



Innovative Environmental Protection

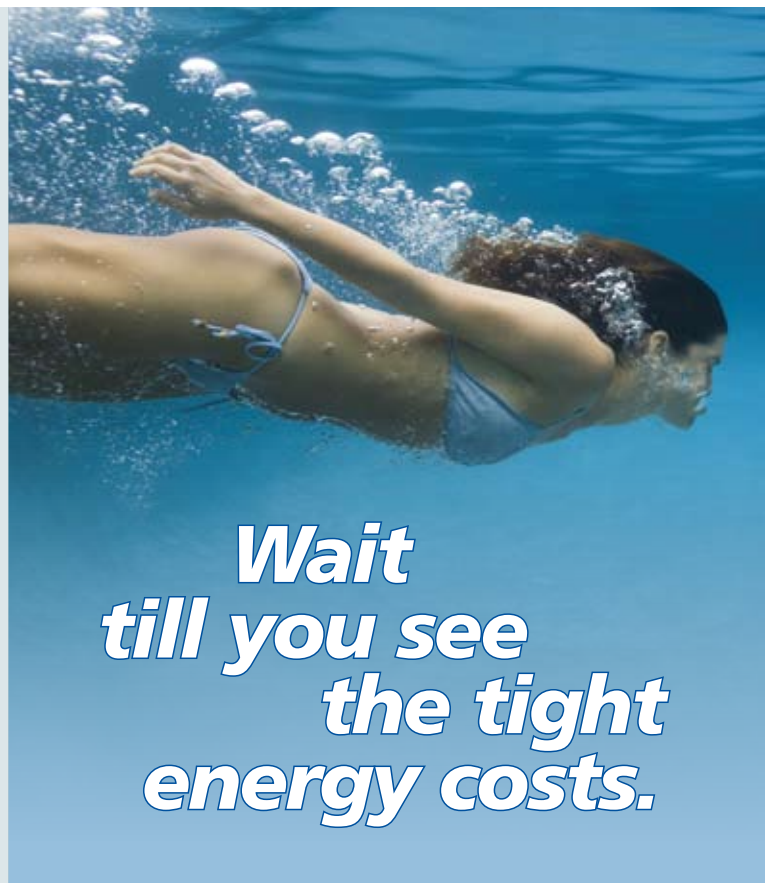
Environmental Protection is everyone's business that's why Piller has invested thousands of research and development hours in the Pillaerator.

The result: a turbo compressor which leaves nothing to be desired. For this achievement, Piller has been awarded as a „Landmark in the Land of Ideas 2009“. Hence, Piller is a part of the event series „365 Landmarks in the Land of Ideas“, an initiative to promote Germany.



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Pillaerator.
Turbo compressor for aeration tanks.



*Wait
till you see
the tight
energy costs.*

The Pillaerator, awarded as a "Landmark in the Land of Ideas".





low-emission



cost-cutting

Everything included,
no extra equipment
necessary

The PillAerator is equipped with any feature right from the start:

- Rotation speed control
- Surge line control
- Programmable logic controller
- Remote diagnosis
- Cooling for drive system
- Noise protection
- Intake filter
- Complete measuring and control technology
- Start-Up and Shutdown relief

Energy-efficient and
maintenance-free:
the PillAerator

With an efficiency of up to 84.5 %, energy costs and CO₂-emissions can be cut tremendously.

Thanks to an innovative magnetic bearing, the PillAerator is more or less maintenance-free and absolutely eco-friendly; only the filter and the coolant must be checked. That can be done by the plant personnel.

Model Calculation

	Positive displacement blower	Turbo Compressor PillAerator
Efficiency	70 %	84 %
Required power for compression	120 kW	120 kW
Required operating efficiency	171 kW	143 kW
Operating hours per day	20 h	20 h
Annual power consumption	1,251,429 kWh	1,043,900 kWh
Incurred energy costs per year (12 Cent/kWh)	150,171 Euro	125,268 Euro
Savings with the PillAerator per year:		24,903 Euro

