

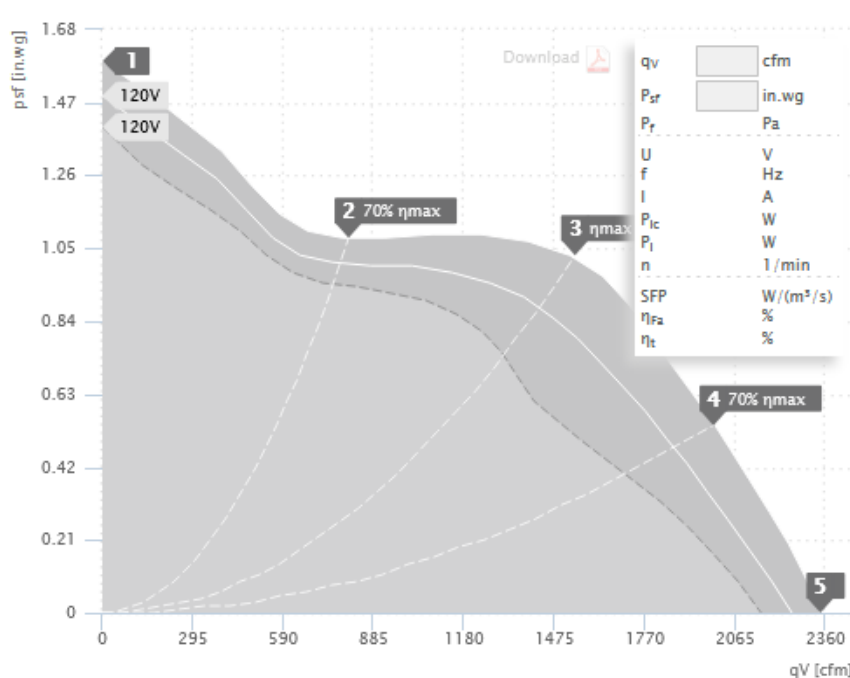
# 16" Prime Evo | 147770



Price available upon request

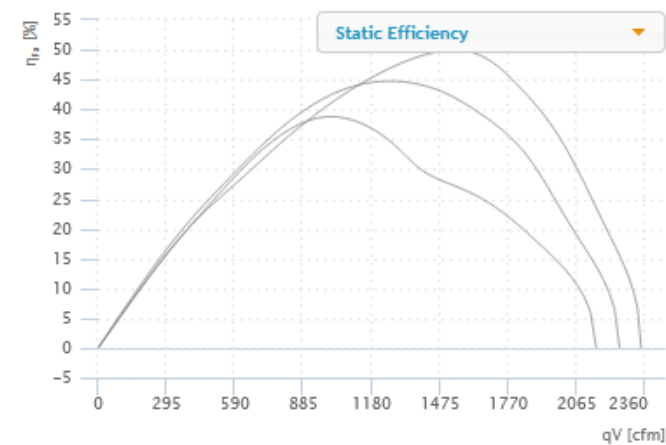
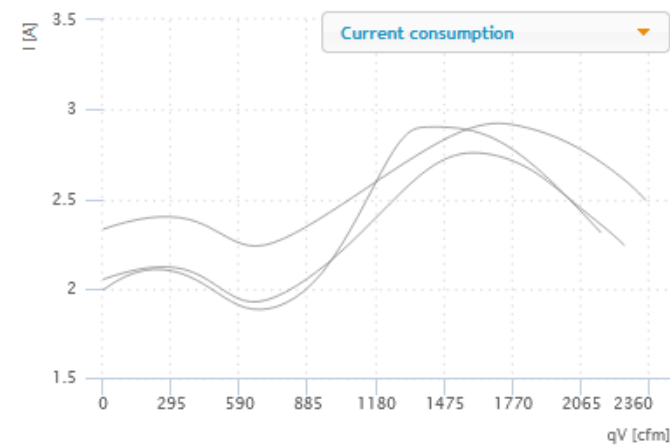
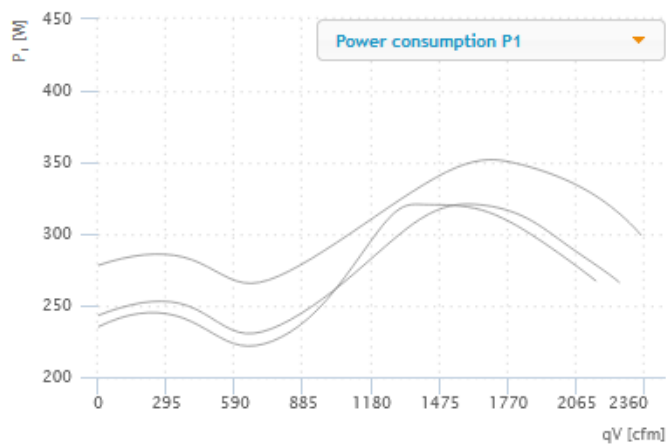
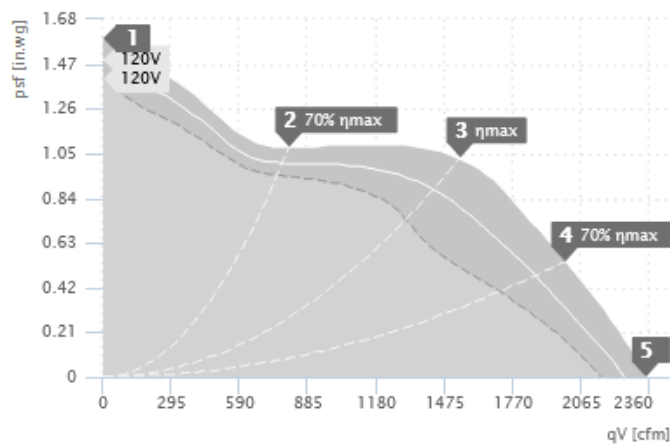
- Mixed flow fan with high efficiency rates
- Best aerodynamic design
- 3D shaped impeller blades
- Corrosion resistant plastic housing
- Integrated 3-speed switch
- One-phase AC motor
- Including mounting bracket

| 16" Prime Evo   60 Hz             |          |
|-----------------------------------|----------|
| Voltage $U_N$                     | 120 V 1~ |
| Current $I_{max}$                 | 3.1 A    |
| Ambient temperature $t_A$         | 60 °C    |
| Conveyed medium temperature $t_M$ | 60 °C    |
| Speed Control                     | 3-2-1    |
| Motor protection                  | TAI      |
| Insulation class motor            | F        |
| Weight                            | 17,8 kg  |
| Number of poles                   | 4        |
| IP motor                          | IP00     |
| IP terminal box                   | -        |
| Min. operating temperature        | -25 °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     | 2.3  | 2.3  | 2.9  | 2.8  | 2.5  |
| Power consumption $P_1$         | W     | 278  | 272  | 346  | 339  | 299  |
| Rotation speed $n$              | 1/min | 1721 | 1723 | 1692 | 1696 | 1715 |
| SWL inlet $L_{WA5}$             | dB(A) | 79   | 75   | 76   | 74   | 75   |
| SWL outlet $L_{WA6}$            | dB(A) | 82   | 78   | 76   | 76   | 78   |
| SWL housing break out $L_{WA2}$ | dB(A) | 66   | 64   | 65   | 63   | 64   |



|                                 |    |       |                                                   |  |       |      |
|---------------------------------|----|-------|---------------------------------------------------|--|-------|------|
| Type 16" Prime Evo<br>ID 147770 |    |       | Rated current                                     |  | A     | 2.9  |
|                                 |    |       | Rated speed                                       |  | 1/min | 1690 |
| Connection data entire unit     |    |       | Max. static efficiency                            |  | %     | 49.3 |
| Rated frequency                 | Hz | 60    | Max. total efficiency                             |  | %     | 53.1 |
| Rated voltage                   | V  | 120   | Max. allowed frequency (3" motors)                |  | Hz    | -    |
| Rated power                     | W  | 350   | Max. allowed RPM (EC-motors)                      |  | 1/min | -    |
| Max. operating current          | A  | 3.1   | Max. power consumption                            |  | W     | 350  |
| Phase                           |    | 1~    | Max. current consumption                          |  | A     | 3.1  |
| Motor Type                      |    | 1~    | Max. rotation speed                               |  | 1/min | 1730 |
| Type of motor control           |    | 3-2-1 | Max. air flow                                     |  | m³/h  | 3980 |
| Motor protection                |    | TAI   | Min. pressure                                     |  | Pa    | -    |
| Capacitor µ                     | µF | 25    | Max. pressure                                     |  | Pa    | 400  |
| Capacitor voltage               | V  | 250   | Max. allowed ambient temperature at rated current |  | °C    | 60   |
| Insulation class motor          |    | F     | Max. allowed medium temperature at rated current  |  | °C    | 60   |
| Number of poles                 |    | 4     | Max. allowed ambient temperature                  |  | °C    | 60   |
| IP motor                        |    | IP00  | Max. allowed medium temperature                   |  | °C    | 60   |
| IP terminal box                 |    | -     | Blocking current                                  |  | A     | -    |
| IP complete unit                |    | -     | Min. allowed voltage                              |  | V     | -    |
| Min. operating temperature      | °C | -25   | Weight                                            |  | kg    | 17,8 |

| 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 | 79    | 54     | 64     | 67     | 73    | 74    | 72    | 67    | 59 |
|                            |                  |       | 2 | 75    | 55     | 60     | 64     | 70    | 70    | 67    | 60    | 50 |
|                            |                  |       | 3 | 76    | 54     | 62     | 66     | 72    | 71    | 68    | 60    | 50 |
|                            |                  |       | 4 | 74    | 33     | 48     | 59     | 67    | 68    | 68    | 66    | 56 |
|                            |                  |       | 5 | 75    | 35     | 47     | 58     | 69    | 70    | 70    | 69    | 58 |
| SWL outlet                 | L <sub>WA6</sub> | dB(A) | 1 | 82    | 54     | 67     | 68     | 78    | 79    | 73    | 67    | 61 |
|                            |                  |       | 2 | 78    | 55     | 61     | 65     | 74    | 75    | 68    | 61    | 52 |
|                            |                  |       | 3 | 76    | 39     | 51     | 62     | 71    | 73    | 68    | 65    | 55 |
|                            |                  |       | 4 | 76    | 34     | 48     | 61     | 70    | 73    | 69    | 67    | 56 |
|                            |                  |       | 5 | 78    | 34     | 48     | 61     | 72    | 74    | 70    | 69    | 58 |
| SWL housing break out      | L <sub>WA2</sub> | dB(A) | 1 | 66    | 53     | 55     | 52     | 59    | 63    | 51    | 44    | 37 |
|                            |                  |       | 2 | 64    | 57     | 52     | 51     | 56    | 62    | 48    | 41    | 30 |
|                            |                  |       | 3 | 65    | 55     | 54     | 53     | 58    | 62    | 48    | 40    | 30 |
|                            |                  |       | 4 | 63    | 34     | 39     | 47     | 52    | 62    | 48    | 42    | 32 |
|                            |                  |       | 5 | 64    | 34     | 40     | 47     | 55    | 63    | 49    | 44    | 33 |