

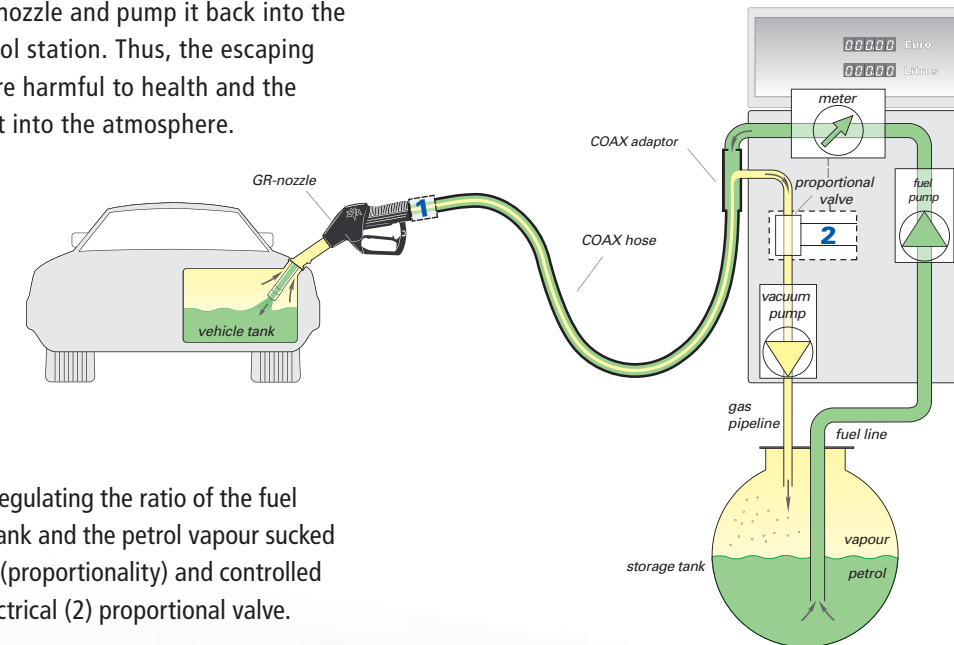
MEX VAPOUR RECOVERY



Vapour recovery Made in Germany

The original from Dürr Technik

In many countries around the world it is compulsory that filling stations be fitted with a vapour recovery system. Since 2009 the EC Directive 2009/126/EC requires the installation of Stage II vapour recovery systems in the petrol pumps. These systems suck off the petrol vapour-air mixture at the filling nozzle and pump it back into the storage tanks of the petrol station. Thus, the escaping petrol vapours - which are harmful to health and the environment - cannot get into the atmosphere.



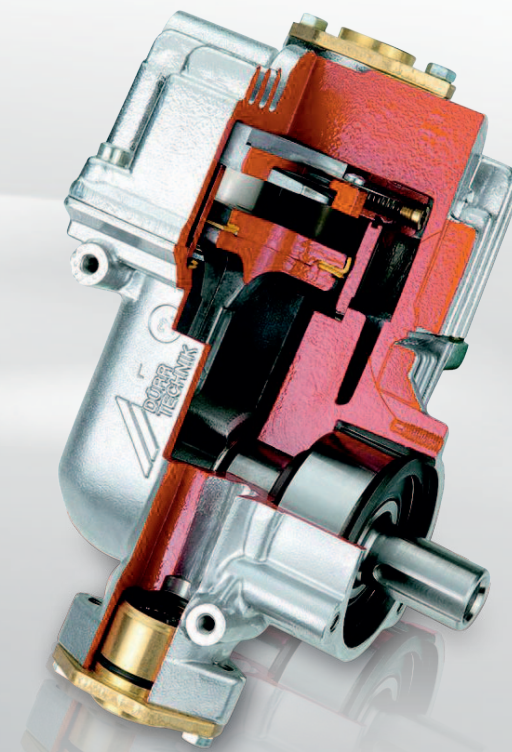
FUNCTIONING

The function is based on regulating the ratio of the fuel pumped into the vehicle tank and the petrol vapour sucked off. This ratio is set to 1:1 (proportionality) and controlled by a mechanical (1) or electrical (2) proportional valve.

Legal requirements and automatic monitoring systems place the highest demands on the reliability of vapour recovery systems. In case of a problem with the vapour recovery the filling station operator is required by law to switch off the petrol pump within a certain limited period of time. In Germany this period is 72 hours.

The key factor for a trouble-free vapour-recovery system is a reliable vapour recovery pump with a constant flow volume.

Since 1994 Dürr Technik has manufactured the MEX piston pump, which was developed especially for vapour recovery. The fact that there are several hundred thousand such pumps in operation all over the world bears witness to their reliability and flexibility.



Belt drive
MEX 0831

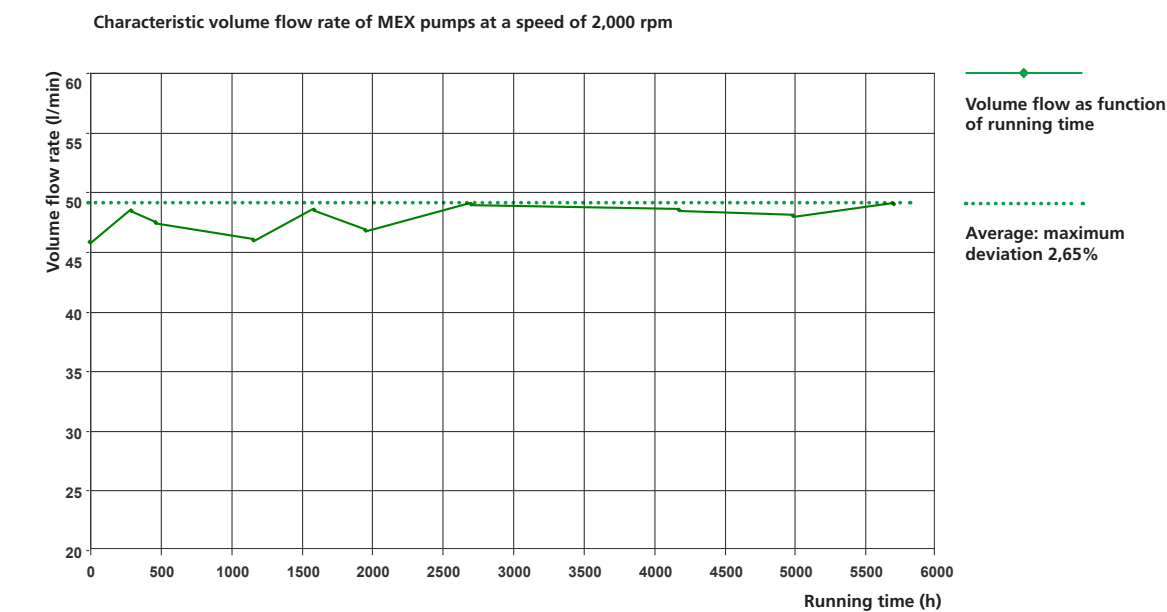
CONVINCING ADVANTAGES

1. Various driving systems

- Belt drive
- Direct drive

2. Reliable and long service life

- Certified according to ATEX, TÜV, QS, PTB and PCEC
- Constant flow volume throughout its entire service life of the vapour recovery pump



3. Robust and flexible

- Condensate resistant thanks to a patented prechamber with drainage system
- Wide temperature range from -40 up to +60° C
- Independent of rotation direction
- Suitable for direct assembly and retrofit
- Applicable for systems with electric as well as mechanical proportional valves

4. Safe

- Flame trap
- Temperature protection
- Explosion protection according to ATEX
- „E85“ suitable

5. Maintenance-free

- Self-adjusting piston sealing for constant flow volume throughout the complete service life of the vapour recovery pump

6. Service friendly

- Pump head can be disassembled by a special coupling without dismantling the motor
- Pump heads can be fitted on all motor versions and are therefore universally useable
- Quick, uncomplicated and cost-saving

MEX BOXER

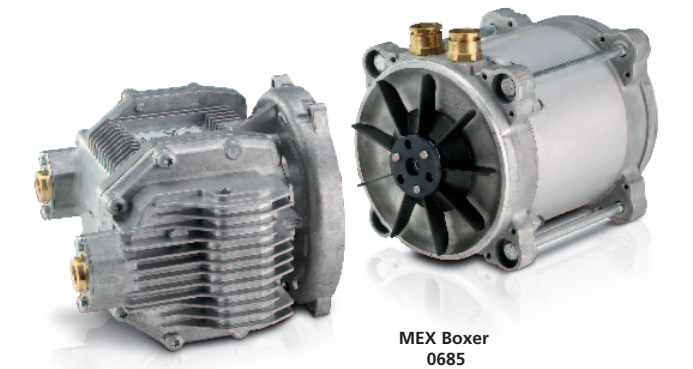
Small and space-saving – the ideal pump for retrofitting

The MEX Boxer combines the proven advantages of the MEX series in a small, compact form, which can easily be mounted. For this reason it is especially suitable for retrofitting into existing petrol pumps.

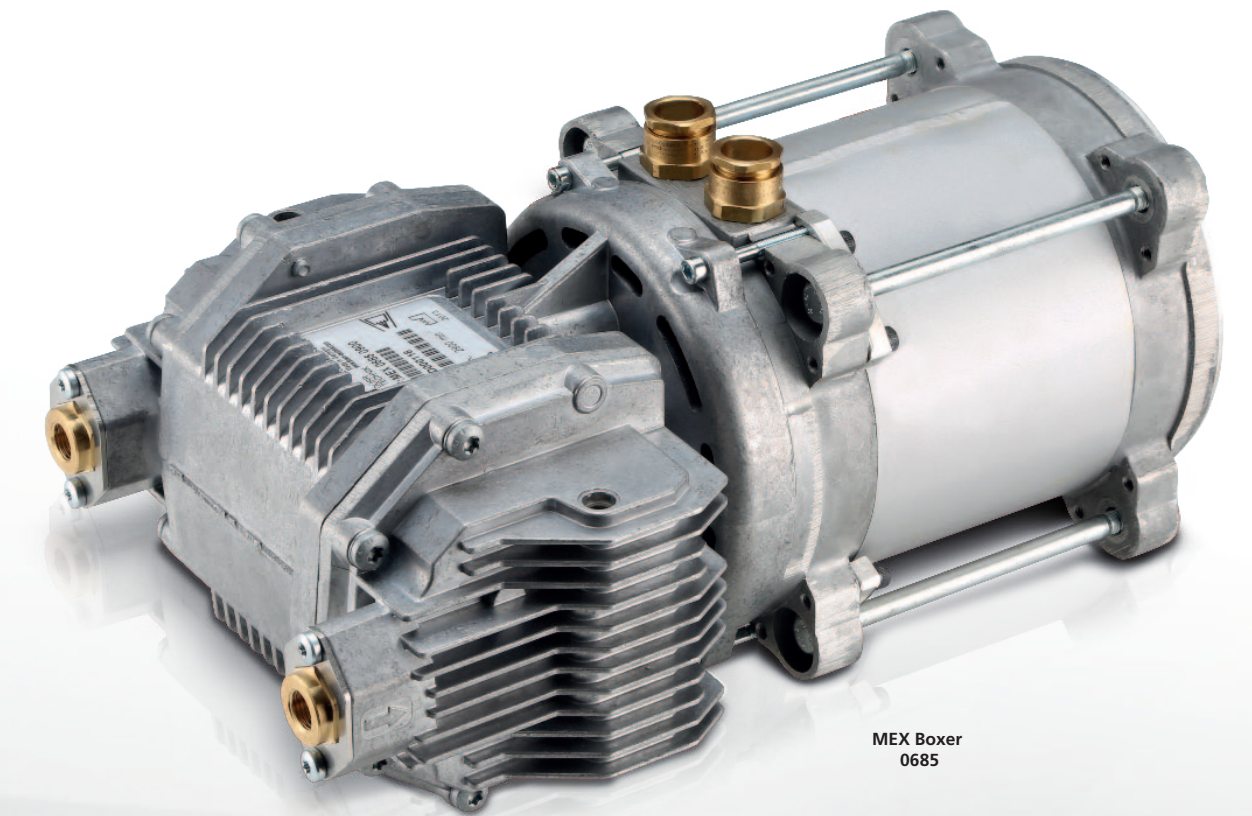
- Extremely long service life
- Simple, variable mounting, horizontal or vertical, with two suction connections for each active pump nozzle and only one pressure connection towards the underground tank

Extremely low vibrations owing to the Boxer principle, therefore very silent running

- Service-friendly: due to a special and unique coupling it is possible to dismount the pump head from the motor and exchange it.



MEX Boxer
0685



MEX Boxer
0685

Technical data belt drive MEX 0831

Type	Flow volume	End pressure	Recommended motor power	Max. permissible speed of rotation	Dimensions L x W x H
	V (l/min)	(mbar)	(W)	(1/min)	(mm)
0831-11/600	44	~150	150 (200)	2300	148x88x188

Accessories: pulley (94 mm effective diameter), replacement pumps and motors on request.

Remarks:

V = flow volume at counter pressure p_e = 150 mbar and a suction pressure p_{abs} = 900mbar

Pumping medium: air

Noise level: < 70 dB(A)

p_{abs} = absolute pressure

Technical data direct drive 1-cylinder MEX 0544-1...

Type	Flow volume	End pressure	Relay	Motor ratings				Dimensions L x W x H
				Wattage rating	Rated current	Nominal voltage	Frequency	
	V (l/min)	(mbar)	(V)	P1 (W)	(A)	(V)	(Hz)	(mm)
3~motor 50 Hz								
0544 1000K	53	~150	24 DC	285-312	0,75	380-415	50	310x152x201
0544 1100K	53	~150	without	285-312	0,75	380-415	50	310x152x201
0544 1700K	53	~150	220-240AC	285-312	0,75	380-415	50	310x152x201
1~motor 50 Hz								
0544 1200K	53	~150	24 DC	440-480	2,20	200-240	50	365x152x201
0544 1250K	53	~150	220-240AC	310	1,35	230	50	315x152x201
0544 1300K	53	~150	without	440-480	2,20	200-240	50	365x152x201
1~motor 60 Hz								
0544 1400K	38	~150	24 DC	200-230	1,80	110-127	60	365x152x201
0544 1500K	38	~150	without	200-230	1,80	110-127	60	365x152x201
0544 1800K	38	~150	without	250	1,15	220	60	365x152x201

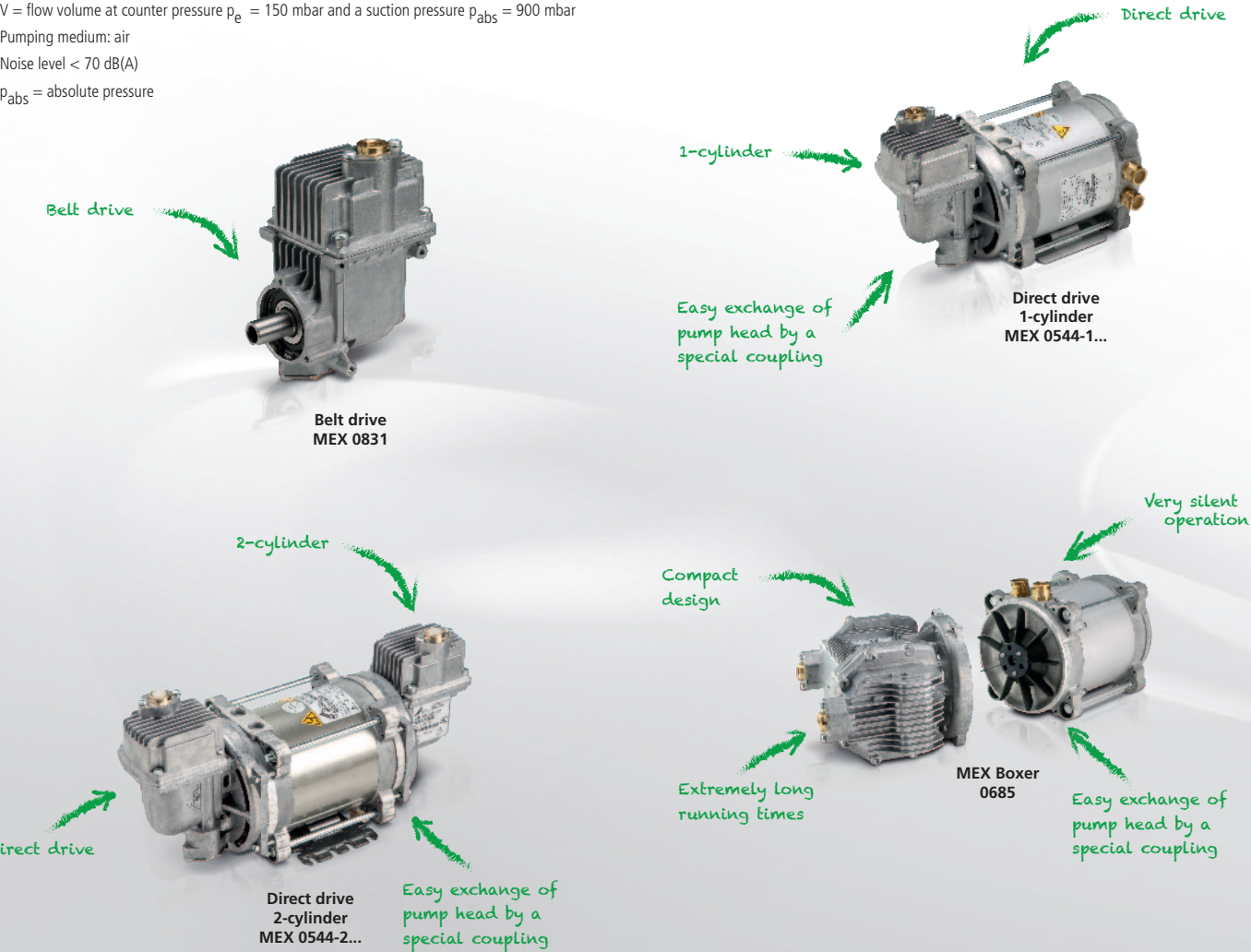
Remarks:

V = flow volume at counter pressure p_e = 150 mbar and a suction pressure p_{abs} = 900 mbar

Pumping medium: air

Noise level < 70 dB(A)

p_{abs} = absolute pressure



Technical data direct drive 2-cylinder MEX 0544-2...

Type	Flow volume	End pressure	Relay	Motor ratings				Dimensions L x W x H
				Wattage rating	Rated current	Nominal voltage	Frequency	
	V (l/min)	(mbar)	(V)	P1 (W)	(A)	(V)	(Hz)	(mm)
3~motor 50 Hz								
0544 2000K	53	~150	24 DC	340-375	0,90	380-415	50	432x152x201
0544 2100K	53	~150	without	340-375	0,90	380-415	50	432x152x201
0544 2700K	53	~150	220-240AC	340-375	0,90	380-415	50	432x152x201
1~motor 50 Hz								
0544 2200K	53	~150	24 DC	660-720	3,00	220-240	50	487x152x201
0544 2250K	53	~150	230 AC	690	3,00	230	50	487x152x201
0544 2300K	53	~150	without	660-720	3,00	220-240	50	487x152x201
1~motor 60 Hz								
0544 2400K	53	~150	24 DC	320-370	2,90	110-127	60	487x152x201
0544 2500K	38	~150	without	320-370	2,90	110-127	60	487x152x201
0544 2800K	38	~150	without	330	1,50	220	60	487x152x201
3~motor 60 Hz								
0544 2850K	38	~150	24 DC	260-280	1,20	220-230	60	432x152x201

Remarks:

V = flow volume at counter pressure p_e = 150 mbar and a suction pressure p_{abs} = 900 mbar

Pumping medium: air

Noise level < 70 dB(A)

p_{abs} = absolute pressure

Technical data MEX Boxer 0685

Type	Flow volume	End pressure	Relay	Motor ratings				Dimensions L x W x H
				Wattage rating	Rated current	Nominal voltage	Frequency	
	V (l/min)	(mbar)	(V)	P1 (W)	(A)	(V)	(Hz)	(mm)
3~motor 50 Hz								
0685 1000	2x45*	~150	24 DC	320	0,8	400	50	378x230x192

Futher motor versions on request.

Remarks:

*V = flow volume per pump at counter pressure p_e = 50 mbar and a suction pressure p_{abs} = 850 mbar

Pumping medium: air

Noise level < 70 dB(A)

p_{abs} = absolute pressure

 **Headquarters**
Dürr Technik GmbH & Co. KG
Pleidelsheimer Straße 30
74321 Bietigheim-Bissingen
Tel. +49 (0) 7142-90 22-0
Fax +49 (0) 7142-90 22-99
office@duerr-technik.de
www.duerr-technik.com

 **Dürr Technik USA, Inc.**
1295 Walt Whitman Road
USA-NY 11747-3062 Melville
Tel. +1 516-214-56 59
Fax +1 516-433-76 84
office@durrtechnikusa.com
www.durrtechnikusa.com

 **Dürr Technik (UK) Ltd.**
Unit 13 The Industrial Quarter
Bath Business Park
Foxcote Avenue
Peasedown St. John
UK-Bath BA2 8SF
Tel. +44 (0) 1761-42 29 44
Fax +44 (0) 1761-42 08 95
office@durrtechnik.co.uk
www.durrtechnik.co.uk

 **Dürr Technik**
Office Latin America
Belgrano 440, Of. 21
1642 San Isidro
Buenos Aires / Argentina
Tel. +54 11 4732-3809
office-latinamerica@duerrtechnik.com
www.duerr-technik.com

