

Ventilatormessung / fan measurement



L I N C O L N

**ROTUNDA**

Contact your Rotunda area Sales Manager  
or your Field Service Engineer

1-800-ROTUNDA [www.OneRotunda.com](http://www.OneRotunda.com)

## H60-115V: FN030-4ED.WC.A7 / 140402/UL2

### Beschreibung / Description

Typ: FN030-4ED.WC.A7 / 140402/UL2

1~ 115V 60Hz P1 0,11kW

0,95A DI=0% 1360rpm 12uF/400V 50°C

Messaufbau / Assembling:

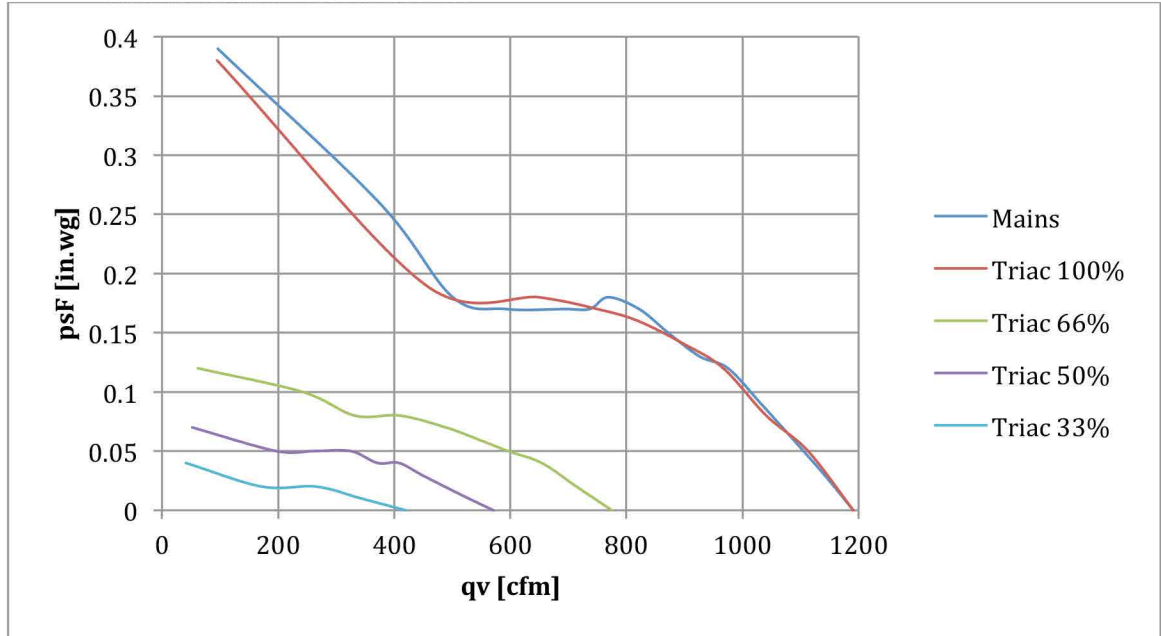
Ventilator montiert in Gehäuse von ZooFan Ventilator 12" mit saugseitigem Berührschutzgitter.

Fan measured in housing of ZooFan 12" with guard grille on suction side.

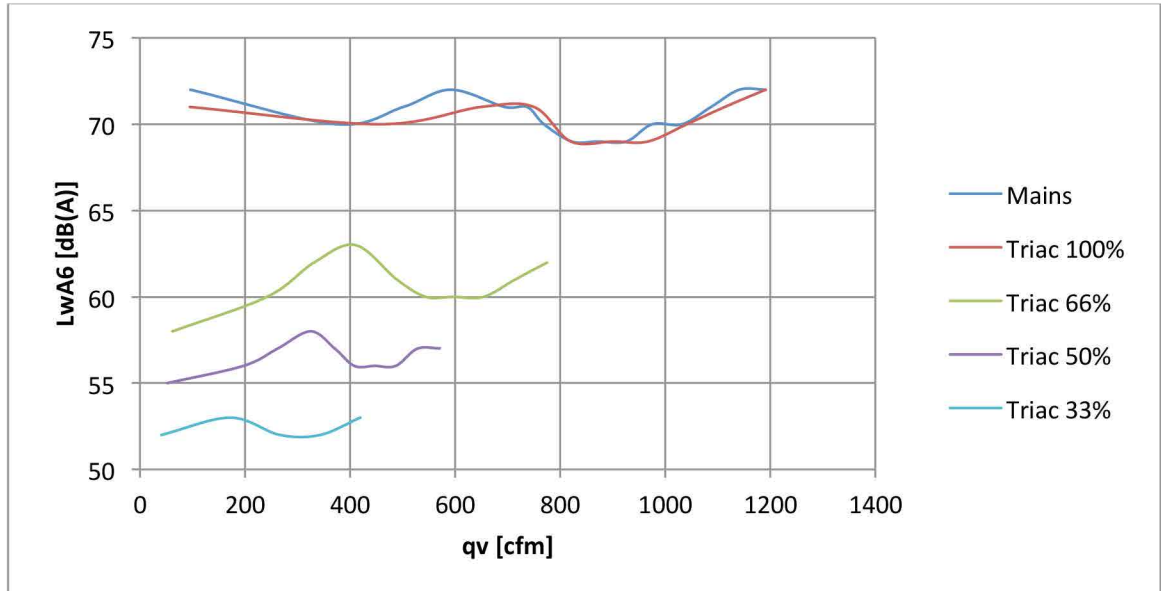
Messung am Netz und KB Electronics Phasenschnittsteuerung KBWC-15K (mit Diode P6KE200CA).

Measured on the mains and KB Electronics triac phase ctrl KBWC-15K (diode P6KE200CA integrated).

- Diagramm / Chart :Volumenstrom - Druckerhöhung - elektr. Leistungsaufnahme / air flow - Pressure - Electr. Power Input  
Airflow tests in accordance with DIN 24166 Class I



- Diagramm / Chart : Volumenstrom - Akustik / air flow - Acoustics  
Noise tests in accordance with DIN 3745 Class I



## H60-115V: FN030-4ED.WC.A7 / 140402/UL2

### Beschreibung / Description

Typ: FN030-4ED.WC.A7 / 140402/UL2

1~ 115V 60Hz P1 0,11kW

0,95A DI=0% 1360rpm 12uF/400V 50°C

Messaufbau / Assembling:

Ventilator montiert in Gehäuse von ZooFan Ventilator 12" mit saugseitigem Berührschutzgitter.

Fan measured in housing of ZooFan 12" with guard grille on suction side.

Messung am Netz und KB Electronics Phasenschnittsteuerung KBWC-15K (mit Diode P6KE200CA).

Measured on the mains and KB Electronics triac phase ctrl KBWC-15K (diode P6KE200CA integrated).

### 3. Datentabelle / Data table

| Pos.       | qv<br>[CFM] | psF<br>[in.wg] | P1<br>[W] | LwA5<br>[dB(A)] | LwA6<br>[dB(A)] | N<br>[rpm] |
|------------|-------------|----------------|-----------|-----------------|-----------------|------------|
| Mains      | >>>>>>      | >>>>>>         | >>>>>     | >>>>>           | >>>>>           | >>>>>      |
| 1          | 1191        | 0.00           | 106       | 71              | 72              | 1456       |
| 2          | 1141        | 0.03           | 106       | 71              | 72              | 1444       |
| 3          | 1087        | 0.06           | 107       | 71              | 71              | 1430       |
| 4          | 1032        | 0.09           | 108       | 70              | 70              | 1422       |
| 5          | 975         | 0.12           | 108       | 69              | 70              | 1416       |
| 6          | 926         | 0.13           | 108       | 68              | 69              | 1415       |
| 7          | 872         | 0.15           | 108       | 68              | 69              | 1415       |
| 8          | 822         | 0.17           | 108       | 68              | 69              | 1419       |
| 9          | 769         | 0.18           | 107       | 69              | 70              | 1439       |
| 10         | 737         | 0.17           | 106       | 70              | 71              | 1454       |
| 11         | 694         | 0.17           | 105       | 70              | 71              | 1456       |
| 12         | 592         | 0.17           | 103       | 71              | 72              | 1505       |
| 13         | 501         | 0.18           | 105       | 71              | 71              | 1479       |
| 14         | 374         | 0.26           | 108       | 71              | 70              | 1421       |
| 15         | 96          | 0.39           | 116       | 72              | 72              | 1256       |
| Triac 100% | >>>>>       | >>>>>          | >>>>>     | >>>>>           | >>>>>           | >>>>>      |
| 1          | 1191        | 0.00           | 104       | 71              | 72              | 1446       |
| 2          | 1113        | 0.05           | 105       | 70              | 71              | 1426       |
| 3          | 1041        | 0.08           | 106       | 69              | 70              | 1413       |
| 4          | 967         | 0.12           | 107       | 68              | 69              | 1405       |
| 5          | 901         | 0.14           | 106       | 68              | 69              | 1401       |
| 6          | 820         | 0.16           | 106       | 68              | 69              | 1408       |
| 7          | 750         | 0.17           | 105       | 69              | 71              | 1434       |
| 8          | 649         | 0.18           | 103       | 70              | 71              | 1461       |
| 9          | 455         | 0.19           | 104       | 71              | 70              | 1459       |
| 10         | 95          | 0.38           | 113       | 72              | 71              | 1240       |
| Triac 66%  | >>>>>       | >>>>>          | >>>>>     | >>>>>           | >>>>>           | >>>>>      |
| 1          | 775         | 0.00           | 50        | 62              | 62              | 950        |
| 2          | 714         | 0.02           | 50        | 62              | 61              | 930        |
| 3          | 654         | 0.04           | 50        | 62              | 60              | 905        |
| 4          | 596         | 0.05           | 50        | 61              | 60              | 896        |
| 5          | 544         | 0.06           | 50        | 61              | 60              | 897        |
| 6          | 489         | 0.07           | 51        | 62              | 61              | 959        |
| 7          | 410         | 0.08           | 51        | 63              | 62              | 1061       |
| 8          | 332         | 0.08           | 51        | 63              | 62              | 1005       |
| 9          | 242         | 0.10           | 50        | 61              | 60              | 905        |
| 10         | 62          | 0.12           | 48        | 60              | 58              | 719        |
| Triac 50%  | >>>>>       | >>>>>          | >>>>>     | >>>>>           | >>>>>           | >>>>>      |
| 1          | 571         | 0.00           | 34        | 59              | 57              | 721        |
| 2          | 528         | 0.01           | 34        | 59              | 57              | 700        |
| 3          | 487         | 0.02           | 33        | 59              | 56              | 687        |
| 4          | 447         | 0.03           | 33        | 58              | 56              | 684        |
| 5          | 408         | 0.04           | 34        | 59              | 56              | 688        |
| 6          | 371         | 0.04           | 34        | 59              | 57              | 739        |
| 7          | 325         | 0.05           | 34        | 60              | 58              | 809        |
| 8          | 262         | 0.05           | 34        | 60              | 57              | 765        |
| 9          | 197         | 0.05           | 34        | 59              | 56              | 708        |
| 10         | 52          | 0.07           | 33        | 57              | 55              | 553        |
| Triac 33%  | >>>>>       | >>>>>          | >>>>>     | >>>>>           | >>>>>           | >>>>>      |
| 1          | 420         | 0.00           | 22        | 56              | 53              | 535        |
| 2          | 343         | 0.01           | 22        | 55              | 52              | 513        |
| 3          | 266         | 0.02           | 22        | 56              | 52              | 565        |
| 4          | 172         | 0.02           | 22        | 56              | 53              | 554        |
| 5          | 41          | 0.04           | 22        | 56              | 52              | 418        |

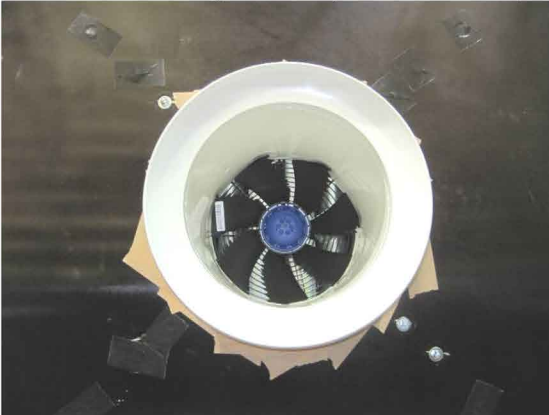
| Hanging Height | dBA  |
|----------------|------|
| 40 Ft          | 42.3 |
| 50 Ft          | 40.4 |
| 60 Ft          | 38.8 |

## H60-115V: FN030-4ED.WC.A7 / 140402/UL2

4. Bilder vom Aufbau / photos of the set-up  
FN030-4ED.WC.A7 in housing of ZooFan 12" (Saugseite / Suction side)



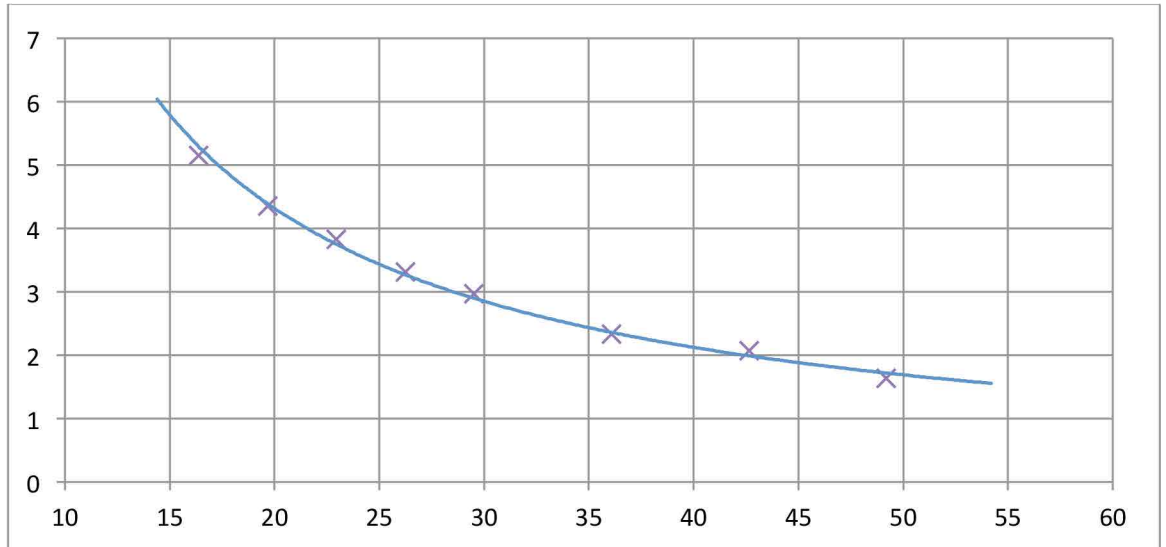
FN030-4ED.WC.A7 in housing of ZooFan 12" (Druckseite / Pressure side)



Set-up of throwing range measurements of FN025-4ED.W8.A7



5. Throwing range of FN030-4ED.WC.A7 / 140402/UL2 at 1351 rpm (ca. 1100 cfm)



| Distance from fan [ft] | Air speed [ft/s] |
|------------------------|------------------|
| 16.40                  | 5.15             |
| 19.68                  | 4.35             |
| 22.96                  | 3.83             |
| 26.24                  | 3.31             |
| 29.52                  | 2.97             |
| 36.08                  | 2.33             |
| 42.64                  | 2.07             |
| 49.20                  | 1.64             |