

Elektrot



**HIGH-
EFFICIENCY
MOTORS
BY ELEKTROT**

Low Pressure
Blowers

ND

Medium Pressure
Blowers

RD

High Pressure
Blowers

HRD



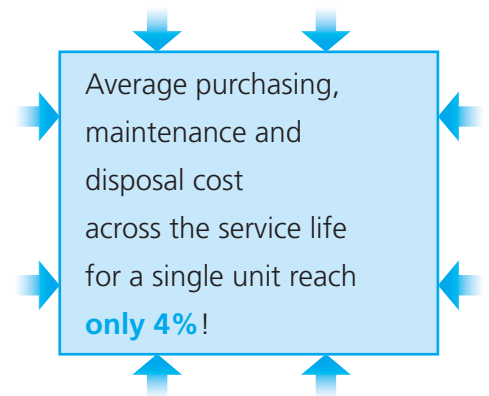
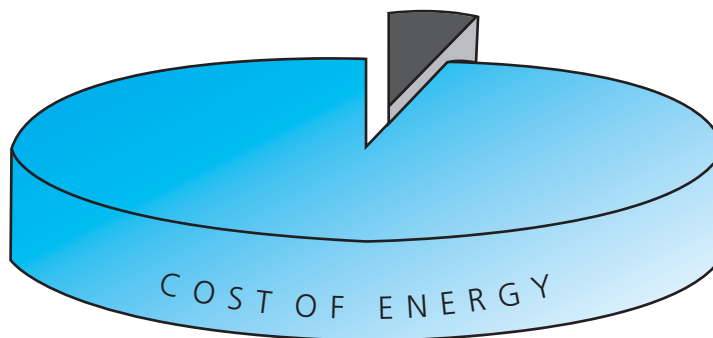
ENERGY-EFFICIENT MOTORS

Electrical energy is largely generated by combustion of fossil energy resources. The resulting CO₂ emission contributes to the climate change driven by the greenhouse effect, with detrimental effects on humans and the environment. Improve your cost and environmental balance by application of energy-efficient motors - see for yourself; it is almost always worth the while!

ENERGY-EFFICIENT MOTORS - YOUR ADVANTAGES

- ▶ Lower energy consumption and thus lower yearly energy cost.
- ▶ Highly economic, since the added cost of the more efficient drives is amortized within 2 to 3 years
- ▶ Enhanced service life of motors due to lower thermal strain
- ▶ Reduced downtime and maintenance cost for your systems
- ▶ Lower temperature rise in the motor results in reduced dissipation of loss to the environment
- ▶ The optimised integrated cooling substantially reduces noise emission
- ▶ Improved toleration of overload
- ▶ Higher resistance to abnormal operating conditions (e. g. too high or too low supply voltage)
- ▶ Simplified power supply design for your systems due to reduced power consumption

COST DISTRIBUTION FOR A UNIT ACROSS ITS SERVICE LIFE



**THE EFFICIENT WAY TO
SAVE COSTS -BLOWERS
WITH ENERGY-EFFICIENT
MOTORS BY ELEKTOR**





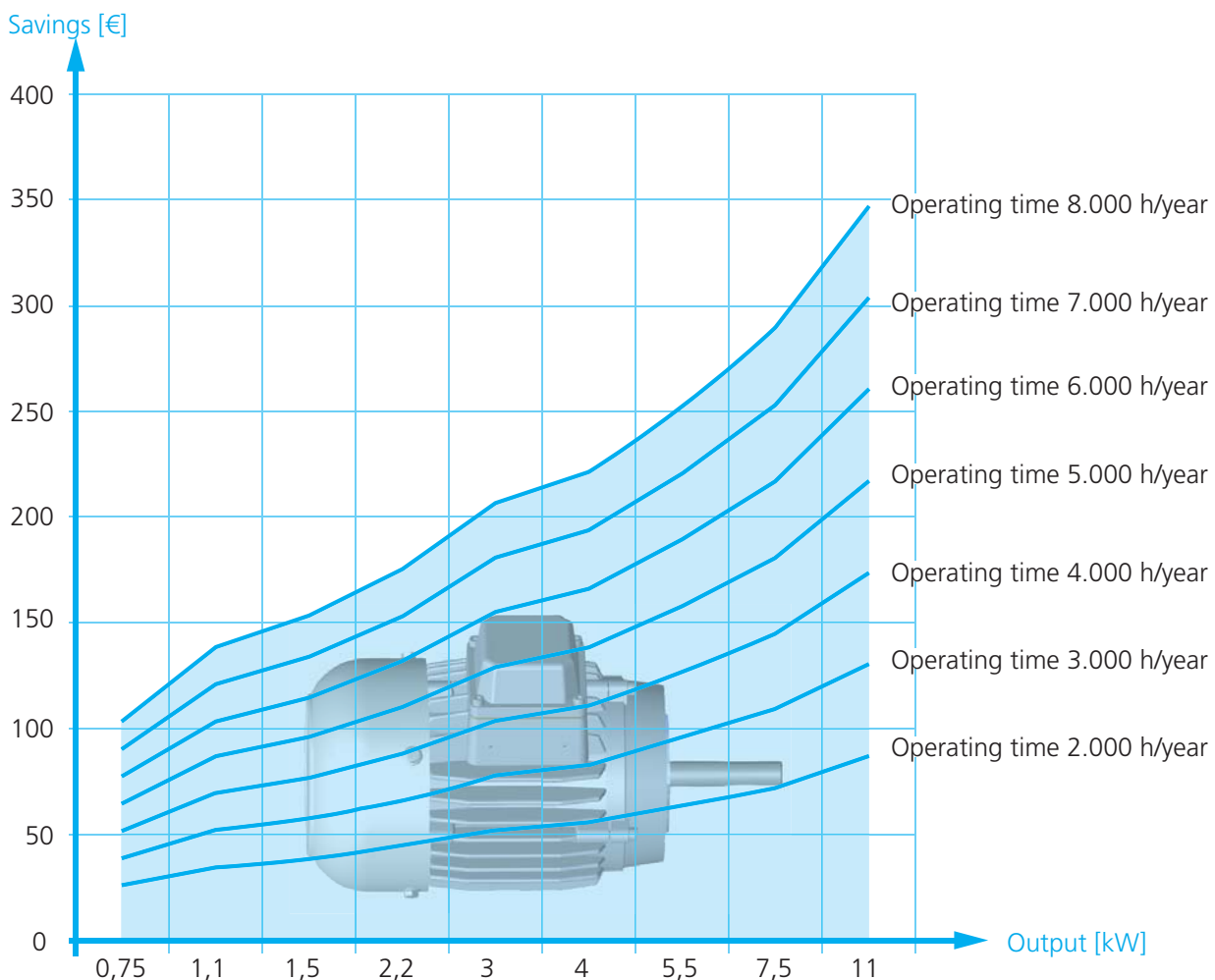
WHERE IS YOUR LARGEST COST SAVING POTENTIAL? SEE FOR YOURSELF!

- Are you involved in an industry that has a high demand for energy?
- Are your motors currently running for a high number of operating hours?
- Are you using drives which frequently operate in the partial load range only?
- Do you wish to reduce the cost of energy for your system(s)?
- Are you paying for blind load with your electricity bill?



SAVINGS IN ENERGY COST DUE TO ENERGY-EFFICIENT MOTORS

Assumption: Cost of energy 0.15 Ct/kWh





ENERGY-EFFICIENT MOTORS - PRODUCT RANGE

HIGH-EFFICIENCY MOTORS FROM ELEKTOR LOW PRESSURE BLOWERS



Type	Volumetric flow rate [m ³ /min]	Pressure [Pa]	Voltage [V]	Frequency [Hz]	Current consumption [A]	Motor rating [kW]	Number of revolutions [min ⁻¹]	Weight [kg]
D 064	27	1050	230/400	50	4,40/2,55	1,1	2915	17,3
D 066	38	1200	230/400	50	5,35/3,10	1,5	2905	20,8
D 07	41	1200	230/400	50	7,45/4,30	2,2	2870	23,3
D 072	52	1200	230/400	50	9,95/5,75	3,0	2900	27,8
D 08	50	1700	230/400	50	9,95/5,75	3,0	2900	32,8
D 082	60	1700	230/400	50	9,95/5,75	3,0	2900	34,8
D 09	80	1900	400	50	10,3	5,5	2945	71
D 092	95	1900	400	50	14,4	7,5	2960	84,6

HIGH-EFFICIENCY MOTORS FROM ELEKTOR MEDIUM PRESSURE BLOWERS



Type	Volumetric flow rate [m ³ /min]	Pressure [Pa]	Voltage [V]	Frequency [Hz]	Current consumption [A]	Motor rating [kW]	Number of revolutions [min ⁻¹]	Weight [kg]
RD 6	21	2500	230/400	50	3,00/1,73	0,75	2890	25,4
RD 62	27,5	3000	230/400	50	4,40/2,55	1,1	2915	35,4
RD 64	35	3100	230/400	50	5,35/3,10	1,5	2905	38,7
RD 65	45	2300	230/400	50	7,45/4,30	2,2	2870	43,3
RD 7	50	3600	230/400	50	7,45/4,30	2,2	2870	45,3
RD 72	42,5	3500	230/400	50	9,95/5,75	3	2900	51,3
RD 74	60,5	3500	400	50	7,8	4	2935	64,2
RD 8	55	5200	400	50	10,3	5,5	2945	100
RD 82	88	5200	400	50	14,4	7,5	2960	119,6
RD 84	90	6800	400	50	19,9	11	2920	127
RD 92	125	8300	400	50	26,5	15	2945	168
RD 94	125	9600	400	50	38,5	22	2950	208



HIGH-EFFICIENCY MOTORS FROM ELEKTOR HIGH PRESSURE BLOWERS



Type	Volumetric flow rate [m³/min]	Pressure [Pa]	Voltage [V]	Frequency [Hz]	Current consumption [A]	Motor rating [kW]	Number of revolutions [min⁻¹]	Weight [kg]
HRD 1/4T	9,5	4200	230/400	50	3,00/1,73	0,75	2890	22,0
HRD 1/5T	10,5	5100	230/400	50	4,40/2,55	1,1	2915	26,0
HRD 14/2T	18	2600	230/400	50	4,40/2,55	1,1	2915	24,5
HRD 14/3T	18,5	3200	230/400	50	4,40/2,55	1,1	2915	26,5
HRD 14/4T	21,5	3900	230/400	50	5,35/3,10	1,5	2905	29,0
HRD 14/5T	25	4500	230/400	50	7,45/4,30	2,2	2870	30,5
HRD 2/3T	19,5	5600	230/400	50	5,35/3,10	1,5	2905	34,5
HRD 2/4T	17	7700	230/400	50	9,95/5,75	3	2900	40,0
HRD 2/5T	26	8600	230/400	50	9,95/5,75	3	2900	44,0
HRD 60/3	11,5	9700	230/400	50	9,95/5,75	3	2900	59,0
HRD 60/4	20	10150	400	50	7,8	4	2935	72,0
HRD 60/5	38	10150	400	50	10,7	5,5	2905	50,5
HRD 60/7	47	11400	400	50	14,3	7,5	2960	101,0
HRD 65/2	40	3900	230/400	50	7,45/4,30	2,2	2870	64,5
HRD 65/4	52	5900	400	50	7,8	4	2935	78,0
HRD 65/5	56	7500	400	50	10,3	5,5	2945	78,0
HRD 65/7	62	8700	400	50	14,4	7,5	2960	102,5
HRD 7/12	80	10000	400	50	19,9	11	2920	190,0
HRD 7/17	90	13000	400	50	31,5	18,5	2940	158,0
HRD 7/23	96	16400	400	50	38,5	22	2950	208,0

Low pressure, medium pressure and high pressure blowers by Elektor now also available with high-efficiency motors!

Ask our Customer Support under support@elektor.de or visit us on the Internet at www.elektor.de



ENERGY-EFFICIENT MOTORS

FOR THE SAKE OF THE ENVIRONMENT

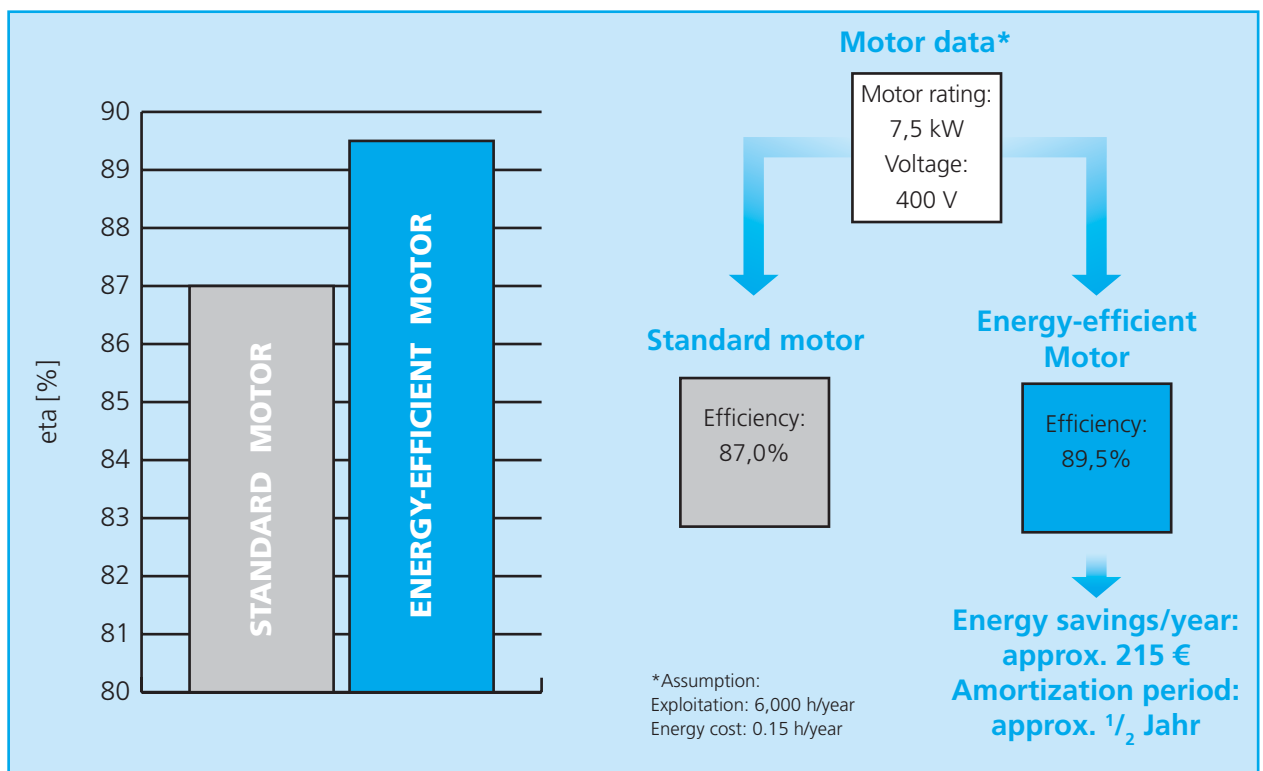
The application of Elektror blowers with high-efficiency motors is a contribution to environmental protection. They consume less energy and thereby help reduce the amount of hazardous emissions caused by power stations. On top of it all, the operating cost will decrease due to lower energy consumption.

**HIGH EFFICIENCY AND
LOWER ENERGY
CONSUMPTION AT THE
SAME TIME**



**BLOWERS WITH
HIGH-EFFICIENCY
MOTORS BY
ELEKTOR!**

COMPARISON OF EFFICIENCY CHARACTERISTICS



APPLICATION OF HIGHER-EFFICIENCY ELECTRIC MOTORS RESULTS IN FINANCIAL ADVANTAGES:

- ◆ Higher efficiency means less power loss resulting in lower operating cost
- ◆ The longer the operating time, the higher the savings
- ◆ Application of high-efficiency motors can pay off after a short time



HIGH-EFFICIENCY UNITS - TAILOR-MADE FOR YOUR APPLICATION!

Smooth cooperation, first class system solutions, economic advantages, trouble-free continuous operation, flexible support and more - these are our strengths.

Our core competency is not just in the manufacture of efficient blowers and motors. We consider the adaptation of the blower specifications to the requirements of your system as the most important step toward efficient application.

At an early stage, we may support you in selecting the best blower to ensure you will gain the maximum energy saving effect.

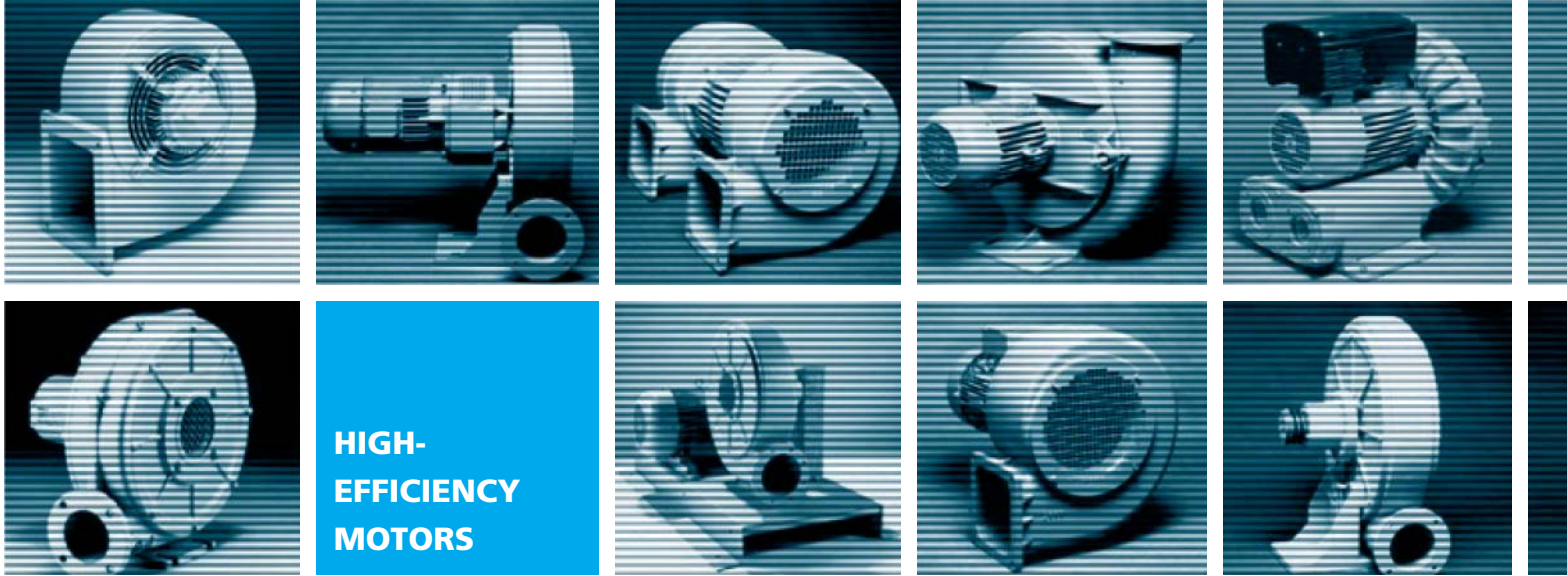
... and what can we do for you?

- ▶ **Consulting: Definition of the exact needs to meet your individual requirements**
Our Customer Support offers professional support in designing your air solution. If needed, the data for the optimum blower to be used in your system may be collected on site.
- ▶ **Design: Product-related fine tuning of units based on your requirements**
The design of the blower must match the required output specifications in your system. Operation of the blower in the partial load range should be avoided. We will help you to find the most fitting and most energy-efficient blower, based on the needs in your air system.
- ▶ **Accessories: Target-oriented advice for selection of accessories**
Accessories must not cause needless power losses in your process. We will check which Elektror accessories fit your system and will supply them with the blower.
- ▶ **Realisation**
Based on the application design we will determine the right solution from our series product range or will create a customised special version.

Do not hesitate, convince yourself! Our Customer Support is pleased to be available at any time.

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Medium Pressure
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High Pressure
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