

**General Data**

|                           |                      |                         |
|---------------------------|----------------------|-------------------------|
| Date                      |                      | 14/04/2015              |
| Time                      |                      | 10.50                   |
| Technician                |                      | Mazzoleni               |
| Fan type                  |                      | DDMP 225/240            |
| Test                      |                      | S4945.000               |
| Fan outlet area           | [m <sup>2</sup> ]    | 0.0730                  |
| Barometric pressure       | [mm <sub>Hg</sub> ]  | 755.0                   |
| Mean test air density     | [kg/m <sup>3</sup> ] | 1.190                   |
| Nominal density           | [kg/m <sup>3</sup> ] | 1.200                   |
| Number of test points     |                      | 12                      |
| Test chamber              |                      | 10000 m <sup>3</sup> /h |
| Motor nominal power       | [W]                  | 400                     |
| Number of poles           |                      | 8                       |
| Nominal voltage           | [V]                  | 230                     |
| Nominal frequency         | [Hz]                 | 50                      |
| Supply type               |                      | Single phase            |
| Condenser capacity        | [μF]                 | 0.00                    |
| Nominal condenser voltage | [V]                  | 0                       |

**Notes**

DDMP 225/240 ---- F.M.W.L.

***DATA REDUCED TO NOMINAL CONDITIONS***

| Point nr. | Flow R.<br>[m <sup>3</sup> /s] | Flow R.<br>[m <sup>3</sup> /h] | Stat. P.<br>[Pa] | Vel. P.<br>[Pa] | Tot. P.<br>[Pa] | Speed<br>[r.p.m.] | Current<br>[A] | Cos φ<br>[#] | Abs.Pow.<br>[W] |
|-----------|--------------------------------|--------------------------------|------------------|-----------------|-----------------|-------------------|----------------|--------------|-----------------|
| 1         | 0.1262                         | 454                            | 766.54           | 1.79            | 768.33          | 1998              | 1.60           | 0.994        | 378             |
| 2         | 0.2367                         | 852                            | 772.04           | 6.29            | 778.33          | 1999              | 2.10           | 0.996        | 495             |
| 3         | 0.3390                         | 1221                           | 731.80           | 12.92           | 744.72          | 1998              | 2.59           | 0.997        | 609             |
| 4         | 0.4682                         | 1686                           | 708.02           | 24.65           | 732.66          | 1999              | 3.28           | 1.000        | 770             |
| 5         | 0.6543                         | 2355                           | 703.00           | 48.14           | 751.13          | 1973              | 4.47           | 1.000        | 1044            |
| 6         | 0.7396                         | 2662                           | 584.93           | 61.57           | 646.51          | 1826              | 4.48           | 1.000        | 1044            |
| 7         | 0.7943                         | 2860                           | 463.85           | 71.12           | 534.97          | 1672              | 4.17           | 1.000        | 974             |
| 8         | 0.8278                         | 2980                           | 355.78           | 77.29           | 433.08          | 1529              | 3.80           | 0.999        | 890             |
| 9         | 0.8707                         | 3135                           | 256.73           | 85.56           | 342.29          | 1402              | 3.55           | 0.999        | 831             |
| 10        | 0.9045                         | 3256                           | 175.95           | 92.38           | 268.33          | 1296              | 3.31           | 1.000        | 780             |
| 11        | 0.9371                         | 3374                           | 92.39            | 99.18           | 191.57          | 1185              | 3.06           | 0.999        | 723             |
| 12        | 0.9756                         | 3512                           | -0.40            | 107.54          | 107.13          | 1060              | 2.79           | 0.999        | 658             |

**General Data**

|                           |                      |                         |
|---------------------------|----------------------|-------------------------|
| Date                      |                      | 14/04/2015              |
| Time                      |                      | 11.21                   |
| Technician                |                      | Mazzoleni               |
| Fan type                  |                      | DDMP 225/240            |
| Test                      |                      | S4945.001               |
| Fan outlet area           | [m <sup>2</sup> ]    | 0.0730                  |
| Barometric pressure       | [mm <sub>Hg</sub> ]  | 755.1                   |
| Mean test air density     | [kg/m <sup>3</sup> ] | 1.189                   |
| Nominal density           | [kg/m <sup>3</sup> ] | 1.200                   |
| Number of test points     |                      | 6                       |
| Test chamber              |                      | 10000 m <sup>3</sup> /h |
| Motor nominal power       | [W]                  | 400                     |
| Number of poles           |                      | 8                       |
| Nominal voltage           | [V]                  | 230                     |
| Nominal frequency         | [Hz]                 | 50                      |
| Supply type               |                      | Single phase            |
| Condenser capacity        | [μF]                 | 0.00                    |
| Nominal condenser voltage | [V]                  | 0                       |

**Notes**

DDMP 225/240 ---- 7Vdc

***DATA REDUCED TO NOMINAL CONDITIONS***

| Point nr. | Flow R.<br>[m <sup>3</sup> /s] | Flow R.<br>[m <sup>3</sup> /h] | Stat. P.<br>[Pa] | Vel. P.<br>[Pa] | Tot. P.<br>[Pa] | Speed<br>[r.p.m.] | Current<br>[A] | Cos φ<br>[#] | Abs.Pow.<br>[W] |
|-----------|--------------------------------|--------------------------------|------------------|-----------------|-----------------|-------------------|----------------|--------------|-----------------|
| 1         | 0.1262                         | 454                            | 687.67           | 1.79            | 689.46          | 1888              | 1.37           | 0.992        | 322             |
| 2         | 0.2351                         | 846                            | 683.02           | 6.21            | 689.24          | 1885              | 1.83           | 0.994        | 430             |
| 3         | 0.3353                         | 1207                           | 643.15           | 12.65           | 655.80          | 1881              | 2.25           | 0.996        | 529             |
| 4         | 0.4335                         | 1561                           | 613.43           | 21.15           | 634.58          | 1879              | 2.66           | 0.998        | 622             |
| 5         | 0.6260                         | 2254                           | 634.87           | 44.10           | 678.96          | 1878              | 3.87           | 1.000        | 899             |
| 6         | 0.7353                         | 2647                           | 589.54           | 60.87           | 650.41          | 1835              | 4.47           | 1.000        | 1045            |

**General Data**

|                           |                      |                         |
|---------------------------|----------------------|-------------------------|
| Date                      |                      | 14/04/2015              |
| Time                      |                      | 11.38                   |
| Technician                |                      | Mazzoleni               |
| Fan type                  |                      | DDMP 225/240            |
| Test                      |                      | S4945.002               |
| Fan outlet area           | [m <sup>2</sup> ]    | 0.0730                  |
| Barometric pressure       | [mm <sub>Hg</sub> ]  | 755.2                   |
| Mean test air density     | [kg/m <sup>3</sup> ] | 1.189                   |
| Nominal density           | [kg/m <sup>3</sup> ] | 1.200                   |
| Number of test points     |                      | 8                       |
| Test chamber              |                      | 10000 m <sup>3</sup> /h |
| Motor nominal power       | [W]                  | 400                     |
| Number of poles           |                      | 8                       |
| Nominal voltage           | [V]                  | 230                     |
| Nominal frequency         | [Hz]                 | 50                      |
| Supply type               |                      | Single phase            |
| Condenser capacity        | [μF]                 | 0.00                    |
| Nominal condenser voltage | [V]                  | 0                       |

**Notes**

DDMP 225/240 ---- 6Vdc

***DATA REDUCED TO NOMINAL CONDITIONS***

| Point<br>nr. | Flow R.<br>[m <sup>3</sup> /s] | Flow R.<br>[m <sup>3</sup> /h] | Stat. P.<br>[Pa] | Vel. P.<br>[Pa] | Tot. P.<br>[Pa] | Speed<br>[r.p.m.] | Current<br>[A] | Cos φ<br>[#] | Abs.Pow.<br>[W] |
|--------------|--------------------------------|--------------------------------|------------------|-----------------|-----------------|-------------------|----------------|--------------|-----------------|
| 1            | 0.1156                         | 416                            | 527.38           | 1.50            | 528.88          | 1665              | 0.94           | 0.981        | 223             |
| 2            | 0.1913                         | 689                            | 531.32           | 4.12            | 535.44          | 1663              | 1.23           | 0.990        | 288             |
| 3            | 0.2806                         | 1010                           | 505.34           | 8.86            | 514.21          | 1662              | 1.50           | 0.994        | 353             |
| 4            | 0.3816                         | 1374                           | 475.61           | 16.41           | 492.02          | 1660              | 1.89           | 0.995        | 440             |
| 5            | 0.5513                         | 1985                           | 493.00           | 34.24           | 527.24          | 1658              | 2.62           | 0.998        | 612             |
| 6            | 0.6763                         | 2435                           | 478.47           | 51.52           | 529.99          | 1658              | 3.35           | 0.999        | 778             |
| 7            | 0.7539                         | 2714                           | 460.73           | 64.02           | 524.75          | 1649              | 3.80           | 1.000        | 891             |
| 8            | 0.8291                         | 2985                           | 352.36           | 77.50           | 429.86          | 1523              | 3.80           | 1.000        | 891             |

**General Data**

|                           |                      |                         |
|---------------------------|----------------------|-------------------------|
| Date                      |                      | 14/04/2015              |
| Time                      |                      | 11.49                   |
| Technician                |                      | Mazzoleni               |
| Fan type                  |                      | DDMP 225/240            |
| Test                      |                      | S4945.003               |
| Fan outlet area           | [m <sup>2</sup> ]    | 0.0730                  |
| Barometric pressure       | [mm <sub>Hg</sub> ]  | 755.2                   |
| Mean test air density     | [kg/m <sup>3</sup> ] | 1.188                   |
| Nominal density           | [kg/m <sup>3</sup> ] | 1.200                   |
| Number of test points     |                      | 9                       |
| Test chamber              |                      | 10000 m <sup>3</sup> /h |
| Motor nominal power       | [W]                  | 400                     |
| Number of poles           |                      | 8                       |
| Nominal voltage           | [V]                  | 230                     |
| Nominal frequency         | [Hz]                 | 50                      |
| Supply type               |                      | Single phase            |
| Condenser capacity        | [μF]                 | 0.00                    |
| Nominal condenser voltage | [V]                  | 0                       |

**Notes**

DDMP 225/240 ---- 5Vdc

***DATA REDUCED TO NOMINAL CONDITIONS***

| Point<br>nr. | Flow R.<br>[m <sup>3</sup> /s] | Flow R.<br>[m <sup>3</sup> /h] | Stat. P.<br>[Pa] | Vel. P.<br>[Pa] | Tot. P.<br>[Pa] | Speed<br>[r.p.m.] | Current<br>[A] | Cos φ<br>[#] | Abs.Pow.<br>[W] |
|--------------|--------------------------------|--------------------------------|------------------|-----------------|-----------------|-------------------|----------------|--------------|-----------------|
| 1            | 0.0998                         | 359                            | 391.73           | 1.12            | 392.86          | 1445              | 0.67           | 0.971        | 154             |
| 2            | 0.1889                         | 680                            | 395.83           | 4.02            | 399.85          | 1442              | 0.88           | 0.981        | 205             |
| 3            | 0.2411                         | 868                            | 374.76           | 6.56            | 381.31          | 1441              | 1.02           | 0.984        | 238             |
| 4            | 0.3481                         | 1253                           | 360.70           | 13.68           | 374.38          | 1440              | 1.29           | 0.990        | 300             |
| 5            | 0.4768                         | 1717                           | 368.95           | 25.65           | 394.61          | 1439              | 1.72           | 0.993        | 401             |
| 6            | 0.5834                         | 2100                           | 359.12           | 38.40           | 397.52          | 1439              | 2.16           | 0.996        | 503             |
| 7            | 0.6854                         | 2467                           | 340.17           | 53.01           | 393.18          | 1437              | 2.63           | 0.998        | 612             |
| 8            | 0.7921                         | 2852                           | 306.64           | 70.83           | 377.47          | 1436              | 3.20           | 0.999        | 744             |
| 9            | 0.8633                         | 3108                           | 255.37           | 84.11           | 339.48          | 1397              | 3.46           | 1.000        | 814             |

**General Data**

|                           |                      |                         |
|---------------------------|----------------------|-------------------------|
| Date                      |                      | 14/04/2015              |
| Time                      |                      | 12.03                   |
| Technician                |                      | Mazzoleni               |
| Fan type                  |                      | DDMP 225/240            |
| Test                      |                      | S4945.004               |
| Fan outlet area           | [m <sup>2</sup> ]    | 0.0730                  |
| Barometric pressure       | [mm <sub>Hg</sub> ]  | 755.2                   |
| Mean test air density     | [kg/m <sup>3</sup> ] | 1.188                   |
| Nominal density           | [kg/m <sup>3</sup> ] | 1.200                   |
| Number of test points     |                      | 11                      |
| Test chamber              |                      | 10000 m <sup>3</sup> /h |
| Motor nominal power       | [W]                  | 400                     |
| Number of poles           |                      | 8                       |
| Nominal voltage           | [V]                  | 230                     |
| Nominal frequency         | [Hz]                 | 50                      |
| Supply type               |                      | Single phase            |
| Condenser capacity        | [μF]                 | 0.00                    |
| Nominal condenser voltage | [V]                  | 0                       |

**Notes**

DDMP 225/240 ---- 4Vdc

***DATA REDUCED TO NOMINAL CONDITIONS***

| Point nr. | Flow R.<br>[m <sup>3</sup> /s] | Flow R.<br>[m <sup>3</sup> /h] | Stat. P.<br>[Pa] | Vel. P.<br>[Pa] | Tot. P.<br>[Pa] | Speed<br>[r.p.m.] | Current<br>[A] | Cos φ<br>[#] | Abs.Pow.<br>[W] |
|-----------|--------------------------------|--------------------------------|------------------|-----------------|-----------------|-------------------|----------------|--------------|-----------------|
| 1         | 0.0824                         | 297                            | 275.72           | 0.77            | 276.49          | 1220              | 0.44           | 0.936        | 100             |
| 2         | 0.1275                         | 459                            | 282.00           | 1.84            | 283.84          | 1218              | 0.53           | 0.954        | 121             |
| 3         | 0.1976                         | 711                            | 269.75           | 4.41            | 274.16          | 1218              | 0.64           | 0.969        | 147             |
| 4         | 0.2938                         | 1058                           | 254.70           | 9.75            | 264.45          | 1216              | 0.82           | 0.980        | 190             |
| 5         | 0.3869                         | 1393                           | 263.47           | 16.91           | 280.38          | 1217              | 1.04           | 0.985        | 240             |
| 6         | 0.4954                         | 1783                           | 253.97           | 27.71           | 281.68          | 1216              | 1.34           | 0.990        | 310             |
| 7         | 0.5842                         | 2103                           | 240.28           | 38.55           | 278.83          | 1216              | 1.61           | 0.993        | 375             |
| 8         | 0.6583                         | 2370                           | 222.02           | 48.94           | 270.96          | 1216              | 1.89           | 0.995        | 438             |
| 9         | 0.7471                         | 2689                           | 192.39           | 63.00           | 255.39          | 1215              | 2.21           | 0.996        | 519             |
| 10        | 0.8415                         | 3029                           | 156.42           | 79.93           | 236.34          | 1213              | 2.64           | 0.998        | 623             |
| 11        | 0.9342                         | 3363                           | 98.18            | 98.55           | 196.73          | 1192              | 3.08           | 0.999        | 722             |

**General Data**

|                           |                      |                         |
|---------------------------|----------------------|-------------------------|
| Date                      |                      | 14/04/2015              |
| Time                      |                      | 12.19                   |
| Technician                |                      | Mazzoleni               |
| Fan type                  |                      | DDMP 225/240            |
| Test                      |                      | S4945.005               |
| Fan outlet area           | [m <sup>2</sup> ]    | 0.0730                  |
| Barometric pressure       | [mm <sub>Hg</sub> ]  | 755.2                   |
| Mean test air density     | [kg/m <sup>3</sup> ] | 1.187                   |
| Nominal density           | [kg/m <sup>3</sup> ] | 1.200                   |
| Number of test points     |                      | 12                      |
| Test chamber              |                      | 10000 m <sup>3</sup> /h |
| Motor nominal power       | [W]                  | 400                     |
| Number of poles           |                      | 8                       |
| Nominal voltage           | [V]                  | 230                     |
| Nominal frequency         | [Hz]                 | 50                      |
| Supply type               |                      | Single phase            |
| Condenser capacity        | [μF]                 | 0.00                    |
| Nominal condenser voltage | [V]                  | 0                       |

**Notes**

DDMP 225/240 ---- 3Vdc

***DATA REDUCED TO NOMINAL CONDITIONS***

| Point nr. | Flow R.<br>[m <sup>3</sup> /s] | Flow R.<br>[m <sup>3</sup> /h] | Stat. P.<br>[Pa] | Vel. P.<br>[Pa] | Tot. P.<br>[Pa] | Speed<br>[r.p.m.] | Current<br>[A] | Cos φ<br>[#] | Abs.Pow.<br>[W] |
|-----------|--------------------------------|--------------------------------|------------------|-----------------|-----------------|-------------------|----------------|--------------|-----------------|
| 1         | 0.0573                         | 206                            | 179.45           | 0.37            | 179.82          | 998               | 0.29           | 0.878        | 61              |
| 2         | 0.1212                         | 436                            | 186.81           | 1.66            | 188.46          | 995               | 0.36           | 0.917        | 79              |
| 3         | 0.1596                         | 574                            | 177.87           | 2.88            | 180.74          | 994               | 0.40           | 0.928        | 88              |
| 4         | 0.2313                         | 833                            | 168.52           | 6.04            | 174.56          | 993               | 0.48           | 0.947        | 108             |
| 5         | 0.3291                         | 1185                           | 173.07           | 12.23           | 185.31          | 993               | 0.62           | 0.967        | 142             |
| 6         | 0.3889                         | 1400                           | 168.76           | 17.08           | 185.85          | 992               | 0.72           | 0.976        | 167             |
| 7         | 0.4632                         | 1667                           | 160.43           | 24.23           | 184.67          | 992               | 0.88           | 0.981        | 203             |
| 8         | 0.5407                         | 1946                           | 145.40           | 33.03           | 178.43          | 992               | 1.05           | 0.985        | 244             |
| 9         | 0.6030                         | 2171                           | 128.30           | 41.04           | 169.34          | 992               | 1.21           | 0.989        | 281             |
| 10        | 0.6787                         | 2443                           | 104.53           | 52.02           | 156.55          | 991               | 1.42           | 0.992        | 332             |
| 11        | 0.7794                         | 2806                           | 64.33            | 68.59           | 132.92          | 990               | 1.75           | 0.994        | 407             |
| 12        | 0.9098                         | 3275                           | 0.32             | 93.51           | 93.83           | 990               | 2.25           | 0.997        | 523             |