

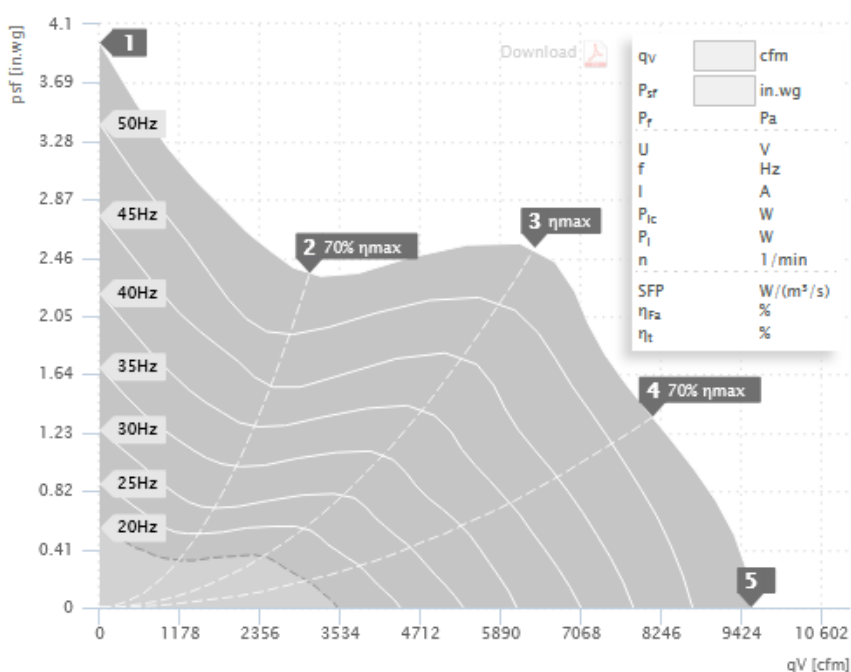
# 24" Prime | 147578



Price available upon request

- Mixed flow fan with high efficiency rates
- 3D shaped impeller blades
- Aluminum housing
- Three-phase AC motor
- Including mounting bracket

| 24" Prime   50 Hz                 |          |
|-----------------------------------|----------|
| Voltage $U_N$                     | 400 V 3~ |
| Current $I_{max}$                 | 6.1 A    |
| Ambient temperature $t_a$         | 60 °C    |
| Conveyed medium temperature $t_M$ | 60 °C    |
| Speed Control                     | f        |
| Motor protection                  | TAO      |
| Insulation class motor            | F        |
| Weight                            | 49,5 kg  |
| Number of poles                   | 4        |
| IP motor                          | IP55     |
| IP terminal box                   | -        |
| Min. operating temperature        | -20 °C   |



| Sound power (L <sub>W</sub> ) dB(A) |                  | Medium Frequency Band |    |     |     |     |    |    |    |    |
|-------------------------------------|------------------|-----------------------|----|-----|-----|-----|----|----|----|----|
|                                     |                  | Σ                     | 63 | 125 | 250 | 500 | 1k | 2k | 4k | 8k |
| Inlet                               | L <sub>WA5</sub> | -                     | -  | -   | -   | -   | -  | -  | -  | -  |
| Outlet                              | L <sub>WA6</sub> | -                     | -  | -   | -   | -   | -  | -  | -  | -  |
| Housing radiation                   | L <sub>WA2</sub> | -                     | -  | -   | -   | -   | -  | -  | -  | -  |

| Operating Point                 |       | 1    | 2    | 3    | 4    | 5    |
|---------------------------------|-------|------|------|------|------|------|
| Current $I$                     | A     | 4.1  | 3.4  | 4.9  | 4.7  | 4.6  |
| Power consumption $P_1$         | W     | 2246 | 1777 | 2790 | 2657 | 2599 |
| Rotation speed $n$              | 1/min | 1565 | 1593 | 1560 | 1566 | 1570 |
| SWL inlet $L_{WA5}$             | dB(A) | 94   | 90   | 85   | 88   | 91   |
| SWL outlet $L_{WA6}$            | dB(A) | 97   | 94   | 89   | 91   | 95   |
| SWL housing break out $L_{WA2}$ | dB(A) | 85   | 82   | 77   | 79   | 83   |



Type 24" Prime  
ID 147578

| Connection data entire unit |    |      |
|-----------------------------|----|------|
| Rated frequency             | Hz | 50   |
| Rated voltage               | V  | 400  |
| Rated power                 | W  | 2745 |
| Max. operating current      | A  | 6.1  |
| Phase                       |    | 3~   |
| Motor Type                  |    | 3~   |
| Type of motor control       |    | f    |
| Motor protection            |    | TAO  |
| Capacitor μ                 | μF | -    |
| Capacitor voltage           | V  | -    |
| Insulation class motor      |    | F    |
| Number of poles             |    | 4    |
| IP motor                    |    | IP55 |
| IP terminal box             |    | -    |
| IP complete unit            |    | -    |
| Min. operating temperature  | °C | -20  |

|                                                   |       |       |
|---------------------------------------------------|-------|-------|
| Rated current                                     | A     | 4.2   |
| Rated speed                                       | 1/min | 1450  |
| Max. static efficiency                            | %     | 65.1  |
| Max. total efficiency                             | %     | 70    |
| Max. allowed frequency (3" motors)                | Hz    | 60    |
| Max. allowed RPM (EC-motors)                      | 1/min | -     |
| Max. power consumption                            | W     | 3377  |
| Max. current consumption                          | A     | 6.1   |
| Max. rotation speed                               | 1/min | 1600  |
| Max. air flow                                     | m³/h  | 16250 |
| Min. pressure                                     | Pa    | -     |
| Max. pressure                                     | Pa    | 990   |
| Max. allowed ambient temperature at rated current | °C    | 60    |
| Max. allowed medium temperature at rated current  | °C    | 60    |
| Max. allowed ambient temperature                  | °C    | 60    |
| Max. allowed medium temperature                   | °C    | 60    |
| Blocking current                                  | A     | -     |
| Min. allowed voltage                              | V     | -     |
| Weight                                            | kg    | 49,5  |

| Sound Measurement (Octave) |                  |       | Σ | 63 Hz | 125 Hz | 250 Hz | 500 Hz | 1k Hz | 2k Hz | 4k Hz | 8k Hz |    |
|----------------------------|------------------|-------|---|-------|--------|--------|--------|-------|-------|-------|-------|----|
| SWL inlet                  | L <sub>WA5</sub> | dB(A) | 1 | 94    | 66     | 80     | 85     | 89    | 89    | 87    | 81    | 73 |
|                            |                  |       | 2 | 90    | 64     | 76     | 81     | 86    | 85    | 83    | 76    | 67 |
|                            |                  |       | 3 | 85    | 42     | 65     | 74     | 80    | 80    | 77    | 74    | 63 |
|                            |                  |       | 4 | 88    | 43     | 69     | 77     | 82    | 82    | 80    | 79    | 73 |
|                            |                  |       | 5 | 91    | 46     | 72     | 80     | 85    | 85    | 83    | 81    | 75 |
| SWL outlet                 | L <sub>WA6</sub> | dB(A) | 1 | 97    | 67     | 82     | 88     | 93    | 92    | 90    | 84    | 75 |
|                            |                  |       | 2 | 94    | 67     | 79     | 85     | 90    | 89    | 86    | 79    | 69 |
|                            |                  |       | 3 | 89    | 45     | 68     | 77     | 85    | 83    | 79    | 75    | 64 |
|                            |                  |       | 4 | 91    | 45     | 69     | 79     | 87    | 85    | 82    | 79    | 70 |
|                            |                  |       | 5 | 95    | 49     | 74     | 83     | 90    | 89    | 86    | 82    | 75 |
| SWL housing break out      | L <sub>WA2</sub> | dB(A) | 1 | 85    | 65     | 69     | 74     | 82    | 79    | 77    | 68    | 61 |
|                            |                  |       | 2 | 82    | 67     | 66     | 71     | 80    | 74    | 71    | 62    | 55 |
|                            |                  |       | 3 | 77    | 45     | 56     | 66     | 73    | 72    | 67    | 62    | 51 |
|                            |                  |       | 4 | 79    | 44     | 58     | 68     | 76    | 74    | 70    | 66    | 56 |
|                            |                  |       | 5 | 83    | 48     | 63     | 72     | 79    | 77    | 74    | 69    | 63 |