



**Battioni®
Pagani**

Setting the pace since 1953



Technical Catalogue
Catalogo Tecnico
Technischer Katalog

**2020
MEC**

**1000 - 1600 - 2000 - 3000
4000 - 5000 - 6500 - 8000
9000 - 11000 - 13500**



www.bapag.it

rev. 2 del 15/10/2020



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Predisposition for overpressure valve

Predisposizione per valvola di sovrappressione
Vorbereitung für Überdruckventil

Non-return check valve as standard

Valvola di non ritorno di serie
Kontrollventil als Serie



**Forced lubrication pump as standard
(automatic lubrication on request)**

Pompa di lubrificazione forzata di serie
(lubrificazione automatica a richiesta)
Druckschmierung als Serie (Automatische
Schmierung auf Anfrage)



Long Life blades on request

Palette Long Life resistenti al calore a richiesta
Auf Anfrage hitzebeständigen Lamellen Long Life

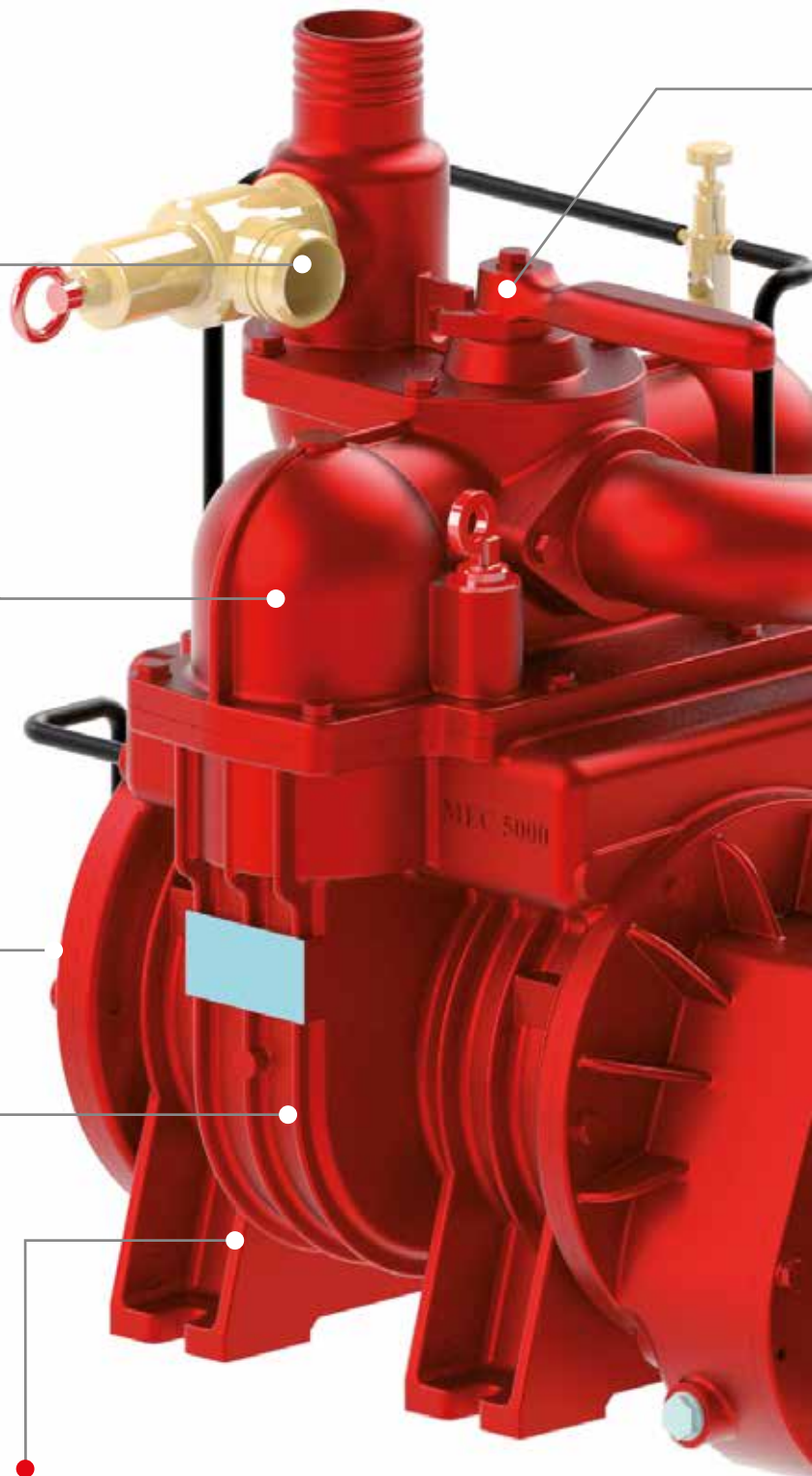


**AIR COOLED
ROTARY VANES
VACUUM/PRESSURE
PUMP**

**High wearing resistance thanks to cast-iron
with high hardness**

Elevata resistenza ad usura grazie a ghisa ad
alta durezza

Hohe Festigkeit zu Abnutzung für
Gußeisen mit hohe Härte





Selector vacuum - pressure

Selettore Vuoto - Pressione

Wähler von Vakuum/Druck

Blades inspection hole

Foro ispezione palette

Bohrung für Lamellen Prüfung



VERSIONS



MEC - M



MEC - P



MEC - D



MEC - H



MEC - HM

MEC the legend





MEC

1000 - 1600



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MEC 1000/1600 – Light and compact design

The reliability and strength of the MEC is the result of continuous design and manufacturing improvements accomplished during 40 years of deployments. Its light and compact design made MEC 1000/1600 the best vacuum pump for portable sanitation services and small vacuum tank for liquid applications.



STANDARD FEATURES

- 4-ways valve, non-return check valve.
- Available hoses connections: Ø 27 mm / Ø 45 mm / G 1" / G 1" 1/4
- Thread for Overpressure valve: Not available

VERSIONS

CCW as standard



Version M

Splined shaft
1"3/8 - Z6 ISO 500

CCW on request

CW as standard



Version P

Smooth Cylindrical shaft
Ø 22, lenght 48 mm
Parallel key UNI 6604

CW as standard



Version H

MEC 1000: Group 2 21.14 cc/rev - Pmax 200 bar - In G 1/2" - Out G 3/4"

MEC 1600: Group 2 21.14 cc/rev - Pmax 200 bar - In G 1/2" - Out G 3/4"

MEC 1000: Group 2 40 cc/rev - Pmax 175 bar - In G 1/2" - Out G 1/2"

MEC 1600: Group 2 40 cc/rev - Pmax 175 bar - In G 1/2" - Out G 1/2"

TECHNICAL DATA

	Geometrical capacity			Max rpm		Max abs pressure Bar (PSI)	Max vacuum % (inHg)	Max continuous vacuum % (inHg)	Power at max vacuum kW (HP)	Weight kg		
	m³/h	l/min	cfm	M	P/H					M	P	H
MEC 1000	75,6	1260	45	600	1400	2,5 (36)	89% (26,3")	60% (18")	3,5 (4,7)	40	34	48
MEC 1600	118,8	1980	70	600	1400	2,5 (36)	89% (26,3")	60% (18")	4,5 (6)	48	42	56

OPTIONALS



Long Life Blades



Automatic Lubrication
Single lubrication point



Revolving Elbow
Ø 45 mm



Battioni Pagani Vacuum Pump Oil 5 lt.
Code 5070200100



Battioni Pagani Flushing Fluid 5 lt.
Code 5070200102



Flushing Kit
Code 6080200325



Pump Controller



Pump Active Controller



Customized Painting



ACCESSORIES

Air cooled - Rotary Vanes
Vacuum/Pressure pumps



Overpressure Safety Valve - 1"1/4

Code 5100200009

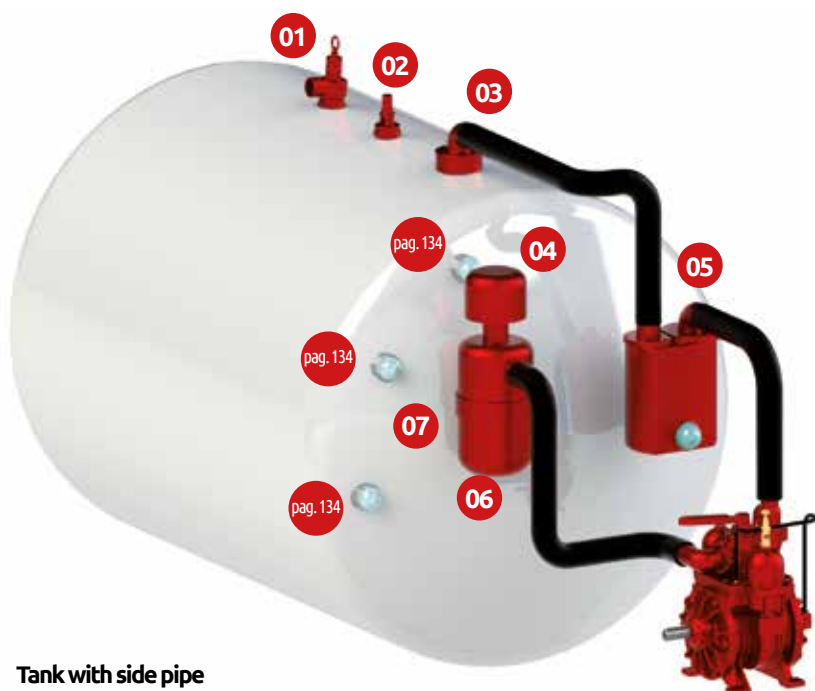
Setting range:
+0,3 bar / +1,5 bar
Working temperature:
-20°C / +90°C
Thread: G 1"1/4
Weight: 0,94 kg



Vacuum Relief Valve 1"1/2

Code 5100200012

Setting range:
-0,3 bar / -0,8 bar
Working temperature:
-20°C / +90°C
Thread: G 1"1/2
Weight: 0,65 kg



Tank with side pipe



Filter - Silencer

Code 5090000110

Hose connection: Ø 45 mm
Weight: 2,5 kg



Rain Cap

Code 5090000111

For Filter/silencer only Ø 45 mm



Sliding Support

Code 5090000138 (Ø 165)
(Silencer Code 5090000110)



Primary Overflow Valve - Single Rubber Ball

Code 6100200006 - Ø45
Iron ring to be welded
Weight: 4,5 kg



Secondary Valve - Single Rubber Ball

Code 6100200003 - Ø45
Weight: 17,5 kg



Discharge Valve - 3/4"

Code 5040200006
To be fitted on Secondary valve



Gauge - Ø 80 mm Axial Connection

Code 5101700007
To be fitted on Secondary valve



MEC

2000 - 3000 - 4000



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MEC 2000 / 3000 / 4000 – Simple and practical design

The reliability and strength of the MEC is the result of continuous design and manufacturing improvements accomplished during 40 years of deployments. It's simple and practical design made the MEC pumps the product of reference for agricultural and municipalities septic applications.

STANDARD FEATURES

- Forced lubrication, 4-ways valve, non-return check valve
- Available hoses connections: Ø 45 mm / Ø 60 mm / G 2"
- Thread for Overpressure valve: G 1 1/4"



VERSIONS

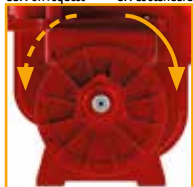
CCW as standard



Version M

Splined shaft
1 1/8" - Z6 ISO 500

CCW on request CW as standard



Version P

Smooth Cylindrical shaft
Ø 30, lenght 50 mm
Parallel key UNI 6604

CCW as standard



Version D

Splined shaft
1 1/8" - Z6 ISO 500

CCW as standard



Version HM

100 cc/rev
Pmax 175 bar
In G 1/2" - Out G 1/2"

CW as standard



Version H

MEC 2000: Group 3 26.7 cc/rev - Pmax 280 bar - In G 1" - Out G 3/4"
MEC 3000: Group 3 26.7 cc/rev - Pmax 280 bar - In G 1" - Out G 3/4"
MEC 4000: Group 3.5 43.98 cc/rev - Pmax 250 bar - In G 1" - Out G 1"

TECHNICAL DATA

	Geometrical capacity			Max rpm		Max abs pressure Bar/PSI	Max vacuum % (inHg)	Max continuous vacuum % (inHg)	Power at max vacuum kw (HP)	Weight kg				
	m³/h	l/min	cfm	M/HM	P/D/H					M	P	D	H	HM
MEC 2000	165	2750	97	600	1400	2,5 (36)	91% (27,0")	60% (18")	5,5 (7,3)	75	65	65	81	77
MEC 3000	216	3600	127	600	1400	2,5 (36)	92% (27,2")	60% (18")	7 (9,4)	86	75	77	92	89
MEC 4000	261	4350	154	600	1400	2,5 (36)	94% (28,0")	60% (18")	9 (12,6)	97	85	90	116	102

OPTIONALS



Long Life Blades



Automatic Lubrication
Single lubrication points



Side Outlet
With two revolving elbows



Double Outlet
Ø 60 mm



Revolving Elbow
Ø 45 mm
Ø 51 mm
Ø 60 mm



Kit Vacuum Relief Valve For Revolving Elbow
Code 6080200390



Hydraulic Changeover
Code 6080200217



Pneumatic Revolving Changeover
Code 6080200160



Kit Valves and manometer tree 1 1/4
Code 6080200391



Kit Overpressure 1 1/4 safety valve for Revolving Elbow
Code 6080200396



Kit Valves and manometer tree U.L.
Code 6080200488



Kit Aluminum Final air filter 500 Self-Cleaning
Code 6080200507



Flushing Kit
Code 6080200325



Battioni Pagani Vacuum Pump Oil 5 lt.
Code 5070200100



Battioni Pagani Flushing Fluid 5 lt.
Code 5070200102



Pump Controller



Pump Active Controller



Customized Painting

Air cooled - Rotary Vanes Vacuum/Pressure pumps

ACCESSORIES



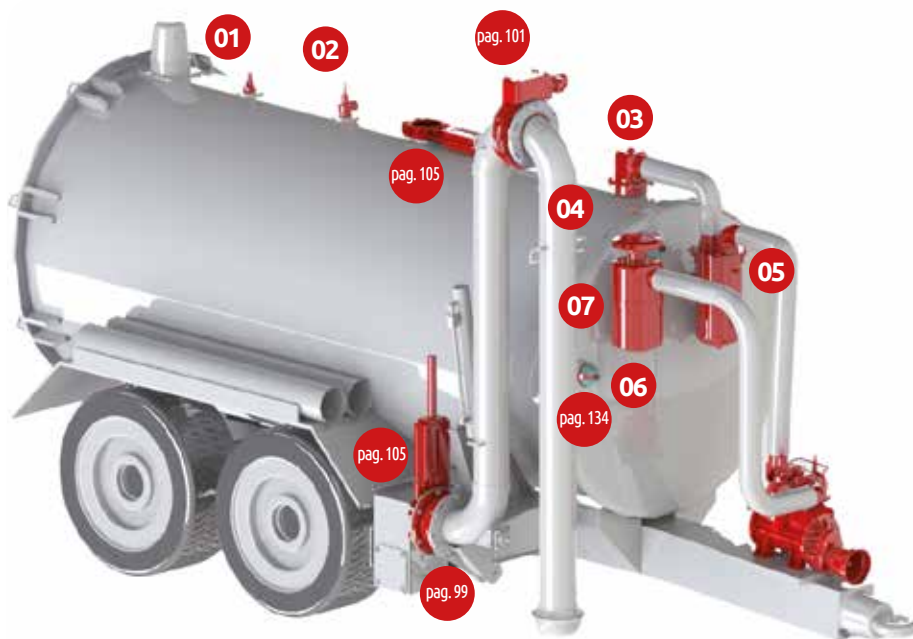
Vacuum Relief Valve 1 1/2
Code 5100200012
Setting range:
-0,3 bar / -0,8 bar
Working temperature:
-20°C / +90°C
Thread: G 1 1/2
Weight: 0,65 kg



Overpressure Safety Valve - 1 1/4
Code 5100200009
Setting range:
+0,3 bar / +1,5 bar
Working temperature:
-20°C / +90°C
Thread: G 1 1/4
Weight: 0,94 kg



Filter - Silencer
Code 5090000110 - Ø 45
MEC 2000
Code 5090000083 - Ø 60
MEC 3000 - 4000
Weight: 3,9 kg



Tank with side pipe



Rain Cap
Code 5090000111 - Ø 45
For Filter/silencer only
MEC 2000
Code 5090000060 - Ø 60
For Filter/silencer only
MEC 3000 - 4000



Pre-Filter
Code 5090000045 - Ø 60
For Filter/silencer only
MEC 3000 - 4000



Sliding Support
Code 5090000138 (Ø 165)
(Silencer Code 5090000110)
Code 5090000139 (Ø 187)
(Silencer Code 5090000083)



Primary Overflow Valve - Single Rubber Ball
Code 6100200006 - Ø 45
Code 6100200007 - Ø 60
Iron ring to be welded
Weight: 4,5 kg



Secondary Valve - Single Rubber Ball
Code 6100200003 - Ø 45
Code 6100200004 - Ø 60
Weight: 17,5 kg



Discharge Valve - 3/4"
Code 5040200006
To be fitted on Secondary valve



Gauge - Ø 80 mm Axial Connection
Code 5101700007
To be fitted on Secondary valve



MEC

5000 - 6500 - 8000



**Battioni®
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MEC 5000 / 6500 / 8000 – The Legend

More than 500.000 MEC pumps have been put in operation to empty cesspits and transport slurry in agricultural and industrial applications.

The reliability and strength of the MEC is the result of continuous design and manufacturing improvements accomplished during 40 years of deployments.



STANDARD FEATURES

- Forced lubrication, 4-ways valve, check valve
- Thread for Overpressure valve: G 1"1/2
- Available hoses connections: Ø 60 mm / Ø 76 mm (3") / Ø 80 mm

VERSIONS

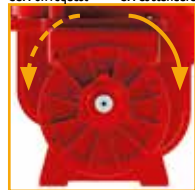
CCW as standard



Version M

Splined shaft
1"3/8 - Z6 ISO 500

CCW on request



Version P

Smooth Cylindrical shaft
Ø 32, lenght 70 mm
Parallel key UNI 6604

CW as standard

CCW as standard



Version D

Splined shaft
1"3/8 - Z6 ISO 500

CCW as standard



Version HM

100 cc/rev-
Pmax 175 bar
In G 1/2" - Out G 1/2"

CW as standard



Version H

MEC 5000: Group 3.5 43.98 cc/rev - Pmax 250 bar - In G 1" - Out G 1"
MEC 6500: Group 3.5 43.98 cc/rev - Pmax 250 bar - In G 1" - Out G 1"
MEC 8000: Group 3.5 51.83 cc/rev - Pmax 230 bar - In G 1" - Out G 1"

TECHNICAL DATA

	Geometrical capacity			Max rpm		Max abs pressure Bar/PSI	Max vacuum % (inHg)	Max continuous vacuum % (inHg)	Power at max vacuum kw (HP)	Weight kg				
	m³/h	l/min	cfm	M/HM	P/D/H					M	P	D	H	HM
MEC 5000	369	6150	217	600	1400	2,5 (36)	94% (28,0")	60% (18")	11 (14,7)	127	120	121	136	132
MEC 6500	420	7000	247	600	1400	2,5 (36)	94% (28,0")	60% (18")	12,5 (16,7)	142	129	130	154	150
MEC 8000	486	8100	286	600	1400	2,5 (36)	94% (28,0")	60% (18")	16 (21,4)	157	140	141	174	162

OPTIONALS



Long Life Blades



Automatic Lubrication

MEC 5000: Single lubrication points
MEC 6500-8000: Double lubrication points



Side Outlet

With two revolving elbows



Double Outlet

Ø 60 mm



Revolving Elbow

Ø 60 mm /
Ø 76 mm (3") /
Ø 80 mm



Kit Aluminum final

air filter 500 Self-Cleaning
Code 6080200363



Hydraulic Changeover
Code 6080200175



Hydraulic Revolving Changeover
Code 5090000073



Pneumatic Revolving Changeover
Code 6080200114



Pneumatic Revolving Changeover - 3 Positions
Code 6080200292



Kit Valves and manometer tree 1" 1/2
Code 6080200392



Kit Vacuum Relief Valve For Revolving Elbow
Code 6080200486

OPTIONALS



Extra Side Tank
Code 6080200418 (LA)
Code 6080200417 (LF)



Flushing Kit
Code 6080200325



Battioni Pagani Vacuum Pump Oil 5 lt.
Code 5070200100



Battioni Pagani Flushing Fluid 5 lt.
Code 5070200102

MEC
5000 - 6500 - 8000



Pump Controller



Pump Active Controller

Air cooled - Rotary Vanes Vacuum/Pressure pumps

ACCESSORIES



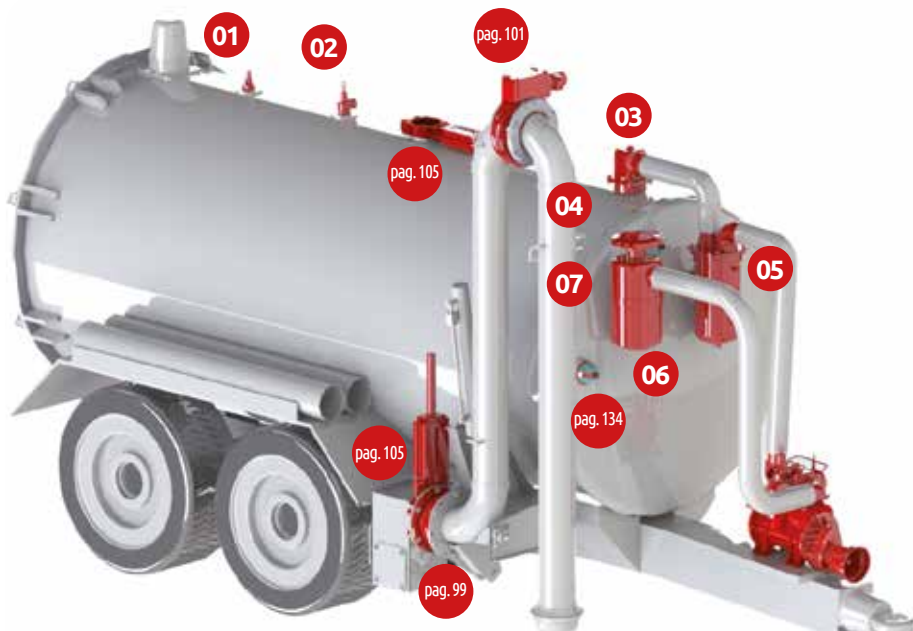
Vacuum Relief Valve 1 1/2
Code 5100200012
Setting range:
-0,3 bar / -0,8 bar
Working temperature:
-20°C / +90°C
Thread: G 1 1/2
Weight: 0,65 kg



Overpressure Safety Valve 1 1/2
Code 5100200010
Setting range:
+0,3 bar / +1,5 bar
Working temperature:
-20°C / +90°C
Thread: G 1 1/2
Weight: 1,02 kg



Filter - Silencer
Code 5090000083-Ø 60
MEC 5000
Code 5090000044-Ø 80
MEC 6500/8000
Weight: 7 kg (9.9 lb)



Tank with side pipe



Rain Cap
Code 5090000060-Ø 60
MEC 5000
Code 5090000061-Ø 80
MEC 6500/8000
For Filter/silencer only



Pre-Filter
Code 5090000045-Ø 60
MEC 5000
Code 5090000046-Ø 80
MEC 6500/8000
For Filter/silencer only



Sliding Support
Code 5090000139 (Ø 187)
(Silencer Code 5090000083)



Primary Overflow Valve - Single Rubber Ball
Code 6100200007 - Ø 60
Code 6100200008 - Ø 80
Iron ring to be welded
Weight: 4,7/9,6 kg



Secondary Valve - Single Rubber Ball
Code 6100200004 - Ø 60
Code 6100200005 - Ø 80
Weight: 18,5/20,5 kg



Discharge Valve - 3/4
Code 5040200006
To be fitted on Secondary valve



Gauge - Ø 80 mm Axial Connection
Code 5101700007
To be fitted on Secondary valve



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Kit Aluminum Final Air Filter

Kit filtro aria alluminio

Saugfilter Satz

Predisposition for overpressure valve

Predisposizione per valvola di sovrappressione

Vorbereitung für Überdruckventil

Selector vacuum - pressure

Selettore Vuoto - Pressione

Wähler von Vakuum/Druck



Temperature indicator

Rilevatore di temperatura

Temperaturdedektor



160° C Irreversible indicator

Indicatore Irreversibile 160° C
irreversibel
Anzeiger 160°C

Forced lubrication pump as standard (automatic lubrication on request)

Pompa di lubrificazione forzata di serie (lubrificazione automatica a richiesta)

Druckschmierung als Serie (Automatische Schmierung auf Anfrage)

Long Life blades as standard

Palette "long life" resistenti al calore di serie

Hitzebeständigen Lamellen aus Spezialmaterial als Serie



Cooling



**AIR COOLED
ROTARY VANES
VACUUM/PRESSURE
PUMP**

High wearing resistance thanks to cast-iron with high hardness

Elevata resistenza ad usura grazie a ghisa ad alta durezza

Hohe Festigkeit zu Abnutzung für
Gußisen mit hohe Härte



External Oil level indicator
Indicatore livello olio esterno
Ölstandsanzeige

CPS - CRASH PROTECTION SYSTEM

Sliding Flanges to avoid breakages of the body and rotor during vanes crashes

Flange con asole di scorrimento in caso di ingresso materiale o rottura palette

Flansche mit Slotsblättern falls Materialschmierung oder Palettenbruch

Flange-housing alignment control

Tacca di allineamento flangia - corpo

Ausrichtmarke der Flanschgehäuse

Blades inspection hole

Foro ispezione palette

Bohrung für Lamellen Prüfung

Vaness inspection hole with max wearing indicator

Tacca per rilevamento usura palette

Ausrichtmarke für die Abnutzung der Palette

Compression and thrust rings for bearings

Anello di compensazione

Ausgleichsring

VERSIONS



MEC - M/MA



MEC - P



MEC - D



MEC - H



MEC - HM

Discover the CPS - Crash Protection System





MEC II

9000 - 11000 - 13500



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MEC II – The Legend continues

Designed in cooperation with SPRInT, the Team of Engineering and Research of the Department of Industrial Engineering at the University of Parma, the MEC II pump represents a technology breakthrough resulted from a major joint effort in product **development and innovative design processes**.

The MEC II features the **Crash Protection System**: a sliding flanges protection mechanism that prevents the housing or rotor to break of in case of vanes crash. The pump is easily repairable inexpensively in field.



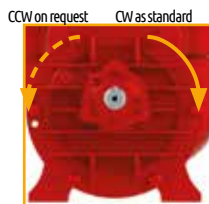
STANDARD FEATURES

- Long Life Blades, Crash Protection System, forced lubrication, external oil level indicator, side outlets, exhaust elbow, 4-ways valve, check valve
- Thread for Overpressure valve: G 2"
- Available hoses connections: Ø 76 mm (3") / Ø 80 mm / Ø 100 mm (4")

VERSIONS



Version M - MA
Splined shaft
1"3/8 - Z6 ISO 500



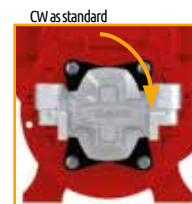
Version P
Smooth Cylindrical shaft,
Ø 32, lenght 63 mm
Parallel key UNI 6604



Version D
Splined shaft
1"3/8 - Z6 ISO 500



Version HM
MEC9000: 100 cc/rev
Pmax 175 bar - In G 1/2" - Out G 1/2"
MEC11000: 125.7 cc/rev
Pmax 175 bar - In G 1/2" - Out G 1/2"



Version H
MEC9000: Group 3.5 51.83 cc/rev
Pmax 230 bar - In G 1" - Out G 1"
MEC11000: Group 3.5 73.82 cc/rev
Pmax 180 bar - In G 1" - Out G 1 1/4"
MEC13500: Group 4 86.56 cc/rev
Pmax 280 bar - In G 1 1/4" - Out G 1 1/2"

TECHNICAL DATA

	Geometrical capacity			Max rpm			Max abs pressure Bar/PSI	Max vacuum % (inHg)	Max continuous vacuum % (inHg)	Power at max vacuum kW (HP)	Weight kg				
	m³/h	l/min	cfm	M/HM	MA	P/D/H					M/MA	P	D	H	HM
MEC II 9000	541,8	9030	319	600	1000	1400	2,5 (36)	95% (28,5")	60% (18")	17 (22,8)	145	131	132	154	146
MEC II 11000	668,22	11137	393	600	1000	1400	2,5 (36)	95% (28,5")	60% (18")	21 (28,2)	160	146	147	170	161
MEC II 13500	830,7	13845	489	600	1000	1400	2,5 (36)	95% (28,5")	60% (18")	25 (33,5)	178	164	165	205	-

OPTIONALS



Automatic Lubrication
Double lubrication points



Kit Aluminum Final Air Filter 1300 Self-Cleaning
Code 6080200290



Side Outlet With Two Revolving Elbows
Ø 76/80/100



Double Outlet
Ø 80 mm



Kit Vacuum Relief Valve For Revolving Elbow
Code 6080200181



Extra Side Tank
Code 6080200304 (LA)
Code 6080200310 (LF)



Hydraulic Changeover
Code 6080200176



Hydraulic Revolving Changeover
Code 5090000078



Pneumatic Revolving Changeover
Code 6080200238



Pneumatic Revolving Changeover - 3 Positions
Code 6080200293



Battioni Pagani Vacuum Pump Oil 5 lt.
Code 5070200100



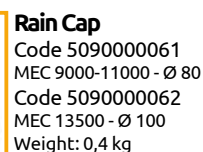
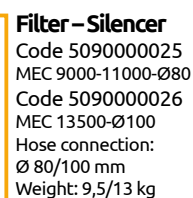
Battioni Pagani Flushing Fluid 5 lt.
Code 5070200102

A diagram of a cell with internal organelles. Arrows indicate movement of materials into and out of the cell, and between organelles.

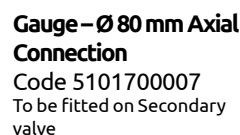
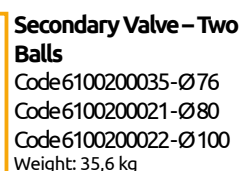


Customized Painting

Code 5100200011
Setting range:
+0,3 bar / +1,5 bar
Working temperature:
-20°C / +90°C
Thread: G 2"
Weight: 1,2 kg



Tank with side pipe





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