# Concealed flexi type unit with low ESP Technical Data

# FWE-DAFN5V3-L

# Table of contents

# FWE-DAFN5V3-L

# 1 Features

## 1 - 1 FWE-DAFN5V3-L



- Opposite water and electric connection: Left water connection and right electric connection
- Low unit casing height of 200mm
- Sirocco Fan leading to low noise operation
- Open control
- Multiple factory mounted valve combinations
- Increased flexibility of capacity setting in the field
- The air filter can easily be removed for cleaning

# 2 Specifications

## 1 - 1 FWE-DAFN5V3-L

| Technical Specifications | | | | FWE03DAFN5V3-L | FWE04DAFN5V3-L | FWE05DAFN5V3-L | FWE06DAFN5V3-L |
|---|---|---|---|---|---|---|---|
| Cooling capacity (standard conditions) | Latent capacity 4-pipe | High | kW | 0.32 | 0.34 | 0.43 | 0.49 |
| | | Super high | kW | 0.35 | 0.37 | 0.46 | 0.56 |
| | Sensible capacity 4-pipe | Fan speed 1 | kW | 1.00 | 0.99 | 1.09 | 1.02 |
| | | Fan speed 2 | kW | 1.16 | 1.15 | 1.35 | 1.28 |
| | | Fan speed 3 | kW | 1.31 | 1.34 | 1.64 | |
| | | Fan speed 4 | kW | 1.45 | 1.53 | 1.97 | |
| | | Fan speed 5 | kW | 1.59 | 1.69 | 2.11 | 2.23 |
| | | Fan speed 6 | kW | | - | | 2.56 |
| | | Low | kW | 1.00 | 1.15 | 1.35 | 1.64 |
| | | Medium | kW | 1.31 | 1.34 | 1.64 | 1.97 |
| | | High | kW | 1.59 | 1.69 | 2.11 | 2.56 |
| | Total capacity 4-pipe | Fan speed 1 | kW | 1.22 | 1.21 | 1.33 | 1.24 |
| | | Fan speed 2 | kW | 1.41 | 1.40 | 1.64 | 1.56 |
| | | Fan speed 3 | kW | 1.60 | 1.64 | 2.00 | 2.01 |
| | | Fan speed 4 | kW | 1.77 | 1.87 | 2.40 | |
| | | Fan speed 5 | kW | 1.94 | 2.06 | 2.58 | 2.72 |
| | | Fan speed 6 | kW | | - | | 3.12 |
| | | Low | kW | 1.22 | 1.40 | 1.64 | 2.01 |
| | | Medium | kW | 1.60 | 1.64 | 2.00 | 2.40 |
| | | High | kW | 1.94 | 2.06 | 2.58 | 3.12 |
| Heating capacity (standard conditions) | Capacity 4-pipe | Fan speed 1 | kW | 1.47 | 2.11 | 2.16 | 1.91 |
| | | Fan speed 2 | kW | 1.64 | 2.23 | 2.36 | 2.23 |
| | | Fan speed 3 | kW | 1.81 | 2.37 | 2.58 | 2.69 |
| | | Fan speed 4 | kW | 1.96 | 2.50 | 2.83 | 3.09 |
| | | Fan speed 5 | kW | 2.11 | 2.61 | 2.94 | 3.42 |
| | | Fan speed 6 | kW | | - | | 3.84 |
| | | Low | kW | 1.47 | 2.23 | 2.36 | 2.69 |
| | | Medium | kW | 1.81 | 2.37 | 2.58 | 3.09 |
| | | High | kW | 2.11 | 2.61 | 2.94 | 3.84 |
| Power input | Fan speed 1 | | kW | | 0.03 | | 0.04 |
| | Fan speed 2 | | kW | | 0.03 | | 0.04 |
| | Fan speed 3 | | kW | | 0.03 | | 0.04 |
| | Fan speed 4 | | kW | 0.03 | | 0.04 | 0.05 |
| | Fan speed 5 | | kW | 0.03 | | 0.04 | 0.05 |
| | Fan speed 6 | | kW | | - | | 0.062 |
| | Low | | kW | | 0.03 | | 0.04 |
| | Med. | | kW | | 0.03 | | 0.05 |
| | High | | kW | 0.033 | 0.032 | 0.039 | 0.062 |
| Dimensions | Unit | Height | mm | | 200 | | |
| | | Width | mm | | 795 | | 995 |
| | | Depth | mm | | 610 | | |
| | Packed unit | Height | mm | | 205 | | |
| | | Width | mm | | 925 | | 1,125 |
| | | Depth | mm | | 745 | | |
| Weight | Unit | | kg | 18.0 | 19.0 | | 22.5 |
| | Packed unit | | kg | 21 | 22 | | 26 |
| Casing | Colour | | | | Metal | | |
| | Material | | | | Galvanised sheet metal | | |
| Heat exchanger | Length | | mm | | 490 | | 690 |
| Heat exchanger | Rows | Quantity | | 2 | 3 | | |
| | Row step | Quantity | | | 6 | | 4 |
| | Fin | Type | | | ML fin (Multi louver) | | |
| | Tube material | | | | Seamless copper | | |
| | Tube type | | | | ø7 Smooth tube | | |
| | Tube thickness | | mm | | 0.32 | | |
| Air filter | Type | | | | Plastic Frame / PP Filter Net (G1) | | |
| | Quantity | | pc | | 2 | | 3 |

# 2 Specifications

## 1 - 1 FWE-DAFN5V3-L



| Technical Specifications | | | | FWE03DAFN5V3-L | FWE04DAFN5V3-L | FWE05DAFN5V3-L | FWE06DAFN5V3-L |
|---|---|---|---|---|---|---|---|
| Fan | Type | | | Sirocco fan | | | |
| | Quantity | | | 2 | | | 3 |
| | Air flow rate | Fan speed 1 | $m^3/h$ | 235 | 227 | 243 | 290 |
| | | Fan speed 2 | $m^3/h$ | 280 | 263 | 304 | 355 |
| | | Fan speed 3 | $m^3/h$ | 326 | 306 | 374 | 446 |
| | | Fan speed 4 | $m^3/h$ | 365 | 350 | 453 | 527 |
| | | Fan speed 5 | $m^3/h$ | 407 | 385 | 488 | 593 |
| | | Fan speed 6 | $m^3/h$ | - | | | 677 |
| | | Low | $m^3/h$ | 235 | 263 | 304 | 446 |
| | | Medium | $m^3/h$ | 326 | 306 | 374 | 527 |
| | | High | $m^3/h$ | 407 | 385 | 488 | 677 |
| | Available static pressure | Fan speed 1 | Pa | 27 | | 25 | |
| | | Fan speed 2 | Pa | 34 | 33 | 32 | |
| | | Fan speed 3 | Pa | 41 | | 40 | 41 |
| | | Fan speed 4 | Pa | 47 | 48 | 50 | 48 |
| | | Fan speed 5 | Pa | 55 | 57 | 55 | |
| | | Fan speed 6 | Pa | - | | | 60 |
| | | Low | Pa | 27 | 33 | 32 | 41 |
| | | Medium | Pa | 41 | | 40 | 48 |
| | | High | Pa | 55 | 57 | 55 | 60 |
| Fan motor | Model | | | YF110-10-4S3 | | YF110-12-4S35 | YF110-15-4S22 |
| | Type | | | AC Motor | | | |
| | Index of Protection | | | 20 | | | |
| | Insulation grade | | | B | | | |
| | Poles | | | 4 | | | |
| Insulation material | | | | Class 0 (NBR Foam, Melamine Foam) | | | |
| Total sound power level | Fan speed 1 | | dBA | | 33.0 | | 30.0 |
| | Fan speed 2 | | dBA | 35.0 | 34.0 | 37.0 | 34.0 |
| | Fan speed 3 | | dBA | 39.0 | 38.0 | 41.0 | 39.0 |
| | Fan speed 4 | | dBA | 42.0 | | 46.0 | 44.0 |
| | Fan speed 5 | | dBA | 45.0 | 44.0 | 50.0 | 46.0 |
| | Fan speed 6 | | dBA | - | | | 50.0 |
| | Low | | dBA | 33.0 | 34.0 | 37.0 | 39.0 |
| | Medium | | dBA | 39.0 | 38.0 | 41.0 | 44.0 |
| | High | | dBA | 45.0 | 44.0 | 50.0 | |
| Sound pressure level | Fan speed 1 | | dBA | 21.0 | 22.0 | | 20.0 |
| | Fan speed 2 | | dBA | 25.0 | 23.0 | 27.0 | 24.0 |
| | Fan speed 3 | | dBA | 28.0 | 27.0 | 31.0 | 29.0 |
| | Fan speed 4 | | dBA | 31.0 | | 36.0 | 34.0 |
| | Fan speed 5 | | dBA | 35.0 | 34.0 | 40.0 | 36.0 |
| | Fan speed 6 | | dBA | - | | | 40.0 |
| | Low | | dBA | 21.0 | 23.0 | 27.0 | 29.0 |
| Sound pressure level | Medium | | dBA | 28.0 | 27.0 | 31.0 | 34.0 |
| | High | | dBA | 35.0 | 34.0 | 40.0 | |

# 2 Specifications

## 1 - 1 FWE-DAFN5V3-L

| Technical Specifications | | | | | FWE03DAFN5V3-L | FWE04DAFN5V3-L | FWE05DAFN5V3-L | FWE06DAFN5V3-L |
|---|---|---|---|---|---|---|---|---|
| Water flow | Cooling | Fan speed 1 | | l/h | 210 | 209 | 228 | 213 |
| | | Fan speed 2 | | l/h | 243 | 241 | 282 | 268 |
| | | Fan speed 3 | | l/h | 275 | 282 | 343 | 345 |
| | | Fan speed 4 | | l/h | 303 | 321 | 413 | 412 |
| | | Fan speed 5 | | l/h | 334 | 354 | 443 | 468 |
| | | Fan speed 6 | | l/h | | - | | 536 |
| | | Low | | l/h | 210 | 241 | 282 | 345 |
| | | Medium | | l/h | 275 | 282 | 343 | 412 |
| | | High | | l/h | 334 | 354 | 443 | 536 |
| | Heating | Fan speed 1 | | l/h | 126 | 182 | 186 | 164 |
| | | Fan speed 2 | | l/h | 141 | 192 | 203 | 192 |
| | | Fan speed 3 | | l/h | 156 | 203 | 222 | 231 |
| | | Fan speed 4 | | l/h | 168 | 215 | 243 | 266 |
| | | Fan speed 5 | | l/h | 182 | 225 | 253 | 294 |
| | | Fan speed 6 | | l/h | | - | | 330 |
| | | High | | l/h | 182 | 225 | 253 | 330 |
| | | Low | | l/h | 126 | 192 | 203 | 231 |
| | | Medium | | l/h | 156 | 203 | 222 | 266 |
| | Water pressure drop | Cooling | Fan speed 1 | kPa | 6 | 4 | | 2 |
| | | | Fan speed 2 | kPa | 8 | 5 | 6 | 3 |
| | | | Fan speed 3 | kPa | 9 | 7 | 8 | 4 |
| | | | Fan speed 4 | kPa | 11 | 8 | 12 | 5 |
| | | | Fan speed 5 | kPa | 13 | 10 | 14 | 7 |
| | | | Fan speed 6 | kPa | | - | | 9 |
| | | | Low | kPa | 6 | 5 | 6 | 4 |
| | | | Medium | kPa | 9 | 7 | 8 | 5 |
| | | | High | kPa | 13 | 10 | 14 | 9 |
| | | Heating | Fan speed 1 | kPa | 12 | 7 | | 3 |
| | | | Fan speed 2 | kPa | 14 | 7 | 8 | 4 |
| | | | Fan speed 3 | kPa | 17 | 8 | 9 | 6 |
| | | | Fan speed 4 | kPa | 20 | 9 | 11 | 8 |
| | | | Fan speed 5 | kPa | 23 | 10 | 12 | 10 |
| | | | Fan speed 6 | kPa | | - | | 12 |
| | | | Low | kPa | 12 | 7 | 8 | 6 |
| | | | Medium | kPa | 17 | 8 | 9 | 8 |
| | | | High | kPa | 23 | 10 | 12 | |
| Allowed water temperature | Cooling | Min. | | °C | 5 | | | |
| | | Max. | | °C | 90.0 | | | |
| | Heating | Min. | | °C | 5.00 | | | |
| | | Max. | | °C | 90.000 | | | |
| Piping connections | Water | Inlet | | | 3/4" | | | |
| | | Outlet | | | 3/4" | | | |
| | Drain | OD | | mm | 17.3 | | | |

| Technical Specifications | | | | FWE07DAFN5V3-L | FWE08DAFN5V3-L | FWE10DAFN5V3-L | FWE11DAFN5V3-L |
|---|---|---|---|---|---|---|---|
| Cooling capacity (standard conditions) | Latent capacity 4-pipe | High | kW | 0.58 | 0.66 | 0.86 | 0.92 |
| | | Super high | kW | 0.62 | 0.71 | 0.94 | 1.01 |
| | Sensible capacity 4-pipe | Fan speed 1 | kW | 1.70 | 1.95 | 2.11 | 2.30 |
| | | Fan speed 2 | kW | 1.98 | 2.27 | 2.54 | 2.78 |
| | | Fan speed 3 | kW | 2.12 | 2.43 | 2.89 | 3.10 |
| | | Fan speed 4 | kW | 2.28 | 2.62 | 3.44 | 3.61 |
| | | Fan speed 5 | kW | 2.62 | 3.00 | 3.93 | 4.20 |
| | | Fan speed 6 | kW | 2.81 | 3.22 | 4.28 | 4.59 |
| | | Low | kW | 1.98 | 2.27 | 2.54 | 2.78 |
| | | Medium | kW | 2.28 | 3.00 | 3.44 | 3.61 |
| | | High | kW | 2.81 | 3.22 | 4.28 | 4.59 |
| | Total capacity 4-pipe | Fan speed 1 | kW | 2.07 | 3.22 | 2.57 | 2.81 |
| | | Fan speed 2 | kW | 2.42 | 3.57 | 3.10 | 3.39 |
| | | Fan speed 3 | kW | 2.58 | 3.73 | 3.52 | 3.78 |
| | | Fan speed 4 | kW | 2.79 | 3.93 | 4.19 | 4.41 |
| | | Fan speed 5 | kW | 3.20 | 4.34 | 4.79 | 5.13 |
| | | Fan speed 6 | kW | 3.42 | 4.57 | 5.22 | 5.60 |
| | | Low | kW | 2.42 | 2.77 | 3.10 | 3.39 |
| | | Medium | kW | 2.79 | 3.66 | 4.19 | 4.41 |
| | | High | kW | 3.42 | 3.92 | 5.22 | 5.60 |

# 2 Specifications

## 1 - 1 FWE-DAFN5V3-L



| Technical Specifications | | | | FWE07DAFN5V3-L | FWE08DAFN5V3-L | FWE10DAFN5V3-L | FWE11DAFN5V3-L |
|---|---|---|---|---|---|---|---|
| Heating capacity (standard conditions) | Capacity 4-pipe | Fan speed 1 | kW | 3.22 | | 3.39 | 3.60 |
| | | Fan speed 2 | kW | 3.57 | | 3.87 | 4.14 |
| | | Fan speed 3 | kW | 3.73 | | 4.26 | 4.49 |
| | | Fan speed 4 | kW | 3.93 | | 4.87 | 5.07 |
| | | Fan speed 5 | kW | 4.34 | | 5.43 | 5.73 |
| | | Fan speed 6 | kW | 4.57 | | 5.83 | 6.18 |
| | | Low | kW | 3.57 | | 3.87 | 4.14 |
| | | Medium | kW | 3.93 | 4.34 | 4.87 | 5.07 |
| | | High | kW | 4.57 | | 5.83 | 6.18 |
| Power input | Fan speed 1 | | kW | 0.03 | | | |
| | Fan speed 2 | | kW | 0.04 | | | |
| | Fan speed 3 | | kW | 0.04 | | 0.05 | |
| | Fan speed 4 | | kW | 0.05 | | 0.06 | |
| | Fan speed 5 | | kW | 0.06 | | 0.08 | 0.09 |
| | Fan speed 6 | | kW | 0.067 | | 0.104 | 0.110 |
| | Low | | kW | 0.04 | | | |
| | Med. | | kW | 0.05 | | 0.06 | |
| | High | | kW | 0.067 | | 0.104 | 0.110 |
| Dimensions | Unit | Height | mm | 200 | | | |
| | | Width | mm | 1,200 | | | |
| | | Depth | mm | 610 | | | |
| | Packed unit | Height | mm | 205 | | | |
| | | Width | mm | 1,325 | | | |
| | | Depth | mm | 745 | | | |
| Weight | Unit | | kg | 26.0 | | | |
| | Packed unit | | kg | 30 | | | |
| Casing | Colour | | | Metal | | | |
| | Material | | | Galvanised sheet metal | | | |
| Heat exchanger | Length | | mm | 890 | | | |
| Heat exchanger | Rows | Quantity | | 3 | | | |
| | Row step | Quantity | | 4 | | | |
| | Fin | Type | | ML fin (Multi louver) | | | |
| | Tube material | | | Seamless copper | | | |
| | Tube type | | | ø7 Smooth tube | | | |
| | Tube thickness | | mm | 0.32 | | | |
| Air filter | Type | | | Plastic Frame / PP Filter Net (G1) | | | |
| | Quantity | | pc | 3 | | | |
| Fan | Type | | | Sirocco fan | | | |
| | Quantity | | | 4 | | | |
| | Air flow rate | Fan speed 1 | $m^3/h$ | 397 | | 436 | 489 |
| | | Fan speed 2 | $m^3/h$ | 481 | | 555 | 619 |
| | | Fan speed 3 | $m^3/h$ | 521 | | 648 | 705 |
| | | Fan speed 4 | $m^3/h$ | 570 | | 798 | 846 |
| | | Fan speed 5 | $m^3/h$ | 669 | | 934 | 1,008 |
| | | Fan speed 6 | $m^3/h$ | 725 | | 1,032 | 1,116 |
| | | Low | $m^3/h$ | 481 | | 555 | 619 |
| | | Medium | $m^3/h$ | 570 | 669 | 798 | 846 |
| | | High | $m^3/h$ | 725 | | 1,032 | 1,116 |
| | Available static pressure | Fan speed 1 | Pa | 28 | | 22 | 25 |
| | | Fan speed 2 | Pa | 34 | | 32 | 34 |
| | | Fan speed 3 | Pa | 40 | | | 41 |
| | | Fan speed 4 | Pa | 46 | | 49 | |
| | | Fan speed 5 | Pa | 55 | | 59 | 58 |
| | | Fan speed 6 | Pa | 60 | | 63 | 65 |
| | | Low | Pa | 34 | | 32 | 34 |
| | | Medium | Pa | 46 | 55 | 49 | |
| | | High | Pa | 60 | | 63 | 65 |
| Fan motor | Model | | | YF110-18-4S44 | | YF110-52-4S40 | YF110-56-4S14 |
| | Type | | | AC Motor | | | |
| | Index of Protection | | | 20 | | | |
| | Insulation grade | | | B | | | |
| | Poles | | | 4 | | | |
| Insulation material | | | | Class 0 (NBR Foam, Melamine Foam) | | | |
| Total sound power level | Fan speed 1 | | dBA | 31.0 | | 38.0 | 40.0 |
| | Fan speed 2 | | dBA | 34.0 | | 43.0 | 44.0 |
| | Fan speed 3 | | dBA | 38.0 | | 47.0 | |
| | Fan speed 4 | | dBA | 42.0 | | 51.0 | 52.0 |
| | Fan speed 5 | | dBA | 46.0 | | 54.0 | 56.0 |
| | Fan speed 6 | | dBA | 50.0 | | 57.0 | 59.0 |
| | Low | | dBA | 34.0 | | 43.0 | 44.0 |
| | Medium | | dBA | 42.0 | 46.0 | 51.0 | 52.0 |
| | High | | dBA | 50.0 | | 57.0 | 59.0 |

# 2 Specifications

## 1 - 1 FWE-DAFN5V3-L

| Technical Specifications | | | | | FWE07DAFN5V3-L | FWE08DAFN5V3-L | FWE10DAFN5V3-L | FWE11DAFN5V3-L |
|---|---|---|---|---|---|---|---|---|
| Sound pressure level | Fan speed 1 | | | dBA | 21.0 | | 27.0 | 29.0 |
| | Fan speed 2 | | | dBA | 24.0 | | 33.0 | 34.0 |
| | Fan speed 3 | | | dBA | 27.0 | | 37.0 | |
| | Fan speed 4 | | | dBA | 32.0 | | 41.0 | 42.0 |
| | Fan speed 5 | | | dBA | 36.0 | | 44.0 | 46.0 |
| | Fan speed 6 | | | dBA | 40.0 | | 47.0 | 49.0 |
| | Low | | | dBA | 24.0 | | 33.0 | 34.0 |
| Sound pressure level | Medium | | | dBA | 32.0 | 36.0 | 41.0 | 42.0 |
| | High | | | dBA | 40.0 | | 47.0 | 49.0 |
| Water flow | Cooling | Fan speed 1 | | l/h | 354 | 409 | 442 | 483 |
| | | Fan speed 2 | | l/h | 415 | 477 | 534 | 583 |
| | | Fan speed 3 | | l/h | 444 | 509 | 605 | 650 |
| | | Fan speed 4 | | l/h | 479 | 549 | 720 | 757 |
| | | Fan speed 5 | | l/h | 551 | 630 | 824 | 881 |
| | | Fan speed 6 | | l/h | 589 | 674 | 897 | 962 |
| | | Low | | l/h | 415 | 477 | 534 | 583 |
| | | Medium | | l/h | 479 | 630 | 720 | 757 |
| | | High | | l/h | 589 | 674 | 897 | 962 |
| | Heating | Fan speed 1 | | l/h | 277 | | 291 | 310 |
| | | Fan speed 2 | | l/h | 307 | | 333 | 356 |
| | | Fan speed 3 | | l/h | 321 | | 366 | 386 |
| | | Fan speed 4 | | l/h | 338 | | 419 | 436 |
| | | Fan speed 5 | | l/h | 374 | | 467 | 493 |
| | | Fan speed 6 | | l/h | 393 | | 502 | 531 |
| | | High | | l/h | 393 | | 502 | 531 |
| | | Low | | l/h | 307 | | 333 | 356 |
| | | Medium | | l/h | 338 | 374 | 419 | 436 |
| | Water pressure drop | Cooling | Fan speed 1 | kPa | 4 | 9 | 8 | 9 |
| | | | Fan speed 2 | kPa | 6 | 11 | | 13 |
| | | | Fan speed 3 | kPa | 7 | 12 | 14 | 16 |
| | | | Fan speed 4 | kPa | 8 | 13 | 19 | 21 |
| | | | Fan speed 5 | kPa | 12 | 17 | 25 | 28 |
| | | | Fan speed 6 | kPa | 14 | 19 | 29 | 33 |
| | | | Low | kPa | 6 | 11 | | 13 |
| | | | Medium | kPa | 8 | 17 | 19 | 21 |
| | | | High | kPa | 14 | 19 | 29 | 33 |
| | | Heating | Fan speed 1 | kPa | 5 | | 6 | 7 |
| | | | Fan speed 2 | kPa | 6 | | 7 | 8 |
| | | | Fan speed 3 | kPa | 7 | | 8 | 9 |
| | | | Fan speed 4 | kPa | 8 | | 10 | 11 |
| | | | Fan speed 5 | kPa | 9 | | 12 | 14 |
| | | | Fan speed 6 | kPa | 10 | | 14 | 15 |
| | | | Low | kPa | 6 | | 7 | 8 |
| | | | Medium | kPa | 8 | 9 | 10 | 11 |
| | | | High | kPa | 10 | | 14 | 15 |
| Allowed water temperature | Cooling | Min. | | °C | 5 | | | |
| | | Max. | | °C | 90.0 | | | |
| | Heating | Min. | | °C | 5.00 | | | |
| | | Max. | | °C | 90.000 | | | |
| Piping connections | Water | Inlet | | | 3/4" | | | |
| | | Outlet | | | 3/4" | | | |
| | Drain | OD | | mm | 17.3 | | | |

Standard accessories: Installation manual; Quantity: 1;

| Electrical Specifications | | | FWE03DAFN5V3-L | FWE04DAFN5V3-L | FWE05DAFN5V3-L | FWE06DAFN5V3-L |
|---|---|---|---|---|---|---|
| Power supply | Type | | 230 / 1 / 50 | | | |
| | Phase | | 1~ | | | |
| | Frequency | Hz | 50 | | | |
| | Voltage | V | 230 | | | |

| Electrical Specifications | | | FWE07DAFN5V3-L | FWE08DAFN5V3-L | FWE10DAFN5V3-L | FWE11DAFN5V3-L |
|---|---|---|---|---|---|---|
| Power supply | Type | | 230 / 1 / 50 | | | |
| | Phase | | 1~ | | | |
| | Frequency | Hz | 50 | | | |
| | Voltage | V | 230 | | | |

Inlet/outlet water temperature 7/12 °C; inlet air temperature 27°C DB 19°C WB |
Heating: indoor temp. 20°CDB, 15°CWB; entering water temp. 45°C, water temperature drop 5K. |
Heating: indoor temp. 20°CDB, 15°CWB; entering water temp. 65°C, water temperature drop 10K.

# 3 Electrical data

## 3 - 1 Electrical Data



**FWE-DAFN5V3(L-R-S-T)**
**FWE-DATN5V3(L-R-S-T)**

| UNITS | POWER SUPPLY | | | | | | INPUT(W) |
|---|---|---|---|---|---|---|---|
| MODEL | Hz | VOLTAGE RANGE (V) | VOLTAGE LIMITS(V) | MCA | MFA | FLA | FAN ONLY |
| FWE03DAFN5V3-L/R/S/T | 50 | 230 | MAX. 253 MIN. 207 | 0,16 | 16 | 0,13 | 31 |
| FWE03DATN5V3-L/R/S/T | 50 | 230 | MAX. 253 MIN. 207 | 0,16 | 16 | 0,13 | |
| FWE04DAFN5V3-L/R/S/T | 50 | 230 | MAX. 253 MIN. 207 | 0,16 | 16 | 0,13 | 32 |
| FWE04DATN5V3-L/R/S/T | 50 | 230 | MAX. 253 MIN. 207 | 0,16 | 16 | 0,13 | |
| FWE05DAFN5V3-L/R/S/T | 50 | 230 | MAX. 253 MIN. 207 | 0,19 | 16 | 0,13 | 39 |
| FWE05DATN5V3-L/R/S/T | 50 | 230 | MAX. 253 MIN. 207 | 0,19 | 16 | 0,13 | |
| FWE06DAFN5V3-L/R/S/T | 50 | 230 | MAX. 253 MIN. 207 | 0,33 | 16 | 0,13 | 62 |
| FWE06DATN5V3-L/R/S/T | 50 | 230 | MAX. 253 MIN. 207 | 0,33 | 16 | 0,13 | |
| FWE07DAFN5V3-L/R/S/T | 50 | 230 | MAX. 253 MIN. 207 | 0,35 | 16 | 0,13 | 65 |
| FWE07DATN5V3-L/R/S/T | 50 | 230 | MAX. 253 MIN. 207 | 0,35 | 16 | 0,13 | |
| FWE08DAFN5V3-L/R/S/T | 50 | 230 | MAX. 253 MIN. 207 | 0,44 | 16 | 0,13 | 67 |
| FWE08DATN5V3-L/R/S/T | 50 | 230 | MAX. 253 MIN. 207 | 0,44 | 16 | 0,13 | |
| FWE10DAFN5V3-L/R/S/T | 50 | 230 | MAX. 253 MIN. 207 | 0,54 | 16 | 0,13 | 104 |
| FWE10DATN5V3-L/R/S/T | 50 | 230 | MAX. 253 MIN. 207 | 0,54 | 16 | 0,13 | |
| FWE11DAFN5V3-L/R/S/T | 50 | 230 | MAX. 253 MIN. 207 | 0,58 | 16 | 0,13 | 110 |
| FWE11DATN5V3-L/R/S/T | 50 | 230 | MAX. 253 MIN. 207 | 0,58 | 16 | 0,13 | |

Symbols:

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (See note 5)
kW : Fan Motor Rated Output (kW)
FLA : Full Load Amps (A)
ESP : External Static Pressure

Notes:

1. Voltage limits:
   Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below/above listed range limits.
2. Max. allowable voltage unbalance between phases 2%.
3. MCA = 1,25 x FLA;
   (Next lower standard fuse rating min. 16A)
   MFA <= 4 x FLA;
4. Select wire size based on the MCA.
5. Input power measured from rated conditions which has 230 V.

**3D123458A**

# 4 Capacity tables

## 4 - 1 Cooling Capacity Tables

**FWE-DAFN5V3(L-R-S-T)**



| COOLING 4 PIPE @ 0 ESP | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Air Temperature | | DB:25°C - WB:18°C - RH %51 | | | | | | | | | | | | | | | |
| Water Temperature (Entering °C - Leaving °C) | | ΔT=5 | | | | | | | | ΔT=6 | | | | | | | |
| | | 7-12 | | | | 10-15 | | | | 7-13 | | | | 10-16 | | | |
| Model / Fan Speed | | Pc | Sc | Wf | Dp | Pc | Sc | Wf | Dp | Pc | Sc | Wf | Dp | Pc | Sc | Wf | Dp |
| | | kW | kW | l/h | kPa | kW | kW | l/h | kPa | kW | kW | l/h | kPa | kW | kW | l/h | kPa |
| FWE03DF | 1 (L) | 1.00 | 0.90 | 173 | 4.4 | 0.73 | 0.73 | 126 | 2.7 | 1.07 | 0.95 | 153 | 3.7 | 0.77 | 0.77 | 110 | 2.2 |
| | 2 | 1.16 | 1.05 | 200 | 5.6 | 0.85 | 0.85 | 146 | 3.4 | 1.23 | 1.10 | 177 | 4.6 | 0.89 | 0.89 | 127 | 2.8 |
| | 3 (M) | 1.32 | 1.19 | 227 | 6.9 | 0.96 | 0.96 | 166 | 4.1 | 1.40 | 1.25 | 201 | 5.6 | 1.01 | 1.01 | 145 | 3.4 |
| | 4 | 1.45 | 1.31 | 250 | 8.1 | 1.06 | 1.06 | 183 | 4.8 | 1.54 | 1.37 | 221 | 6.6 | 1.11 | 1.11 | 160 | 3.95 |
| | 5 (H) | 1.60 | 1.44 | 276 | 9.5 | 1.17 | 1.17 | 201 | 5.6 | 1.70 | 1.51 | 244 | 7.6 | 1.23 | 1.23 | 176 | 4.59 |
| FWE04DF | 1 | 1.00 | 0.90 | 172 | 2.7 | 0.73 | 0.73 | 125 | 1.5 | 1.06 | 0.94 | 152 | 2.2 | 0.76 | 0.76 | 109 | 1.2 |
| | 2 (L) | 1.16 | 1.04 | 199 | 3.5 | 0.84 | 0.84 | 145 | 2.0 | 1.23 | 1.09 | 176 | 2.8 | 0.88 | 0.88 | 127 | 1.6 |
| | 3 (M) | 1.35 | 1.21 | 232 | 4.6 | 0.98 | 0.98 | 169 | 2.6 | 1.43 | 1.27 | 205 | 3.7 | 1.03 | 1.03 | 148 | 2.1 |
| | 4 | 1.54 | 1.39 | 265 | 5.9 | 1.12 | 1.12 | 194 | 3.3 | 1.64 | 1.46 | 235 | 4.7 | 1.18 | 1.18 | 169 | 2.6 |
| | 5 (H) | 1.70 | 1.53 | 292 | 7.1 | 1.24 | 1.24 | 213 | 4.0 | 1.80 | 1.60 | 258 | 5.6 | 1.30 | 1.30 | 187 | 3.1 |
| FWE05DF | 1 | 1.09 | 0.98 | 188 | 2.3 | 0.79 | 0.79 | 137 | 1.1 | 1.16 | 1.03 | 166 | 1.7 | 0.84 | 0.84 | 120 | 0.8 |
| | 2 (L) | 1.35 | 1.22 | 233 | 3.6 | 0.98 | 0.98 | 170 | 1.8 | 1.44 | 1.28 | 206 | 2.8 | 1.03 | 1.03 | 148 | 1.3 |
| | 3 (M) | 1.65 | 1.48 | 283 | 5.6 | 1.20 | 1.20 | 207 | 2.8 | 1.75 | 1.56 | 251 | 4.3 | 1.26 | 1.26 | 181 | 2.1 |
| | 4 | 1.98 | 1.78 | 341 | 8.3 | 1.45 | 1.45 | 249 | 4.2 | 2.10 | 1.87 | 302 | 6.4 | 1.52 | 1.52 | 218 | 3.1 |
| | 5 (H) | 2.13 | 1.92 | 366 | 9.6 | 1.55 | 1.55 | 267 | 4.9 | 2.26 | 2.05 | 324 | 7.4 | 1.63 | 1.63 | 234 | 3.7 |
| FWE06DF | 1 | 1.02 | 0.91 | 175 | 0.5 | 0.74 | 0.74 | 127 | 0.1 | 1.08 | 0.96 | 155 | 0.3 | 0.77 | 0.77 | 111 | 0.1 |
| | 2 | 1.28 | 1.15 | 221 | 1.0 | 0.93 | 0.93 | 160 | 0.4 | 1.36 | 1.21 | 195 | 0.7 | 0.98 | 0.98 | 140 | 0.2 |
| | 3 (L) | 1.65 | 1.49 | 284 | 2.0 | 1.20 | 1.20 | 207 | 0.9 | 1.75 | 1.56 | 252 | 1.5 | 1.26 | 1.26 | 181 | 0.6 |
| | 4 (M) | 1.98 | 1.78 | 340 | 3.1 | 1.44 | 1.44 | 248 | 1.4 | 2.10 | 1.87 | 301 | 2.3 | 1.51 | 1.51 | 217 | 1.0 |
| | 5 | 2.25 | 2.02 | 387 | 4.2 | 1.64 | 1.64 | 282 | 2.0 | 2.38 | 2.12 | 342 | 3.1 | 1.72 | 1.72 | 247 | 1.4 |
| | 6 (H) | 2.57 | 2.32 | 443 | 5.7 | 1.87 | 1.87 | 322 | 2.7 | 2.73 | 2.43 | 392 | 4.3 | 1.97 | 1.97 | 282 | 2.0 |
| FWE07DF | 1 | 1.70 | 1.53 | 293 | 2.4 | 1.24 | 1.24 | 213 | 0.9 | 1.80 | 1.61 | 259 | 1.7 | 1.30 | 1.30 | 187 | 0.6 |
| | 2 (L) | 1.99 | 1.79 | 343 | 3.6 | 1.45 | 1.45 | 250 | 1.5 | 2.11 | 1.88 | 303 | 2.6 | 1.53 | 1.53 | 219 | 1.0 |
| | 3 | 2.13 | 1.92 | 367 | 4.3 | 1.55 | 1.55 | 267 | 1.8 | 2.26 | 2.01 | 324 | 3.1 | 1.63 | 1.63 | 234 | 1.2 |
| | 4 (M) | 2.30 | 2.07 | 396 | 5.2 | 1.68 | 1.68 | 289 | 2.3 | 2.44 | 2.17 | 350 | 3.8 | 1.76 | 1.76 | 253 | 1.6 |
| | 5 | 2.65 | 2.38 | 455 | 7.4 | 1.93 | 1.93 | 332 | 3.4 | 2.81 | 2.50 | 403 | 5.5 | 2.03 | 2.03 | 291 | 2.3 |
| | 6 (H) | 2.83 | 2.54 | 486 | 8.6 | 2.06 | 2.06 | 354 | 4.0 | 3.00 | 2.67 | 430 | 6.4 | 2.16 | 2.16 | 310 | 2.8 |
| FWE08DF | 1 | 1.96 | 1.77 | 338 | 6.5 | 1.43 | 1.43 | 247 | 4.2 | 2.08 | 1.85 | 299 | 5.5 | 1.51 | 1.51 | 216 | 3.5 |
| | 2 (L) | 2.29 | 2.06 | 394 | 8.2 | 1.67 | 1.67 | 288 | 5.2 | 2.43 | 2.16 | 348 | 6.8 | 1.76 | 1.76 | 252 | 4.3 |
| | 3 | 2.45 | 2.20 | 421 | 9.0 | 1.79 | 1.79 | 307 | 5.7 | 2.60 | 2.31 | 372 | 7.5 | 1.88 | 1.88 | 269 | 4.7 |
| | 4 | 2.64 | 2.37 | 454 | 10.1 | 1.92 | 1.92 | 331 | 6.3 | 2.80 | 2.49 | 401 | 8.4 | 2.02 | 2.02 | 290 | 5.3 |
| | 5 (M) | 3.02 | 2.72 | 520 | 12.4 | 2.21 | 2.21 | 380 | 7.7 | 3.21 | 2.86 | 460 | 10.3 | 2.32 | 2.32 | 332 | 6.4 |
| | 6 (H) | 3.24 | 2.91 | 557 | 13.8 | 2.36 | 2.36 | 406 | 8.5 | 3.44 | 3.06 | 493 | 11.4 | 2.48 | 2.48 | 356 | 7.0 |
| FWE10DF | 1 | 2.12 | 1.91 | 365 | 5.6 | 1.55 | 1.55 | 267 | 3.2 | 2.25 | 2.00 | 323 | 4.5 | 1.63 | 1.63 | 234 | 2.6 |
| | 2 (L) | 2.56 | 2.31 | 441 | 7.8 | 1.87 | 1.87 | 366 | 4.5 | 2.72 | 2.42 | 390 | 6.3 | 1.97 | 1.97 | 282 | 3.6 |
| | 3 | 2.91 | 2.62 | 500 | 9.8 | 2.12 | 2.12 | 497 | 5.6 | 3.09 | 2.75 | 442 | 7.9 | 2.23 | 2.23 | 320 | 4.4 |
| | 4 (M) | 3.46 | 3.12 | 596 | 13.5 | 2.53 | 2.53 | 323 | 7.6 | 3.67 | 3.27 | 527 | 10.8 | 2.65 | 2.65 | 381 | 6.0 |
| | 5 | 3.96 | 3.56 | 681 | 17.3 | 2.89 | 2.89 | 435 | 9.7 | 4.20 | 3.74 | 602 | 13.8 | 3.03 | 3.03 | 435 | 7.6 |
| | 6 (H) | 4.31 | 3.88 | 741 | 20.3 | 3.14 | 3.14 | 540 | 11.3 | 4.57 | 4.07 | 656 | 16.1 | 3.30 | 3.30 | 473 | 8.9 |
| FWE11DF | 1 | 2.32 | 2.09 | 400 | 6.6 | 1.70 | 1.70 | 292 | 3.8 | 2.46 | 2.19 | 353 | 5.3 | 1.78 | 1.78 | 256 | 3.0 |
| | 2 (L) | 2.80 | 2.52 | 483 | 9.2 | 2.05 | 2.05 | 353 | 5.3 | 2.98 | 2.65 | 427 | 7.4 | 2.15 | 2.15 | 309 | 4.2 |
| | 3 | 3.12 | 2.81 | 538 | 11.2 | 2.28 | 2.28 | 393 | 6.4 | 3.32 | 2.95 | 475 | 9.0 | 2.40 | 2.40 | 344 | 5.0 |
| | 4 (M) | 3.64 | 3.28 | 626 | 14.8 | 2.66 | 2.66 | 457 | 8.3 | 3.86 | 3.44 | 554 | 11.8 | 2.79 | 2.79 | 400 | 6.6 |
| | 5 | 4.23 | 3.81 | 728 | 19.6 | 3.09 | 3.09 | 531 | 11.0 | 4.49 | 4.00 | 644 | 15.6 | 3.24 | 3.24 | 465 | 8.6 |
| | 6 (H) | 4.62 | 4.16 | 795 | 23.1 | 3.37 | 3.37 | 579 | 12.8 | 4.91 | 4.37 | 703 | 18.4 | 3.54 | 3.54 | 507 | 10.1 |

**3D122020**

# 4 Capacity tables

## 4 - 1 Cooling Capacity Tables

**FWE-DAFN5V3(L-R-S-T)**

4

| COOLING 4 PIPE @ 0 ESP | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Air Temperature | | DB:26°C - WB:18.5°C - RH %49 | | | | | | | | | | | | | | | |
| Water Temperature (Entering °C - Leaving °C) | | ΔT=5 | | | | | | | | ΔT=6 | | | | | | | |
| | | 7-12 | | | | 10-15 | | | | 7-13 | | | | 10-16 | | | |
| Model / Fan Speed | | Pc | Sc | Wf | Dp | Pc | Sc | Wf | Dp | Pc | Sc | Wf | Dp | Pc | Sc | Wf | Dp |
| | | kW | kW | l/h | kPa | kW | kW | l/h | kPa | kW | kW | l/h | kPa | kW | kW | l/h | kPa |
| FWE03DF | 1 (L) | 1.12 | 0.96 | 192 | 5.2 | 0.79 | 0.79 | 136 | 3.1 | 0.95 | 0.90 | 137 | 3.1 | 0.70 | 0.70 | 101 | 2.0 |
| | 2 | 1.29 | 1.11 | 222 | 6.6 | 0.92 | 0.92 | 158 | 3.8 | 1.10 | 1.04 | 158 | 3.9 | 0.82 | 0.82 | 117 | 2.5 |
| | 3 (M) | 1.47 | 1.26 | 253 | 8.2 | 1.04 | 1.04 | 180 | 4.7 | 1.25 | 1.18 | 180 | 4.7 | 0.93 | 0.93 | 133 | 3.0 |
| | 4 | 1.62 | 1.39 | 278 | 9.6 | 1.15 | 1.15 | 198 | 5.5 | 1.38 | 1.30 | 198 | 5.5 | 1.02 | 1.02 | 147 | 3.4 |
| | 5 (H) | 1.78 | 1.53 | 306 | 11.3 | 1.27 | 1.27 | 218 | 6.4 | 1.52 | 1.43 | 218 | 6.4 | 1.13 | 1.13 | 162 | 4.0 |
| FWE04DF | 1 | 1.11 | 0.95 | 191 | 3.3 | 0.79 | 0.79 | 136 | 1.8 | 0.95 | 0.89 | 136 | 1.8 | 0.70 | 0.70 | 100 | 1.1 |
| | 2 (L) | 1.28 | 1.10 | 221 | 4.2 | 0.91 | 0.91 | 157 | 2.3 | 1.10 | 1.03 | 158 | 2.3 | 0.81 | 0.81 | 117 | 1.4 |
| | 3 (M) | 1.50 | 1.29 | 258 | 5.6 | 1.07 | 1.07 | 184 | 3.0 | 1.28 | 1.21 | 184 | 3.0 | 0.95 | 0.95 | 136 | 1.8 |
| | 4 | 1.71 | 1.47 | 295 | 7.2 | 1.22 | 1.22 | 210 | 3.9 | 1.47 | 1.38 | 210 | 3.9 | 1.09 | 1.09 | 156 | 2.3 |
| | 5 (H) | 1.89 | 1.62 | 325 | 8.6 | 1.34 | 1.34 | 231 | 4.6 | 1.61 | 1.52 | 231 | 4.6 | 1.20 | 1.20 | 172 | 2.7 |
| FWE05DF | 1 | 1.21 | 1.04 | 209 | 2.9 | 0.86 | 0.86 | 149 | 1.3 | 1.04 | 0.98 | 149 | 1.3 | 0.77 | 0.77 | 110 | 0.6 |
| | 2 (L) | 1.50 | 1.29 | 259 | 4.6 | 1.07 | 1.07 | 183 | 2.1 | 1.29 | 1.21 | 184 | 2.2 | 0.95 | 0.95 | 136 | 1.1 |
| | 3 (M) | 1.83 | 1.57 | 315 | 7.0 | 1.30 | 1.30 | 224 | 3.3 | 1.57 | 1.47 | 225 | 3.3 | 1.16 | 1.16 | 166 | 1.7 |
| | 4 | 2.20 | 1.89 | 379 | 10.3 | 1.57 | 1.57 | 270 | 5.0 | 1.88 | 1.77 | 270 | 5.0 | 1.40 | 1.40 | 200 | 2.6 |
| | 5 (H) | 2.36 | 2.03 | 407 | 12.0 | 1.68 | 1.68 | 290 | 5.8 | 2.02 | 1.90 | 290 | 5.9 | 1.50 | 1.50 | 215 | 3.0 |
| FWE06DF | 1 | 1.13 | 0.97 | 195 | 0.7 | 0.80 | 0.80 | 138 | 0.2 | 0.97 | 0.91 | 139 | 0.26 | 0.71 | 0.71 | 102 | 0.1 |
| | 2 | 1.43 | 1.23 | 245 | 1.4 | 1.01 | 1.01 | 174 | 0.5 | 1.22 | 1.14 | 175 | 0.55 | 0.90 | 0.90 | 129 | 0.2 |
| | 3 (L) | 1.84 | 1.58 | 316 | 2.6 | 1.30 | 1.30 | 225 | 1.1 | 1.57 | 1.48 | 225 | 1.1 | 1.16 | 1.16 | 267 | 0.4 |
| | 4 (M) | 2.20 | 1.89 | 378 | 4.0 | 1.56 | 1.56 | 269 | 1.7 | 1.88 | 1.77 | 270 | 1.7 | 1.39 | 1.39 | 200 | 0.8 |
| | 5 | 2.50 | 2.15 | 429 | 5.3 | 1.78 | 1.78 | 306 | 2.4 | 2.14 | 2.01 | 306 | 2.4 | 1.58 | 1.58 | 227 | 1.1 |
| | 6 (H) | 2.86 | 2.46 | 492 | 7.3 | 2.03 | 2.03 | 350 | 3.3 | 2.45 | 2.30 | 351 | 3.3 | 1.81 | 1.81 | 259 | 1.6 |
| FWE07DF | 1 | 1.89 | 1.62 | 325 | 3.2 | 1.34 | 1.34 | 231 | 1.2 | 1.62 | 1.52 | 232 | 1.2 | 1.20 | 1.20 | 171 | 0.4 |
| | 2 (L) | 2.21 | 1.90 | 381 | 4.8 | 1.57 | 1.57 | 271 | 1.9 | 1.89 | 1.78 | 272 | 1.9 | 1.40 | 1.40 | 201 | 0.7 |
| | 3 | 2.37 | 2.03 | 407 | 5.6 | 1.68 | 1.68 | 290 | 2.3 | 2.03 | 1.90 | 290 | 2.3 | 1.50 | 1.50 | 215 | 0.9 |
| | 4 (M) | 2.55 | 2.20 | 439 | 6.8 | 1.82 | 1.82 | 313 | 2.9 | 2.19 | 2.05 | 313 | 2.9 | 1.62 | 1.62 | 232 | 1.2 |
| | 5 | 2.94 | 2.53 | 506 | 9.5 | 2.09 | 2.09 | 360 | 4.1 | 2.52 | 2.37 | 361 | 4.2 | 1.87 | 1.87 | 267 | 1.8 |
| | 6 (H) | 3.14 | 2.70 | 540 | 11.1 | 2.23 | 2.23 | 384 | 4.9 | 2.69 | 2.53 | 385 | 4.9 | 1.99 | 1.99 | 285 | 2.2 |
| FWE08DF | 1 | 2.18 | 1.87 | 375 | 7.6 | 1.55 | 1.55 | 267 | 4.7 | 1.87 | 1.75 | 268 | 4.7 | 1.39 | 1.39 | 199 | 3.2 |
| | 2 (L) | 2.54 | 2.19 | 438 | 9.5 | 1.81 | 1.81 | 312 | 5.8 | 2.18 | 2.05 | 312 | 5.8 | 1.62 | 1.62 | 232 | 3.9 |
| | 3 | 2.72 | 2.34 | 467 | 10.5 | 1.94 | 1.94 | 333 | 6.4 | 2.33 | 2.19 | 334 | 6.4 | 1.73 | 1.73 | 247 | 4.2 |
| | 4 | 2.93 | 2.52 | 438 | 11.8 | 2.09 | 2.09 | 359 | 7.1 | 2.51 | 2.36 | 359 | 7.1 | 1.86 | 1.86 | 267 | 4.7 |
| | 5 (M) | 3.36 | 2.89 | 578 | 14.6 | 2.39 | 2.39 | 412 | 8.7 | 2.88 | 2.70 | 412 | 8.7 | 2.13 | 2.13 | 306 | 5.7 |
| | 6 (H) | 3.60 | 3.09 | 619 | 16.3 | 2.56 | 2.56 | 441 | 9.6 | 3.08 | 2.89 | 441 | 9.6 | 2.28 | 2.28 | 327 | 6.2 |
| FWE10DF | 1 | 2.36 | 2.03 | 406 | 6.7 | 1.68 | 1.68 | 290 | 3.7 | 2.02 | 1.90 | 290 | 3.77 | 1.50 | 1.50 | 215 | 2.2 |
| | 2 (L) | 2.85 | 2.45 | 490 | 9.5 | 2.03 | 2.03 | 350 | 5.2 | 2.44 | 2.29 | 350 | 5.22 | 1.81 | 1.81 | 260 | 3.1 |
| | 3 | 3.23 | 2.78 | 556 | 11.9 | 2.30 | 2.30 | 396 | 6.5 | 2.77 | 2.60 | 396 | 6.5 | 2.05 | 2.05 | 294 | 3.8 |
| | 4 (M) | 3.84 | 3.31 | 661 | 16.4 | 2.74 | 2.74 | 471 | 8.8 | 3.29 | 3.09 | 472 | 8.8 | 2.44 | 2.44 | 350 | 5.2 |
| | 5 | 4.40 | 3.78 | 756 | 21.0 | 3.13 | 3.13 | 539 | 11.2 | 3.76 | 3.54 | 539 | 11.3 | 2.79 | 2.79 | 400 | 6.6 |
| | 6 (H) | 4.79 | 4.12 | 823 | 14.7 | 3.40 | 3.40 | 586 | 13.1 | 4.09 | 3.85 | 587 | 13.2 | 3.03 | 3.03 | 434 | 7.6 |
| FWE11DF | 1 | 2.58 | 2.22 | 444 | 7.9 | 1.84 | 1.84 | 317 | 4.4 | 2.21 | 2.08 | 317 | 4.4 | 1.64 | 1.64 | 235 | 2.6 |
| | 2 (L) | 3.11 | 2.68 | 536 | 11.1 | 2.22 | 2.22 | 382 | 6.1 | 2.67 | 2.51 | 382 | 6.1 | 1.98 | 1.98 | 284 | 3.6 |
| | 3 | 3.47 | 2.98 | 597 | 13.6 | 2.47 | 2.47 | 426 | 7.3 | 2.97 | 2.79 | 426 | 7.3 | 2.21 | 2.21 | 316 | 4.3 |
| | 4 (M) | 4.04 | 3.48 | 695 | 18.0 | 2.88 | 2.88 | 496 | 9.7 | 3.46 | 3.25 | 496 | 9.7 | 2.57 | 2.57 | 368 | 5.7 |
| | 5 | 4.70 | 4.04 | 809 | 23.9 | 3.35 | 3.35 | 576 | 12.7 | 4.03 | 3.78 | 577 | 12.8 | 2.98 | 2.98 | 428 | 7.4 |
| | 6 (H) | 5.13 | 4.41 | 883 | 28.1 | 3.65 | 3.65 | 628 | 14.9 | 4.39 | 4.13 | 630 | 15.0 | 3.25 | 3.25 | 466 | 8.6 |

**3D122018**

# 4 Capacity tables

## 4 - 1 Cooling Capacity Tables

**FWE-DAFN5V3(L-R-S-T)**



| COOLING 4 PIPE @ 0 ESP | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Air Temperature | | DB:27°C - WB:19°C - RH %47 | | | | | | | | | | | | | | | |
| Water Temperature (Entering °C - Leaving °C) | | ΔT=5 | | | | | | | | ΔT=6 | | | | | | | |
| | | 7-12 | | | | 10-15 | | | | 7-13 | | | | 10-16 | | | |
| Model / Fan Speed | | Pc | Sc | Wf | Dp | Pc | Sc | Wf | Dp | Pc | Sc | Wf | Dp | Pc | Sc | Wf | Dp |
| | | kW | kW | l/h | kPa | kW | kW | l/h | kPa | kW | kW | l/h | kPa | kW | kW | l/h | kPa |
| FWE03DF | 1 (L) | 1.22 | 1.00 | 210 | 6.0 | 0.84 | 0.81 | 145 | 3,4 | 1.07 | 0.95 | 153 | 3.7 | 0.77 | 0.77 | 111 | 2.2 |
| | 2 | 1.41 | 1.15 | 243 | 7.6 | 0.97 | 0.94 | 168 | 4,2 | 1.23 | 1.10 | 177 | 4.6 | 0.89 | 0.89 | 128 | 2.8 |
| | 3 (M) | 1.60 | 1.31 | 275 | 9.4 | 1.11 | 1.06 | 191 | 5,2 | 1.40 | 1.25 | 202 | 5.6 | 1.01 | 1.01 | 145 | 3.4 |
| | 4 | 1.76 | 1.44 | 303 | 11.1 | 1.22 | 1.17 | 211 | 6,1 | 1.54 | 1.37 | 222 | 6.6 | 1.11 | 1.11 | 160 | 3.9 |
| | 5 (H) | 1.94 | 1.59 | 334 | 13.1 | 1.34 | 1.29 | 232 | 7,1 | 1.70 | 1.51 | 244 | 7.7 | 1.23 | 1.23 | 176 | 4.5 |
| FWE04DF | 1 | 1.21 | 0.99 | 209 | 3.8 | 0.84 | 0.80 | 145 | 2.0 | 1.06 | 0.94 | 152 | 2.2 | 0.76 | 0.76 | 110 | 1.2 |
| | 2 (L) | 1.40 | 1.15 | 241 | 4.9 | 0.97 | 0.93 | 168 | 2.6 | 1.23 | 1.09 | 177 | 2.8 | 0.88 | 0.88 | 127 | 1.6 |
| | 3 (M) | 1.63 | 1.34 | 282 | 6.6 | 1.13 | 1.09 | 196 | 3.4 | 1.43 | 1.27 | 206 | 3.7 | 1.03 | 1.03 | 149 | 2.1 |
| | 4 | 1.86 | 1.53 | 321 | 8.4 | 1.29 | 1.24 | 223 | 4.3 | 1.64 | 1.46 | 235 | 4.7 | 1.18 | 1.18 | 170 | 2.6 |
| | 5 (H) | 2.05 | 1.68 | 354 | 10.0 | 1.43 | 1.37 | 246 | 5.1 | 1.80 | 1.60 | 259 | 5.6 | 1.30 | 1.30 | 187 | 3.1 |
| FWE05DF | 1 | 1.32 | 1.08 | 228 | 3.5 | 0.92 | 0.88 | 158 | 1,5 | 1.16 | 1.03 | 167 | 1.7 | 0.84 | 0.84 | 120 | 0.8 |
| | 2 (L) | 1.64 | 1.34 | 282 | 5.5 | 1.09 | 1.09 | 196 | 2,5 | 1.44 | 1.28 | 206 | 2.8 | 1.03 | 1.03 | 149 | 1.3 |
| | 3 (M) | 1.99 | 1.63 | 343 | 8.4 | 1.33 | 1.33 | 239 | 3,8 | 1.75 | 1.56 | 251 | 4.3 | 1.26 | 1.26 | 181 | 2.1 |
| | 4 | 2.40 | 1.96 | 413 | 12.3 | 1.60 | 1.60 | 287 | 5,7 | 2.1 | 1.87 | 302 | 6.4 | 1.52 | 1.52 | 218 | 3.1 |
| | 5 (H) | 2.57 | 2.11 | 443 | 14.3 | 1.72 | 1.72 | 308 | 6,6 | 2.26 | 2.01 | 324 | 7.4 | 1.63 | 1.63 | 234 | 3.7 |
| FWE06DF | 1 | 1.23 | 1.01 | 213 | 0.9 | 0.85 | 0.82 | 147 | 0.3 | 1.08 | 0.96 | 156 | 0.3 | 0.77 | 0.77 | 112 | 0.1 |
| | 2 | 1.55 | 1.27 | 268 | 1.7 | 1.07 | 1.03 | 185 | 0.6 | 1.36 | 1.21 | 196 | 0.7 | 0.98 | 0.98 | 141 | 0.2 |
| | 3 (L) | 2.00 | 1.64 | 343 | 3.2 | 1.39 | 1.33 | 239 | 1.3 | 1.75 | 1.56 | 252 | 1.5 | 1.26 | 1.26 | 182 | 0.6 |
| | 4 (M) | 2.39 | 1.96 | 412 | 4.9 | 1.66 | 1.59 | 286 | 2.0 | 2.10 | 1.87 | 302 | 2.3 | 1.51 | 1.51 | 218 | 1.0 |
| | 5 | 2.72 | 2.23 | 468 | 6.5 | 1.89 | 1.81 | 325 | 2.8 | 2.38 | 2.12 | 342 | 3.1 | 1.72 | 1.72 | 247 | 1.4 |
| | 6 (H) | 3.11 | 2.55 | 536 | 8.8 | 2.16 | 2.07 | 372 | 3.8 | 2.73 | 2.43 | 392 | 4.3 | 1.97 | 1.97 | 283 | 2.0 |
| FWE07DF | 1 | 2.06 | 1.69 | 354 | 4.0 | 1.43 | 1.37 | 246 | 1.4 | 1.80 | 1.61 | 259 | 1.7 | 1.30 | 1.30 | 187 | 0.6 |
| | 2 (L) | 2.41 | 1.97 | 415 | 5.9 | 1.67 | 1.61 | 288 | 2.3 | 2.11 | 1.88 | 304 | 2.6 | 1.53 | 1.53 | 219 | 1.0 |
| | 3 | 2.58 | 2.11 | 444 | 6.9 | 1.79 | 1.72 | 308 | 2.7 | 2.26 | 2.01 | 325 | 3.1 | 1.63 | 1.63 | 234 | 1.2 |
| | 4 (M) | 2.78 | 2.28 | 479 | 8.3 | 1.93 | 1.85 | 333 | 3.4 | 2.44 | 2.17 | 350 | 3.8 | 1.76 | 1.76 | 253 | 1.6 |
| | 5 | 3.20 | 2.62 | 551 | 11.5 | 2.22 | 2.13 | 383 | 4.8 | 2.81 | 2.50 | 403 | 5.5 | 2.03 | 2.03 | 291 | 2.3 |
| | 6 (H) | 3.42 | 2.80 | 589 | 13.5 | 2.37 | 2.28 | 409 | 5.7 | 3.00 | 2.67 | 431 | 6.4 | 2.16 | 2.16 | 311 | 2.8 |
| FWE08DF | 1 | 2.37 | 1.94 | 409 | 8.6 | 1.65 | 1.58 | 284 | 5.1 | 2.08 | 1.85 | 299 | 5.5 | 1.51 | 1.51 | 216 | 3.5 |
| | 2 (L) | 2.77 | 2.27 | 477 | 10.8 | 1.92 | 1.85 | 332 | 6.3 | 2.43 | 2.16 | 349 | 6.8 | 1.76 | 1.76 | 252 | 4.3 |
| | 3 | 2.96 | 2.42 | 509 | 12.0 | 2.06 | 1.97 | 354 | 7.0 | 2.60 | 2.31 | 373 | 7.5 | 1.88 | 1.88 | 270 | 4.7 |
| | 4 | 3.19 | 2.61 | 549 | 13.4 | 2.22 | 2.13 | 382 | 7.8 | 2.80 | 2.49 | 402 | 8.4 | 2.02 | 2.02 | 290 | 5.3 |
| | 5 (M) | 3.66 | 3.00 | 630 | 16.7 | 2.54 | 2.44 | 438 | 9.5 | 3.21 | 2.86 | 461 | 10.3 | 2.32 | 2.32 | 333 | 6.4 |
| | 6 (H) | 3.92 | 3.21 | 674 | 18.6 | 2.72 | 2.61 | 468 | 10.5 | 3.44 | 3.06 | 493 | 11.4 | 2.48 | 2.48 | 356 | 7.0 |
| FWE10DF | 1 | 2,56 | 2,1 | 442 | 7.8 | 1.79 | 1.71 | 308 | 4.1 | 2.25 | 2.00 | 324 | 4.55 | 1.63 | 1.63 | 234 | 2.6 |
| | 2 (L) | 3,1 | 2,54 | 534 | 11.0 | 2.16 | 2.07 | 372 | 5.8 | 2.72 | 2.42 | 391 | 6.33 | 1.97 | 1.97 | 283 | 3.6 |
| | 3 | 3,51 | 2,88 | 605 | 13.9 | 2.44 | 2.35 | 421 | 7.2 | 3.09 | 2.75 | 443 | 7.91 | 2.23 | 2.23 | 320 | 4.4 |
| | 4 (M) | 4,18 | 3,43 | 720 | 19.2 | 2.91 | 2.79 | 501 | 9.8 | 3.67 | 3.27 | 527 | 10.8 | 2.65 | 2.65 | 381 | 6.0 |
| | 5 | 4,79 | 3,92 | 824 | 24.7 | 3.32 | 3.19 | 573 | 12.5 | 4.20 | 3.74 | 603 | 13.8 | 3.03 | 3.03 | 435 | 7.6 |
| | 6 (H) | 5,21 | 4,27 | 897 | 29.0 | 3.47 | 3.47 | 623 | 14.6 | 4.57 | 4.07 | 656 | 16.1 | 3.30 | 3.30 | 473 | 8.9 |
| FWE11DF | 1 | 2,81 | 2,3 | 483 | 9.2 | 1.95 | 1.88 | 337 | 4.8 | 2.46 | 2.19 | 354 | 5.3 | 1.78 | 1.78 | 256 | 3.0 |
| | 2 (L) | 3,39 | 2,78 | 583 | 13.0 | 2.36 | 2.26 | 406 | 6.7 | 2.98 | 2.65 | 427 | 7.4 | 2.15 | 2.15 | 309 | 4.2 |
| | 3 | 3,77 | 3,09 | 650 | 15.8 | 2.63 | 2.52 | 452 | 8.2 | 3.32 | 2.95 | 476 | 9.0 | 2.40 | 2.40 | 344 | 5.0 |
| | 4 (M) | 4,4 | 3,61 | 757 | 21.1 | 3.06 | 2.94 | 527 | 10.8 | 3.86 | 3.44 | 554 | 11.8 | 2.79 | 2.79 | 401 | 6.6 |
| | 5 | 5,12 | 4,2 | 881 | 28.0 | 3.56 | 3.41 | 612 | 14.2 | 4.49 | 4.00 | 645 | 15.6 | 3.24 | 3.24 | 466 | 8.6 |
| | 6 (H) | 5,59 | 4,58 | 962 | 33.0 | 3.88 | 3.72 | 668 | 16.7 | 4.91 | 4.37 | 704 | 18.4 | 3.54 | 3.54 | 507 | 10.1 |

**3D122016**

# 4 Capacity tables

## 4 - 2 Heating Capacity Tables

**FWE-DAFN5V3(L-R-S-T)**

4

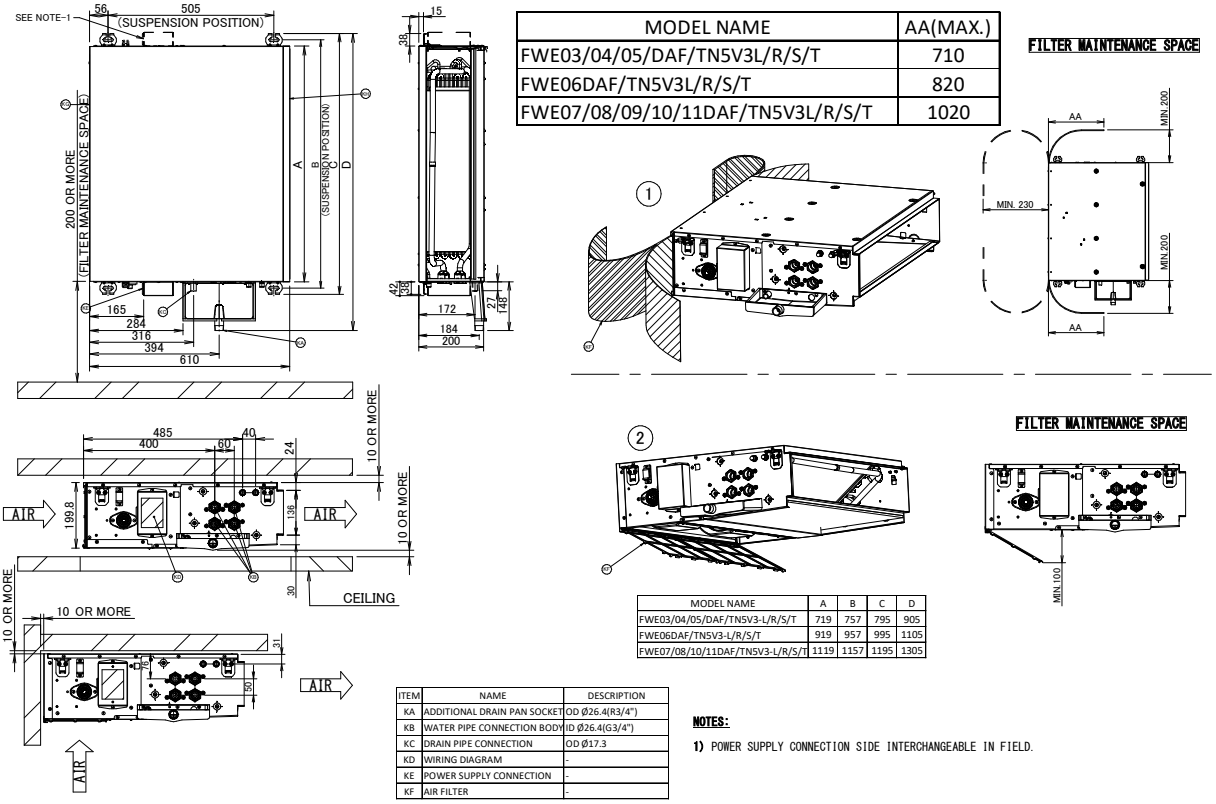
| HEATING 4 PIPE @ 0 ESP | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Air Temperature | | DB:20°C | | | | | | DB:22°C | | | | | |
| Water Temperature (Entering °C - Leaving °C) | | ΔT=10 | | | | | | ΔT=10 | | | | | |
| | | 65-55 | | | 70-60 | | | 65-55 | | | 70-60 | | |
| Model / Fan Speed | | Ph | Wf | Dp | Ph | Wf | Dp | Ph | Wf | Dp | Ph | Wf | Dp |
| | | kW | l/h | kPa | kW | l/h | kPa | kW | l/h | kPa | kW | l/h | kPa |
| FWE03DF | 1 (L) | 1.40 | 126 | 11.7 | 1.67 | 144 | 14.9 | 1.38 | 118 | 10.5 | 1.60 | 137 | 13.7 |
| | 2 | 1.63 | 140 | 14.3 | 1.86 | 160 | 18.2 | 1.53 | 132 | 12.7 | 1.78 | 153 | 16.7 |
| | 3 (M) | 1.80 | 155 | 17.2 | 2.06 | 177 | 21.8 | 1.69 | 146 | 15.3 | 1.97 | 169 | 20.1 |
| | 4 | 1.95 | 168 | 19.8 | 2.22 | 191 | 25.2 | 1.83 | 157 | 17.6 | 2.12 | 183 | 23.2 |
| | 5 (H) | 2.11 | 181 | 22.8 | 2.40 | 206 | 29.1 | 1.98 | 170 | 20.3 | 2.30 | 197 | 26.8 |
| FWE04DF | 1 | 2.11 | 181 | 6.9 | 2.40 | 207 | 8.4 | 1.98 | 170 | 6.2 | 2.30 | 197 | 7.8 |
| | 2 (L) | 2.22 | 191 | 7.4 | 2.53 | 218 | 9.1 | 2.09 | 179 | 6.7 | 2.42 | 208 | 8.5 |
| | 3 (M) | 2.36 | 203 | 8.2 | 2.69 | 231 | 10.1 | 2.21 | 190 | 7.4 | 2.57 | 221 | 9.4 |
| | 4 | 2.50 | 215 | 8.9 | 2.85 | 245 | 11.0 | 2.34 | 201 | 8.1 | 2.72 | 234 | 10.2 |
| | 5 (H) | 2.61 | 224 | 9.6 | 2.97 | 256 | 11.8 | 2.43 | 210 | 8.7 | 2.84 | 244 | 11.0 |
| FWE05DF | 1 | 2.16 | 186 | 7.1 | 2.46 | 212 | 8.7 | 2.03 | 174 | 6.5 | 2.35 | 202 | 8.1 |
| | 2 (L) | 2.35 | 202 | 8.1 | 2.68 | 231 | 10.0 | 2.21 | 190 | 7.4 | 2.56 | 220 | 9.3 |
| | 3 (M) | 2.57 | 221 | 9.4 | 2.93 | 252 | 11.5 | 2.41 | 207 | 8.5 | 2.80 | 241 | 10.7 |
| | 4 | 2.82 | 243 | 10.8 | 3.22 | 276 | 13.4 | 2.65 | 228 | 9.8 | 3.07 | 264 | 12.5 |
| | 5 (H) | 2.93 | 252 | 11.5 | 3.34 | 287 | 14.3 | 2.75 | 237 | 10.4 | 3.20 | 275 | 13.3 |
| FWE06DF | 1 | 1.90 | 163 | 3.0 | 2.17 | 186 | 3.9 | 1.78 | 153 | 2.6 | 2.07 | 178 | 3.5 |
| | 2 | 2.23 | 191 | 4.1 | 2.54 | 218 | 5.3 | 2.09 | 180 | 3.6 | 2.43 | 208 | 4.9 |
| | 3 (L) | 2.68 | 231 | 6.0 | 3.06 | 263 | 7.8 | 2.52 | 216 | 5.2 | 2.92 | 251 | 7.1 |
| | 4 (M) | 3.08 | 265 | 7.9 | 3.52 | 302 | 10.3 | 2.89 | 249 | 6.9 | 3.36 | 289 | 9.4 |
| | 5 | 3.41 | 293 | 9.7 | 3.89 | 334 | 12.6 | 3.20 | 275 | 8.5 | 3.72 | 320 | 11.5 |
| | 6 (H) | 3.83 | 329 | 12.2 | 4.37 | 375 | 15.9 | 3.59 | 309 | 10.7 | 4.17 | 359 | 14.5 |
| FWE07DF | 1 | 3.22 | 277 | 5.4 | 3.67 | 315 | 6.7 | 3.02 | 260 | 4.9 | 3.51 | 301 | 6.2 |
| | 2 (L) | 3.56 | 306 | 6.4 | 4.06 | 349 | 7.8 | 3.34 | 287 | 5.8 | 3.88 | 334 | 7.3 |
| | 3 | 3.73 | 321 | 6.8 | 4.25 | 365 | 8.4 | 3.50 | 301 | 6.2 | 4.06 | 349 | 7.8 |
| | 4 (M) | 3.93 | 338 | 7.4 | 4.48 | 385 | 9.1 | 3.69 | 317 | 6.7 | 4.28 | 368 | 8.5 |
| | 5 | 4.34 | 373 | 8.7 | 4.95 | 425 | 10.7 | 4.07 | 350 | 7.8 | 4.73 | 406 | 9.9 |
| | 6 (H) | 4.57 | 393 | 9.4 | 5.21 | 448 | 11.6 | 4.29 | 369 | 8.5 | 4.98 | 428 | 10.8 |
| FWE08DF | 1 | 3.22 | 277 | 5.4 | 3.67 | 315 | 6.7 | 3.02 | 260 | 4.9 | 3.51 | 301 | 6.2 |
| | 2 (L) | 3.56 | 306 | 6.4 | 4.06 | 349 | 7.8 | 3.34 | 287 | 5.8 | 3.88 | 334 | 7.3 |
| | 3 | 3.73 | 321 | 6.8 | 4.25 | 365 | 8.4 | 3.50 | 301 | 6.2 | 4.06 | 349 | 7.8 |
| | 4 | 3.93 | 338 | 7.4 | 4.48 | 385 | 9.1 | 3.69 | 317 | 6.7 | 4.28 | 368 | 8.5 |
| | 5 (M) | 4.34 | 373 | 8.7 | 4.95 | 425 | 10.7 | 4.07 | 350 | 7.8 | 4.73 | 406 | 9.9 |
| | 6 (H) | 4.57 | 393 | 9.4 | 5.21 | 448 | 11.6 | 4.29 | 369 | 8.5 | 4.98 | 428 | 10.8 |
| FWE10DF | 1 | 3.38 | 291 | 5.9 | 3.85 | 331 | 7.2 | 3.17 | 273 | 5.3 | 3.68 | 317 | 6.7 |
| | 2 (L) | 3.87 | 333 | 7.2 | 4.41 | 379 | 8.9 | 3.63 | 312 | 6.6 | 4.22 | 362 | 8.3 |
| | 3 | 4.25 | 365 | 8.4 | 4.85 | 417 | 10.4 | 3.99 | 343 | 7.6 | 4.63 | 398 | 9.6 |
| | 4 (M) | 4.87 | 418 | 10.4 | 5.55 | 477 | 12.9 | 4.57 | 393 | 9.4 | 5.30 | 456 | 12.0 |
| | 5 | 5.43 | 466 | 12.4 | 6.18 | 532 | 15.4 | 5.09 | 438 | 11.2 | 5.91 | 508 | 14.3 |
| | 6 (H) | 5.83 | 501 | 14.0 | 6.64 | 571 | 17.4 | 5.47 | 470 | 12.6 | 6.35 | 546 | 16.1 |
| FWE11DF | 1 | 3.60 | 309 | 6.5 | 4.10 | 353 | 7.9 | 3.38 | 290 | 5.9 | 7.4 | 337 | 7.4 |
| | 2 (L) | 4.13 | 355 | 8.0 | 4.71 | 405 | 9.9 | 3.88 | 333 | 7.3 | 9.2 | 387 | 9.2 |
| | 3 | 4.49 | 386 | 9.2 | 5.11 | 440 | 11.3 | 4.21 | 362 | 8.3 | 10.5 | 420 | 10.5 |
| | 4 (M) | 5.06 | 435 | 11.1 | 5.77 | 496 | 13.8 | 4.75 | 409 | 10.0 | 12.8 | 474 | 12.8 |
| | 5 | 5.73 | 493 | 13.6 | 6.53 | 561 | 16.9 | 5.38 | 462 | 12.3 | 15.7 | 537 | 15.7 |
| | 6 (H) | 6.17 | 531 | 15.4 | 7.04 | 605 | 19.1 | 5.79 | 498 | 13.8 | 17.7 | 578 | 17.7 |

**3D122207**

# 5 Dimensional drawings

## 5 - 1 Dimensional Drawings

FWE-DAFN5V3(L-R-S-T)
FWE-DATN5V3(L-R-S-T)




| MODEL NAME | AA(MAX.) |
|---|---|
| FWE03/04/05/DAF/TN5V3L/R/S/T | 710 |
| FWE06DAF/TN5V3L/R/S/T | 820 |
| FWE07/08/09/10/11DAF/TN5V3L/R/S/T | 1020 |

| MODEL NAME | A | B | C | D |
|---|---|---|---|---|
| FWE03/04/05/DAF/TN5V3-L/R/S/T | 719 | 757 | 795 | 905 |
| FWE06DAF/TN5V3-L/R/S/T | 919 | 957 | 995 | 1105 |
| FWE07/08/10/11DAF/TN5V3-L/R/S/T | 1119 | 1157 | 1195 | 1305 |

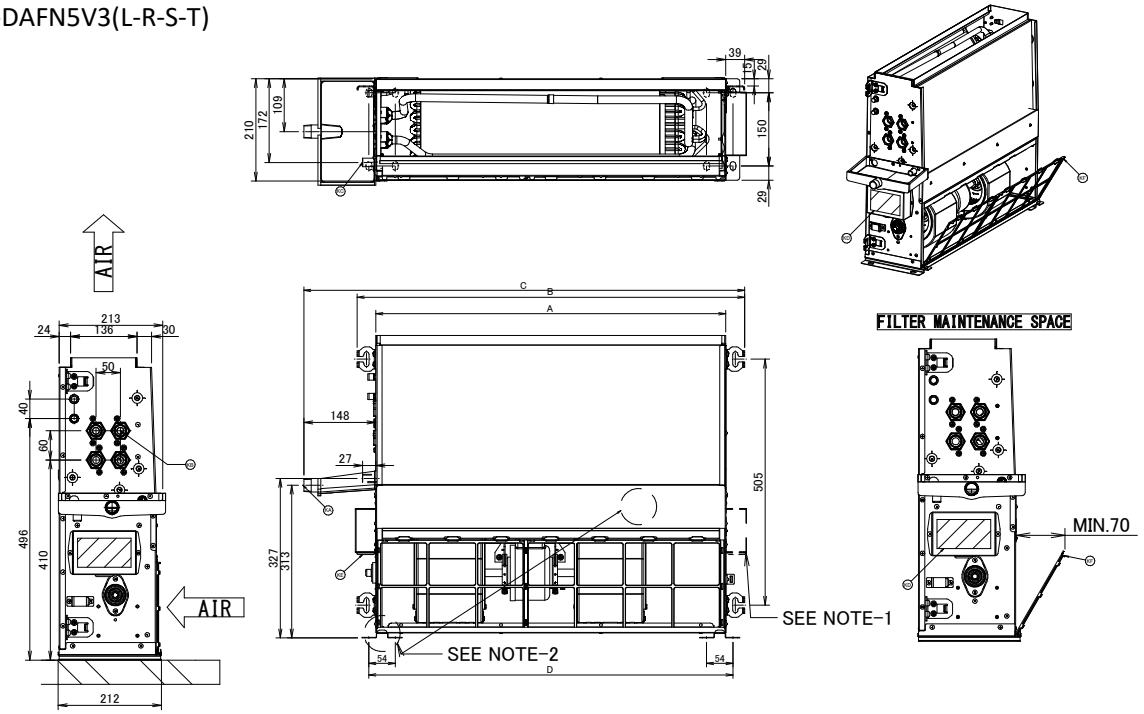
| ITEM | NAME | DESCRIPTION |
|---|---|---|
| KA | ADDITIONAL DRAIN PAN SOCKET | OD Ø26.4(R3/4") |
| KB | WATER PIPE CONNECTION BODY | ID Ø26.4(G3/4") |
| KC | DRAIN PIPE CONNECTION | OD Ø17.3 |
| KD | WIRING DIAGRAM | - |
| KE | POWER SUPPLY CONNECTION | - |
| KF | AIR FILTER | - |

**NOTES:**

1) POWER SUPPLY CONNECTION SIDE INTERCHANGEABLE IN FIELD.

1D125336

FWE-DAFN5V3(L-R-S-T)
FWE-DAFN5V3(L-R-S-T)




| MODEL NAME | A | B | C | D |
|---|---|---|---|---|
| FWE03/04/05/DAF/TN5V3-L/R/S/T | 719 | 795 | 905 | 747 |
| FWE06DAF/TN5V3-L/R/S/T | 919 | 995 | 1105 | 947 |
| FWE07/08/10/11DAF/TN5V3-L/R/S/T | 1119 | 1195 | 1305 | 1147 |

| ITEM | NAME | DESCRIPTION |
|---|---|---|
| KA | ADDITIONAL DRAIN PAN SOCKET | OD Ø26.4(R3/4") |
| KB | WATER PIPE CONNECTION BODY | ID Ø26.4(G3/4") |
| KC | DRAIN PIPE CONNECTION | OD Ø17.3 |
| KD | WIRING DIAGRAM | - |
| KE | POWER SUPPLY CONNECTION | - |
| KF | AIR FILTER | - |

**NOTES:**

1) POWER SUPPLY CONNECTION SIDE INTERCHANGEABLE IN FIELD.
2) OPTION KIT(ESFH01D5) SHALL BE MOUNTING FOR VERTICAL INSTALLATION .

1D125339

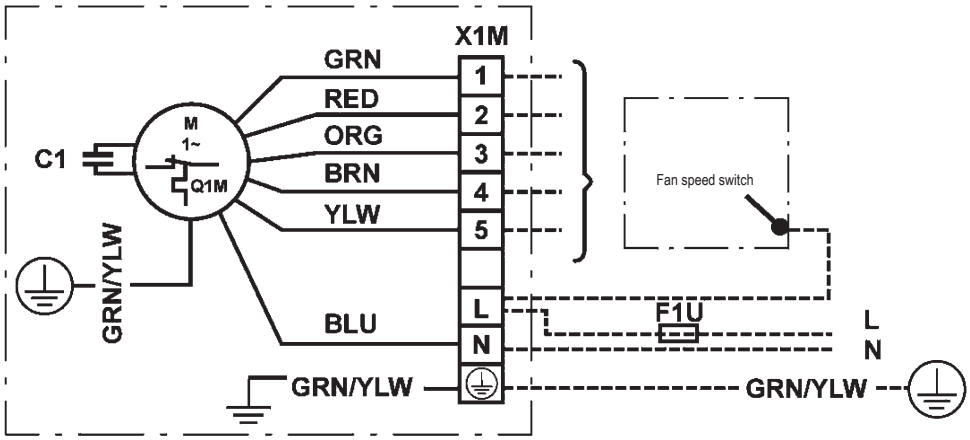
# 6 Wiring diagrams

## 6 - 1 Wiring Diagrams - Single Phase

6

**FWE03-05DAFN5V3(L-R-S-T)**
**FWE03-05DATN5V3(L-R-S-T)**

**Wiring diagram**




**NOTES**

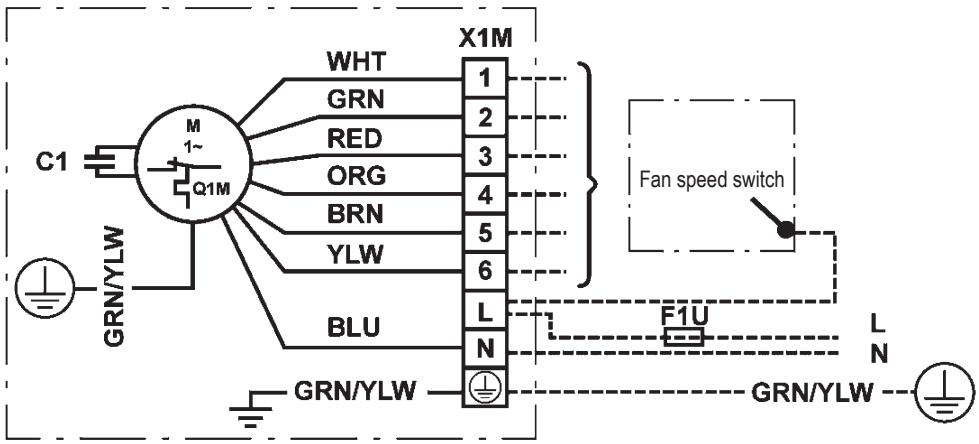
| | | | | | |
|---|---|---|---|---|---|
| – – – – | Field wiring | L | AC sytem supply | WHT | White |
| M | Fan motor | N | Neutral | RED | Red |
| F1U | Fuse | C1 | Capacitor | ORG | Orange |
| X1M | Terminal strip | ⏚ | Protector earth | BRN | Brown |
| 1 | Lowest speed | ⏚ | Earth | YLW | Yellow |
| 5 | Highest speed | Q1M | Self-operating thermal protector | BLU | Blue |
| | | | | GRN/YLW | Green / Yellow |

* For the power requirements, refer to the name plate.

**4D121422-1**

**FWE06-11DAFN5V3(L-R-S-T)**
**FWE06-11DATN5V3(L-R-S-T)**

**Wiring diagram**




**NOTES**

| | | | | | |
|---|---|---|---|---|---|
| – – – – | Field wiring | L | AC sytem supply | WHT | White |
| M | Fan motor | N | Neutral | GRN | Green |
| F1U | Fuse | C1 | Capacitor | RED | Red |
| X1M | Terminal strip | ⏚ | Protector earth | ORG | Orange |
| 1 | Lowest speed | ⏚ | Earth | BRN | Brown |
| 6 | Highest speed | Q1M | Self-operating thermal protector | YLW | Yellow |
| | | | | BLU | Blue |
| | | | | GRN/YLW | Green / Yellow |

* For the power requirements, refer to the name plate.

**4D118236-1A**

# 7 Sound data

## 7 - 1 Sound Power Spectrum

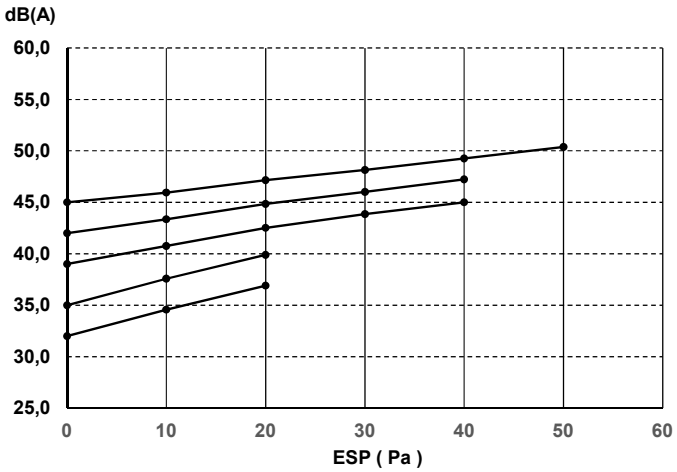
**FWE03DAFN5V3(L-R-S-T)**
**FWE03DATN5V3(L-R-S-T)**



### Sound Power overall ( dBA )

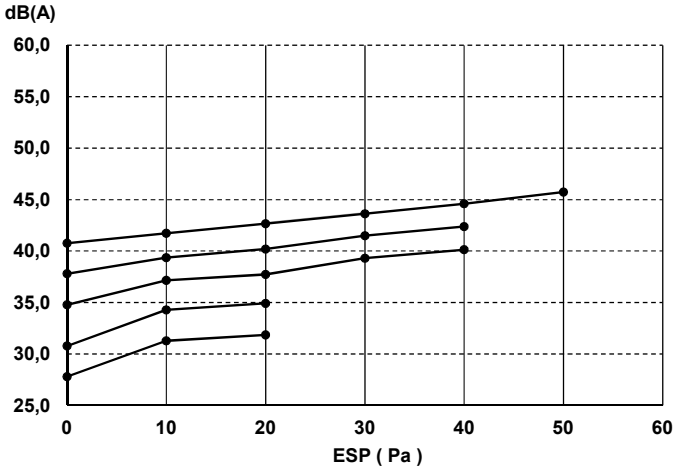
#### Whole casing

| ESP (Pa) | Fan speed 5 H | 4 | 3 M | 2 | 1 L |
|---|---|---|---|---|---|
| 0 | 45,0 | 42,0 | 39,0 | 35,0 | 32,0 |
| 10 | 46,0 | 43,4 | 40,8 | 37,6 | 34,6 |
| 20 | 47,2 | 44,8 | 42,5 | 39,9 | 36,9 |
| 30 | 48,1 | 46,0 | 43,9 | | |
| 40 | 49,3 | 47,2 | 45,0 | | |
| 50 | 50,4 | | | | |



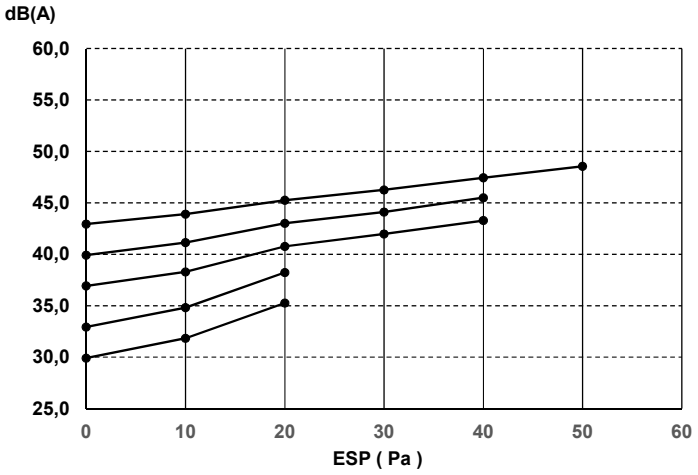

#### Discharge

| ESP (Pa) | Fan speed 5 H | 4 | 3 M | 2 | 1 L |
|---|---|---|---|---|---|
| 0 | 40,8 | 37,8 | 34,8 | 30,8 | 27,8 |
| 10 | 41,7 | 39,4 | 37,1 | 34,3 | 31,3 |
| 20 | 42,7 | 40,2 | 37,7 | 34,9 | 31,9 |
| 30 | 43,6 | 41,5 | 39,3 | | |
| 40 | 44,6 | 42,4 | 40,1 | | |
| 50 | 45,7 | | | | |




#### Inlet + casing

| ESP (Pa) | Fan speed 5 H | 4 | 3 M | 2 | 1 L |
|---|---|---|---|---|---|
| 0 | 42,9 | 39,9 | 36,9 | 32,9 | 29,9 |
| 10 | 43,9 | 41,1 | 38,3 | 34,8 | 31,8 |
| 20 | 45,3 | 43,0 | 40,8 | 38,2 | 35,3 |
| 30 | 46,3 | 44,1 | 42,0 | | |
| 40 | 47,4 | 45,5 | 43,3 | | |
| 50 | 48,6 | | | | |




**3D122198A**

# 7 Sound data

## 7 - 1 Sound Power Spectrum

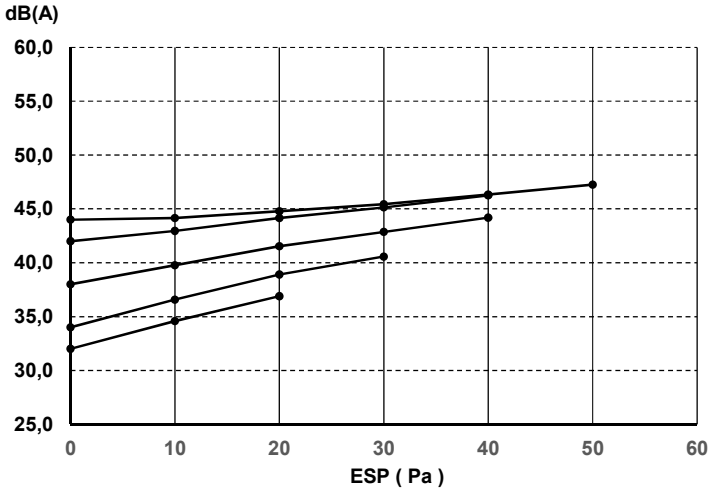
**FWE04DAFN5V3(L-R-S-T)**
**FWE04DATN5V3(L-R-S-T)**



### Sound Power overall ( dBA )

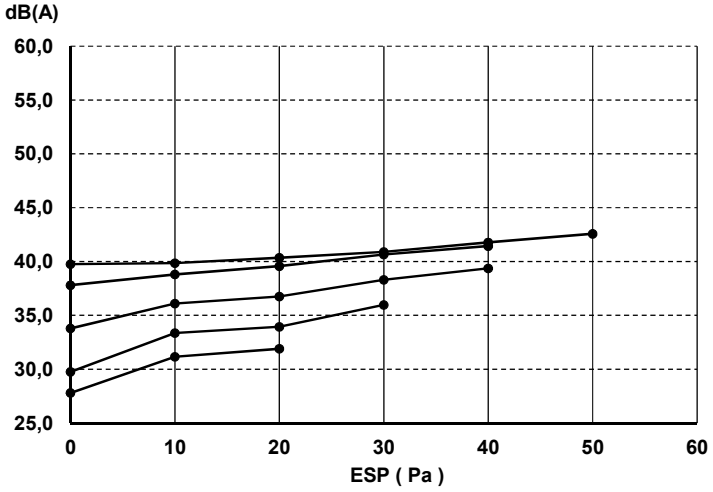
#### Whole casing

| ESP (Pa) | Fan speed 5 H | 4 | 3 M | 2 L | 1 |
|---|---|---|---|---|---|
| 0 | 44,0 | 42,0 | 38,0 | 34,0 | 32,0 |
| 10 | 44,2 | 43,0 | 39,8 | 36,6 | 34,6 |
| 20 | 44,8 | 44,2 | 41,5 | 38,9 | 36,9 |
| 30 | 45,4 | 45,1 | 42,9 | 40,6 | |
| 40 | 46,3 | 46,3 | 44,2 | | |
| 50 | 47,3 | | | | |



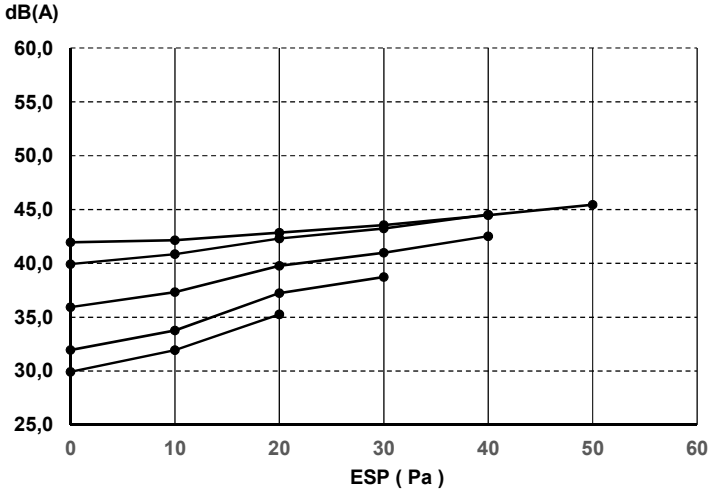

#### Discharge

| ESP (Pa) | Fan speed 5 H | 4 | 3 M | 2 L | 1 |
|---|---|---|---|---|---|
| 0 | 39,8 | 37,8 | 33,8 | 29,8 | 27,8 |
| 10 | 39,9 | 38,8 | 36,1 | 33,4 | 31,2 |
| 20 | 40,4 | 39,6 | 36,7 | 33,9 | 31,9 |
| 30 | 40,9 | 40,6 | 38,3 | 36,0 | |
| 40 | 41,8 | 41,4 | 39,4 | | |
| 50 | 42,6 | | | | |




#### Inlet + casing

| ESP (Pa) | Fan speed 5 H | 4 | 3 M | 2 L | 1 |
|---|---|---|---|---|---|
| 0 | 42,0 | 39,9 | 35,9 | 31,9 | 29,9 |
| 10 | 42,1 | 40,8 | 37,3 | 33,8 | 31,9 |
| 20 | 42,8 | 42,3 | 39,8 | 37,2 | 35,3 |
| 30 | 43,5 | 43,2 | 41,0 | 38,7 | |
| 40 | 44,5 | 44,5 | 42,5 | | |
| 50 | 45,4 | | | | |




**3D122199A**

# 7 Sound data

## 7 - 1 Sound Power Spectrum

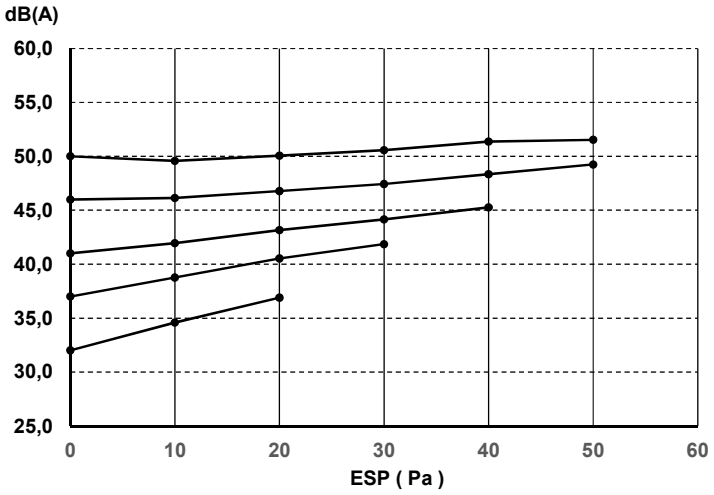
**FWE05DAFN5V3(L-R-S-T)**
**FWE05DATN5V3(L-R-S-T)**



### Sound Power overall ( dBA )

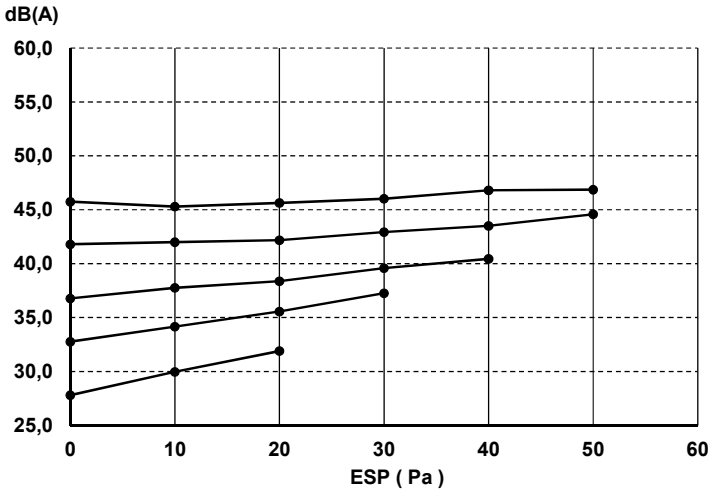
#### Whole casing

| ESP (Pa) | Fan speed 5 H | 4 | 3 M | 2 L | 1 |
|---|---|---|---|---|---|
| 0 | 50,0 | 46,0 | 41,0 | 37,0 | 32,0 |
| 10 | 49,6 | 46,2 | 42,0 | 38,8 | 34,6 |
| 20 | 50,1 | 46,8 | 43,2 | 40,5 | 36,9 |
| 30 | 50,6 | 47,4 | 44,1 | 41,9 | |
| 40 | 51,4 | 48,3 | 45,3 | | |
| 50 | 51,5 | 49,3 | | | |



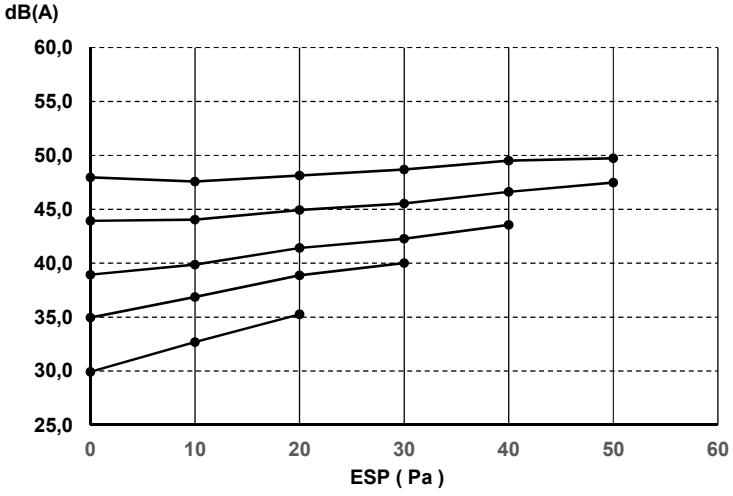

#### Discharge

| ESP (Pa) | Fan speed 5 H | 4 | 3 M | 2 L | 1 |
|---|---|---|---|---|---|
| 0 | 45,8 | 41,8 | 36,8 | 32,8 | 27,8 |
| 10 | 45,3 | 42,0 | 37,8 | 34,2 | 30,0 |
| 20 | 45,6 | 42,2 | 38,4 | 35,6 | 31,9 |
| 30 | 46,0 | 42,9 | 39,6 | 37,3 | |
| 40 | 46,8 | 43,5 | 40,4 | | |
| 50 | 46,9 | 44,6 | | | |




#### Inlet + casing

| ESP (Pa) | Fan speed 5 H | 4 | 3 M | 2 L | 1 |
|---|---|---|---|---|---|
| 0 | 48,0 | 43,9 | 38,9 | 34,9 | 29,9 |
| 10 | 47,6 | 44,0 | 39,9 | 36,9 | 32,7 |
| 20 | 48,1 | 44,9 | 41,4 | 38,9 | 35,3 |
| 30 | 48,7 | 45,5 | 42,3 | 40,0 | |
| 40 | 49,5 | 46,6 | 43,5 | | |
| 50 | 49,7 | 47,5 | | | |




**3D122200A**

# 7 Sound data

## 7 - 1 Sound Power Spectrum

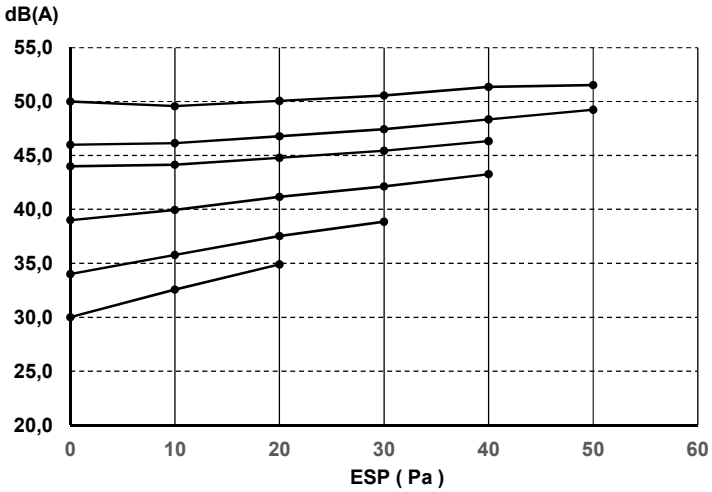
**FWE06DAFN5V3(L-R-S-T)**
**FWE06DATN5V3(L-R-S-T)**



### Sound Power overall ( dBA )

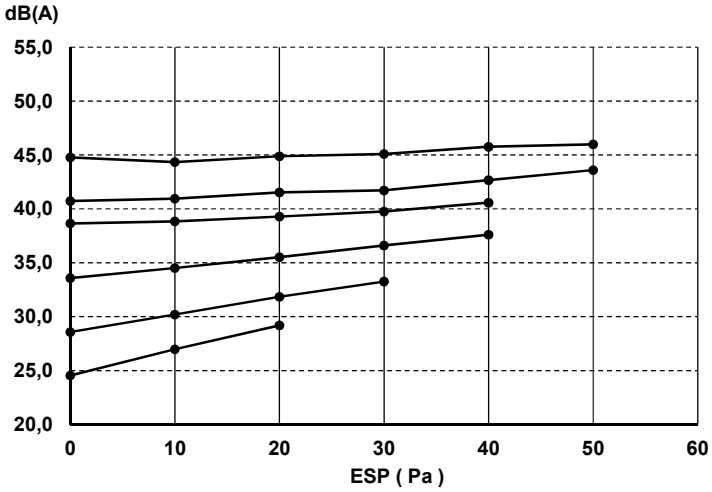
#### Whole casing

| ESP (Pa) | Fan speed 6 H | 5 | 4 M | 3 L | 2 | 1 |
|---|---|---|---|---|---|---|
| 0 | 50,0 | 46,0 | 44,0 | 39,0 | 34,0 | 30,0 |
| 10 | 49,6 | 46,2 | 44,2 | 40,0 | 35,8 | 32,6 |
| 20 | 50,1 | 46,8 | 44,8 | 41,2 | 37,5 | 34,9 |
| 30 | 50,6 | 47,4 | 45,4 | 42,1 | 38,9 | |
| 40 | 51,4 | 48,3 | 46,3 | 43,3 | | |
| 50 | 51,5 | 49,3 | | | | |



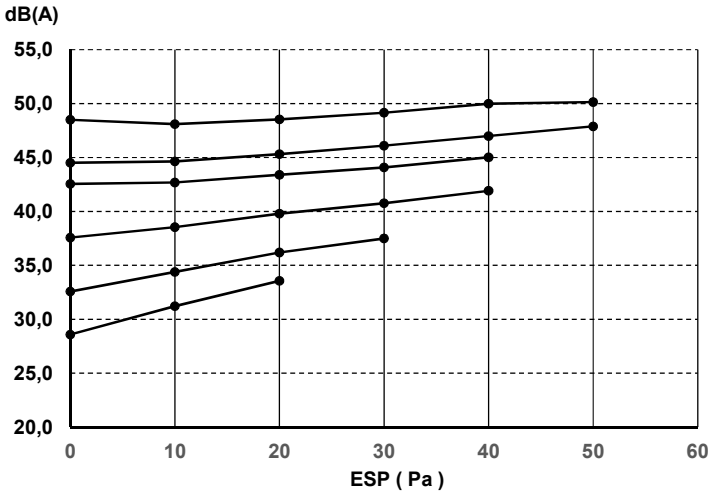

#### Discharge

| ESP (Pa) | Fan speed 6 H | 5 | 4 M | 3 L | 2 | 1 |
|---|---|---|---|---|---|---|
| 0 | 44,8 | 40,7 | 38,7 | 33,6 | 28,6 | 24,5 |
| 10 | 44,3 | 41,0 | 38,8 | 34,5 | 30,2 | 27,0 |
| 20 | 44,9 | 41,5 | 39,3 | 35,5 | 31,8 | 29,2 |
| 30 | 45,1 | 41,7 | 39,8 | 36,6 | 33,3 | |
| 40 | 45,8 | 42,7 | 40,6 | 37,6 | | |
| 50 | 46,0 | 43,6 | | | | |




#### Inlet + casing

| ESP (Pa) | Fan speed 6 H | 5 | 4 M | 3 L | 2 | 1 |
|---|---|---|---|---|---|---|
| 0 | 48,5 | 44,5 | 42,5 | 37,6 | 32,6 | 28,6 |
| 10 | 48,1 | 44,6 | 42,7 | 38,5 | 34,4 | 31,2 |
| 20 | 48,5 | 45,3 | 43,4 | 39,8 | 36,2 | 33,6 |
| 30 | 49,1 | 46,1 | 44,1 | 40,7 | 37,5 | |
| 40 | 50,0 | 47,0 | 45,0 | 41,9 | | |
| 50 | 50,1 | 47,9 | | | | |




3D122201A

# 7 Sound data

## 7 - 1 Sound Power Spectrum

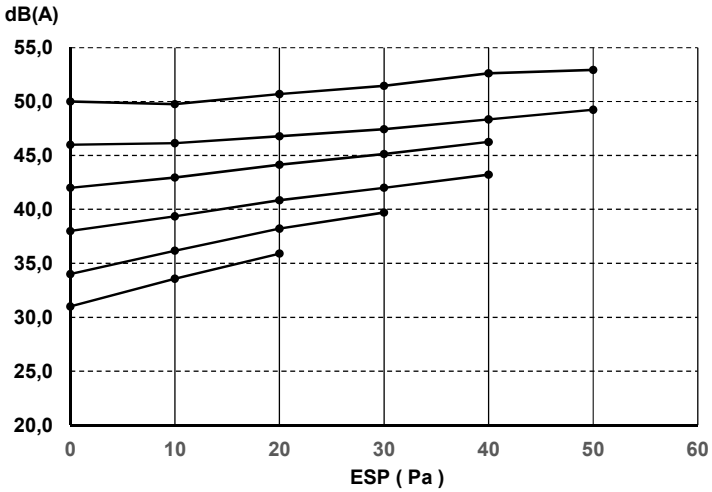
**FWE07DAFN5V3(L-R-S-T)**
**FWE07DATN5V3(L-R-S-T)**



### Sound Power overall ( dBA )

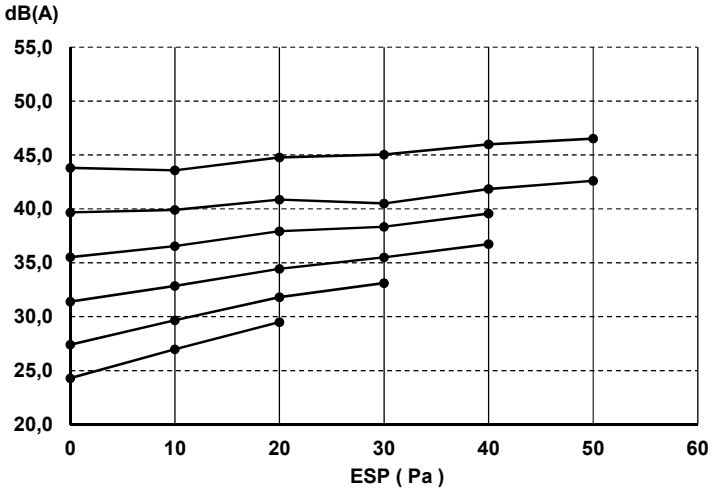
#### Whole casing

| ESP (Pa) | Fan speed 6 H | 5 | 4 M | 3 | 2 L | 1 |
|---|---|---|---|---|---|---|
| 0 | 50,0 | 46,0 | 42,0 | 38,0 | 34,0 | 31,0 |
| 10 | 49,8 | 46,2 | 43,0 | 39,4 | 36,2 | 33,6 |
| 20 | 50,7 | 46,8 | 44,2 | 40,8 | 38,2 | 35,9 |
| 30 | 51,5 | 47,4 | 45,1 | 42,0 | 39,7 | |
| 40 | 52,6 | 48,3 | 46,3 | 43,2 | | |
| 50 | 52,9 | 49,3 | | | | |



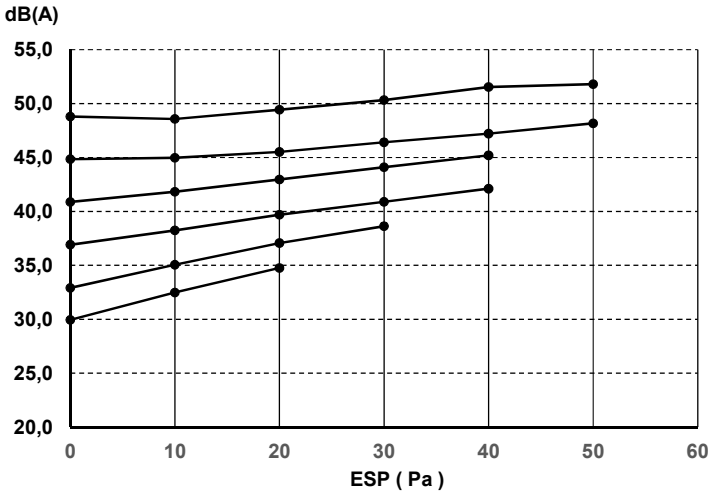

#### Discharge

| ESP (Pa) | Fan speed 6 H | 5 | 4 M | 3 | 2 L | 1 |
|---|---|---|---|---|---|---|
| 0 | 43,8 | 39,7 | 35,5 | 31,4 | 27,4 | 24,3 |
| 10 | 43,6 | 39,9 | 36,6 | 32,9 | 29,7 | 27,0 |
| 20 | 44,8 | 40,9 | 37,9 | 34,4 | 31,8 | 29,5 |
| 30 | 45,0 | 40,5 | 38,3 | 35,5 | 33,1 | |
| 40 | 46,0 | 41,8 | 39,6 | 36,7 | | |
| 50 | 46,5 | 42,6 | | | | |




#### Inlet + casing

| ESP (Pa) | Fan speed 6 H | 5 | 4 M | 3 | 2 L | 1 |
|---|---|---|---|---|---|---|
| 0 | 48,8 | 44,8 | 40,9 | 36,9 | 32,9 | 29,9 |
| 10 | 48,6 | 45,0 | 41,8 | 38,2 | 35,0 | 32,5 |
| 20 | 49,4 | 45,5 | 43,0 | 39,7 | 37,1 | 34,8 |
| 30 | 50,3 | 46,4 | 44,1 | 40,9 | 38,6 | |
| 40 | 51,5 | 47,2 | 45,2 | 42,1 | | |
| 50 | 51,8 | 48,2 | | | | |




**3D122202A**

# 7 Sound data

## 7 - 1 Sound Power Spectrum

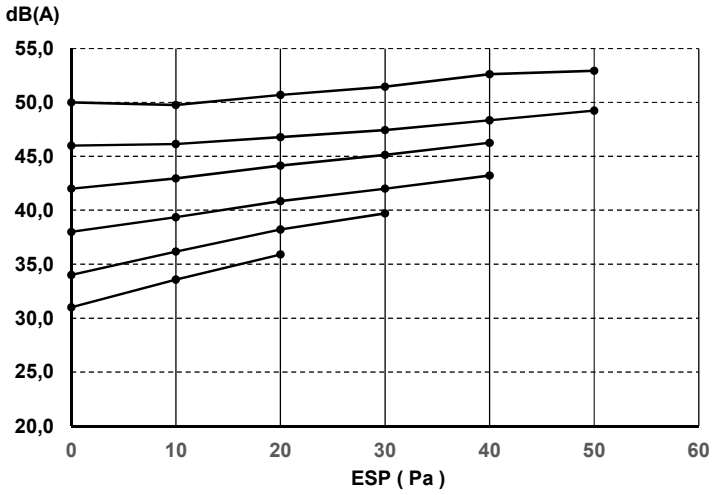
**FWE08DAFN5V3(L-R-S-T)**
**FWE08DATN5V3(L-R-S-T)**



### Sound Power overall ( dBA )

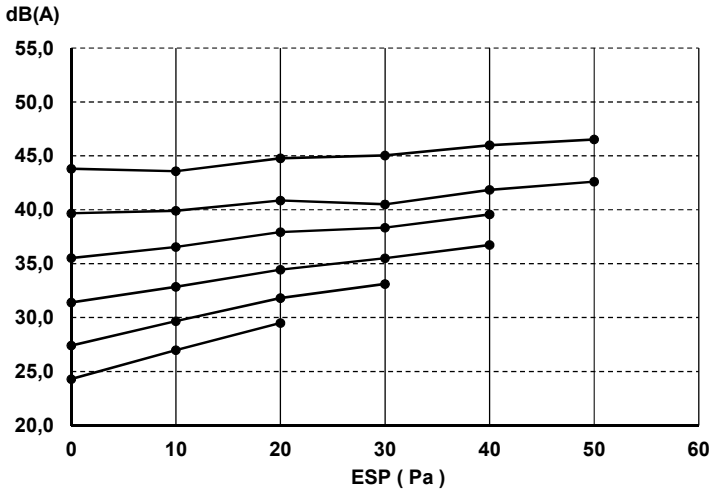
#### Whole casing

| ESP (Pa) | Fan speed 6 H | 5 M | 4 | 3 | 2 L | 1 |
|---|---|---|---|---|---|---|
| 0 | 50,0 | 46,0 | 42,0 | 38,0 | 34,0 | 31,0 |
| 10 | 49,8 | 46,2 | 43,0 | 39,4 | 36,2 | 33,6 |
| 20 | 50,7 | 46,8 | 44,2 | 40,8 | 38,2 | 35,9 |
| 30 | 51,5 | 47,4 | 45,1 | 42,0 | 39,7 | |
| 40 | 52,6 | 48,3 | 46,3 | 43,2 | | |
| 50 | 52,9 | 49,3 | | | | |



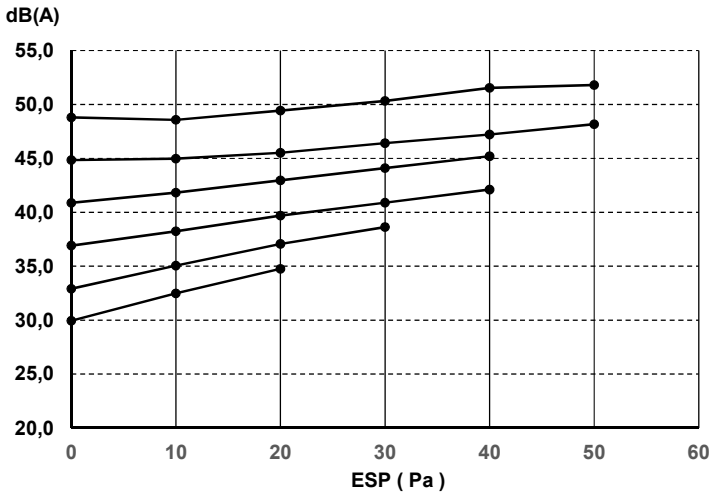

#### Discharge

| ESP (Pa) | Fan speed 6 H | 5 M | 4 | 3 | 2 L | 1 |
|---|---|---|---|---|---|---|
| 0 | 43,8 | 39,7 | 35,5 | 31,4 | 27,4 | 24,3 |
| 10 | 43,6 | 39,9 | 36,6 | 32,9 | 29,7 | 27,0 |
| 20 | 44,8 | 40,9 | 37,9 | 34,4 | 31,8 | 29,5 |
| 30 | 45,0 | 40,5 | 38,3 | 35,5 | 33,1 | |
| 40 | 46,0 | 41,8 | 39,6 | 36,7 | | |
| 50 | 46,5 | 42,6 | | | | |




#### Inlet + casing

| ESP (Pa) | Fan speed 6 H | 5 M | 4 | 3 | 2 L | 1 |
|---|---|---|---|---|---|---|
| 0 | 48,8 | 44,8 | 40,9 | 36,9 | 32,9 | 29,9 |
| 10 | 48,6 | 45,0 | 41,8 | 38,2 | 35,0 | 32,5 |
| 20 | 49,4 | 45,5 | 43,0 | 39,7 | 37,1 | 34,8 |
| 30 | 50,3 | 46,4 | 44,1 | 40,9 | 38,6 | |
| 40 | 51,5 | 47,2 | 45,2 | 42,1 | | |
| 50 | 51,8 | 48,2 | | | | |




3D122485A

# 7 Sound data

## 7 - 1 Sound Power Spectrum

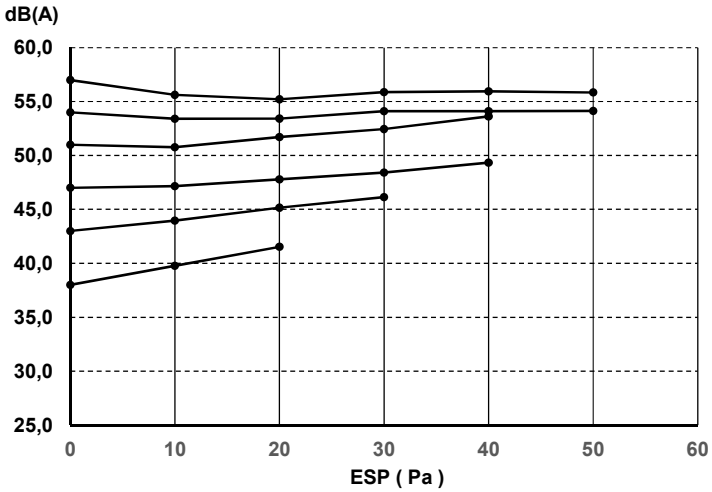
**FWE10DAFN5V3(L-R-S-T)**
**FWE10DATN5V3(L-R-S-T)**



### Sound Power overall ( dBA )

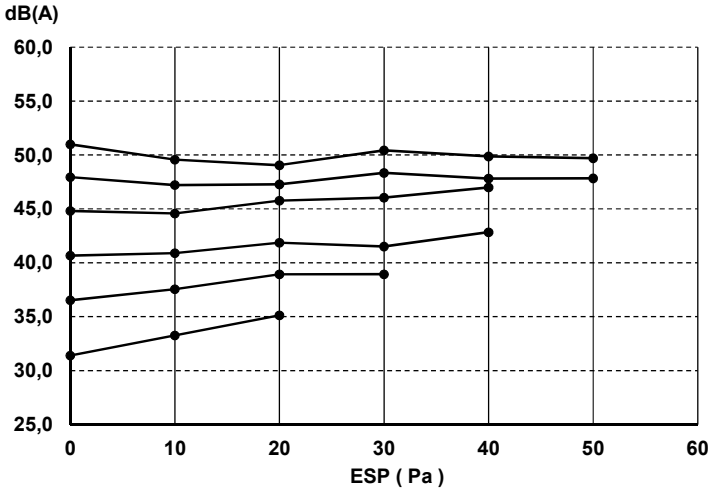
#### Whole casing

| ESP (Pa) | Fan speed 6 H | 5 | 4 M | 3 | 2 L | 1 |
|---|---|---|---|---|---|---|
| 0 | 57,0 | 54,0 | 51,0 | 47,0 | 43,0 | 38,0 |
| 10 | 55,6 | 53,4 | 50,8 | 47,2 | 44,0 | 39,8 |
| 20 | 55,2 | 53,4 | 51,7 | 47,8 | 45,2 | 41,5 |
| 30 | 55,9 | 54,1 | 52,5 | 48,4 | 46,1 | |
| 40 | 56,0 | 54,1 | 53,6 | 49,3 | | |
| 50 | 55,9 | 54,1 | | | | |



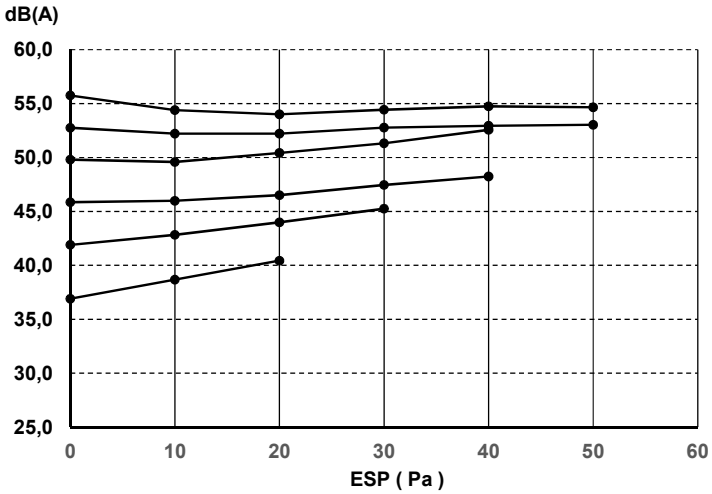

#### Discharge

| ESP (Pa) | Fan speed 6 H | 5 | 4 M | 3 | 2 L | 1 |
|---|---|---|---|---|---|---|
| 0 | 51,0 | 48,0 | 44,8 | 40,7 | 36,5 | 31,4 |
| 10 | 49,6 | 47,2 | 44,6 | 40,9 | 37,6 | 33,3 |
| 20 | 49,1 | 47,3 | 45,8 | 41,9 | 38,9 | 35,1 |
| 30 | 50,4 | 48,3 | 46,0 | 41,5 | 38,9 | |
| 40 | 49,9 | 47,8 | 47,0 | 42,8 | | |
| 50 | 49,7 | 47,8 | | | | |




#### Inlet + casing

| ESP (Pa) | Fan speed 6 H | 5 | 4 M | 3 | 2 L | 1 |
|---|---|---|---|---|---|---|
| 0 | 55,7 | 52,8 | 49,8 | 45,8 | 41,9 | 36,9 |
| 10 | 54,4 | 52,2 | 49,6 | 46,0 | 42,8 | 38,7 |
| 20 | 54,0 | 52,2 | 50,4 | 46,5 | 44,0 | 40,4 |
| 30 | 54,4 | 52,8 | 51,3 | 47,5 | 45,2 | |
| 40 | 54,7 | 52,9 | 52,6 | 48,2 | | |
| 50 | 54,6 | 53,0 | | | | |




**3D122203A**

# 7 Sound data

## 7 - 1 Sound Power Spectrum

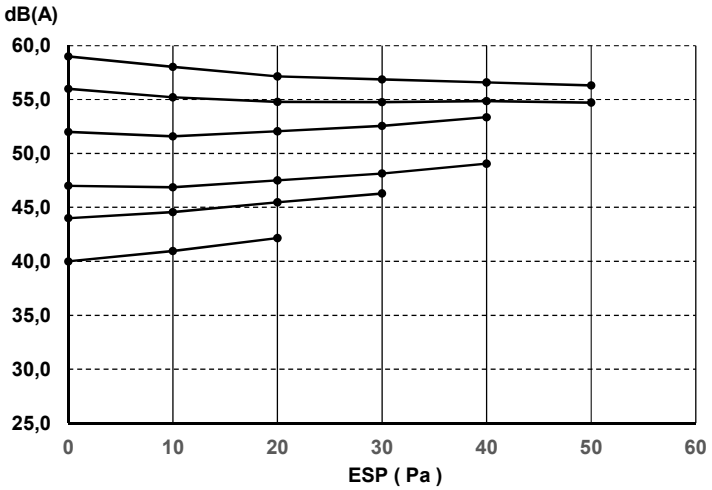
**FWE11DAFN5V3(L-R-S-T)**
**FWE11DATN5V3(L-R-S-T)**



### Sound Power overall ( dBA )

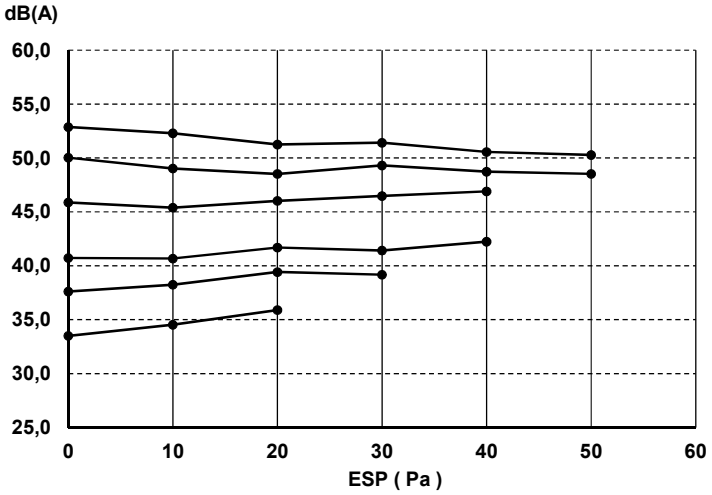
#### Whole casing

| ESP (Pa) | Fan speed 6 H | 5 | 4 M | 3 | 2 L | 1 |
|---|---|---|---|---|---|---|
| 0 | 59,0 | 56,0 | 52,0 | 47,0 | 44,0 | 40,0 |
| 10 | 58,0 | 55,2 | 51,6 | 46,9 | 44,6 | 41,0 |
| 20 | 57,2 | 54,8 | 52,1 | 47,5 | 45,5 | 42,2 |
| 30 | 56,9 | 54,8 | 52,6 | 48,2 | 46,3 | |
| 40 | 56,6 | 54,9 | 53,4 | 49,1 | | |
| 50 | 56,3 | 54,7 | | | | |



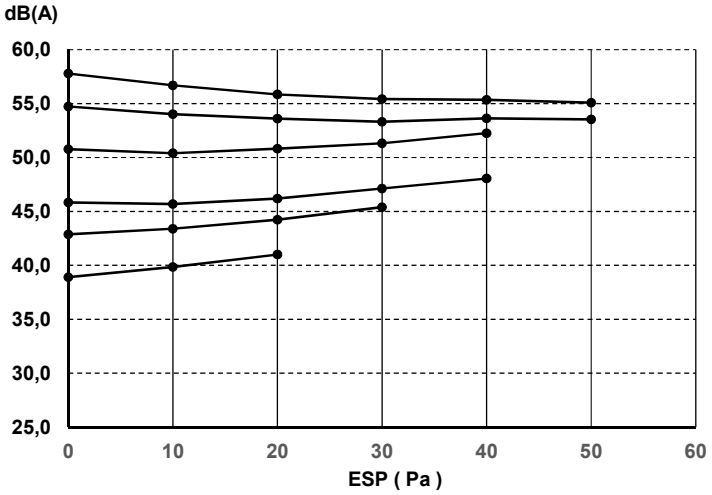

#### Discharge

| ESP (Pa) | Fan speed 6 H | 5 | 4 M | 3 | 2 L | 1 |
|---|---|---|---|---|---|---|
| 0 | 52,9 | 50,0 | 45,9 | 40,7 | 37,6 | 33,5 |
| 10 | 52,3 | 49,0 | 45,4 | 40,7 | 38,2 | 34,5 |
| 20 | 51,3 | 48,5 | 46,0 | 41,7 | 39,4 | 35,9 |
| 30 | 51,4 | 49,3 | 46,5 | 41,4 | 39,2 | |
| 40 | 50,6 | 48,7 | 46,9 | 42,2 | | |
| 50 | 50,3 | 48,5 | | | | |




#### Inlet + casing

| ESP (Pa) | Fan speed 6 H | 5 | 4 M | 3 | 2 L | 1 |
|---|---|---|---|---|---|---|
| 0 | 57,8 | 54,7 | 50,8 | 45,8 | 42,9 | 38,9 |
| 10 | 56,7 | 54,0 | 50,4 | 45,7 | 43,4 | 39,8 |
| 20 | 55,9 | 53,6 | 50,8 | 46,2 | 44,2 | 41,0 |
| 30 | 55,4 | 53,3 | 51,3 | 47,1 | 45,4 | |
| 40 | 55,4 | 53,6 | 52,3 | 48,0 | | |
| 50 | 55,1 | 53,5 | | | | |

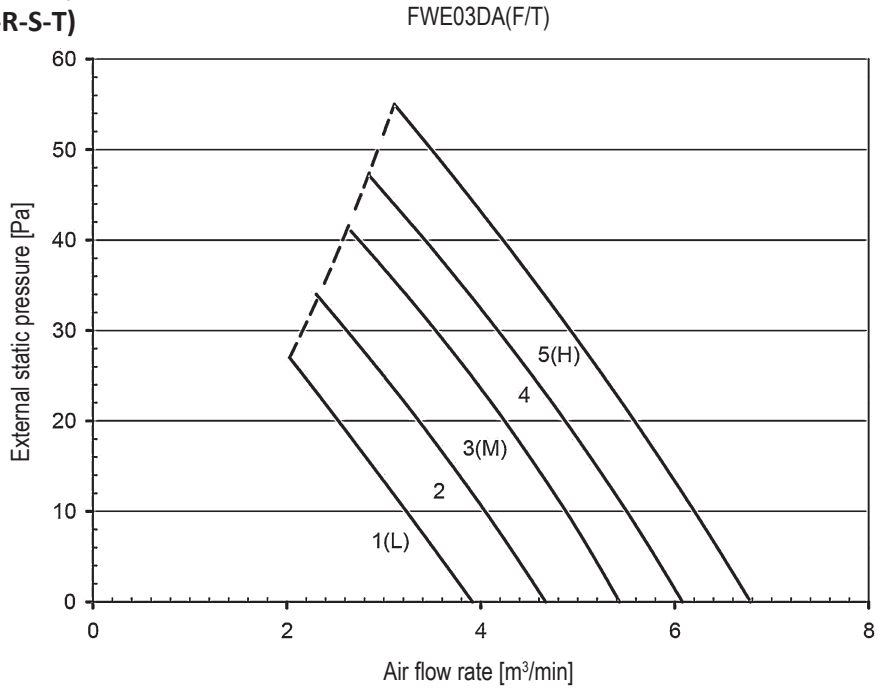



3D122205A

# 8 Fan characteristics

## 8 - 1 Fan Characteristics

**FWE03DAFN5V3(L-R-S-T)**
**FWE03DATN5V3(L-R-S-T)**

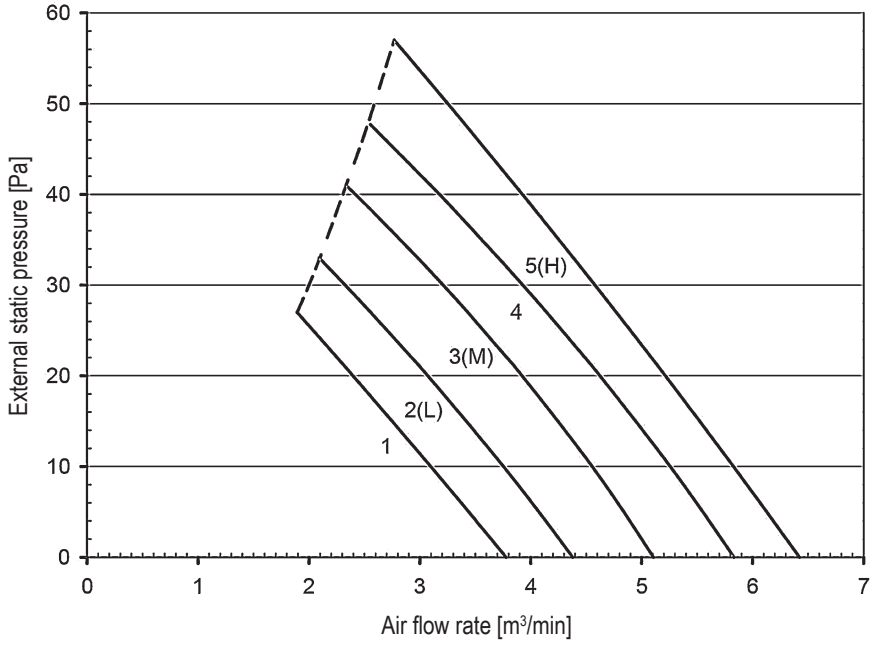



**NOTES**

1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

**4D122210**

**FWE04DAFN5V3(L-R-S-T)**
**FWE04DATN5V3(L-R-S-T)**




**NOTES**

1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

**4D122211**

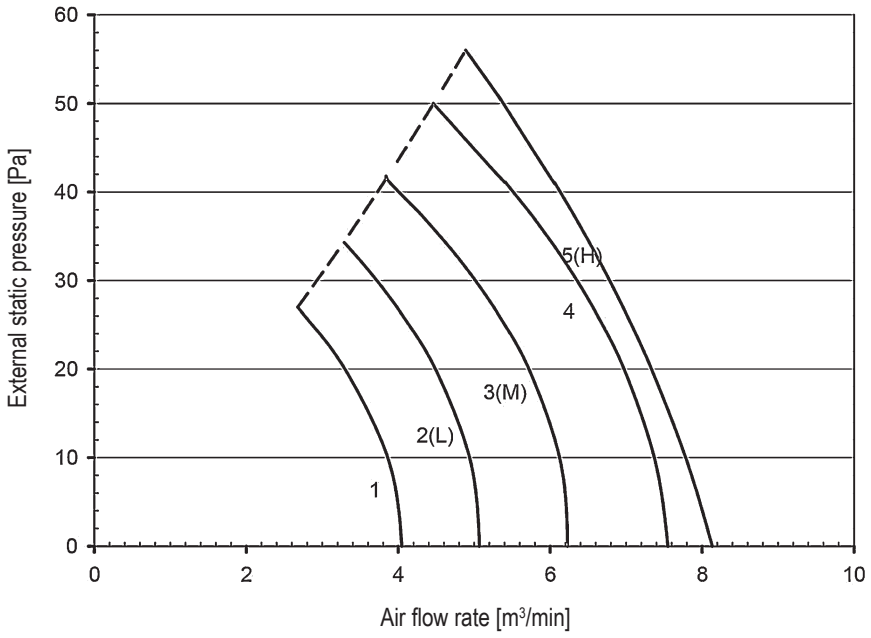
# 8 Fan characteristics

## 8 - 1 Fan Characteristics

8

**FWE05DAFN5V3(L-R-S-T)**
**FWE05DATN5V3(L-R-S-T)**

FWE05DA(F/T)



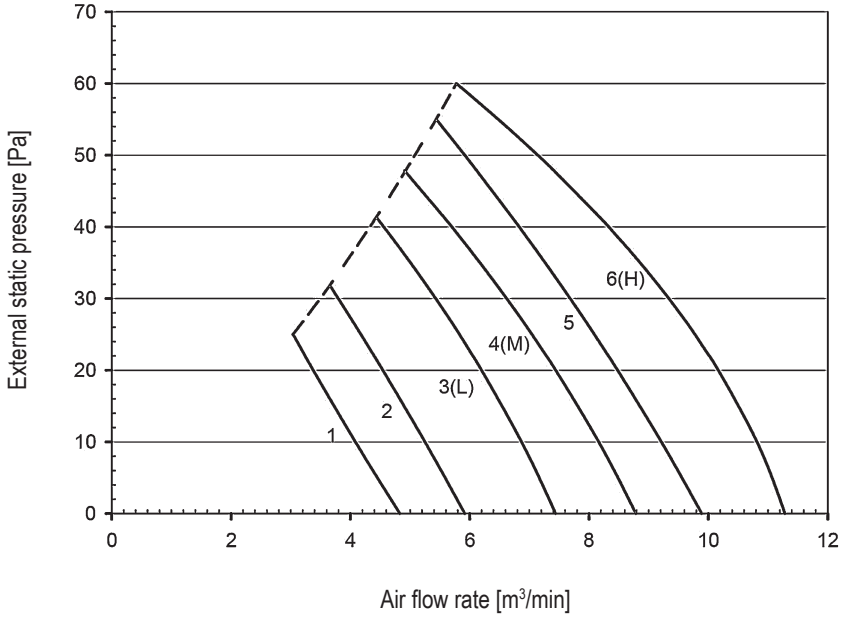

**NOTES**

1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

**4D122212**

**FWE06DAFN5V3(L-R-S-T)**
**FWE06DATN5V3(L-R-S-T)**

FWE06DA(F/T)




**NOTES**

1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

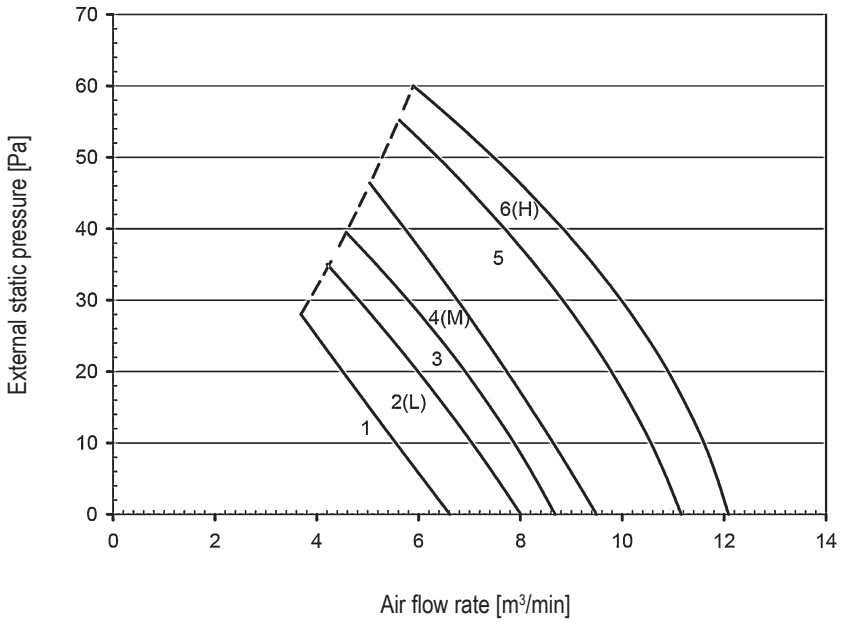
**4D122213**

# 8 Fan characteristics

## 8 - 1 Fan Characteristics

**FWE07DAFN5V3(L-R-S-T)**
**FWE07DATN5V3(L-R-S-T)**

FWE07DA(F/T)



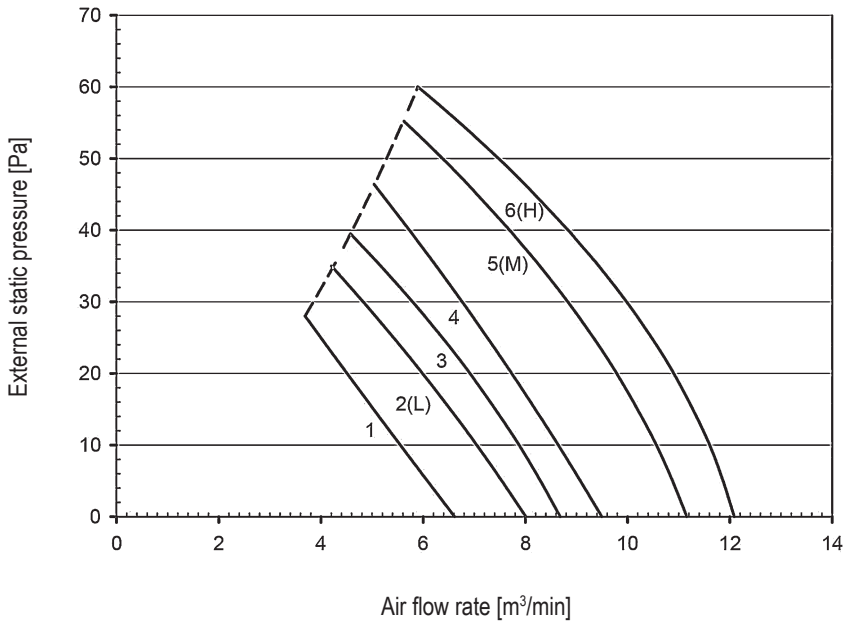

**NOTES**

1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

**4D122214**

**FWE08DAFN5V3(L-R-S-T)**
**FWE08DATN5V3(R-R-S-T)**

FWE8DA(F/T)




**NOTES**

1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

**4D122548**

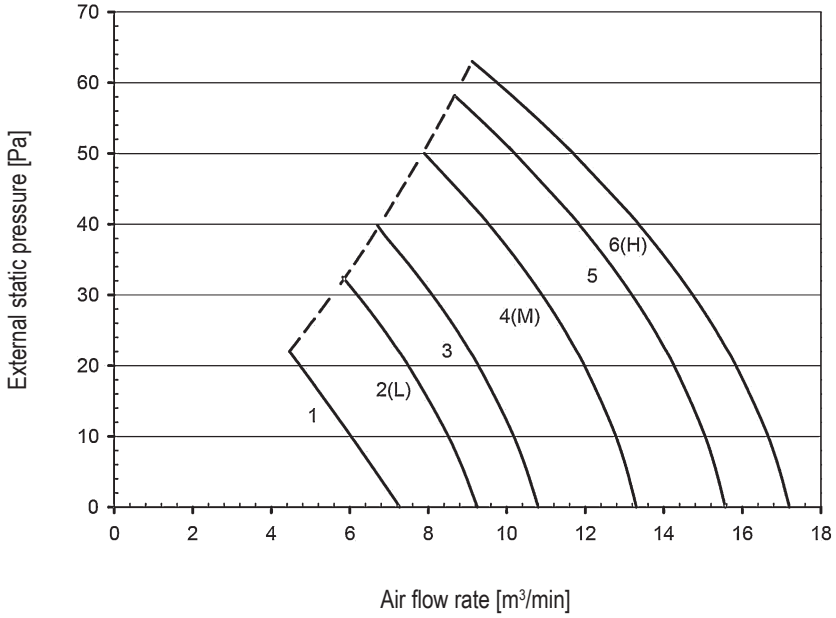
# 8 Fan characteristics

## 8 - 1 Fan Characteristics



**FWE10DAFN5V(L-R-S-T)**
**FWE10DATN5V(L-R-S-T)**

FWE10DA(F/T)



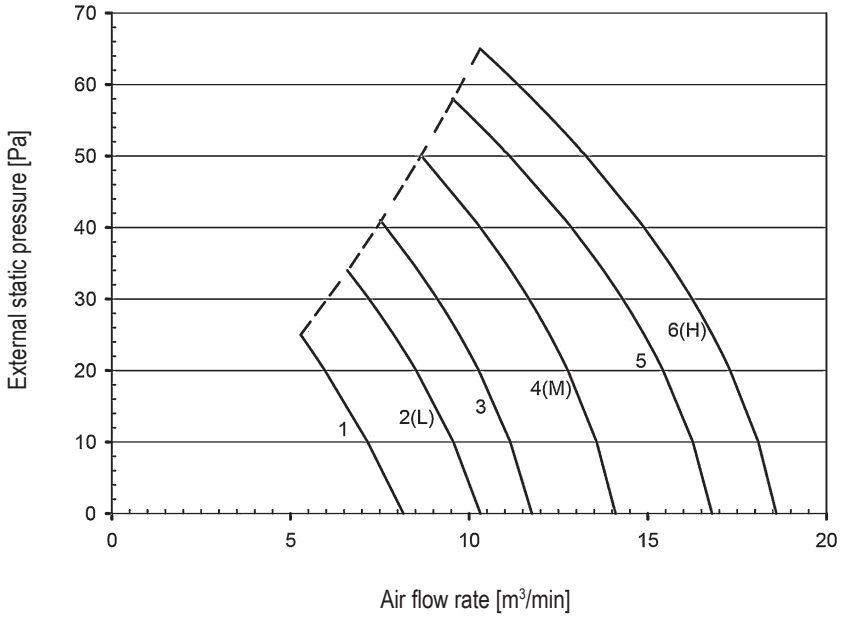

**NOTES**

1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

**4D122215**

**FWE11DAFN5V3(L-R-S-T)**
**FWE11DATN5V3(L-R-S-T)**

FWE11DA(F/T)




**NOTES**

1. The fan characteristics shown are in "fan only" mode.
2. Air temperature condition: 20°C DB, 15°C WB (RH 59%).
3. Power supply condition: 50Hz 230V.

**4D122216**

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