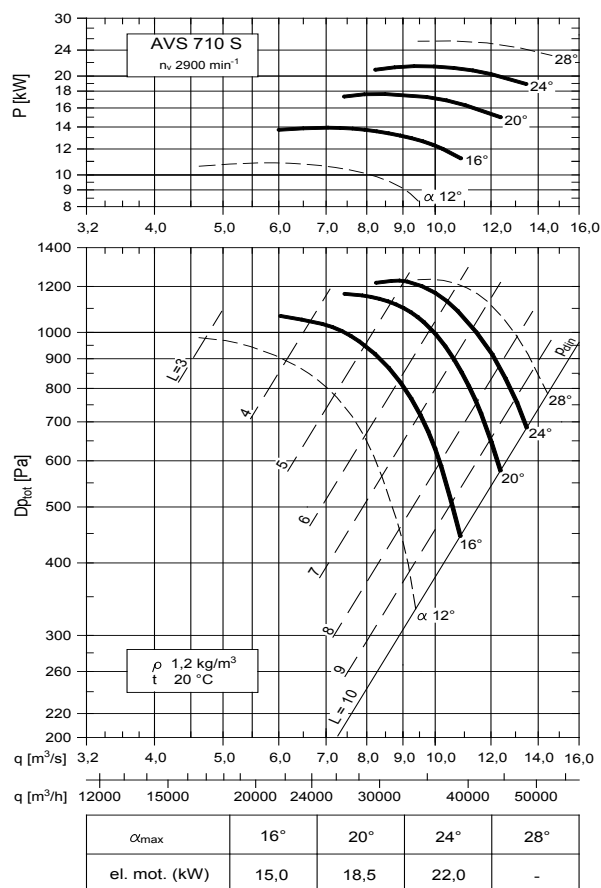
$z$  – blades number (see page 5)  
 $n$  – RPM ( $\text{min}^{-1}$ )

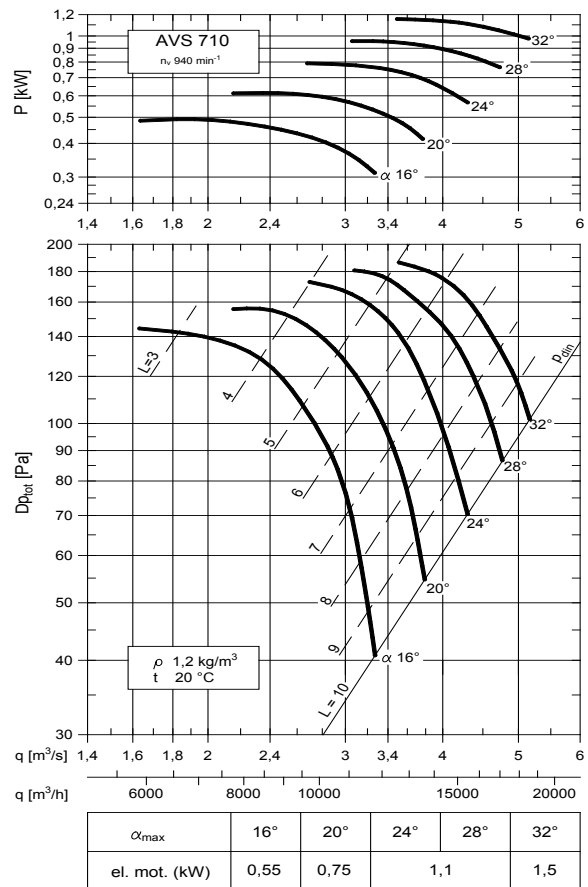
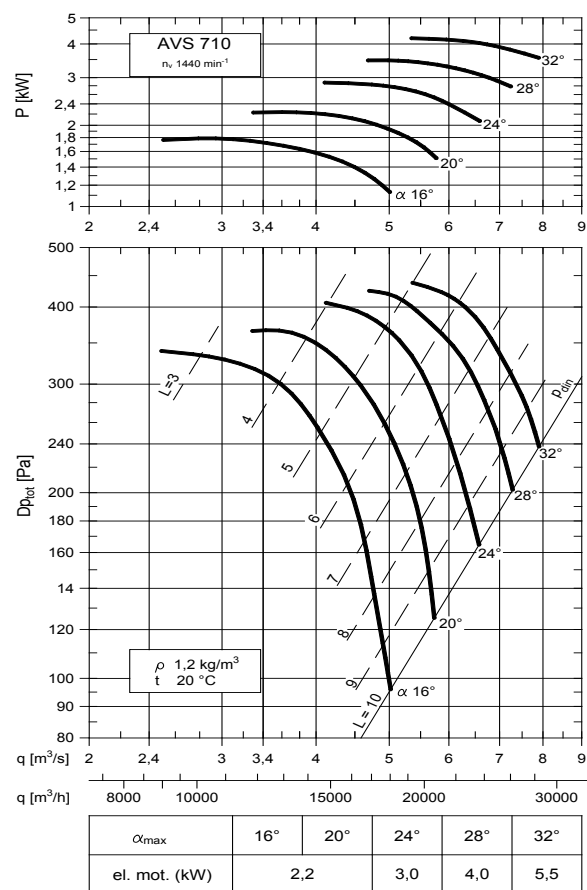
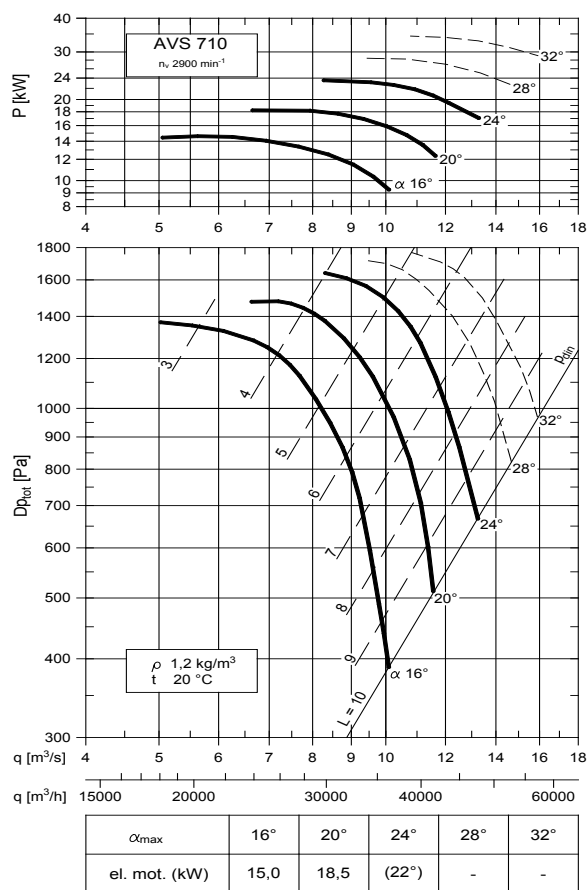


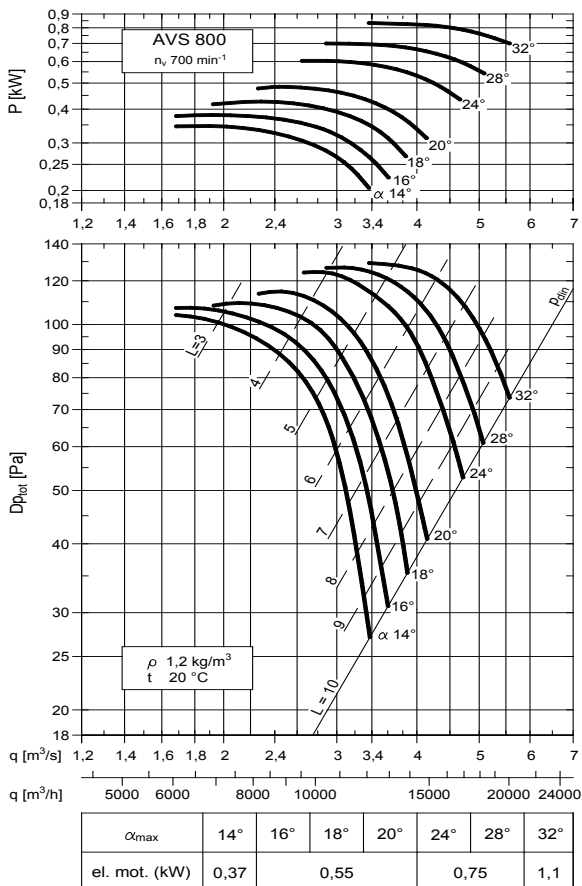
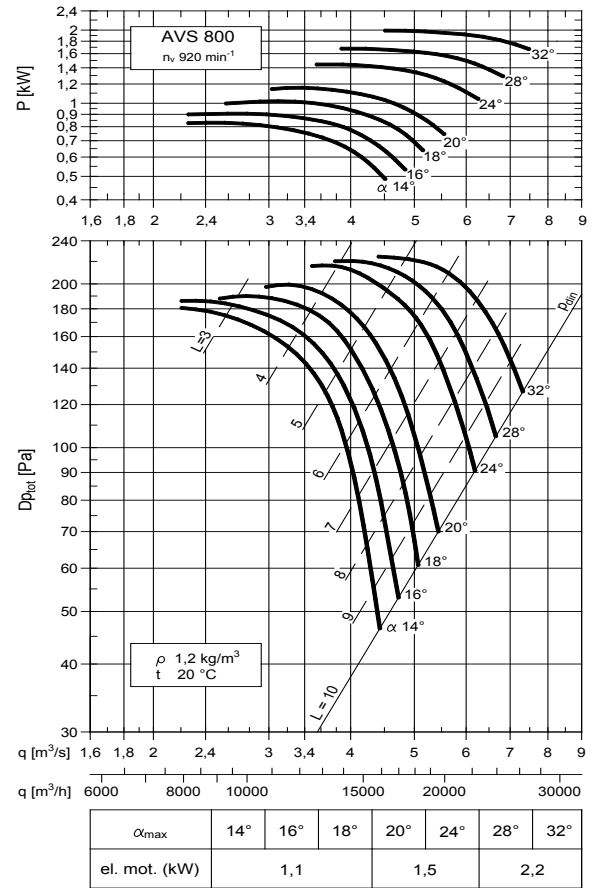
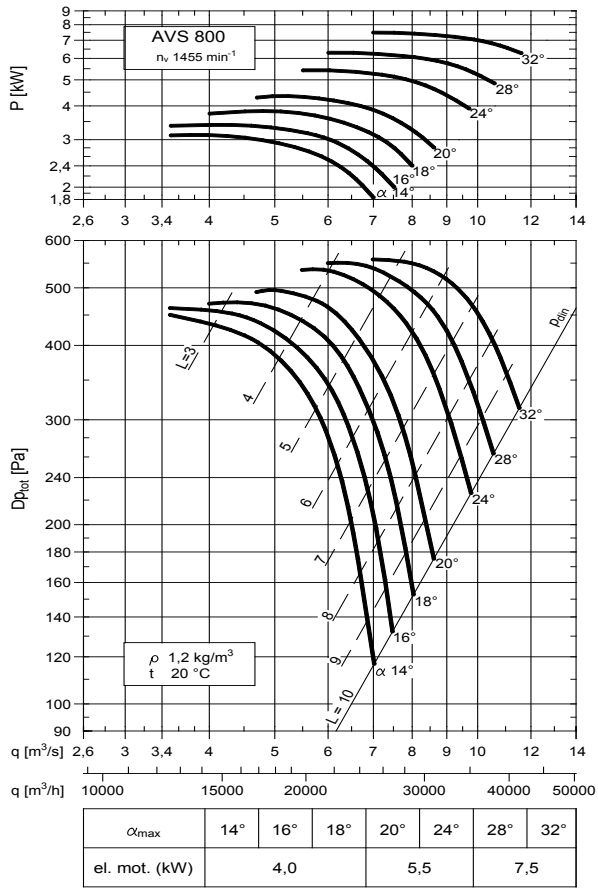


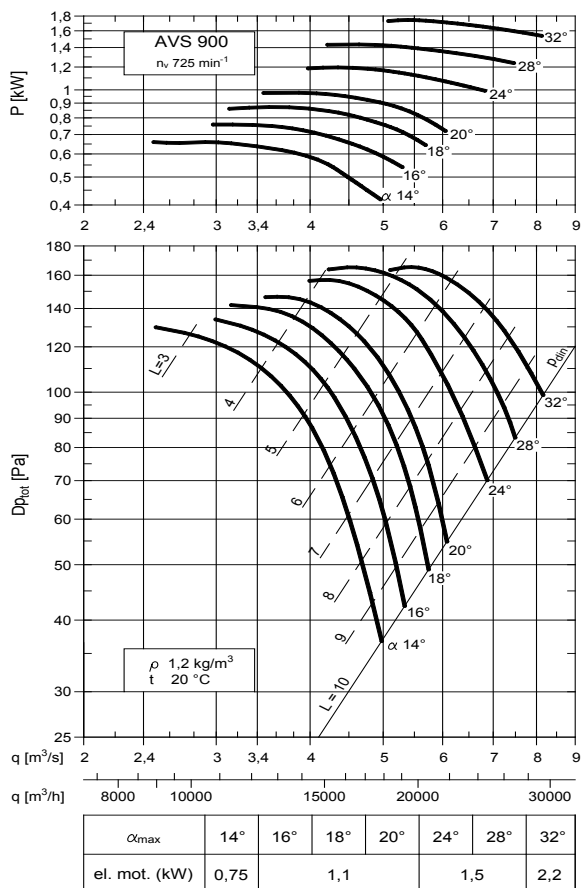
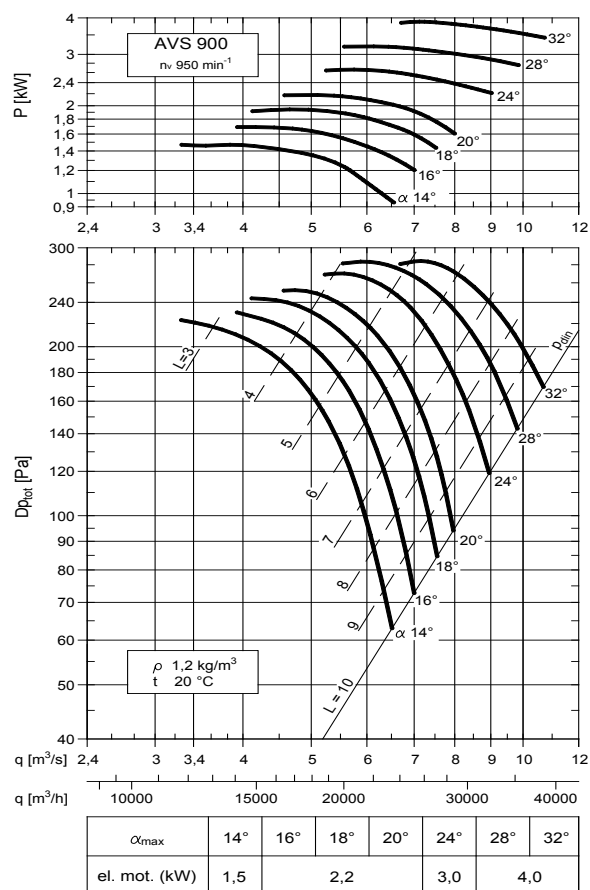
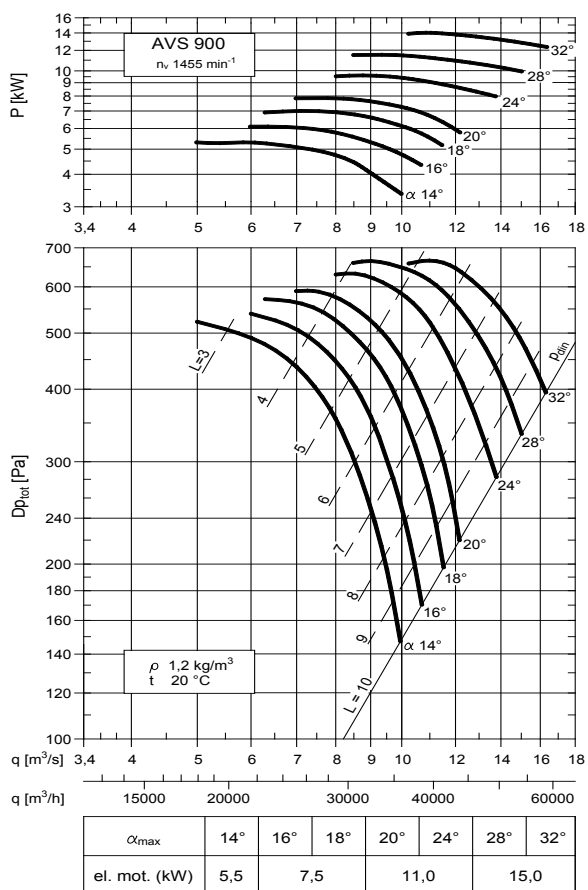


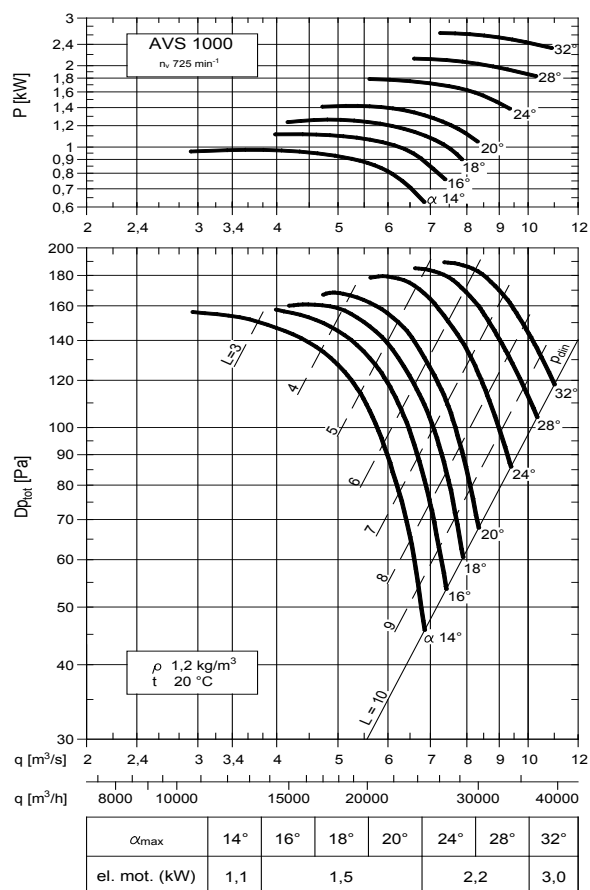
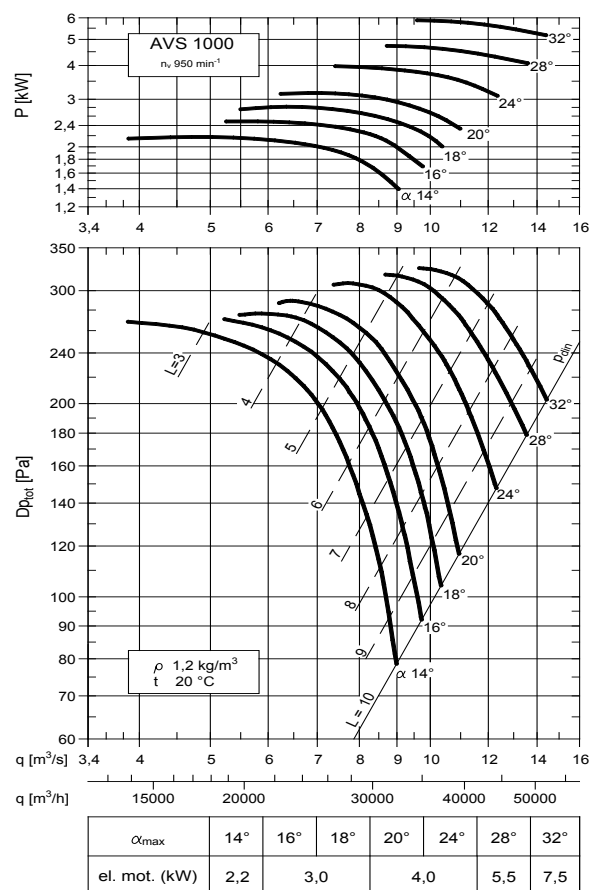
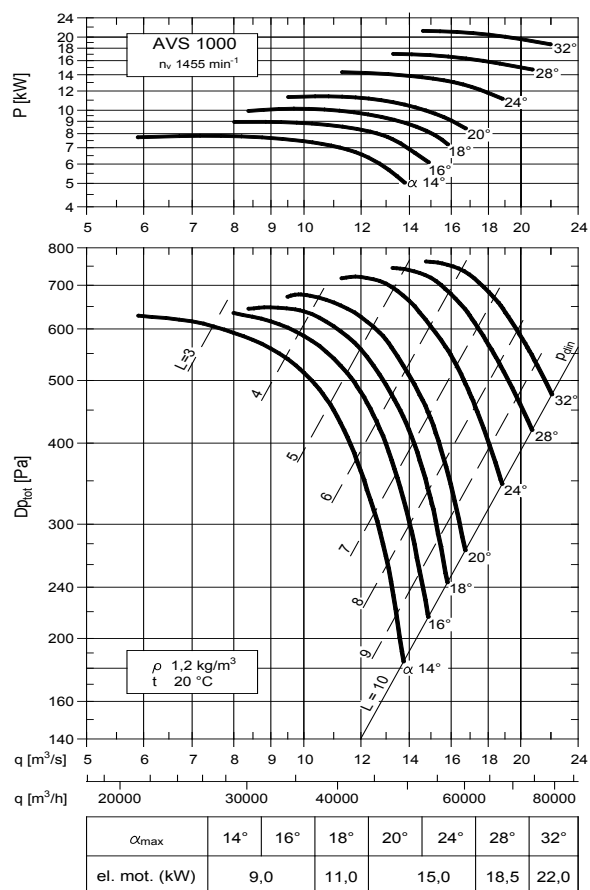




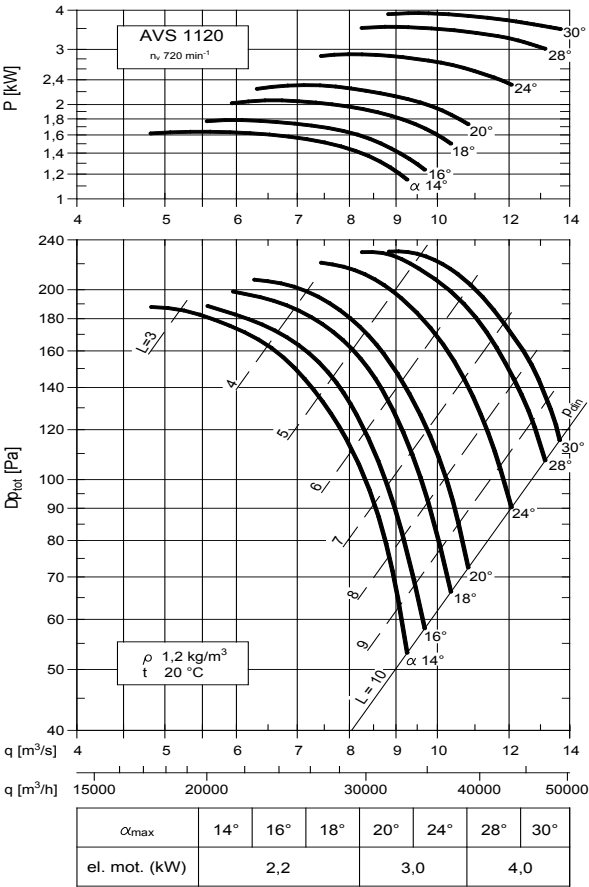
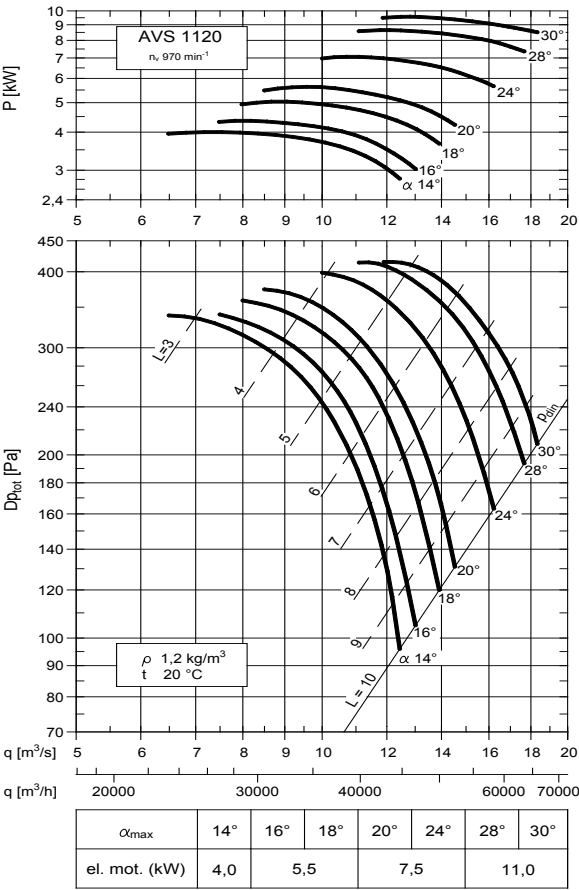
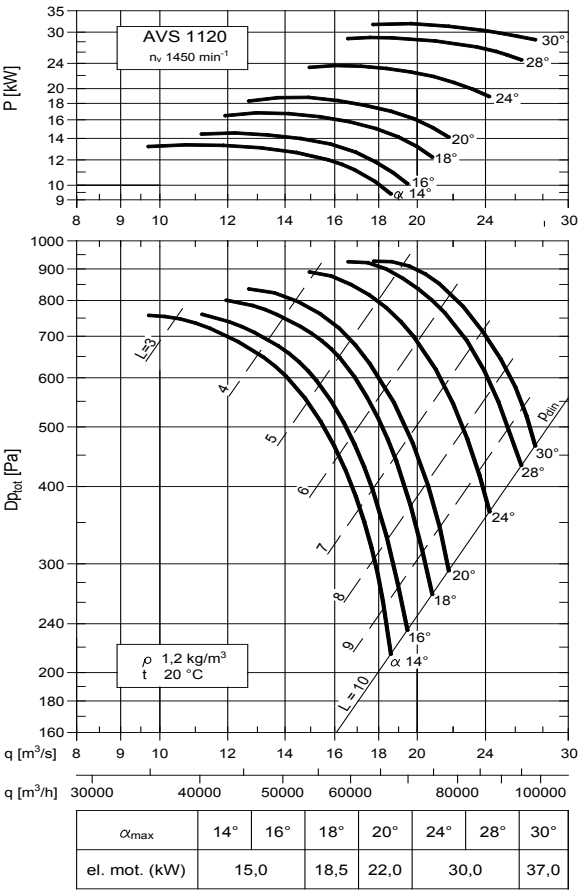


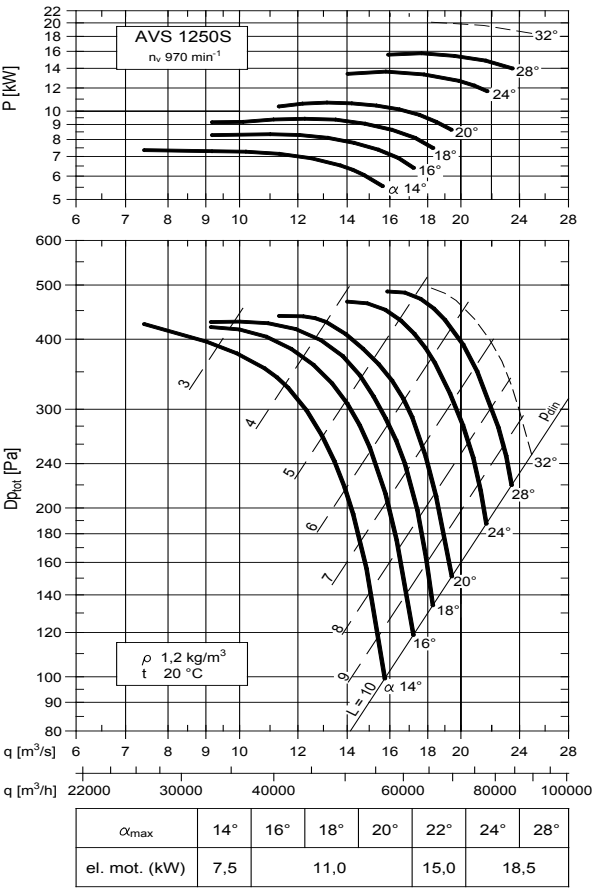
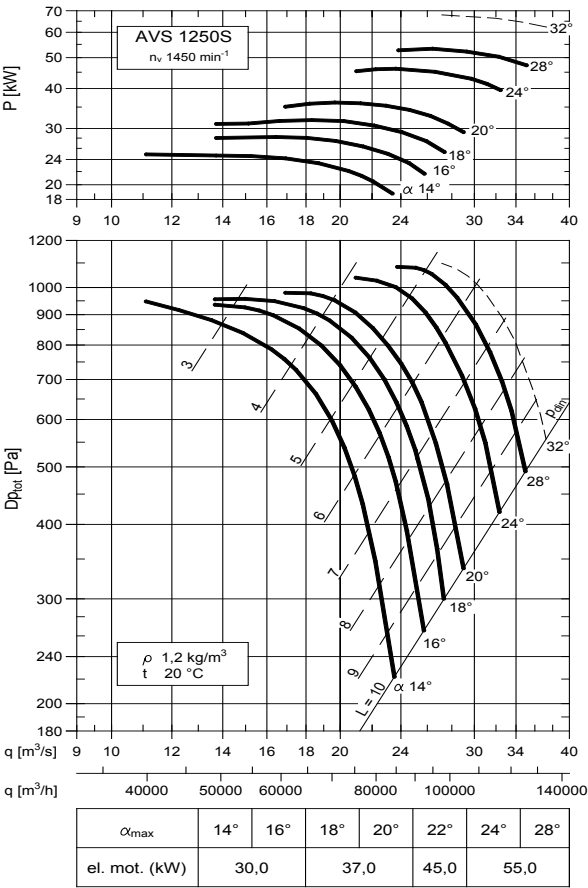


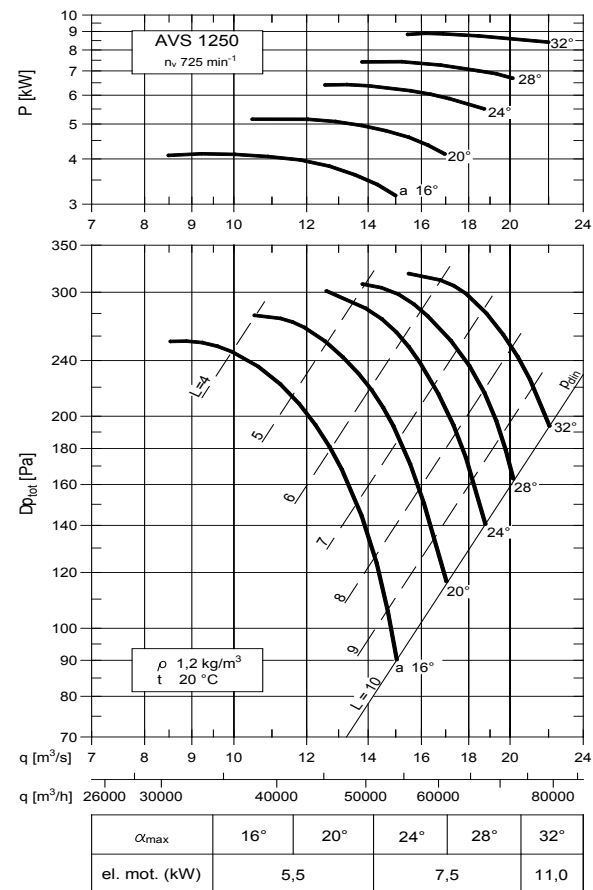
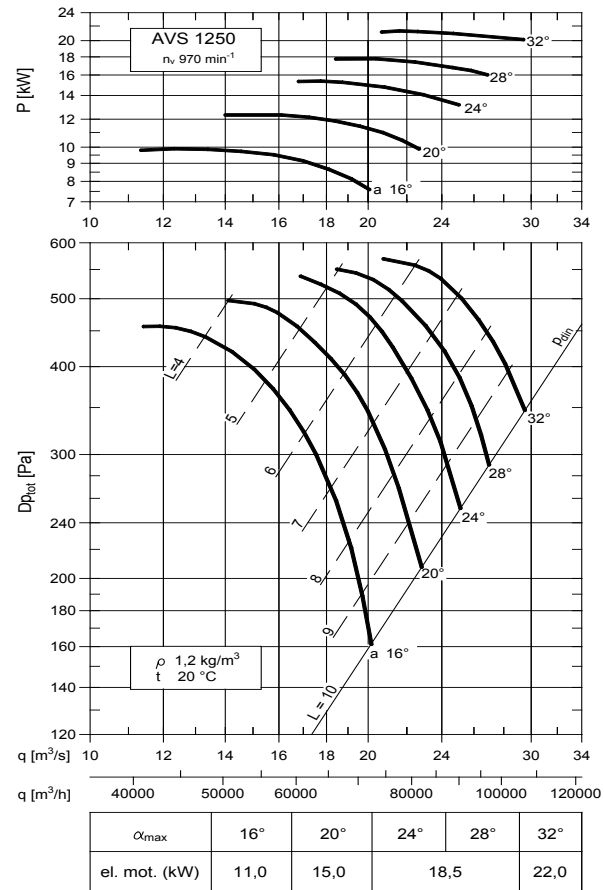
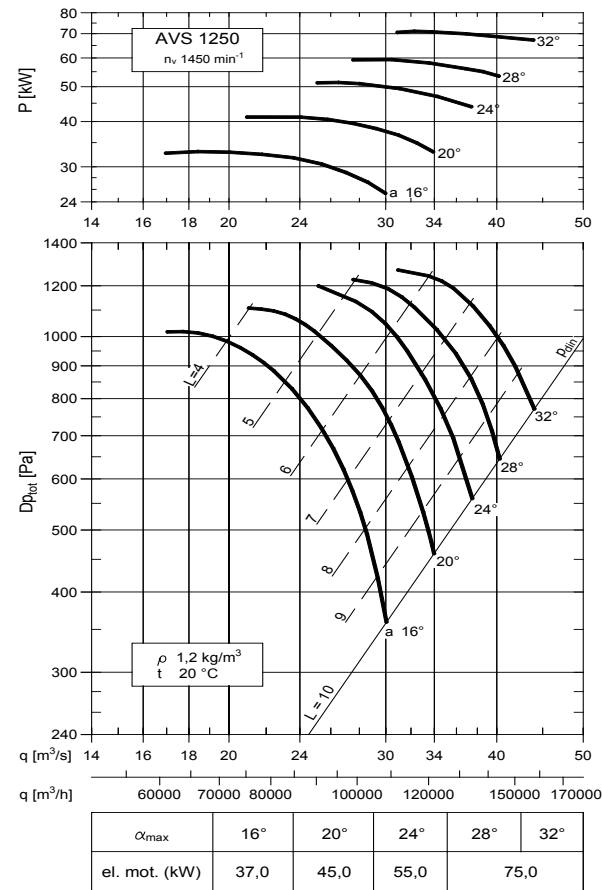






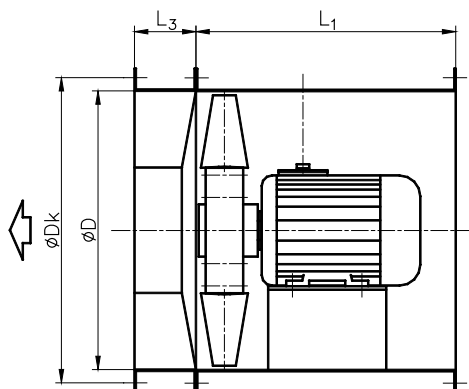






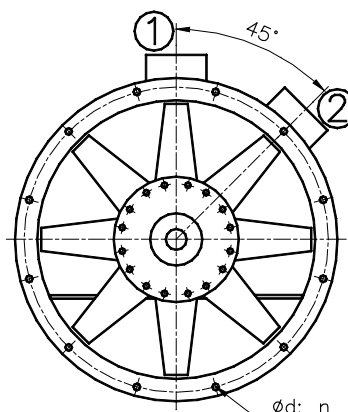
## AVSV AXIALVENTILATOREN

### Abmessungen



## AVSV AXIAL FANS

### Dimensions



Standard Montageposition: **HORIZONTAL**  
Standard mounting position: **HORIZONTAL**

| AVS -  | $\varnothing D$<br>[mm] | $\varnothing D_k$<br>[mm] | $\varnothing D_o$<br>[mm] | $\varnothing d$<br>[mm] | n  | $L_1$<br>[mm] | $L_1^*$<br>[mm] | $L_3$<br>[mm] | Z<br>Flügelanzahl<br>Blades No. | Anschluss<br>box<br>Terminal<br>box |
|--------|-------------------------|---------------------------|---------------------------|-------------------------|----|---------------|-----------------|---------------|---------------------------------|-------------------------------------|
| 400    | 400                     | 438                       | 464                       | $\varnothing 9,5$       | 12 | 400           |                 | 110           | 7                               | 1                                   |
| 450    | 450                     | 487                       | 513                       | $\varnothing 9,5$       | 12 | 450           |                 | 110           | 7                               | 1                                   |
| 500    | 500                     | 541                       | 567                       | $\varnothing 9,5$       | 12 | 500           |                 | 110           | 7                               | 1                                   |
| 560    | 560                     | 605                       | 639                       | $\varnothing 11,5$      | 16 | 550           |                 | 110           | 8                               | 1                                   |
| 630    | 630                     | 674                       | 708                       | $\varnothing 11,5$      | 16 | 650           | 500             | 110           | 8                               | 1                                   |
| 710 S  | 710                     | 751                       | 785                       | $\varnothing 11,5$      | 16 | 700           | 550             | 140           | 9                               | 2                                   |
| 710    | 710                     | 751                       | 785                       | $\varnothing 11,5$      | 16 | 700           | 550             | 140           | 7                               | 2                                   |
| 800    | 800                     | 837                       | 871                       | $\varnothing 11,5$      | 24 | 650           |                 | 140           | 8                               | 2                                   |
| 900    | 900                     | 958                       | 1004                      | $\varnothing 14$        | 24 | 800           | 700             | 140           | 8                               | 2                                   |
| 1000   | 1000                    | 1067                      | 1107                      | $\varnothing 14$        | 24 | 800           | 700             | 140           | 8                               | 2                                   |
| 1120   | 1120                    | 1200                      | 1250                      | $\varnothing 18$        | 32 | 1000          | 800             | 140           | 9                               | 2                                   |
| 1250 S | 1250                    | 1337                      | 1387                      | $\varnothing 18$        | 32 | 1000          | 800             | 140           | 11                              | 2                                   |
| 1250   | 1250                    | 1337                      | 1387                      | $\varnothing 18$        | 32 | 1000          | 800             | 250           | 8                               | 2                                   |
| 1400   | 1400                    | 1491                      | 1552                      | $\varnothing 18$        | 32 | **            | **              | 250           | 8                               | 2                                   |
| 1600   | 1600                    | 1663                      | 1732                      | $\varnothing 18$        | 40 | **            | **              | 250           | 8                               | 2                                   |

$L_1^*$  – za 4,6-Pol Elektromotoren (AVS 630 – 710)  
– za 6,8- Pol Elektromotoren (AVS 900 – 1250)

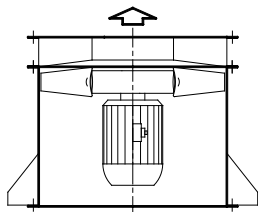
\*\* Abhängig von der Elektromotor Größe

$L_1^*$  – For 4,6-pole motors (AVS 630 – 710)  
– For 6,8-pole motors (AVS 900 – 1250)

\*\* Depends on electric motor's size

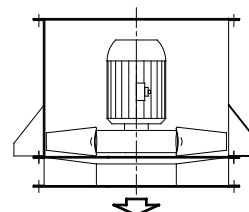
### Montagepositionen

Standard Vertikale Ausführung  
Standard vertical design



### Mounting positions

Vertikale Ausführung: DOL  
Vertical design: DOWN



Spezielle Ausführungen und Montage Positionen auf Kundenwunsch.  
Special designs and mounting positions on customer request.

## Schalldruckpegel AVSV

Der Schalldruckpegel ist abhängig von der geförderten Luftmenge und dem Totaldruck vom Ventilator (s. Diagramm  $L_{Wt}$ ).

Die Korrekturwerte sind abhängig von:

- Ventilator-Durchmesser ( $K_D$ );
- Flügelwinkel ( $K_\alpha$ );
- Position des Betriebspunktes auf der Kurve ( $K_L$ ).

Der Schalldruckpegel errechnet sich wie folgt:

$$L_W = L_{Wt} + K_D + K_\alpha + K_L \text{ (dB)}$$

Der Schalldruckpegel in den verschiedenen Oktavbändern wird über folgende Gleichung bestimmt:

$$L_{W_{\text{okt}}} = L_W + K_{\text{okt}} \text{ (dB)}$$

## Sound level data AVSV

Sound power level depends on the quantity of supplied air and the total pressure of the fan.

Correction values depend of:

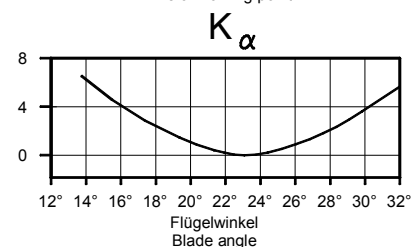
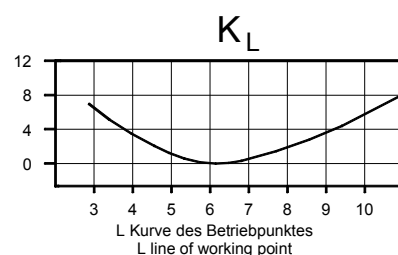
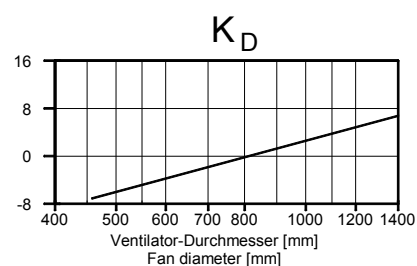
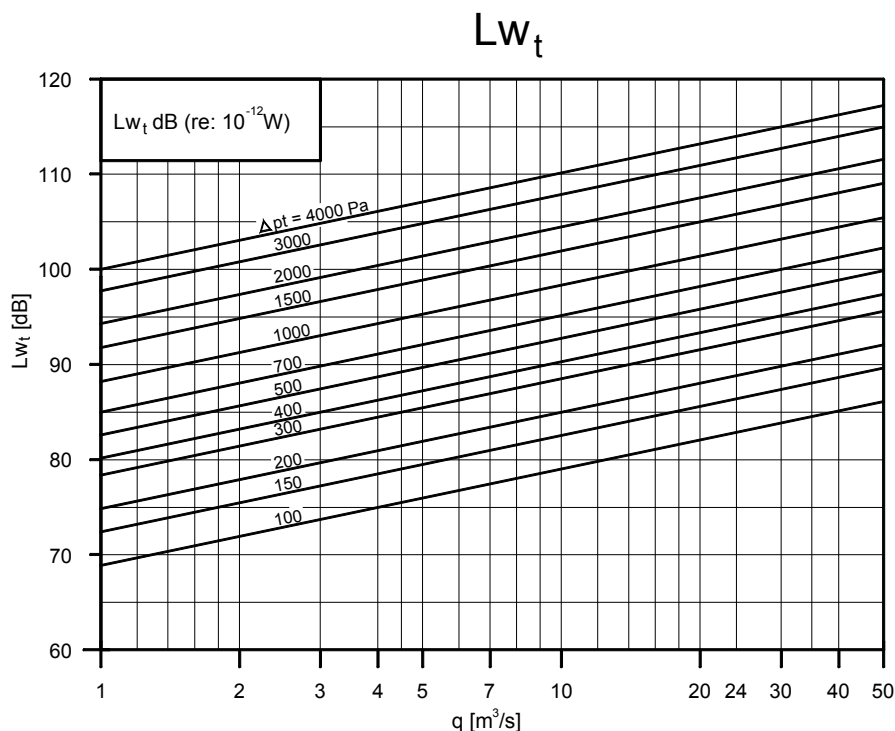
- fan diameter ( $K_D$ );
- blades angle ( $K_\alpha$ );
- position of operating point in garph ( $K_L$ ).

The sound power level is:

$$L_W = L_{Wt} + K_D + K_\alpha + K_L \text{ (dB)}$$

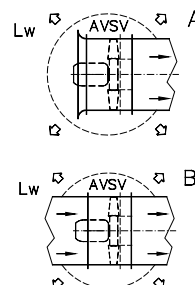
Sound power level in the individual octave bands are determined by equation:

$$L_{W_{\text{okt}}} = L_W + K_{\text{okt}} \text{ (dB)}$$



| Vgradnja<br>Installat. | $f_r$ (Hz) | $K_{\text{okt}}$ (dB) |     |     |     |     |     |     |     |
|------------------------|------------|-----------------------|-----|-----|-----|-----|-----|-----|-----|
|                        |            | 63                    | 125 | 250 | 500 | 1k  | 2k  | 4k  | 8k  |
| "A"                    | 90 – 180   | -16                   | -8  | -4  | -6  | -10 | -16 | -22 | -28 |
|                        | 181 – 355  | -18                   | -14 | -7  | -4  | -7  | -11 | -17 | -24 |
|                        | 356 – 710  | -21                   | -16 | -13 | -6  | -4  | -8  | -12 | -20 |
| "B"                    | 90 – 180   | -16                   | -11 | -8  | -13 | -19 | -27 | -32 | -40 |
|                        | 181 – 355  | -18                   | -17 | -11 | -11 | -16 | -22 | -29 | -36 |
|                        | 356 – 710  | -21                   | -19 | -17 | -13 | -13 | -19 | -24 | -32 |

## Installation / Instalation

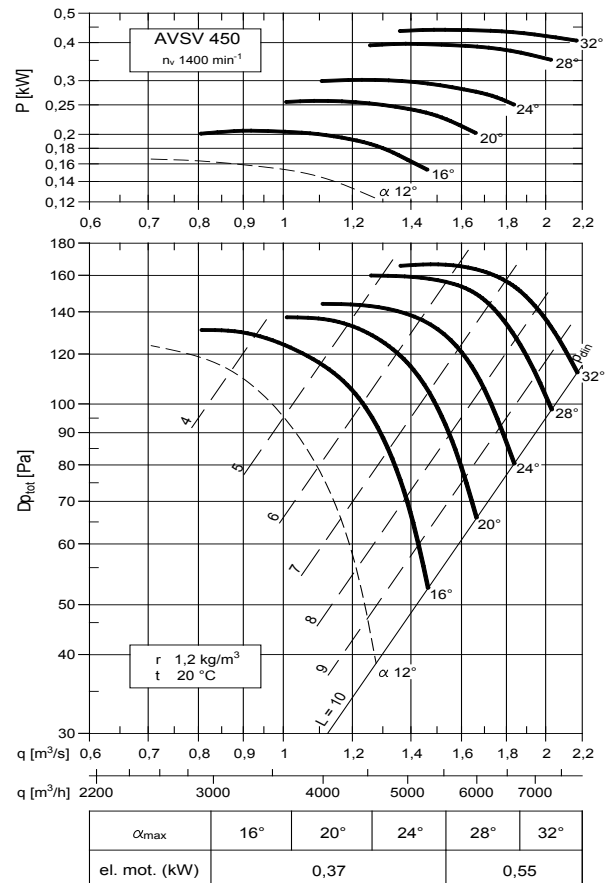
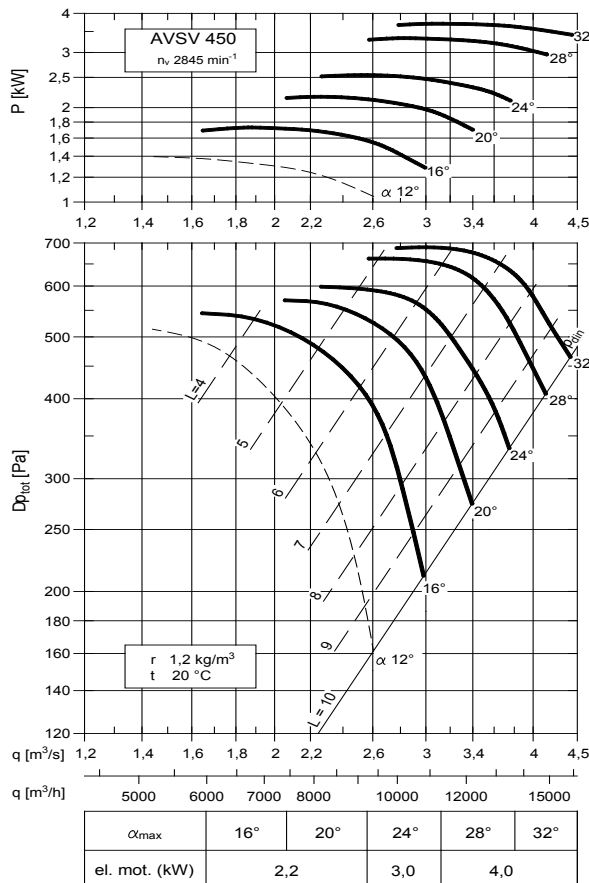
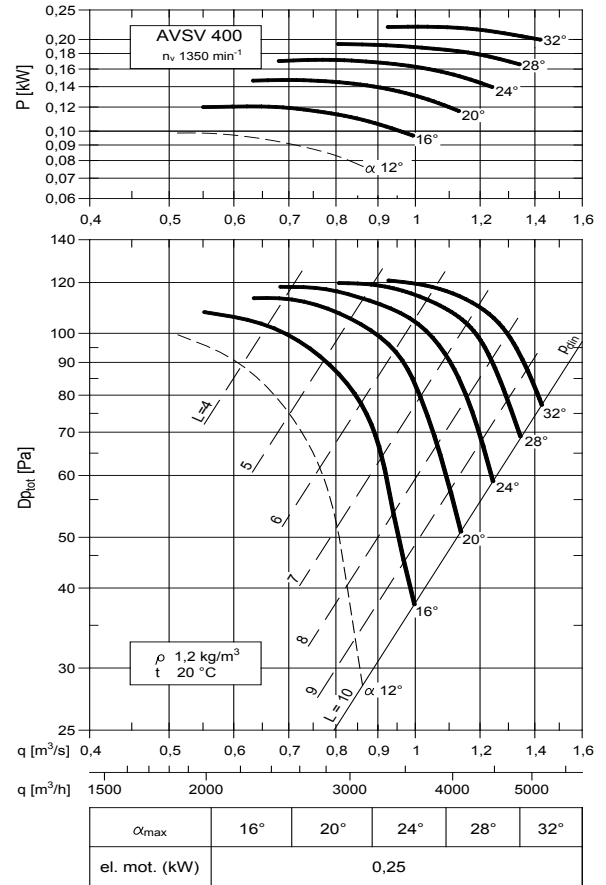
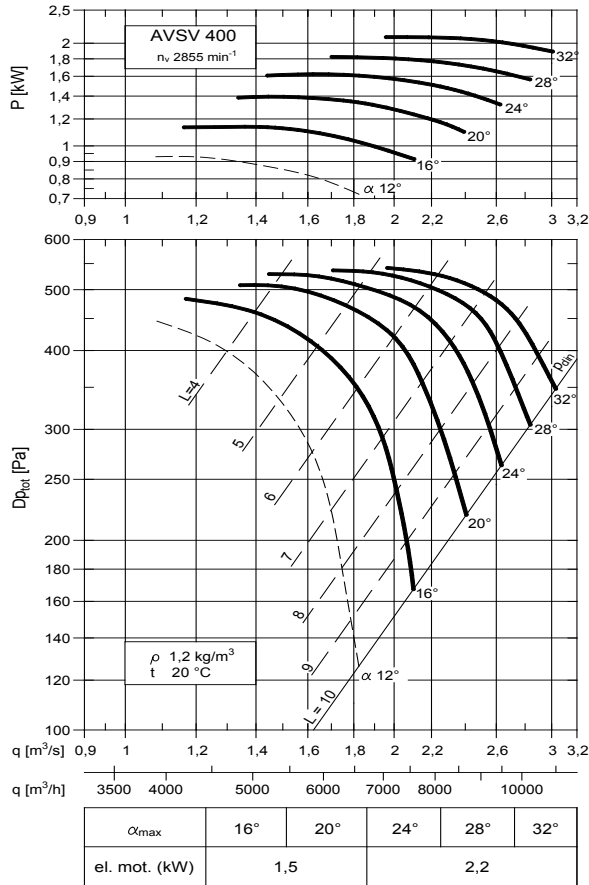


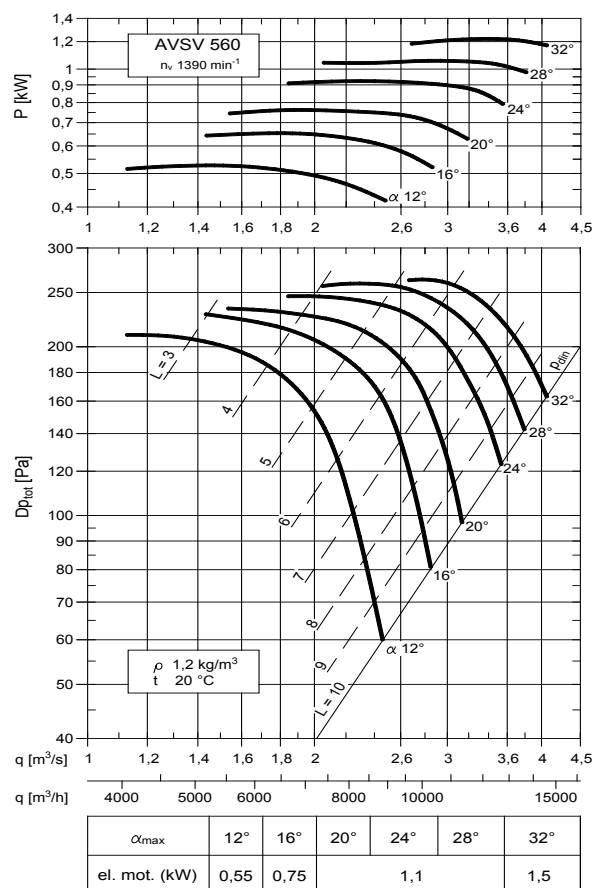
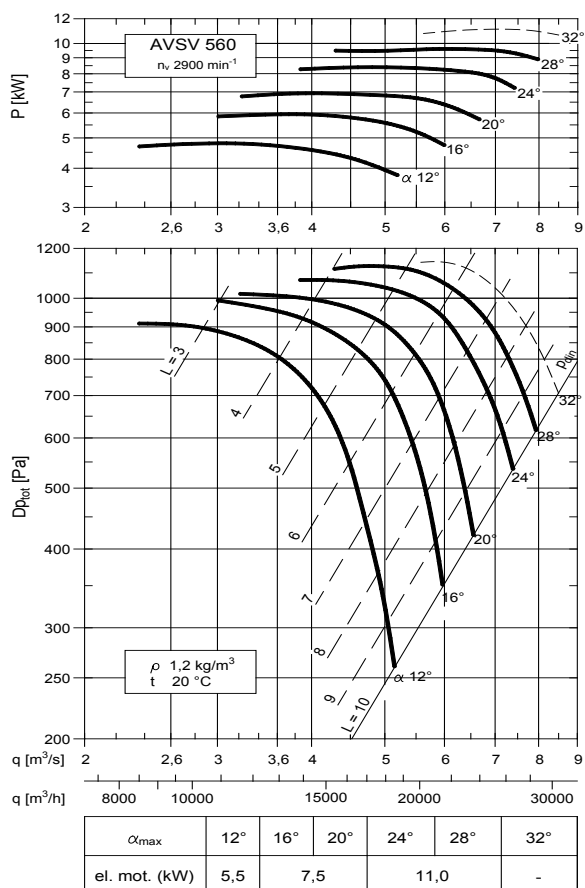
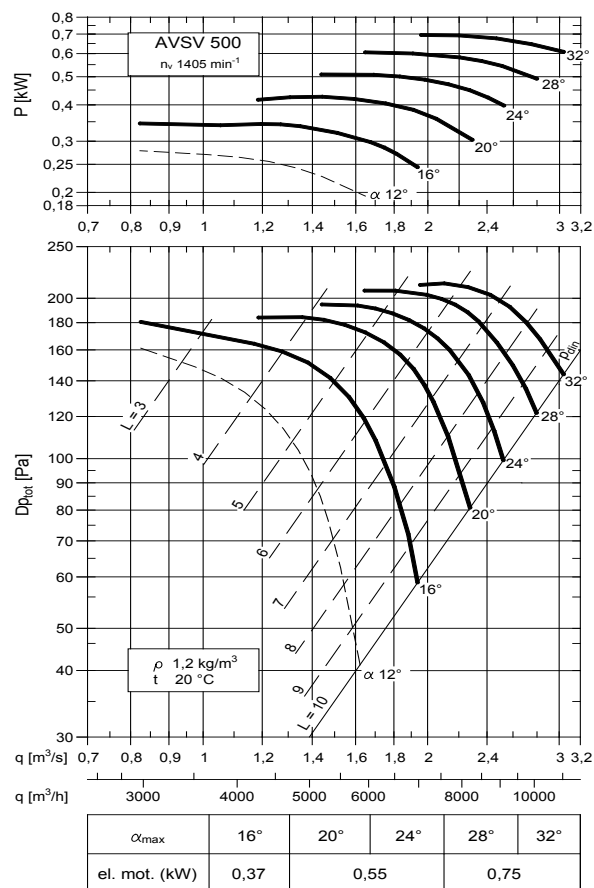
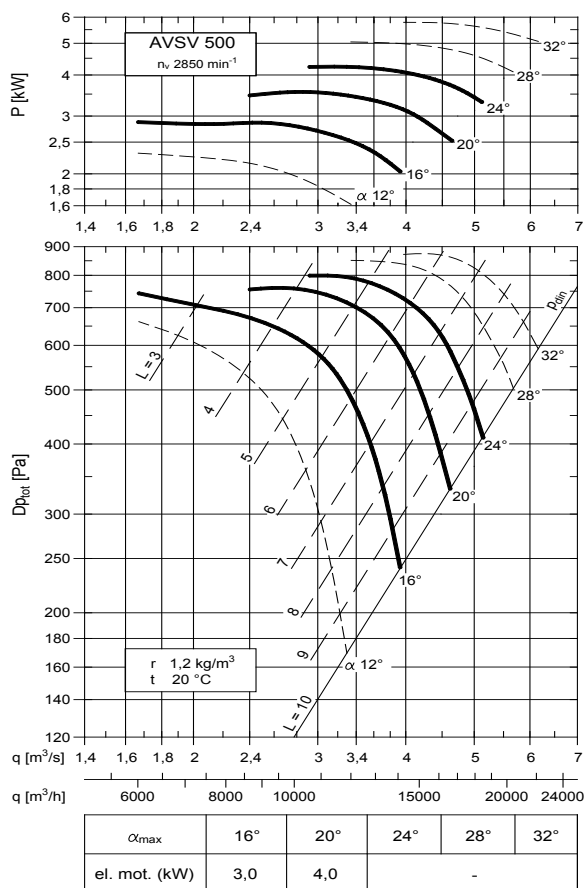
$$f_r = \frac{n}{60} \cdot z \text{ [Hz]} \quad \text{Flügel Frequenz (Hz)}$$

$z$  – Anzahl der Flügel  
 $n$  – Drehzahl ( $\text{min}^{-1}$ )

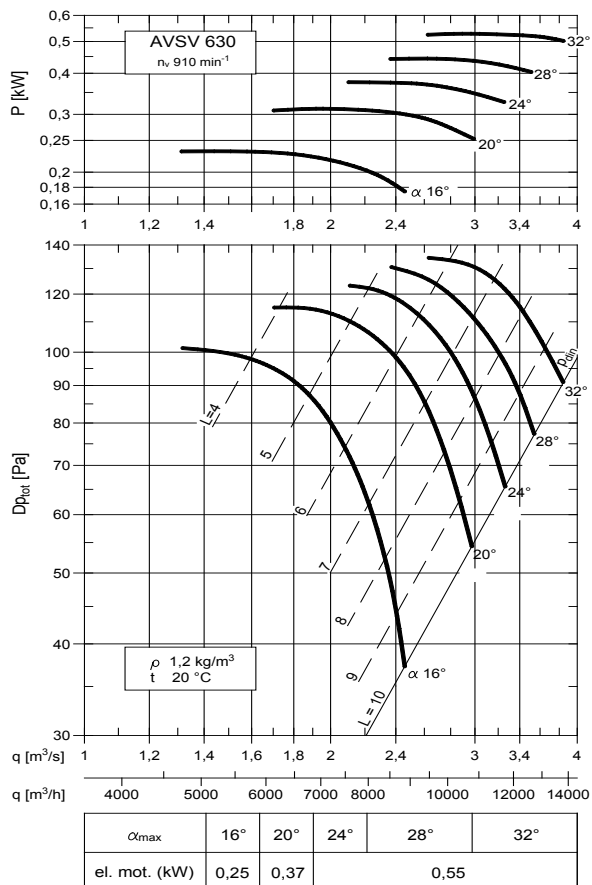
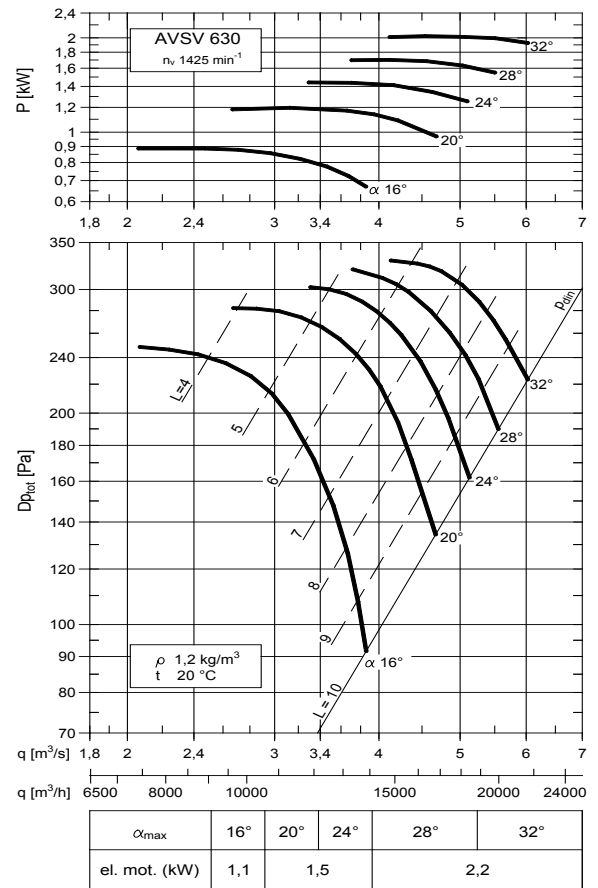
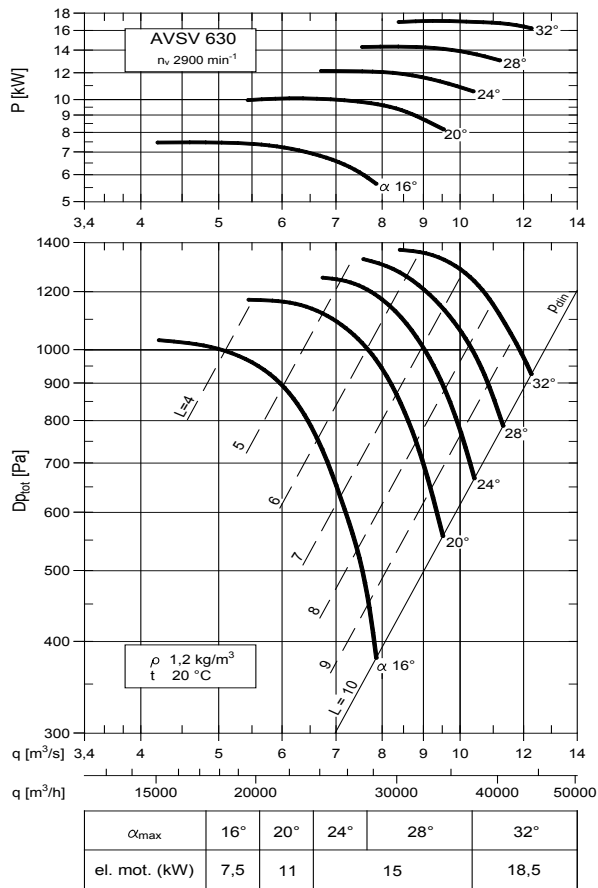
$$f_r = \frac{n}{60} \cdot z \text{ [Hz]} \quad \text{Blades frequency (Hz)}$$

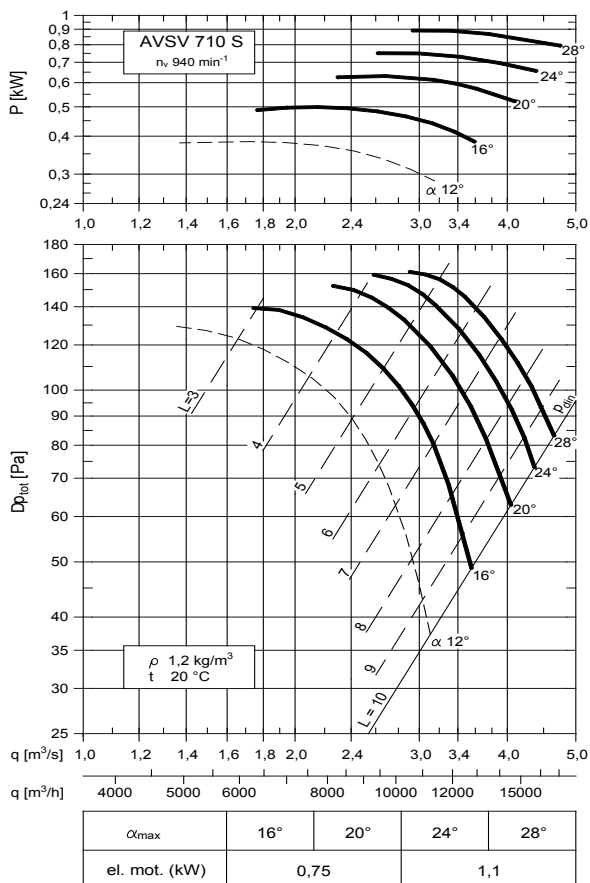
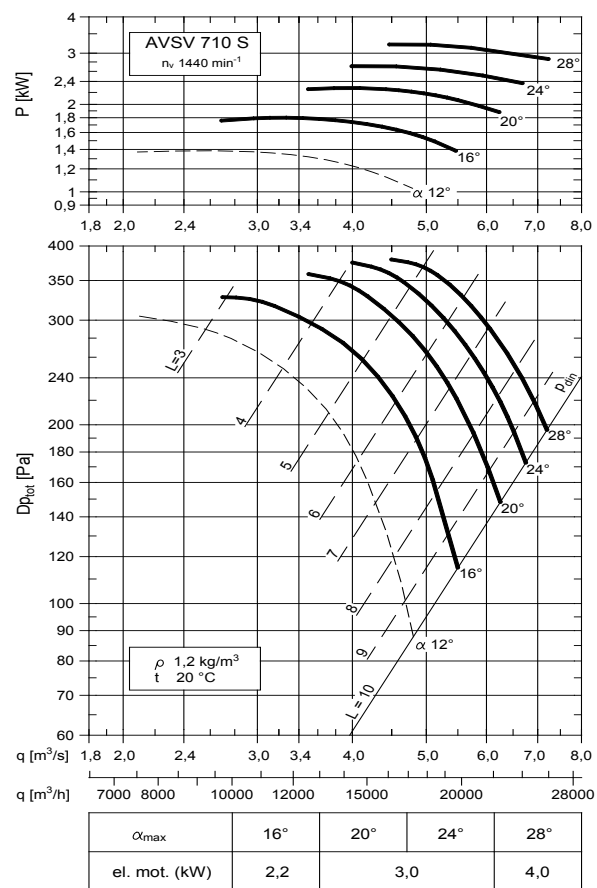
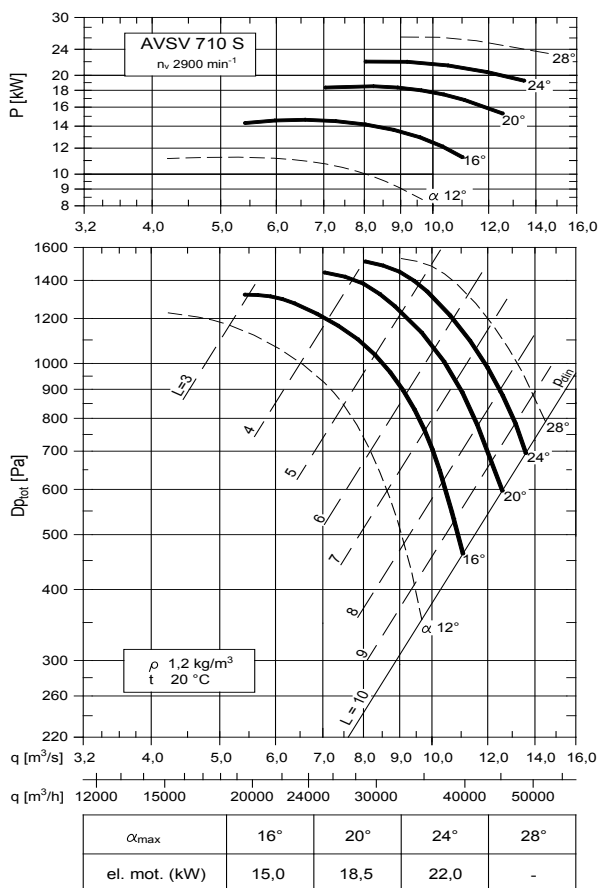
$z$  – blades number  
 $n$  – RPM ( $\text{min}^{-1}$ )

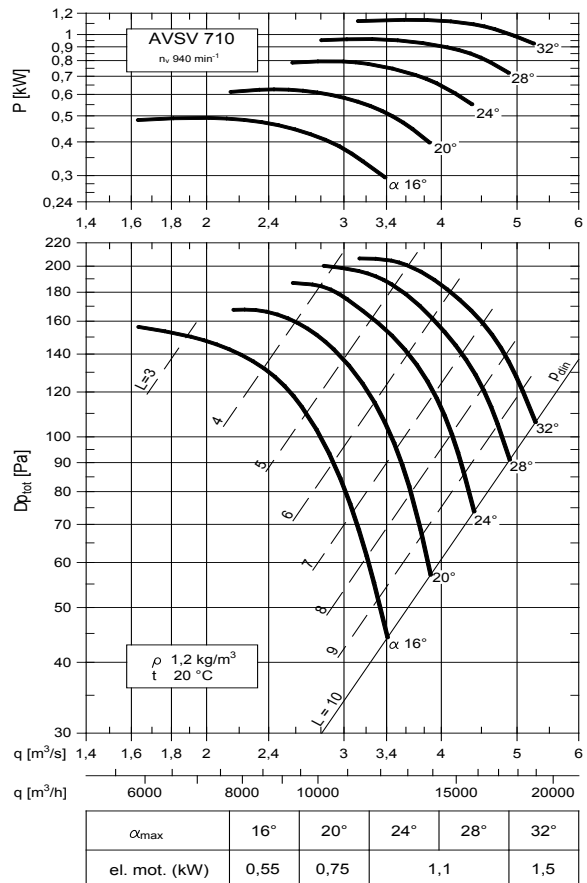
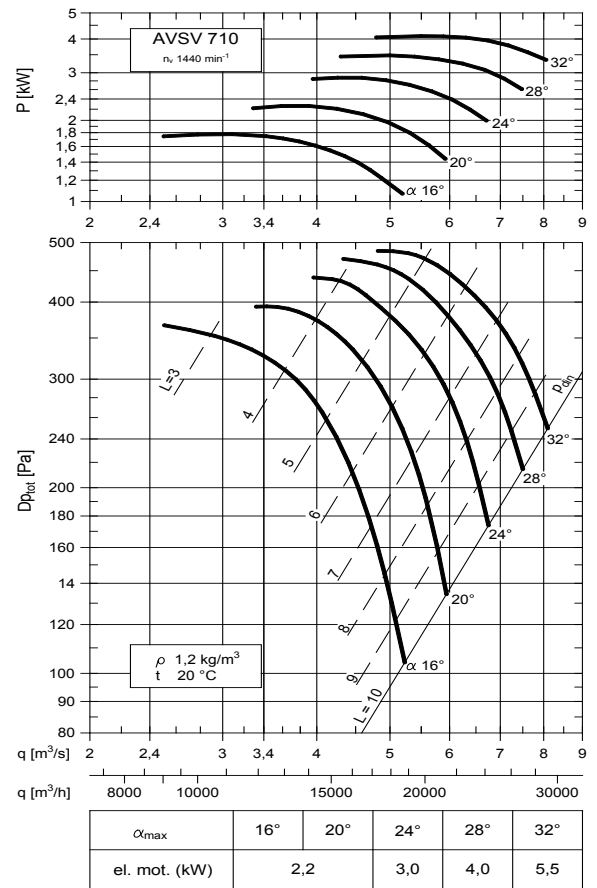
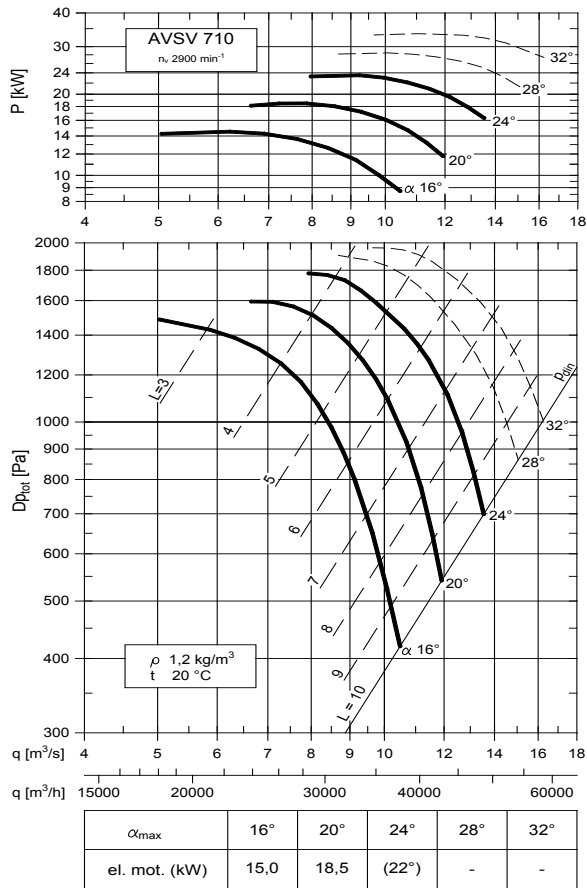


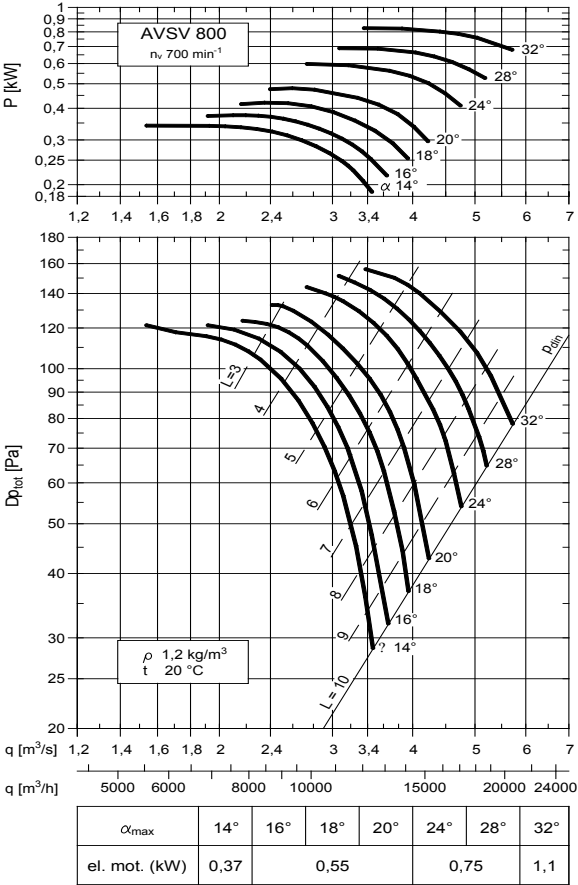
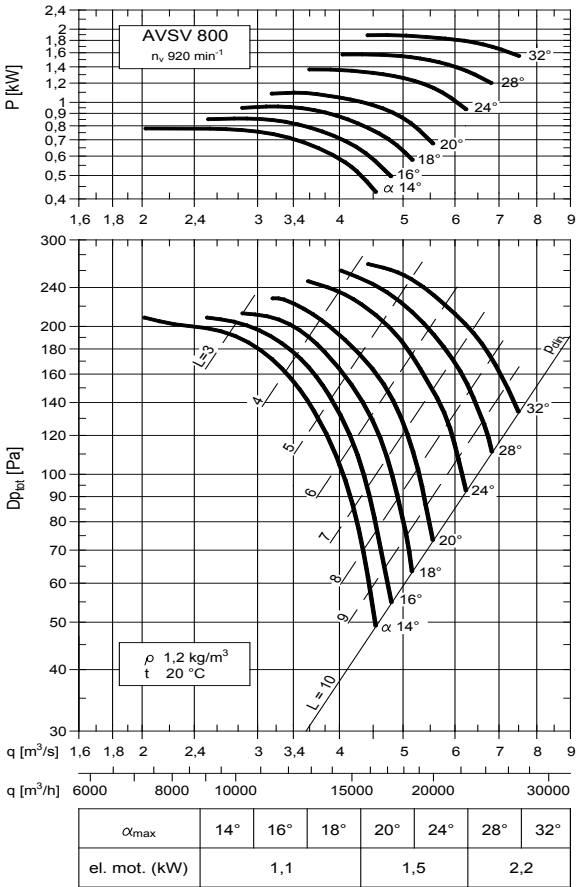
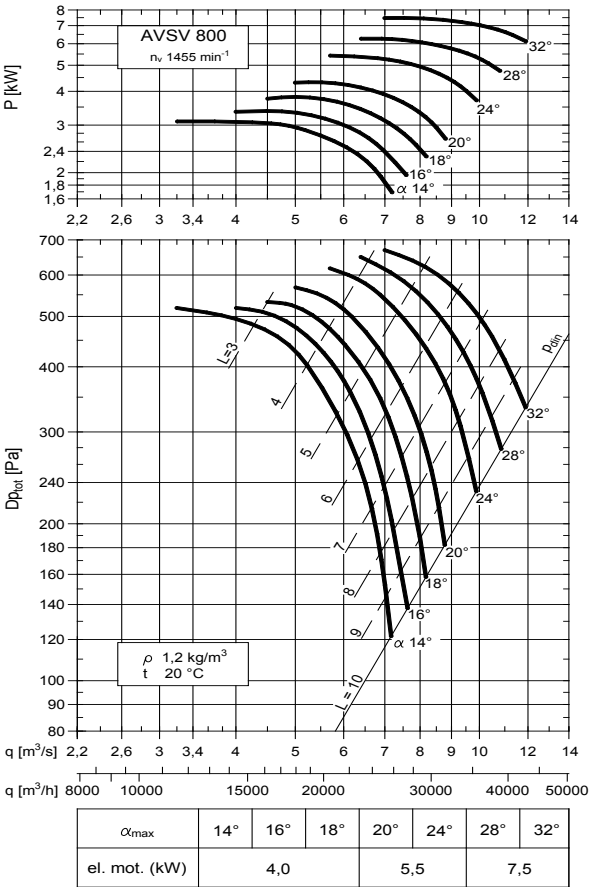


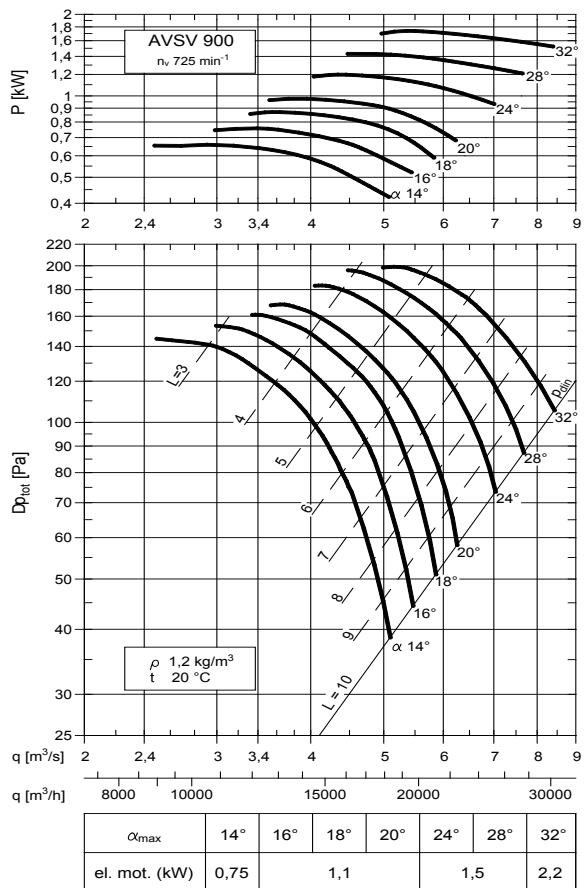
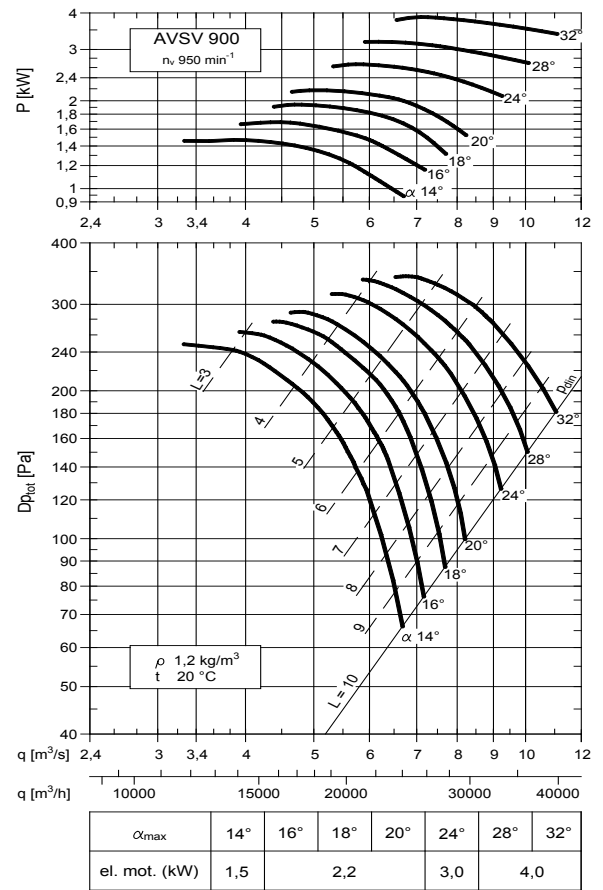
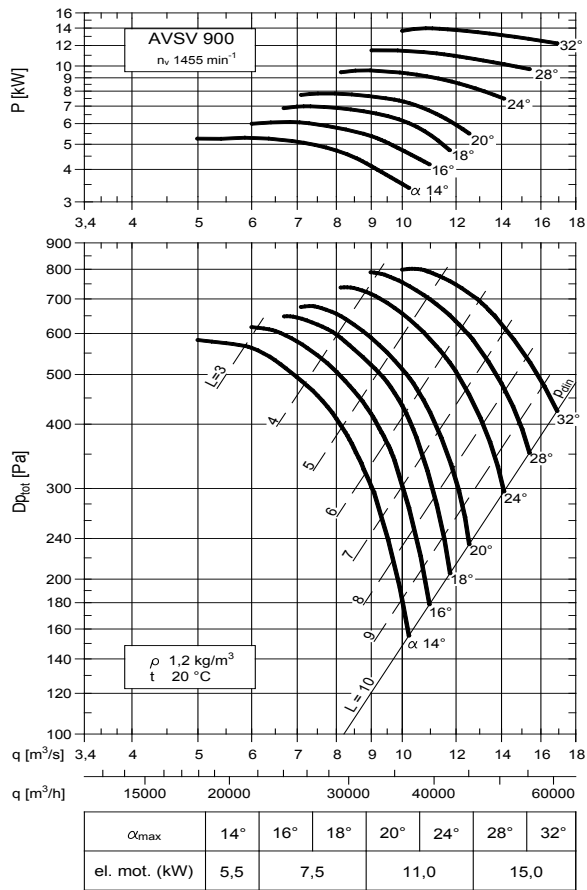


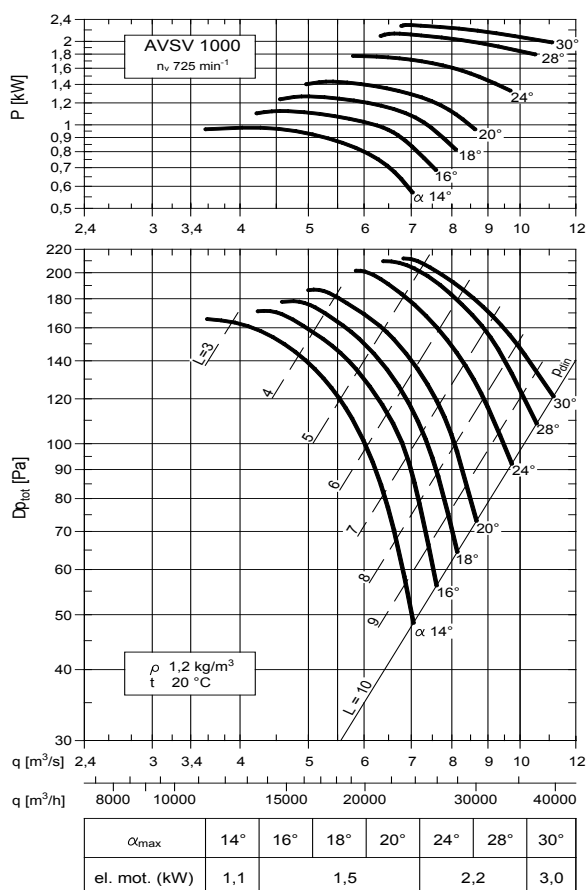
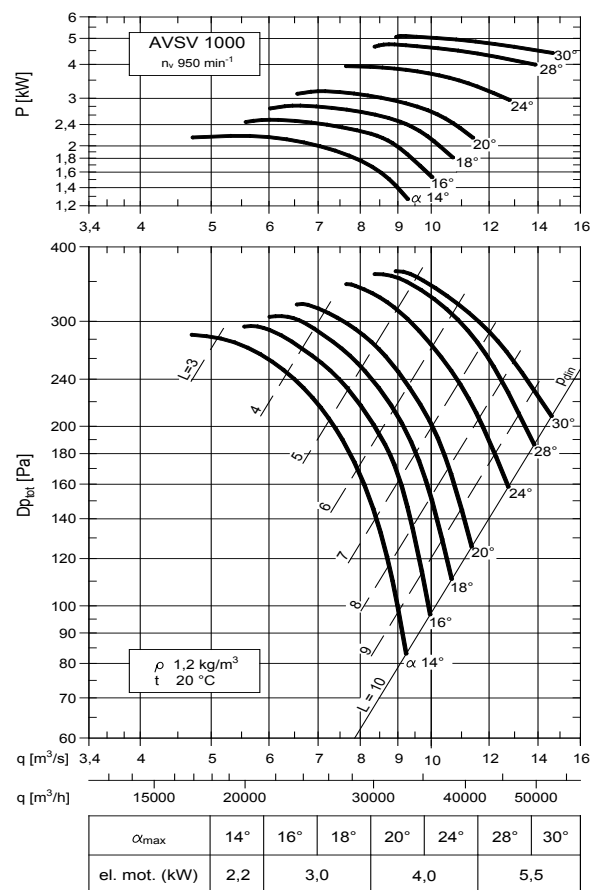
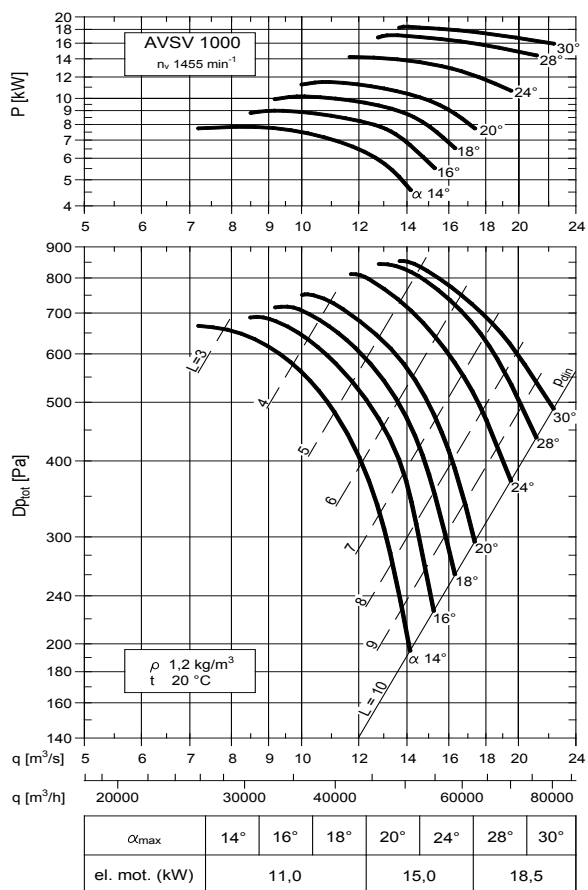


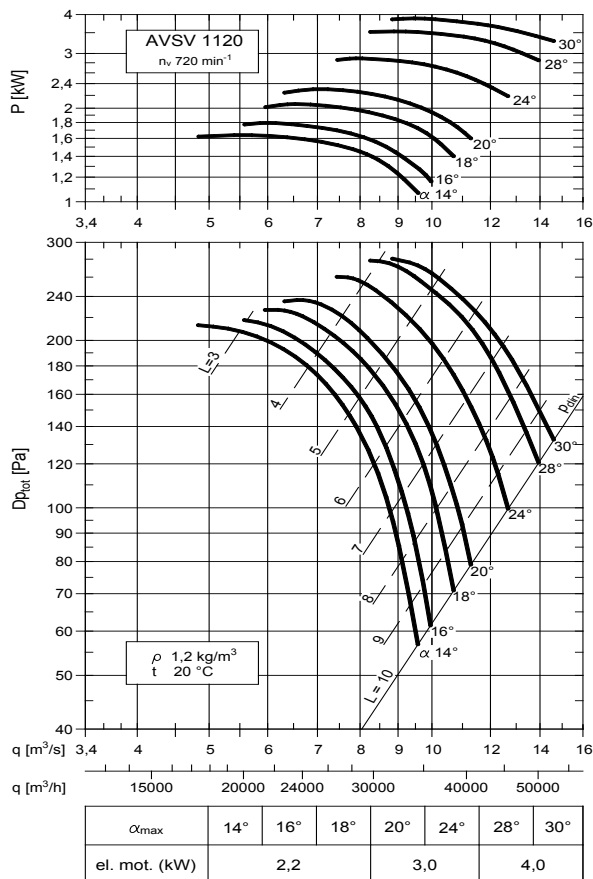
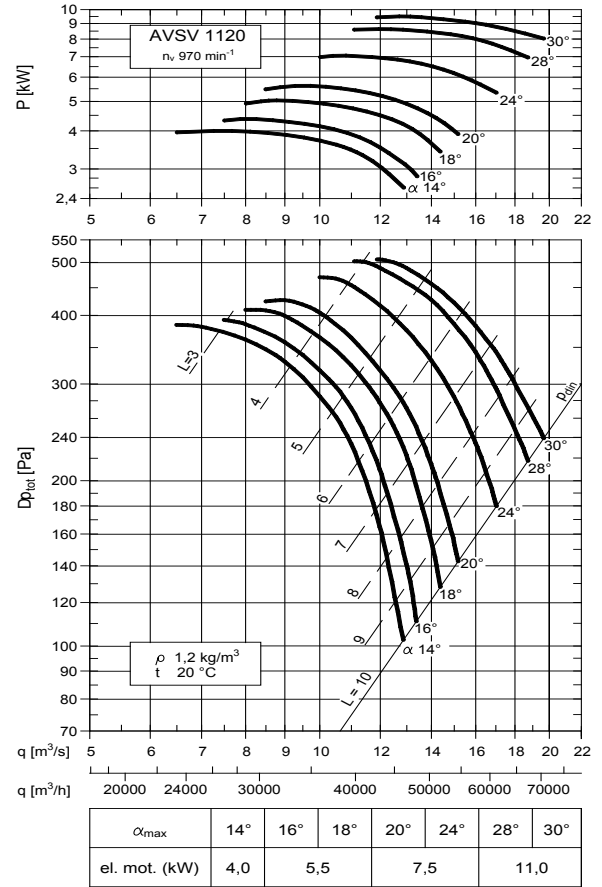
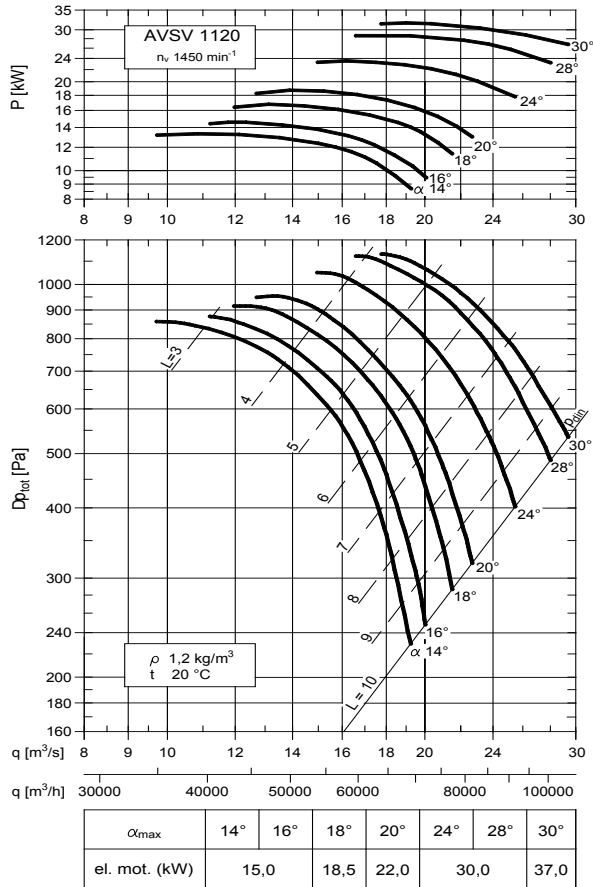


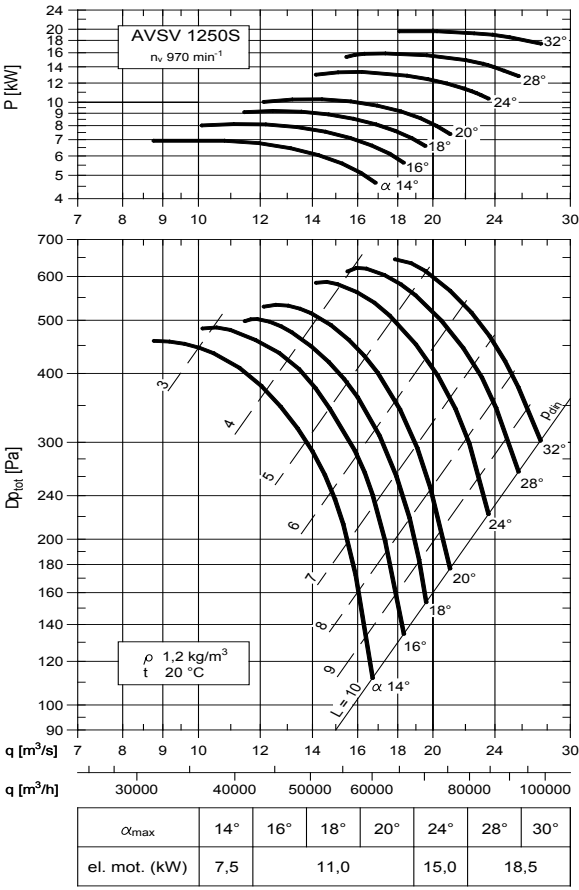
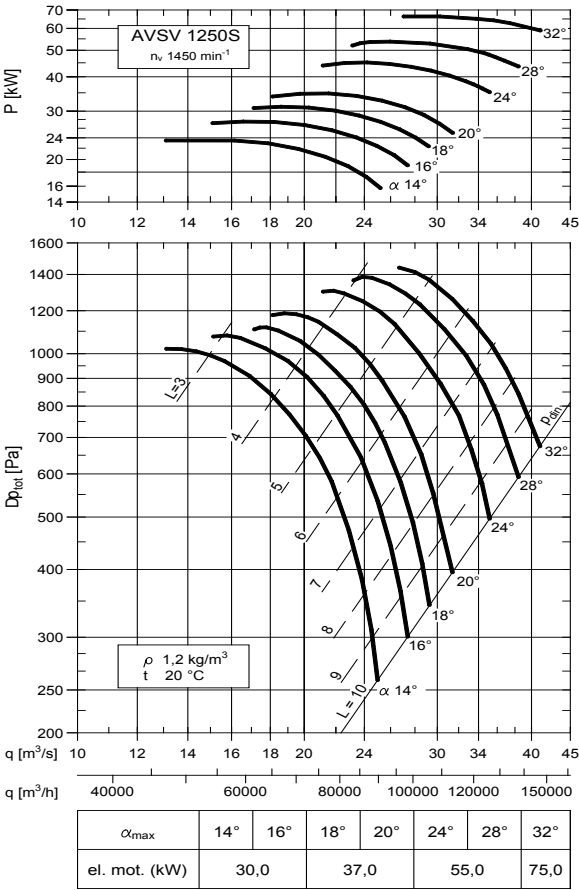




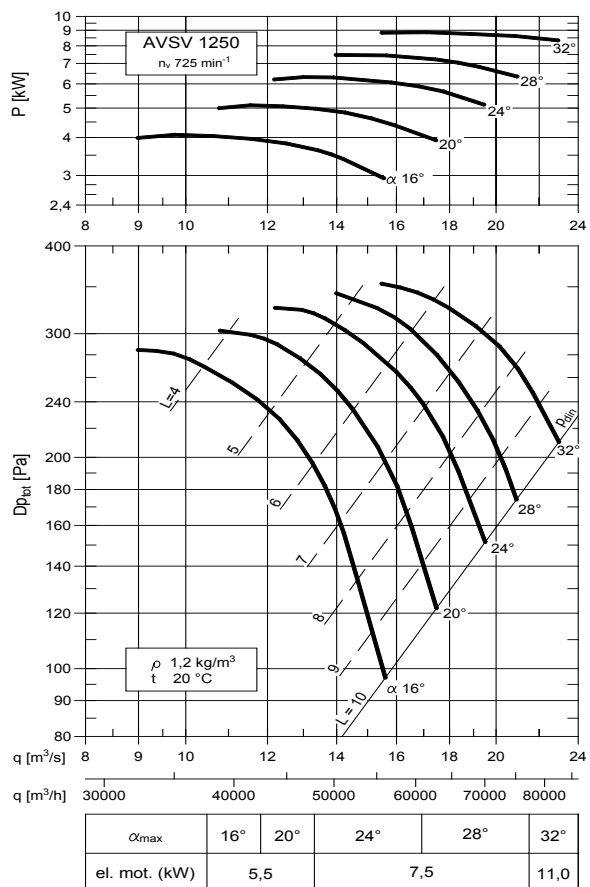
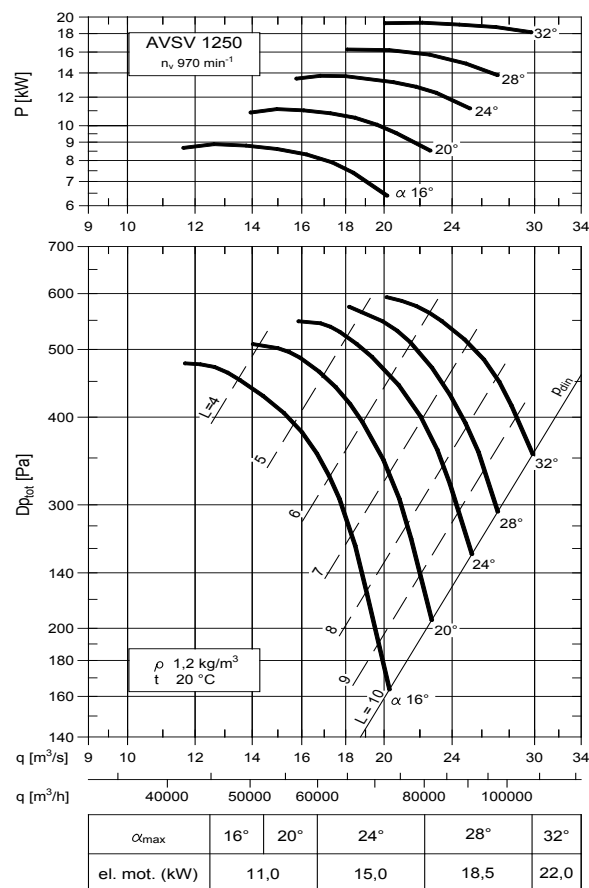
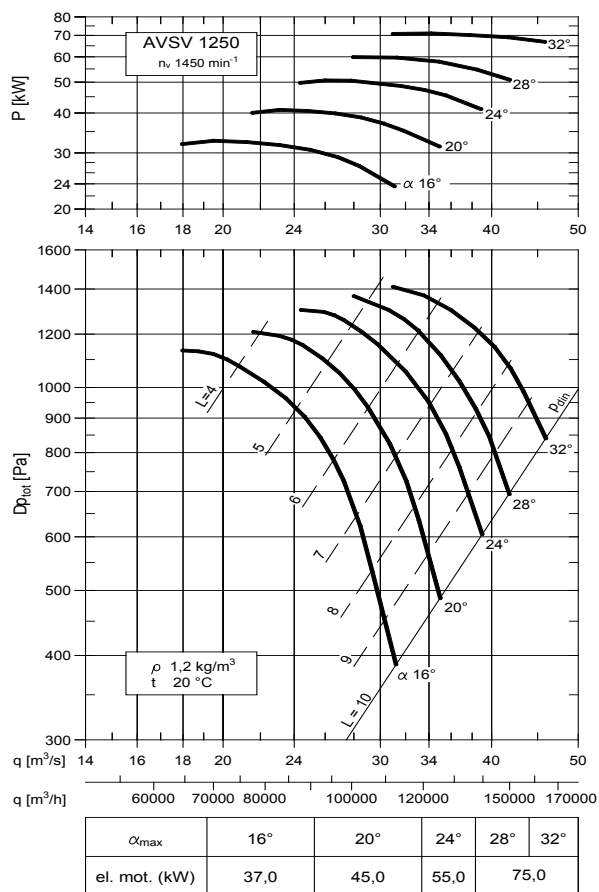


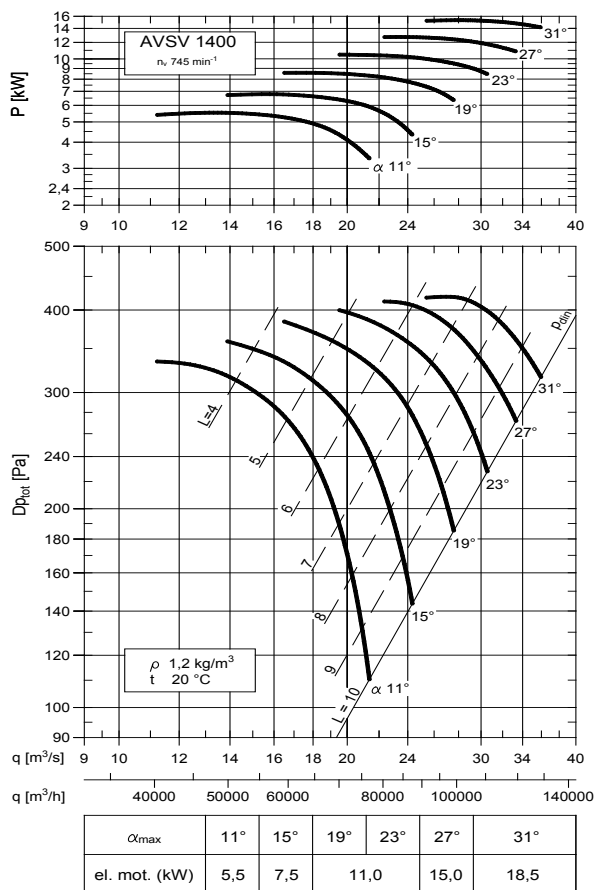
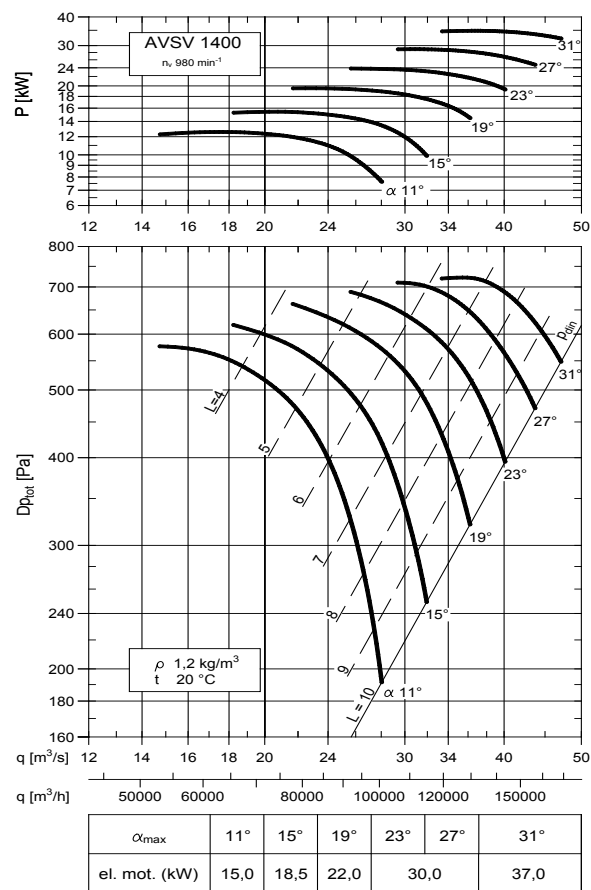
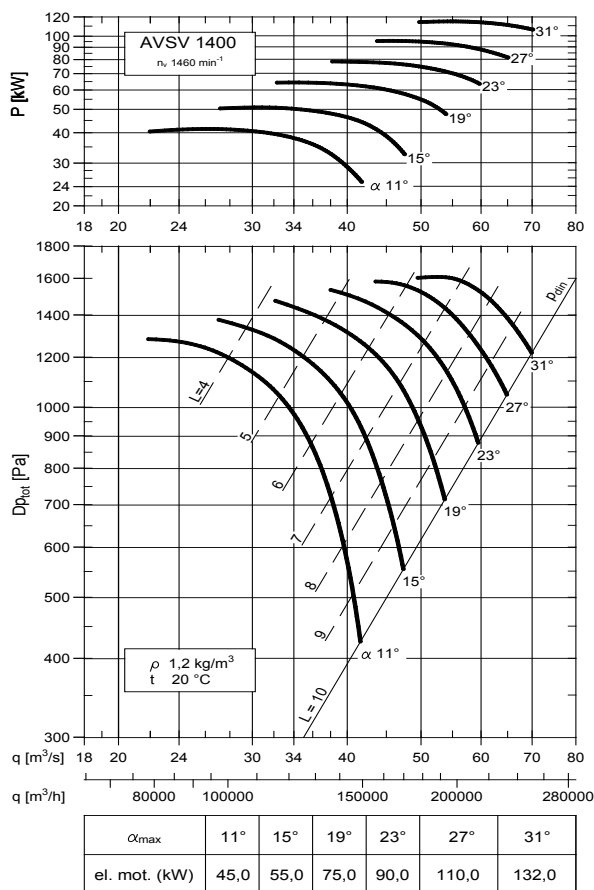


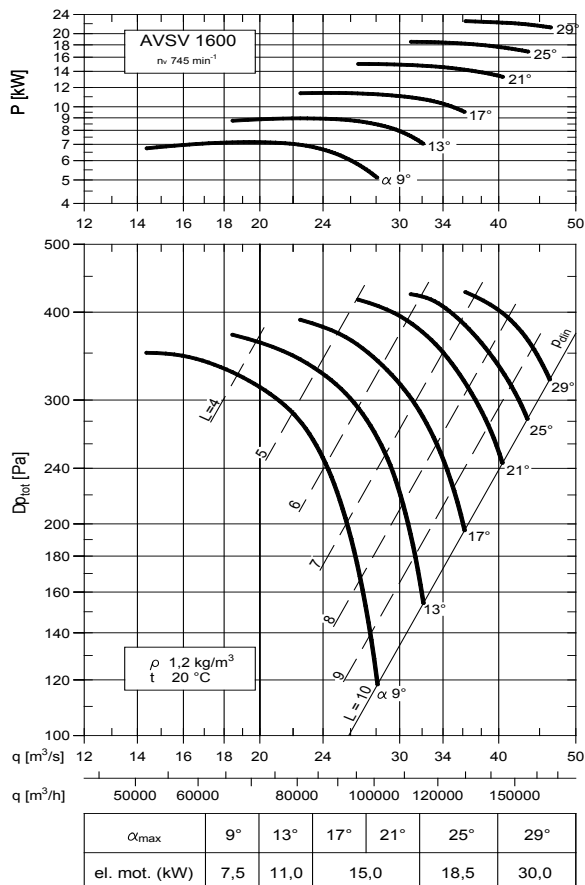
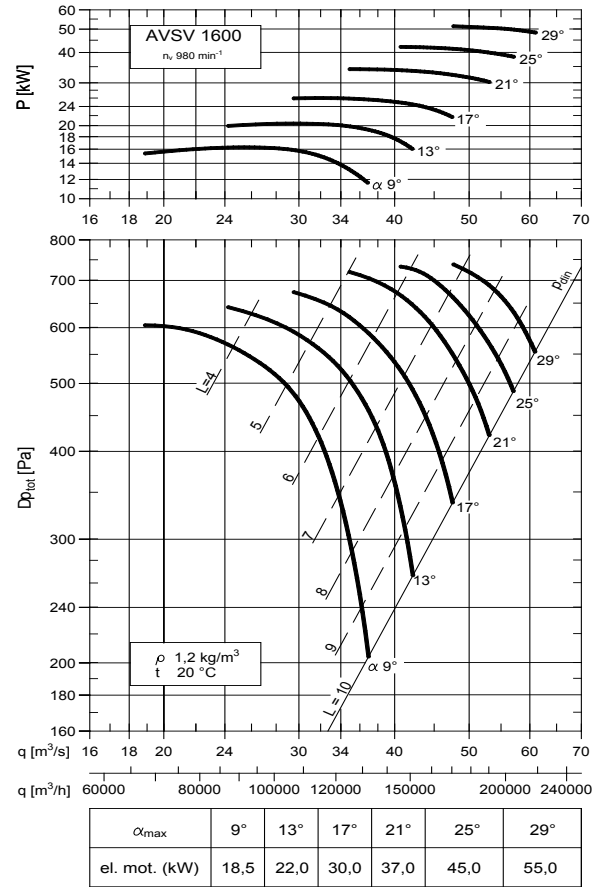
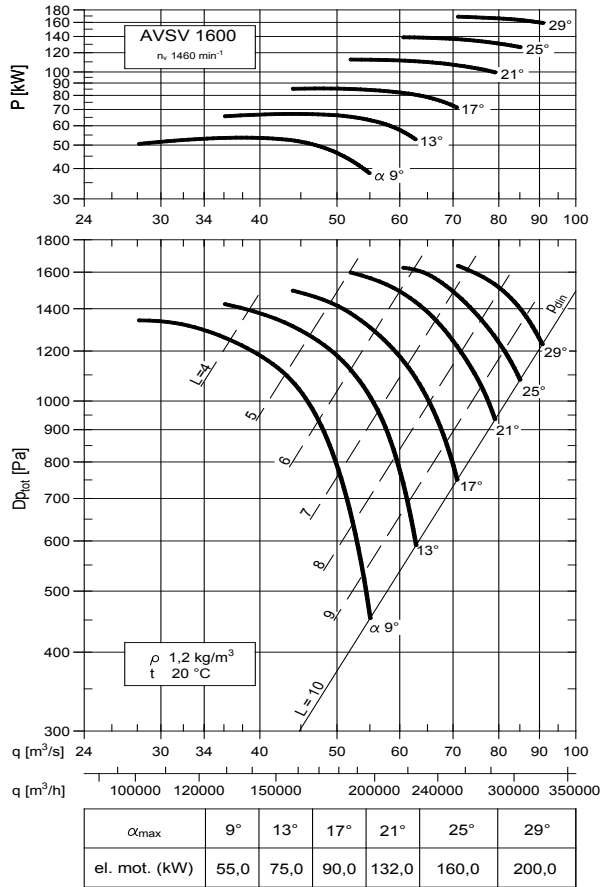












**Axial Ventilator Typen EX AVS und EX AVSV****Ventilatoren für Gefahrenbereiche**

Explosive Mischungen aus Gas und Rauch vermischt mit Luft können während Produktionsprozessen auftreten oder durch eine Fehlfunktion verursacht werden. Diese Mischung kann sich durch einen Funken oder übermäßige Erhitzung einzelner Teile entzünden und dadurch eine Explosion oder Feuer verursachen. Axial-Ventilatoren des Typs EX AVS sind gemäß der Richtlinien ATEX konzipiert, um während des Betriebs Explosionen oder Brand zu verhindern. Der Kunde ist auch für die strikte Einhaltung der Vorschriften und Richtlinien bei der Auswahl, Nutzung, Wartung und dem Aufbau der Ventilatoren verantwortlich.

**Anwendungsbereiche**

Der Einsatz von **EX AVS** Axial Ventilatoren ist für Gefahrenbereiche in Industriegebieten zugelassen:

- Gefahrenzone 0: nicht zugelassen
- Gefahrenzone 1: **Ex II 2G c IIB T4**
- Gefahrenzone 2: **Ex II 3G c IIB T4**

Die maximale, permanente Durchschnittsbetriebstemperatur beträgt 40°C.

**Technische Beschreibung**

Explosionssichere EX AVS Ventilatoren sind im Grundsatz gleichwertig zum entsprechenden Standard AVS Typ mit Konstruktionslösungen, der Richtlinie 94/9/ES und der Norm EN 13463-1 und EN 14986 (c – Konstruktions Sicherheit).

EX AVS Ventilatoren sind standardmäßig mit einem IEC 3-Phasen Elektromotor 3x400V; 50 Hz; IP 55, mit einem explosionsicheren Schutz II 2G EEx de IIC T4 und PTC Sensoren mit Überhitzungsschutz ausgestattet.

Start, Stop und Drehzahl-Regulation werden durch ein- oder zweifache Geschwindigkeitsschalter oder Frequenzumwandler gesteuert. Die Schalter und Frequenzumwandler sind unbedingt außerhalb der Gefahrenzone zu installieren. Schalter, die innerhalb der Gefahrenzone installiert werden sollen, werden nur auf Anfrage bereitgestellt.

**Abmessungen**

Die Abmessungen sind identisch mit den Abmessungen der Standardventilatoren.

Größen-Beispiele

|                   |                                   |
|-------------------|-----------------------------------|
| EX AVS 450-4 AL   | II 2G c IIB T4 ali II 3G c IIB T4 |
| EX AVS 800-4/6 AK | II 2G c IIB T4 ali II 3G c IIB T4 |
| EX AVSV 900-6     | II 2G c IIB T4 ali II 3G c IIB T4 |

**Technische Daten**

Die technischen Daten für Ventilatoren in explosionsgefährdeten Bereichen sind identisch mit denen für AVS und AVSV.

Nur die Ventilatoren mit Motoren für einfache Geschwindigkeiten sind im Standard Produktprogramm enthalten.

**AXIAL FANS TYPE EX AVS and EX AVSV****Fans for hazardous area**

Explosive compositions of gases and fumes with air can occur as a result of production process, or consequence of malfunction. Mixture ignition with spark or excessive heating of individual parts, can cause explosion or fire. Axial fans type EX AVS are designed according to directives ATEX, which prevent explosion or fire, due to their operation. Also the customer has to strictly consider all the regulations and guidelines, by selection, mounting, usage and maintenance of the fan.

**Application**

The use of the **EX AVS** axial fans is permitted for hazardous zones in industrial areas:

- hazardous zone 0: not allowed
- hazardous zone 1: **Ex II 2G c IIB T4**
- hazardous zone 2: **Ex II 3G c IIB T4**

The maximum continuous medium operating temperature is 40°C.

**Technical description**

Explosion proof EX AVS fans are basically similar to standard AVS type, with construction solutions that conform to directive 94/9/ES and norm EN 13463-1 & EN 14986 (c – construction safety).

EX AVS fans have standard IEC three-phase electromotors installed 3x400V; 50Hz; IP55, with explosion proof protection II 2G EEx de IIC T4 and PTC sensors for thermal protection.

Start, stop and RPM regulation is possible with one or two-speed switches or frequency converters. For switches and frequency converters it is mandatory to mount them outside of the hazardous zone. Switches for use inside the hazardous zone are available by special customer's request.

**Designation**

Designation is the same as standard fans, only the EX prefix is added.

Designation example

|                 |                |
|-----------------|----------------|
| EX AVS 450-4 AL | II 2G c IIB T4 |
| EX AVS 800-4/6  | II 3G c IIB T4 |
| EX AVSV 900-6   | II 3G c IIB T4 |

**Technical data**

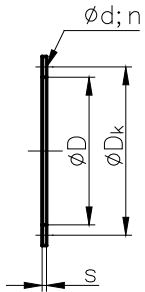
Technical data of the fans for hazardous area are identical AVS and AVSV.

Only the fans with one speed motors are in standard production program.

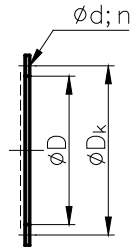
## Zubehör

## ACCESSORIES

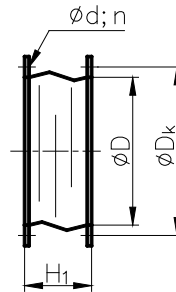
**Flansch D**  
**Flange D**



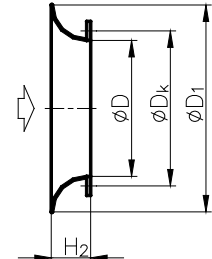
**MZ D** Schutzgitter  
**MZ D** Protective grid



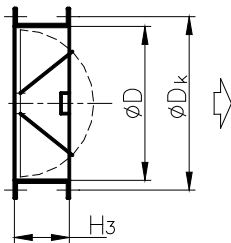
**EP D** Flexible Verbindung  
**EP D** Flexible connection



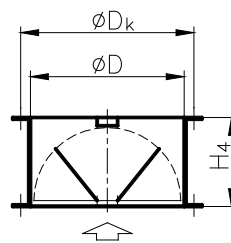
**LV D** Einströmdüse  
**LV D** Inlet funnel  
**LVZ D** Einströmdüse mit Gitter  
**LVZ D** Inlet funnel with grid



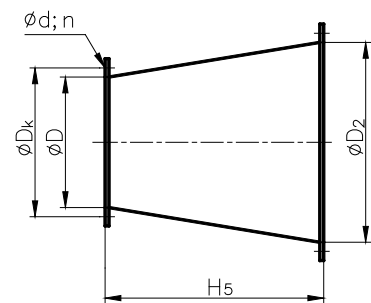
**SLH D** Horizontale Rückschlagklappe  
**SLH D** Horizontal back draft shutter



**SL D** Vertikale Rückschlagklappe  
**SL D** Vertical back draft shutter



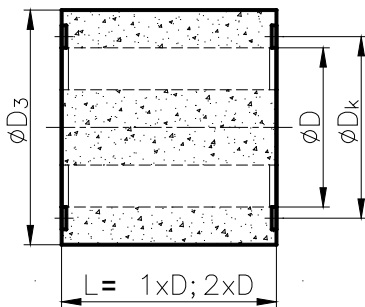
**Difuor D / D<sub>2</sub>**  
**Diffuser D / D<sub>2</sub>**



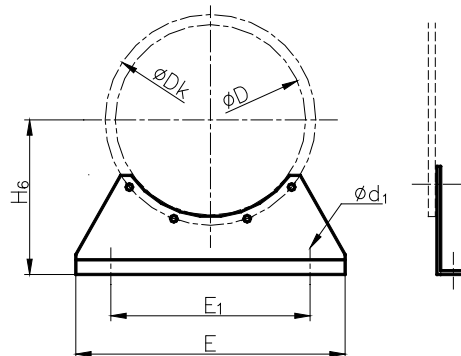
$\xi = 0,2 - 0,24$  AVSV  
 $\xi = 0,9 - 1,6$  AVS

$\xi = 0,2 - 0,24$  AVSV  
 $\xi = 0,9 - 1,6$  AVS

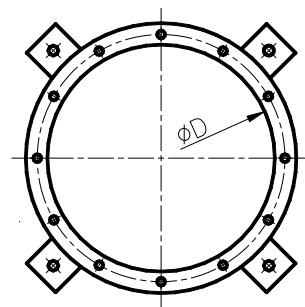
**DZ D x L** Schalldämpfer  
**DZJ D x L** Schalldämpfer mit Kern  
**DZ D x L** Silencer  
**DZJ D x L** Silencer with core



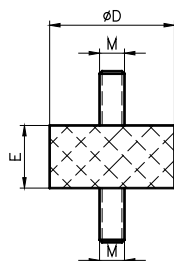
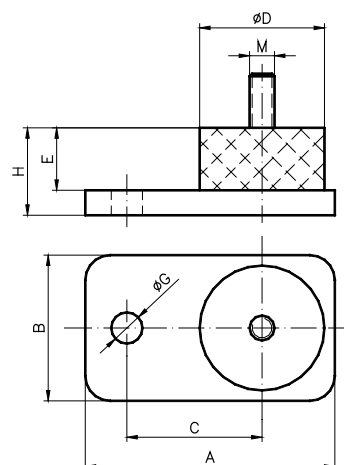
**MF D** Montage Füße – horizontal  
**MF D** Mounting feet – horizontal



**Montage Füße – vertikal D**  
**Mounting feet – vertical D**



| ØD   | ØDk  | Ød   | n  | s  | H <sub>1</sub> | ØD <sub>1</sub> | H <sub>2</sub> | H <sub>3</sub> | H <sub>4</sub> | ØD <sub>2</sub> | ØD <sub>3</sub> | H <sub>5</sub> | H <sub>6</sub> | E    | E <sub>1</sub> | Ød <sub>1</sub> |
|------|------|------|----|----|----------------|-----------------|----------------|----------------|----------------|-----------------|-----------------|----------------|----------------|------|----------------|-----------------|
| 400  | 438  | 9,5  | 12 | 6  | 100            | 500             | 110            | 250            | 220            | 500             | 600             | 355            | 320            | 320  | 280            | 10              |
| 450  | 487  | 9,5  | 12 | 6  | 100            | 600             | 110            | 250            | 250            | 560             | 650             | 400            | 340            | 360  | 320            | 10              |
| 500  | 541  | 9,5  | 12 | 6  | 100            | 650             | 110            | 250            | 280            | 630             | 700             | 450            | 370            | 400  | 350            | 12              |
| 560  | 605  | 11,5 | 16 | 6  | 100            | 710             | 110            | 250            | 310            | 710             | 760             | 500            | 400            | 440  | 390            | 12              |
| 630  | 674  | 11,5 | 16 | 6  | 100            | 790             | 110            | 250            | 350            | 800             | 830             | 560            | 430            | 500  | 440            | 14              |
| 710  | 751  | 11,5 | 16 | 6  | 100            | 870             | 140            | 250            | 400            | 900             | 910             | 630            | 480            | 600  | 540            | 14              |
| 800  | 837  | 11,5 | 24 | 6  | 100            | 960             | 140            | 350            | 440            | 1000            | 1000            | 710            | 530            | 650  | 580            | 14              |
| 900  | 958  | 14   | 24 | 8  | 150            | 1100            | 140            | 350            | 500            | 1120            | 1100            | 800            | 580            | 700  | 630            | 16              |
| 1000 | 1067 | 14   | 24 | 8  | 150            | 1200            | 150            | 350            | 550            | 1250            | 1300            | 900            | 680            | 800  | 720            | 16              |
| 1120 | 1200 | 18   | 32 | 8  | 150            | 1360            | 250            | 400            | 620            | 1400            | 1420            | 1000           | 740            | 900  | 820            | 16              |
| 1250 | 1337 | 18   | 32 | 8  | 150            | 1490            | 250            | 400            | 700            | 1600            | 1550            | 1120           | 800            | 1000 | 920            | 16              |
| 1400 | 1491 | 18   | 32 | 10 | 150            | 1640            | 250            | 500            | 800            | 1800            | 1700            | 1250           | 880            | 1100 | 980            | 20              |
| 1600 | 1663 | 18   | 40 | 10 | 200            | 1860            | 250            | 500            | 900            | 2000            | 1900            | 1400           | 980            | 1260 | 1140           | 20              |

**Antivibrations Montage-Füße**  
**Anti vibration mounts**

**Antivibrations Montage-Füße mit Halterung**  
**Anti vibration mounts with bracket**


| AVS<br>AVSV<br>EX AVS | EM<br>Pole /<br>poles | ØD x E   | M   | A   | B  | C  | H  | ØG  | Anz./Vent.<br>Pcs./fan |
|-----------------------|-----------------------|----------|-----|-----|----|----|----|-----|------------------------|
| 400                   | 2, 4, 2/4             | Ø30 x 25 | M8  | 80  | 40 | 45 | 33 | Ø12 | 4                      |
| 450                   | 2, 2/4                | Ø40 x 30 | M8  | 90  | 50 | 50 | 38 | Ø12 | 4                      |
|                       | 4                     | Ø30 x 25 | M8  | 80  | 40 | 45 | 33 | Ø12 | 4                      |
| 500                   | 2, 2/4                | Ø50 x 30 | M10 | 105 | 60 | 60 | 40 | Ø14 | 4                      |
|                       | 4                     | Ø40 x 30 | M8  | 90  | 50 | 50 | 38 | Ø12 | 4                      |
| 560                   | 2, 2/4                | Ø50 x 30 | M10 | 105 | 60 | 60 | 40 | Ø14 | 4                      |
|                       | 4, 6                  | Ø40 x 30 | M8  | 90  | 50 | 50 | 38 | Ø12 | 4                      |
| 630                   | 2, 2/4                | Ø60 x 30 | M12 | 120 | 70 | 65 | 42 | Ø15 | 4                      |
|                       | 4, 6, 4/6             | Ø50 x 30 | M10 | 105 | 60 | 60 | 40 | Ø14 | 4                      |
| 710                   | 2, 2/4                | Ø60 x 30 | M12 | 120 | 70 | 65 | 42 | Ø15 | 4                      |
|                       | 4, 6, 4/6             | Ø50 x 30 | M10 | 105 | 60 | 60 | 40 | Ø14 | 4                      |
| 800                   | 4, 6, 8               | Ø60 x 30 | M12 | 120 | 70 | 65 | 42 | Ø15 | 4                      |
| 900                   | 4, 6, 8               | Ø70 x 50 | M12 | 130 | 80 | 70 | 62 | Ø18 | 4                      |
| 1000                  | 4, 6, 8               | Ø70 x 50 | M12 | 130 | 80 | 70 | 62 | Ø18 | 4                      |
| 1120                  | 4, 6, 8               | Ø70 x 50 | M12 | 130 | 80 | 70 | 62 | Ø18 | 4                      |
| 1250                  | 4, 6, 8               | Ø70 x 50 | M12 | 130 | 80 | 70 | 62 | Ø18 | 4                      |
| 1400                  | *                     | *        | *   | *   | *  | *  | *  | *   | *                      |
| 1600                  | *                     | *        | *   | *   | *  | *  | *  | *   | *                      |

\* Abhängig von der Größe des Elektromotors

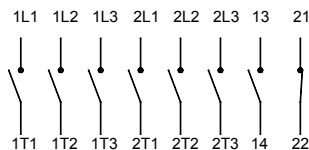
\* Depends of the size of the el.motor

## Schalter und Drehzahlenregler

### STS6 Wartungsschalter

6 poliger Wartungsschalter mit 2 Hilfskontakten.  
AVS und AVSV: Schalter kann auf dem Ventilator wie eine Anschlussbox installiert werden. Separate Lieferung ist auch möglich.

**Die Montage des EX AV außerhalb der Gefahrenzone ist obligatorisch.**



| Typ<br>Type | P <sub>N</sub><br>[kW] | I <sub>N</sub><br>[kW] | L x B x H<br>[mm] |
|-------------|------------------------|------------------------|-------------------|
| STS6 - 5,5  | 5,5                    | 20                     | 120 x 85 x 107    |
| STS6 - 7,5  | 7,5                    | 25                     | 190 x 100 x 110   |
| STS6 - 11   | 11                     | 32                     | 190 x 100 x 110   |
| STS6 - 15   | 15                     | 40                     | 250 x 145 x 124   |
| STS6 - 22   | 22                     | 63                     | 250 x 145 x 124   |
| STS6 - 30   | 30                     | 80                     | 300 x 200 x 222   |
| STS6 - 37   | 37                     | 100                    | 300 x 200 x 222   |
| STS6 - 45   | 45                     | 125                    | 400 x 300 x 245   |
| STS6 - 55   | 55                     | 160                    | 400 x 300 x 245   |
| STS6 - 132  | 132                    | 275                    | 560 x 380 x 367   |



### 1-stufiger Schalter SBZ I

Dieser Schalter ermöglicht einen Netzanschluss von einem 1-stufigen Elektromotor mit 3 x 400 V und einem ständigen Überlastungsschutz.

- 3 x 400V, 50/60 Hz
- Gehäuse besteht aus widerstandsfähigem Kunststoff IP 55, 75 °C
- Überlastungsschutz des Motors
- EIN/AUS Schalter
- Motor-Kontroll-Leuchte
- Motor-Fehler-Kontroll-Leuchte
- Motor-Start / Stop abhängig vom Raumthermostat
- Dimensionen 240x 190 x 100

### 2-stufiger Schalter SBZ II

Dieser Schalter ermöglicht einen Netzanschluss von einem 2-stufigen Elektromotor mit 3 x 400 V und einem ständigen Überlastungsschutz für niedrige und hohe Geschwindigkeiten. Schalter-Typen für separate und Dahlanderwicklungen sind unterschiedlich.

- Schalter 0 - 1 - 2
- Gleiche Eigenschaften wie bei Schalter SBZ I

## SWITCHES AND SPEED CONTROLLERS

### STS6 Maintenance switch

6 pole maintenance switch with 2 auxiliary contacts.

AVS and AVSV: switch can be installed on the fan as terminal box. Separate delivery is also possible.

**For EX AV mounting outside hazardous zone is mandatory**

### SBZ I One speed switch

The switch enables power connection to one speed motors 3x400 V and current overload protection. The switch is selected according to nominal current of the electric motor.

- ON / OFF switch
- 3 x 400V, 50/60 Hz
- casing made of resistant plastic, IP 55, 75 °C
- current overload protection of motor
- motor operation control lamp
- motor failure control lamp
- motor starting / stopping by means of room thermostat.
- dimensions 240 x 190 x 100

### SBZ II Two speed switch

The switch enables power connection to two speed motors 3x400 V and current overload protection at high and low speed. Switch types for separate and Dahlander windings are different.

- 0 - 1 - 2 switch
- Other is the same as at SBZ I

**Frequenzumformer mit Monophasen Eingängen und 3-Phasen Ausgängen**

Einphasen Frequenzumformer werden für die Drehzahlregulation von 3-Phasen Elektromotoren verwendet, die mit  $\Delta 3 \times 230V$  und einer Leistung bis zu 1,5 kW angeschlossen sind. Diese ermöglichen die optimale Kontrolle und den optimalen Schutz der Elektromotoren. Es können zwei oder mehr Ventilatoren geregelt werden, solange das Spannungslimit nicht überschritten wird. Sie verfügen ebenfalls über TK Kontakte ohne automatischen Neustart.

**3-Phasen Frequenzumformer**

3-Phasen Frequenzumformer werden für die Drehzahlregulation von 3-Phasen Elektromotoren verwendet, die mit  $\Delta 400/Y690V$  angeschlossen sind und müssen mit PTC Sensoren oder TC ausgestattet sein. Dadurch wird eine optimale Kontrolle und optimaler Schutz der Elektromotoren gewährleistet. Es können zwei oder mehr Ventilatoren geregelt werden, solange das Spannungslimit nicht überschritten wird.

**Frequency converters with mono phase inlets and three phase outlets**

One phase frequency converters are used for RPM regulation of three phase electromotors connected  $\Delta 3 \times 230V$  with power up to 1,5 kW. They enable optimal control and protection of el. motors. They can regulate two or more fans parallel as long as the current limit is not exceeded. They also have TK contacts with no automatic restart.

**Three phase frequency converters**

Three phase frequency converters are used for RPM regulation of three phase motors with connection  $\Delta 400/Y690V$ . Motors have to be connected in  $\Delta 400V$  and equipped with PTC sensors or TC. They enable optimal control and protection of el. motors. They can regulate two or more fans parallel as long as the current / power limit is not exceeded.



**Schalt diagramm  
3-Phasen IEC Elektromotor**

**WIRING DIAGRAMS  
Three phase IEC motors**

**Motor  $\Delta$  3~230V / Y 3~400V bis zu 2,2 kW, einfache Geschwindigkeit**

**Motor  $\Delta$  3~230V / Y 3~400V up to 2,2 kW; single speed**

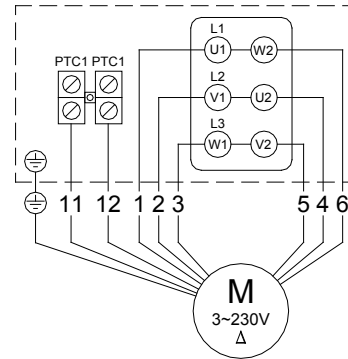
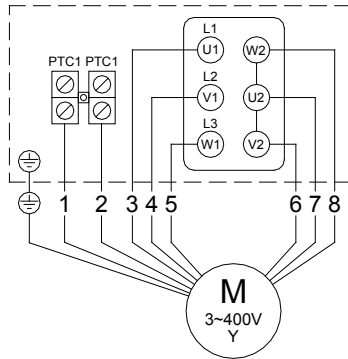
**Anschluss Y 3~400V**

**Connection Y 3~400V**

**Anschluss  $\Delta$  3~230V**

**Connection  $\Delta$  3~230V**

- Direktstart
- FP 3~400V
- direct start up
- FC 3~400V



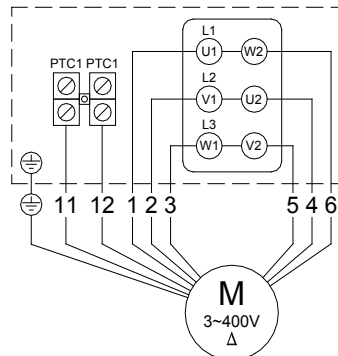
- Für Frequenzumwandler 230V
- for frequency converter 230V

**Motor  $\Delta$  3~400V / Y 3~690V über 3,0 kW, einf. Geschw.**

**Motor 3~400V / Y 3~690V over 3,0 kW, single speed**

**Anschluss  $\Delta$  3~400V**

- Direktstart
- Frequenzumwandler 3~400V
- Über 7,5 kW ist es erforderlich mit Y/ $\Delta$  zu starten, elektr. Softstart oder Frequenzumwandler



**Connection  $\Delta$  3~400V**

- Direct start up.
- Frequency converter 3~400V.
- Over 7,5 kW it is recommended to start with Y/ $\Delta$ , electronic soft start or frequency converter.

**2 Geschw. – Y/Y Anschluss, separate Wicklung**

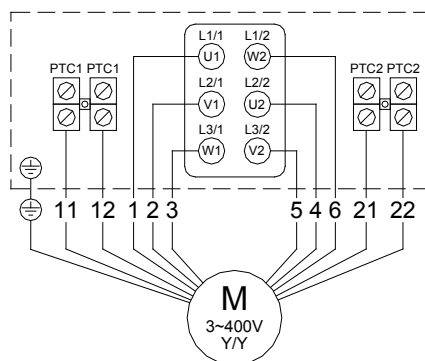
**Two speeds – Y/Y connection; separate winding**

**Niedrige Geschwindigkeit**

**Low speed**

**Hohe Geschwindigkeit**

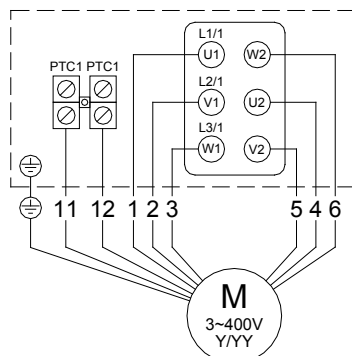
**High speed**



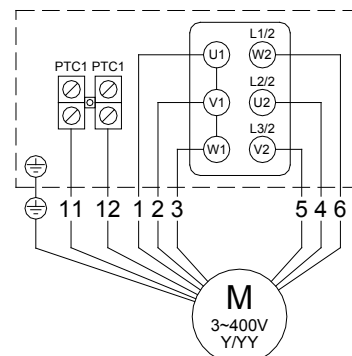
**2 Geschwind. – Y/Y Anschluss Dahlanderwickl.**

**Two speeds – Y/Y connection; Dahlander winding**

**Niedrige Geschw.  
Low speed**



**Hohe Geschw.  
High speed**



# Spezifikationen AVS, AVSV

| Pos. | Anz. | Beschreibung                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EP<br>EUR | GP<br>EUR |
|------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|
|      |      | <p>Axial Ventilator (<i>mit Leitschaufel</i>) für Innen (<i>Außen</i>) Montage und Funktionstemperatur bis zu 55°C. Ventilator zur Kanalinstallation (<i>Kanalinstallation mit freiem Einlass – Kanalinstallation mit freiem Auslass – Wandinstallation...</i>).</p> <p>Stahlventilatorgehäuse mit Flanschen wird in RAL 7011 geliefert (feuerverzinkt, ...). Das Laufrad ist nach Klasse G 6,3 gemäß DIN ISO 1940-1 (VDI 2060) statisch und dynamisch ausgewuchtet DIN ISO 1940-1.</p> <p><b>Hersteller:</b> <b>Burkhardt Projekt GmbH</b><br/> <b>Hagenstrasse 19, D-67583 Guntersblum</b></p> <p><b>Typ:</b> <b>burprovent AVS (AVSV).....</b></p> <p><b>Technische Daten</b><br/> Volumenstrom q..... m<sup>3</sup>/s<br/> Totaldruck Δp<sub>t</sub>..... Pa<br/> Temperatur t..... °C<br/> Installation Horizontal (<i>Vertikal</i>)</p> <p><b>Elektromotor</b><br/> Motorleistung P..... kW<br/> Drehzahl n..... min<sup>-1</sup><br/> Spannung U..... V<br/> Frequenz f..... Hz<br/> Nominal Spannung I..... A<br/> Schutzklasse IP 55<br/> PTC Ja (<i>Nein</i>)</p> <p><b>Zubehör</b><br/> .....</p> |           |           |

# SPECIFICATION AVS; AVSV

| Pos.<br>No. | Qty. | Subject                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unit price<br>EUR | Total<br>EUR |
|-------------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------|
|             |      | <p>Axial fan (<i>with guide vane</i>) for inside (<i>outdoor</i>) mounting and operating temperature up to 55°C. Fan for duct installation (<i>duct installation with free inlet - duct installation with free outlet – wall installation...</i>).</p> <p>Steel fan casing with flanges is painted with RAL 7011 (<i>hot dip galvanized,...</i>). Impeller has aluminium mould cast airfoil blades with adjustable angle at fan standstill. Impeller is statically and dynamically balanced in G 6,3 class according to DIN ISO 1940-1.</p> <p><b>Hersteller:</b> <b>Burkhardt Projekt GmbH</b><br/> <b>Hagenstrasse 19, D-67583 Guntersblum</b></p> <p><b>Typ:</b> <b>burprovent AVS (AVSV).....</b></p> <p><b>Technical data</b><br/> Flow rate q..... m<sup>3</sup>/s<br/> Total pressure Δp<sub>t</sub>..... Pa<br/> Operating temperature t..... °C<br/> Installation horizontal (<i>vertical</i>)</p> <p><b>Electromotor</b><br/> Power P..... kW<br/> RPM n..... min<sup>-1</sup><br/> Voltage U..... V<br/> Frequency f..... Hz<br/> Nominal current I..... A<br/> Protection class IP 55<br/> PTC Yes (<i>No</i>)</p> <p><b>Accessories</b>.....</p> |                   |              |

**Spezifikationen EX AVS, EX AVSV**

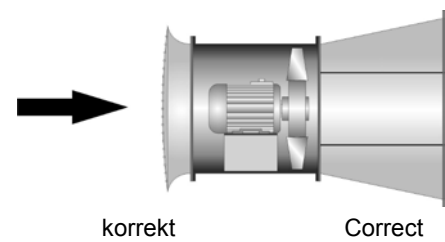
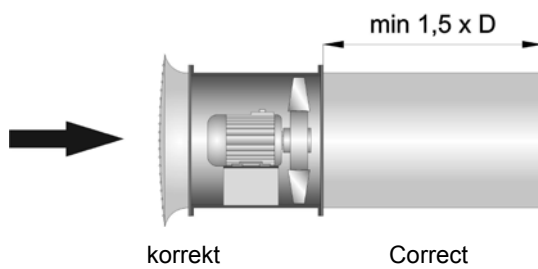
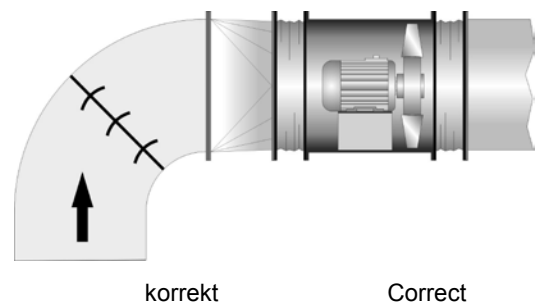
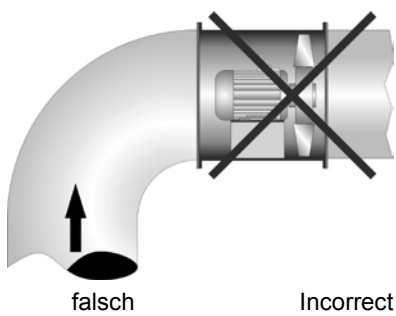
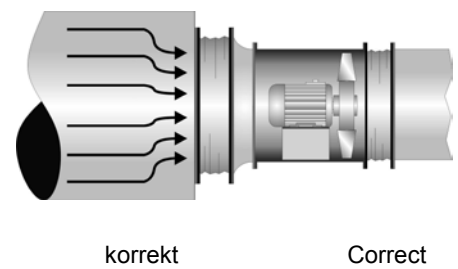
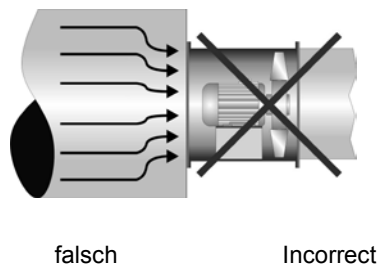
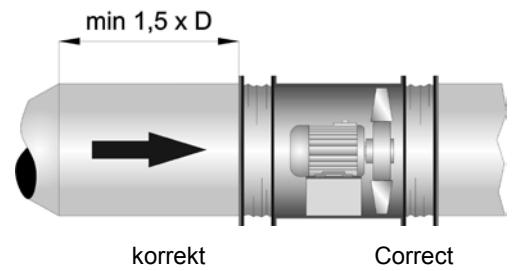
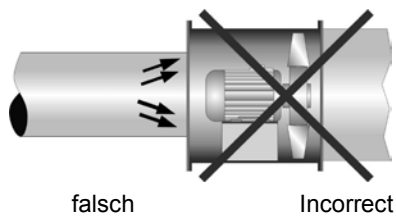
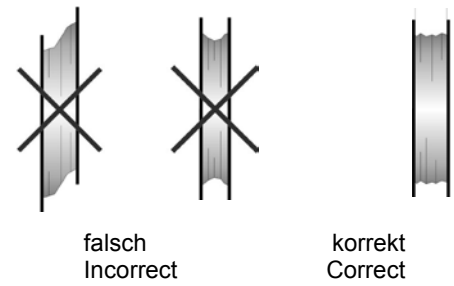
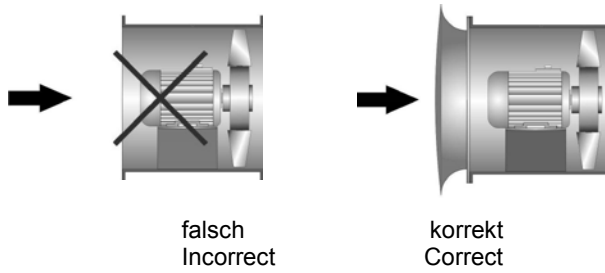
| Pos | Anz. | Beschreibung                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | EP<br>EUR | GP<br>EUR |
|-----|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------|
|     |      | <p>Axial Ventilator (<i>mit Leitschaufel</i>) für Innen (<i>Außen</i>) Montage und Funktionstemperatur bis zu 40°C. Ventilator für Kanal Installation (Kanal Installation mit freiem Einlass – Kanal Installation mit freiem Auslass – Wandinstallation ...)</p> <p>Stahlventilatorgehäuse mit Flanschen wird in RAL 7011 geliefert (feuerverzinkt, ...). Das Laufrad ist nach Klasse G 6,3 gemäß DIN ISO 1940-1 (VDI 2060) statisch und dynamisch ausgewuchtet. Der Ventilator ist gemäß der Norm EN 13463-1 und EN 14986 zertifiziert.</p> <p><b>Hersteller:</b> <b>Burkhardt Projekt GmbH</b></p> <p><b>Hagenstrasse 19, D-67583 Guntersblum</b></p> <p><b>Typ:</b> <b>burprovent EX AVS (EX AVSV).....</b></p> <p><b>Explosionsgefährdete Zone 1 (2)</b></p> <p><b>Schutz: Ex II 2G c IIB T4 (Ex II 3G c IIB T4)</b></p> <p><b>Technische Daten</b></p> <p>Volumenstrom q ..... m<sup>3</sup>/s</p> <p>Totaldruck <math>\Delta p_t</math> ..... Pa</p> <p>Temperatur t ..... °C</p> <p>Installation Horizontal (<i>Vertikal</i>)</p> <p><b>Elektromotor</b></p> <p>Motorleistung P ..... kW</p> <p>Drehzahl n ..... min<sup>-1</sup></p> <p>Spannung U ..... V</p> <p>Frequenz f ..... Hz</p> <p>Nominal Spannung I ..... A</p> <p>Schutzklasse IP 55</p> <p>PTC Ja (<i>Nein</i>)</p> <p><b>Zubehör</b></p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> |           |           |

**SPECIFICATION EX AVS; EX AVSV**

| Pos.<br>No. | Qty. | Subject                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit price<br>EUR | Total<br>EUR |
|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------|
|             |      | <p>Axial fan (<i>with guide vane</i>) for operation in an explosion hazardous environment for inside (<i>outdoor</i>) mounting and operating temperature up to 40°C. Fan is installed into duct (<i>duct with free inlet – duct with free outlet – into wall...</i>).</p> <p>Steel fan casing with flanges is painted with RAL 7011 (<i>hot dip galvanized,...</i>). Impeller has aluminium mould cast airfoil blades with adjustable angle at fan standstill. Impeller is statically and dynamically balanced in G 6,3 class according to DIN ISO 1940-1.</p> <p>Fan is certificated according to standard EN 13463-1 and EN 14986.</p> <p><b>Producer:</b> KLIMA CELJE d.d.<br/> <b>Type:</b> EX AVS (EX AVSV).....<br/> <b>Hazardous zone 1 (2)</b><br/> <b>Protection:</b> Ex II 2G c IIB T4 (Ex II 3G c IIB T4)</p> <p><b>Technical data</b><br/> Flow rate q .....m<sup>3</sup>/s<br/> Total pressure <math>\Delta p_t</math> .....Pa<br/> Operating temperature t .....°C<br/> Installation horizontal (<i>vertical</i>)</p> <p><b>Electromotor</b><br/> Power P .....kW<br/> RPM n .....min<sup>-1</sup><br/> Voltage U .....V<br/> Frequency f .....Hz<br/> Nominal current I .....A<br/> Protection class IP 55<br/> PTC Yes (No)</p> <p><b>Accessories</b><br/> .....<br/> .....<br/> .....<br/> .....<br/> .....</p> |                   |              |

## Installationsbeispiele

## INSTALLATION EXAMPLES



Daten in dieser Broschüre sind informativ. Wir behalten uns das Recht auf Änderungen ohne vorherige Ankündigung vor.  
Data in this brochure are informative. We reserve the right to changes without prior notice.



Planung und Ausführung von Jet-Ventilationssystemen  
Entrauchungssysteme  Ventilatoren  RLT Geräte

Burkhardt Projekt GmbH  
Hagenstr. 19  
D-67583 Guntersblum  
Tel: +49 (0) 62 49 - 806 93-0  
Fax: +49 (0) 62 49 - 806 93-99  
[info@burprovent.de](mailto:info@burprovent.de)  
[www.burprovent.de](http://www.burprovent.de)

2015