

Wirtschaftlichkeitsbetrachtung Lüftungstechnik

lüftung0800y

Eingangswerte:

|                    |           |
|--------------------|-----------|
| Herstellungskosten | 227.000 € |
| Eigenkapital       | 189.000 € |
| Fremdkapital       | 38.000 €  |
| Zinssatz FK        | 4,50000 % |
| Tilgung            | 3,18760 % |

Anlage 1

|                               |
|-------------------------------|
| Energiepreisanstieg 4% p.a.   |
| Betriebskostenanstieg 2% p.a. |
| Kapitalverzinsung 4,5 %       |

| Jahr | Darlehensabwicklung |      |        |         |          |          | Liquiditätsbetrachtung |                 |                 |                        | Wirtschaftlichkeitsberechnung |           |              |           |                        |                        |                    |                          |                   |                             |
|------|---------------------|------|--------|---------|----------|----------|------------------------|-----------------|-----------------|------------------------|-------------------------------|-----------|--------------|-----------|------------------------|------------------------|--------------------|--------------------------|-------------------|-----------------------------|
|      | HK = Darl.          | Zins | Zinsen | Tilgung | Annuität | Darlehen | Ausz. Zinsen           | Betrieb-kosten- | Energie-kosten- | Liquiditäts-überschuss | Anlagen-buchwert              | kalk. AfA | kalk. Zinsen | Kap.Kost. | Betrieb-kosten-senkung | Energie-kosten-senkung | Kosten-senkung p.a | Kosten-senkung kumuliert | Betriebs-ergebnis | Betriebs-ergebnis kumuliert |
|      | EUR                 | %    | EUR    | EUR     | EUR      | EUR      | EUR                    | EUR             | EUR             | EUR                    | EUR                           | EUR       | EUR          | EUR       | EUR                    | EUR                    | EUR                | EUR                      | EUR               | EUR                         |
| 1    | 38.000              | 4,5  | 1.710  | 1.211   | 2.921    | 36.789   | 2.921                  | 450             | 18.420          | 15.049                 | 227.000                       | 9.080     | 10.215       | 19.295    | 450                    | 18.420                 | 18.870             | 18.870                   | -425              | -425                        |
| 2    | 36.789              | 4,5  | 1.655  | 1.266   | 2.921    | 35.523   | 2.921                  | 459             | 19.157          | 15.777                 | 217.920                       | 9.080     | 9.806        | 18.886    | 459                    | 19.157                 | 19.616             | 38.486                   | 729               | 304                         |
| 3    | 35.523              | 4,5  | 1.599  | 1.323   | 2.921    | 34.200   | 2.921                  | 468             | 19.923          | 16.534                 | 208.840                       | 9.080     | 9.398        | 18.478    | 468                    | 19.923                 | 20.391             | 58.877                   | 1.913             | 2.218                       |
| 4    | 34.200              | 4,5  | 1.539  | 1.382   | 2.921    | 32.818   | 2.921                  | 478             | 20.720          | 17.321                 | 199.760                       | 9.080     | 8.989        | 18.069    | 478                    | 20.720                 | 21.198             | 80.075                   | 3.128             | 5.346                       |
| 5    | 32.818              | 4,5  | 1.477  | 1.444   | 2.921    | 31.373   | 2.921                  | 487             | 21.549          | 18.140                 | 190.680                       | 9.080     | 8.581        | 17.661    | 487                    | 21.549                 | 22.036             | 102.110                  | 4.375             | 9.721                       |
| 6    | 31.373              | 4,5  | 1.412  | 1.509   | 2.921    | 29.864   | 2.921                  | 497             | 22.411          | 18.993                 | 181.600                       | 9.080     | 8.172        | 17.252    | 497                    | 22.411                 | 22.908             | 125.018                  | 5.656             | 15.377                      |
| 7    | 29.864              | 4,5  | 1.344  | 1.577   | 2.921    | 28.286   | 2.921                  | 507             | 23.307          | 19.879                 | 172.520                       | 9.080     | 7.763        | 16.843    | 507                    | 23.307                 | 23.814             | 148.832                  | 6.971             | 22.348                      |
| 8    | 28.286              | 4,5  | 1.273  | 1.648   | 2.921    | 26.638   | 2.921                  | 517             | 24.239          | 20.801                 | 163.440                       | 9.080     | 7.355        | 16.435    | 517                    | 24.239                 | 24.756             | 173.588                  | 8.322             | 30.669                      |
| 9    | 26.638              | 4,5  | 1.199  | 1.723   | 2.921    | 24.916   | 2.921                  | 527             | 25.209          | 21.761                 | 154.360                       | 9.080     | 6.946        | 16.026    | 527                    | 25.209                 | 25.736             | 199.325                  | 9.710             | 40.379                      |
| 10   | 24.916              | 4,5  | 1.121  | 1.800   | 2.921    | 23.115   | 2.921                  | 538             | 26.217          | 22.758                 | 145.280                       | 9.080     | 6.538        | 15.618    | 538                    | 26.217                 | 26.755             | 226.080                  | 11.138            | 51.517                      |
| 11   | 23.115              | 4,5  | 1.040  | 1.881   | 2.921    | 21.234   | 2.921                  | 549             | 27.266          | 23.796                 | 136.200                       | 9.080     | 6.129        | 15.209    | 549                    | 27.266                 | 27.815             | 253.895                  | 12.606            | 64.123                      |
| 12   | 21.234              | 4,5  | 956    | 1.966   | 2.921    | 19.269   | 2.921                  | 560             | 28.357          | 24.876                 | 127.120                       | 9.080     | 5.720        | 14.800    | 560                    | 28.357                 | 28.916             | 282.811                  | 14.116            | 78.238                      |
| 13   | 19.269              | 4,5  | 867    | 2.054   | 2.921    | 17.214   | 2.921                  | 571             | 29.491          | 25.999                 | 118.040                       | 9.080     | 5.312        | 14.392    | 571                    | 29.491                 | 30.062             | 312.872                  | 15.670            | 93.908                      |
| 14   | 17.214              | 4,5  | 775    | 2.147   | 2.921    | 15.068   | 2.921                  | 582             | 30.671          | 27.167                 | 108.960                       | 9.080     | 4.903        | 13.983    | 582                    | 30.671                 | 31.253             | 344.125                  | 17.270            | 111.178                     |
| 15   | 15.068              | 4,5  | 678    | 2.243   | 2.921    | 12.825   | 2.921                  | 594             | 31.897          | 28.382                 | 99.880                        | 9.080     | 4.495        | 13.575    | 594                    | 31.897                 | 32.491             | 376.617                  | 18.917            | 130.095                     |
| 16   | 12.825              | 4,5  | 577    | 2.344   | 2.921    | 10.480   | 2.921                  | 606             | 33.173          | 29.646                 | 90.800                        | 9.080     | 4.086        | 13.166    | 606                    | 33.173                 | 33.779             | 410.396                  | 20.613            | 150.708                     |
| 17   | 10.480              | 4,5  | 472    | 2.450   | 2.921    | 8.031    | 2.921                  | 618             | 34.500          | 30.961                 | 81.720                        | 9.080     | 3.677        | 12.757    | 618                    | 34.500                 | 35.118             | 445.514                  | 22.361            | 173.068                     |
| 18   | 8.031               | 4,5  | 361    | 2.560   | 2.921    | 5.471    | 2.921                  | 630             | 35.880          | 32.329                 | 72.640                        | 9.080     | 3.269        | 12.349    | 630                    | 35.880                 | 36.510             | 482.024                  | 24.162            | 197.230                     |
| 19   | 5.471               | 4,5  | 246    | 2.675   | 2.921    | 2.796    | 2.921                  | 643             | 37.316          | 33.752                 | 63.560                        | 9.080     | 2.860        | 11.940    | 643                    | 37.316                 | 37.958             | 519.982                  | 26.018            | 223.248                     |
| 20   | 2.796               | 4,5  | 126    | 2.795   | 2.921    | 0        | 2.921                  | 656             | 38.808          | 35.231                 | 54.480                        | 9.080     | 2.452        | 11.532    | 656                    | 38.808                 | 39.464             | 559.446                  | 27.932            | 251.180                     |
| 21   |                     |      |        |         |          |          |                        | 669             | 40.360          | 39.692                 | 45.400                        | 9.080     | 2.043        | 11.123    | 669                    | 40.360                 | 41.029             | 600.475                  | 29.906            | 281.086                     |
| 22   |                     |      |        |         |          |          |                        | 682             | 41.975          | 41.293                 | 36.320                        | 9.080     | 1.634        | 10.714    | 682                    | 41.975                 | 42.657             | 643.132                  | 31.943            | 313.029                     |
| 23   |                     |      |        |         |          |          |                        | 696             | 43.654          | 42.958                 | 27.240                        | 9.080     | 1.226        | 10.306    | 696                    | 43.654                 | 44.350             | 687.482                  | 34.044            | 347.073                     |
| 24   |                     |      |        |         |          |          |                        | 710             | 45.400          | 44.690                 | 18.160                        | 9.080     | 817          | 9.897     | 710                    | 45.400                 | 46.110             | 733.591                  | 36.212            | 383.285                     |
| 25   |                     |      |        |         |          |          |                        | 724             | 47.216          | 46.492                 | 9.080                         | 9.080     | 409          | 9.489     | 724                    | 47.216                 | 47.940             | 781.531                  | 38.451            | 421.736                     |
|      |                     |      | 20.426 | 38.000  | 58.426   |          | 58.426                 | 14.414          | 767.118         | 694.278                |                               | 227.000   | 132.795      | 359.795   | 14.414                 | 767.118                | 781.531            |                          | 421.736           |                             |