



Vapour recovery
Made in Germany



MEX Vapour recovery

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.

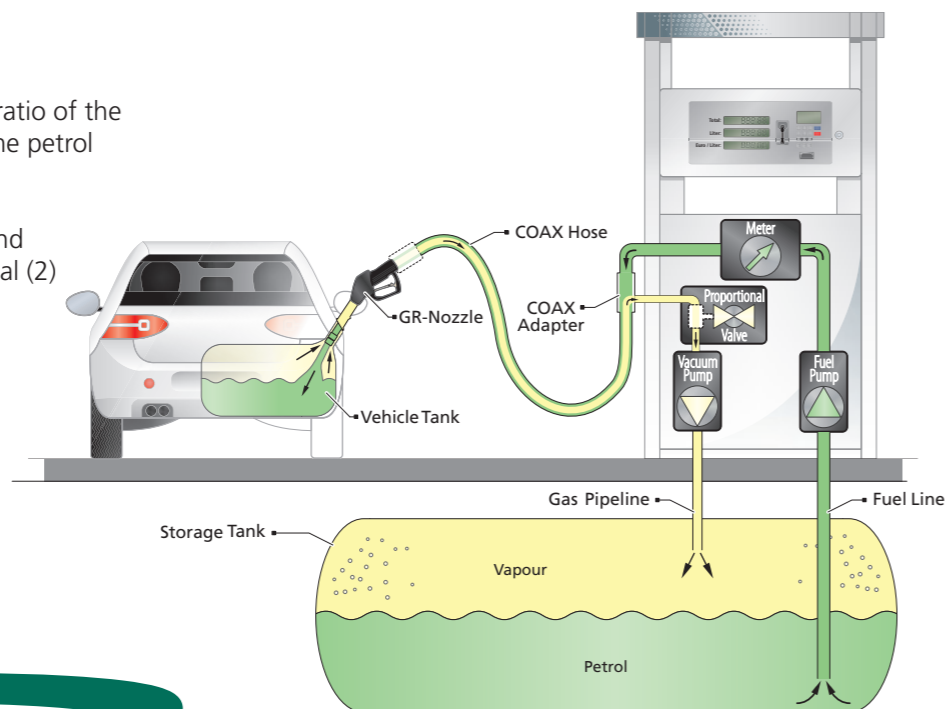
These systems suck off the petrol vapour mixture at the filling nozzle and pump it back into the storage tanks of the petrol station. Thus, the escaping petrol vapours – which are harmful to health and the environment – cannot get into the atmosphere.

Legal requirements and automatic monitoring systems place the highest demands on the reliability of vapour recovery systems.

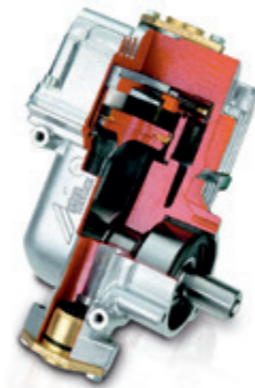
Functioning

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.



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

Various driving systems

- Belt drive
- Direct drive

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

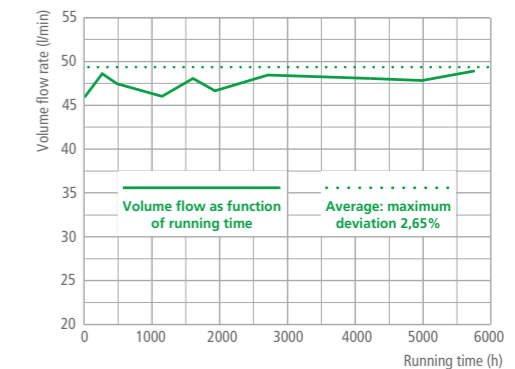
Robust and flexible

- 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

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

Characteristic volume flow rate of MEX pumps at a speed of 2,000 rpm



Maintenance-free

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

Safe

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

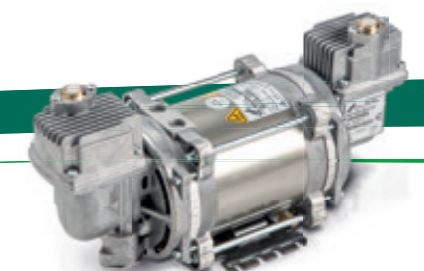
Dürr Technik ■ Quality
■ Made in
■ Germany



Belt drive
MEX 0831



Direct drive
1-cylinder
MEX 0544-2...



Direct drive
2-cylinder
MEX 0544-2...



Technical data belt drive MEX 0831

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

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

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

Type	Flow volume V (l/min)	End pressure (mbar)	Relay (V)	Motor ratings				Dimensions L x W x H (mm)
				Wattage rating P1 (W)	Rated current (A)	Nominal voltage (V)	Frequency (Hz)	
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

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

Type	Flow volume V (l/min)	End pressure (mbar)	Relay (V)	Motor ratings				Dimensions L x W x H (mm)
				Wattage rating P1 (W)	Rated current (A)	Nominal voltage (V)	Frequency (Hz)	
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
3~motor 60 Hz								
0544 2850K	38	~150	24 DC	260-280	1,20	220-230	60	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

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



Dürr Technik GmbH & Co. KG
Pleidelsheimer Straße 30
74321 Bietigheim-Bissingen
Germany

Tel. +49 7142 90 22-0
Fax +49 7142 90 22-99
office@duerr-technik.de
www.duerr-technik.com

