

## Service manual

### Deck oven Ebo 86 M (standard chambers 80/60) 400V 50Hz

Version: 2.00

Ident:

Series:

Part-Number: X1630

This part can be ordered.



## Chapter

- baking chamber Ebo 86 M (standard chambers 80/60) 400V 50Hz - V:
- control panel Ebo 86 M (standard chambers 80/60) 400V 50Hz - V:
- door Ebo 86 M (standard chambers 80/60) 400V 50Hz - V:
- electric-installation Ebo 86 M (standard chambers 80/60) 400V 50Hz - V:
- frame Ebo 86 M (standard chambers 80/60) 400V 50Hz - V:
- installation-room Ebo 86 M (standard chambers 80/60) 400V 50Hz - V:
- Insulating lid Ebo 86 M (standard chambers 80/60) 400V 50Hz - V:
- pipng Ebo 86 M (standard chambers 80/60) 400V 50Hz - V:

# Service manual

## baking chamber Ebo 86 M (standard chambers 80/60) 400V 50Hz

**Version:**

**Ident:**

**Series:**

**Part-Number:**



### Chapter

107159 - female multipoint connector 2 pole  
111342 - multi pin connector  
33891 - halogen socket  
38098 - halogen lamp 12V 20W  
42048 - spring ring 5,2  
42210 - washer  
42251 - screw  
42674 - screw M5x16 DIN933  
70508 - Ebo frame for lamps-lower part  
70509 - Ebo protective glass f. lamps-lower part  
70510 - seal for bottom part of the lamp  
9040-510-003 - door buffer Ø15x18 280°C  
X1630-014-065 - door sealing  
X1700-300-026 - heater gasket  
X1730-014-008 - connecting plate right / left 86  
X1730-014-030 - stone baking plate  
X1730-014-031 - connecting plate infrared  
X1730-014-033 - connecting plate right 86  
X1730-014-034 - heating holder below  
X1730-014-038 - connecting plate left 86  
X1730-014-062 - crump tray  
X1730-305-030 - heating 400W  
X1730-305-031 - heating 500W  
X1730-305-040 - heating infrared 500W  
X1730-305-041 - heating infrared 600W

**Part: female multipoint connector 2 pole****Part-Number: 107159**

---

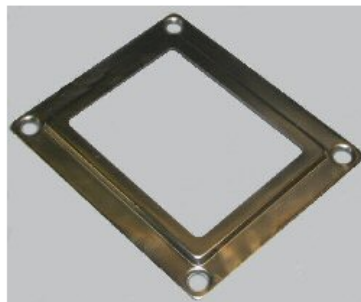
**Part: multi pin connector****Part-Number: 111342**

---

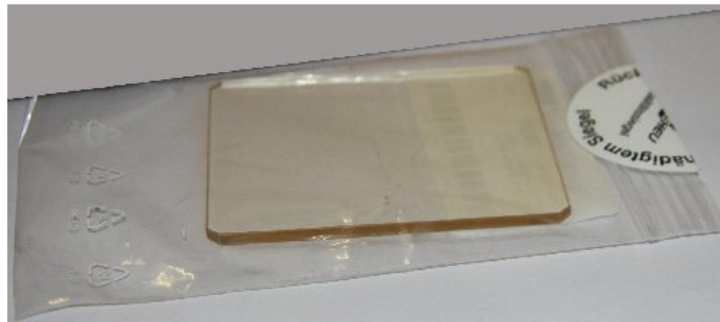
**Part: halogen socket****Part-Number: 33891**

Check the porcelain lamp holders and cables for damage. Please do not squeeze or kink the cable.

**Part: halogen lamp 12V 20W****Part-Number: 38098****Part: spring ring 5,2****Part-Number: 42048**

**Part: washer****Part-Number: 42210****Part: screw****Part-Number: 42251****Part: screw M5x16 DIN933****Part-Number: 42674****Part: Ebo frame for lamps-lower part****Part-Number: 70508**



**Part: Ebo protective glass f. lamps-lower part****Part-Number: 70509****Part: seal for bottom part of the lamp****Part-Number: 70510****Part: door buffer Ø15x18 280°C****Part-Number: 9040-510-003**

From the delivery date 12/06/12 the door buffer will be no longer installed.

**Part: door sealing****Part-Number: X1630-014-065****Part: heater gasket****Part-Number: X1700-300-026**

**Part: connecting plate right / left 86**

Part-Number: X1730-014-008

---

**Part: stone baking plate**

Part-Number: X1730-014-030

---

**Part: connecting plate infrared**

Part-Number: X1730-014-031

---

**Part: connecting plate right 86**

Part-Number: X1730-014-033

---

**Part: heating holder below**

Part-Number: X1730-014-034

---

**Part: connecting plate left 86**

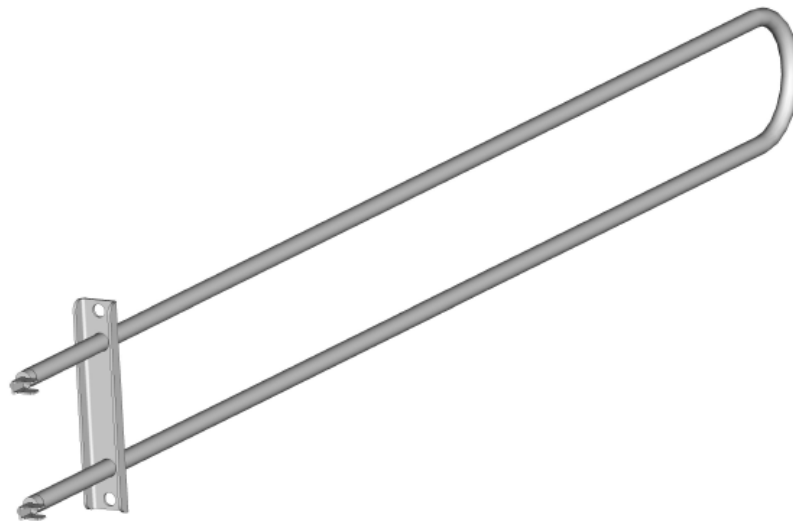
Part-Number: X1730-014-038

---

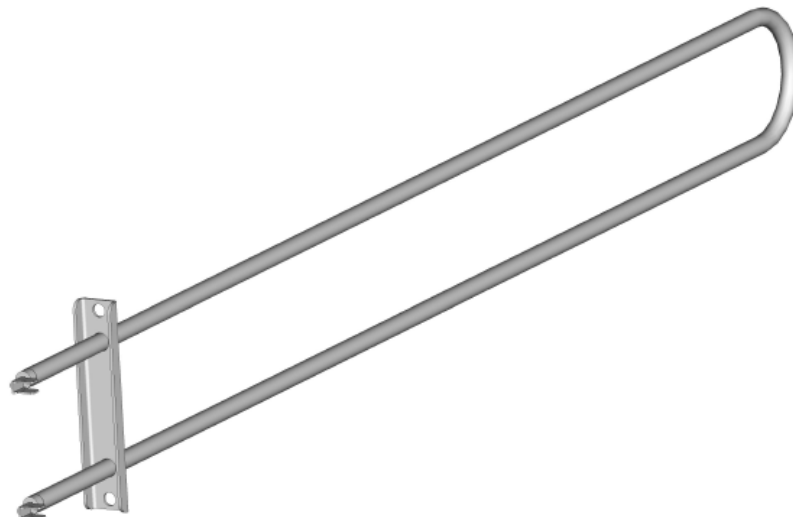
**Part: crump tray**

Part-Number: X1730-014-062

---

**Part: heating 400W****Part-Number: X1730-305-030**

---

**Part: heating 500W****Part-Number: X1730-305-031**

---

**Part: heating infrared 500W****Part-Number: X1730-305-040**

---

**Part: heating infrared 600W****Part-Number: X1730-305-041**

---



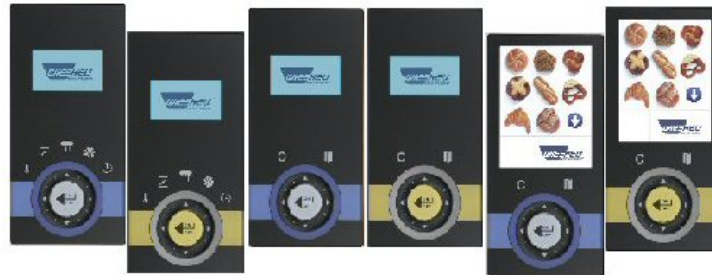
# Service manual control panel Ebo 86 M (standard chambers 80/60) 400V 50Hz

**Version:**

**Ident:**

**Series:**

**Part-Number:**



## Chapter

Classic control Ebo 86 M (standard chambers 80/60) 400V 50 Hz - V:

Comfort control Ebo 86 M (standard chambers 80/60) 400V 50 Hz - V:

Exclusive control Ebo 86 M (standard chambers 80/60) 400V 50 Hz - V:

# Service manual

## Classic control Ebo 86 M (standard chambers 80/60) 400V 50 Hz

**Version:**

**Ident:**

**Series:**

**Part-Number:**



### Chapter

- 107159 - female multipoint connector 2 pole
- 107160 - multi pin connector 3-pole
- 107161 - female multipoint connector 3 pole
- 107657 - spacer for circuit boards
- 109905 - through terminal, blue 2,5m
- 109919 - hexagonal head screw M4
- 110525 - end clamp grey
- 110744 - nut M4 self-locking
- 111231 - spacer
- 111342 - multi pin connector
- 111343 - cross bridge iso. red 24 A 4/0
- 111345 - cable with plug for axial fan
- 33884 - relay main switch
- 36583 - ferrite core R3615X
- 38400 - loudspeaker
- 402662 - axial blower 19W heat resistance until 75°C
- 404699 - safety temperature limiter (UL) 360°C
- 404814 - intermediate plate clamp
- 42033 - spring ring M4
- 42209 - washer D125 4,3
- 9000-455-001 - drive fastener D10
- 9030-140-005 - thermocouple
- 9030-140-006 - thermo sensor
- 9030-320-006 - glass operating unit Classic Dibas/Ebo
- 9030-320-011 - glass operating unit Classic nostalgia
- 9030-330-001 - motherboard universal
- 9030-330-003 - terminal board active 400V
- 9030-430-037 - data cable control Comfort-Classic
- 9030-430-112 - cable USB- extension 0,5m
- 9030-430-113 - USB-extension cord
- 9030-430-128 - supply line 5x2,5
- 9030-485-002 - ferrite ring 15,5
- 9520-510-001 - binder attachment
- X1600-355-037 - control box
- X1600-355-061 - control box nostalgia
- X1700-355-034 - hinge
- X1700-356-100 - cover
- X1700-356-101 - sealing frame
- X1700-356-102 - sealing
- X2200-353-053 - cover USB interface

**Part: female multipoint connector 2 pole**

Part-Number: 107159

---

**Part: multi pin connector 3-pole**

Part-Number: 107160

---

**Part: female multipoint connector 3 pole**

Part-Number: 107161

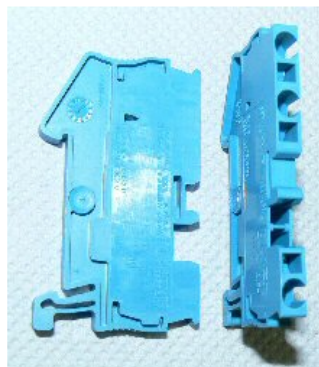
---

**Part: spacer for circuit boards**

Part-Number: 107657

**Part: through terminal, blue 2,5m**

Part-Number: 109905



**Part: hexagonal head screw M4**

Part-Number: 109919

---

**Part: end clamp grey**

Part-Number: 110525

---

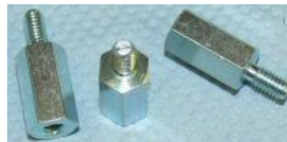
**Part: nut M4 self-locking**

Part-Number: 110744

---

**Part: spacer**

Part-Number: 111231

**Part: multi pin connector**

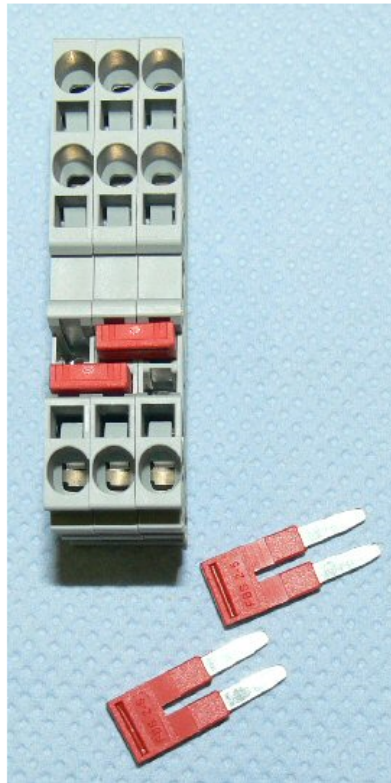
Part-Number: 111342

---



**Part: cross bridge iso. red 24 A 4/0**

**Part-Number: 111343**



**Part: cable with plug for axial fan**

**Part-Number: 111345**



## Part: relay main switch

**Part-Number: 33884**

The contactor switches the heater on/off.



---

## Part: ferrite core R3615X

**Part-Number: 36583**



---

## Part: loudspeaker

**Part-Number: 38400**

The loud speaker signal serves as an acoustic signal. For example notification is given for "temperature reached", "end of program". As well as when opening the door a short gong will sound. If the gong does not work, first of all check the appliance settings. You can reach the menu point "Gong" by going to "Settings - Appliance Settings - Gong". Here you can set the volume and intervals of the sound. If the volume and interval is set to 0 no acoustic signal will be given. Test the gong, by going to the PC-Tool - Function Test. Warning! The PC-Tool- Function test is an endurance test and is not protected from overload!



## Part: axial blower 19W heat resistance until 75°C

**Part-Number: 402662**

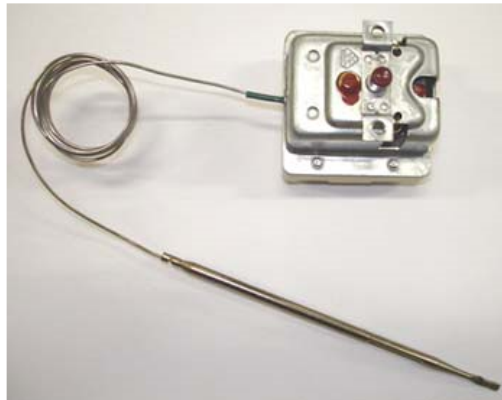
Axial fan to cool the electronic components. Heat resistant up to 75°C, marked with the letter "Z". The service uses as after-market equipment the axial fan, item no. 402661, heat resistant up to 85°C marked with the letter "N".



---

## Part: safety temperature limiter (UL) 360°C

**Part-Number: 404699**



---

## Part: intermediate plate clamp

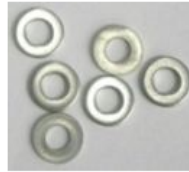
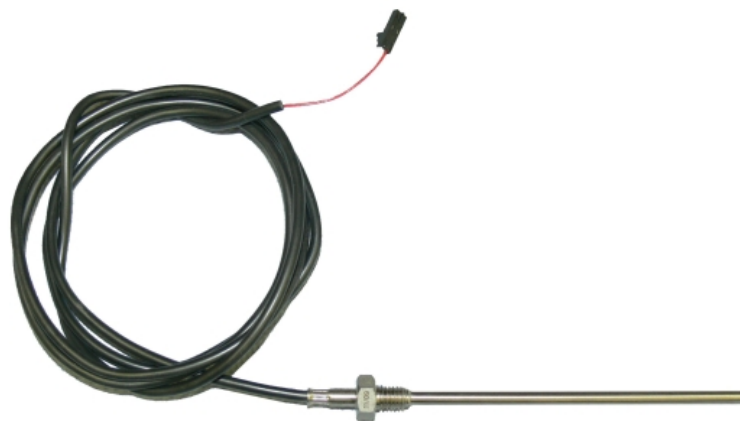
**Part-Number: 404814**



---

## Part: spring ring M4

**Part-Number: 42033**

**Part: washer D125 4,3****Part-Number: 42209****Part: drive fastener D10****Part-Number: 9000-455-001****Part: thermocouple****Part-Number: 9030-140-005****Part: thermo sensor****Part-Number: 9030-140-006**

**Part: glass operating unit Classic Dibas/Ebo****Part-Number: 9030-320-006****Part: glass operating unit Classic nostalgia****Part-Number: 9030-320-011****Part: motherboard universal****Part-Number: 9030-330-001**

**Part: terminal board active 400V**

Part-Number: 9030-330-003

**Part: data cable control Comfort-Classic**

Part-Number: 9030-430-037

**Part: cable USB- extension 0,5m**

Part-Number: 9030-430-112

**Part: USB-extension cord**

Part-Number: 9030-430-113



**Part: supply line 5x2,5**

Part-Number: 9030-430-128



---

**Part: ferrite ring 15,5**

Part-Number: 9030-485-002

---

**Part: binder attachment**

Part-Number: 9520-510-001

---

**Part: control box**

Part-Number: X1600-355-037

---

**Part: control box nostalgia**

Part-Number: X1600-355-061

---

**Part: hinge**

Part-Number: X1700-355-034

---

**Part: cover**

Part-Number: X1700-356-100

---

**Part: sealing frame**

Part-Number: X1700-356-101

---

**Part: sealing**

Part-Number: X1700-356-102

---

**Part: cover USB interface**

Part-Number: X2200-353-053





# Service manual

## Comfort control Ebo 86 M (standard chambers 80/60) 400V 50 Hz

**Version:**

**Ident:**

**Series:**

**Part-Number:**



### Chapter

- 107159 - female multipoint connector 2 pole
- 107160 - multi pin connector 3-pole
- 107161 - female multipoint connector 3 pole
- 107657 - spacer for circuit boards
- 109905 - through terminal, blue 2,5m
- 109919 - hexagonal head screw M4
- 110525 - end clamp grey
- 110744 - nut M4 self-locking
- 111231 - spacer
- 111342 - multi pin connector
- 111343 - cross bridge iso. red 24 A 4/0
- 111345 - cable with plug for axial fan
- 33884 - relay main switch
- 36583 - ferrite core R3615X
- 38400 - loudspeaker
- 402662 - axial blower 19W heat resistance until 75°C
- 404699 - safety temperature limiter (UL) 360°C
- 404814 - intermediate plate clamp
- 42033 - spring ring M4
- 42209 - washer D125 4,3
- 9000-455-001 - drive fastener D10
- 9030-140-005 - thermocouple
- 9030-140-006 - thermo sensor
- 9030-320-005 - glass operating unit Comfort Dibas/Ebo
- 9030-320-012 - glass operating unit Comfort nostalgia
- 9030-330-001 - motherboard universal
- 9030-330-003 - terminal board active 400V
- 9030-430-037 - data cable control Comfort-Classical
- 9030-430-112 - cable USB- extension 0,5m
- 9030-430-113 - USB-extension cord
- 9030-430-128 - supply line 5x2,5
- 9030-485-002 - ferrite ring 15,5
- 9520-510-001 - binder attachment
- X1600-355-037 - control box
- X1600-355-061 - control box nostalgia
- X1700-355-034 - hinge
- X1700-355-104 - distance plate USB Comfort
- X1700-355-105 - holder USB Comfort
- X1700-356-100 - cover
- X1700-356-101 - sealing frame
- X1700-356-102 - sealing
- X2200-353-053 - cover USB interface

**Part: female multipoint connector 2 pole**

Part-Number: 107159

---

**Part: multi pin connector 3-pole**

Part-Number: 107160

---

**Part: female multipoint connector 3 pole**

Part-Number: 107161

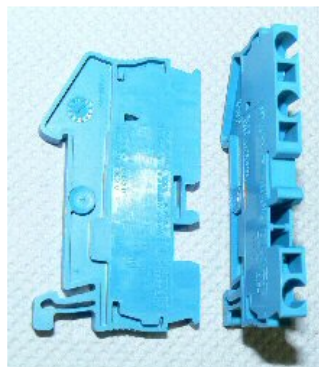
---

**Part: spacer for circuit boards**

Part-Number: 107657

**Part: through terminal, blue 2,5m**

Part-Number: 109905



**Part: hexagonal head screw M4**

Part-Number: 109919

---

**Part: end clamp grey**

Part-Number: 110525

---

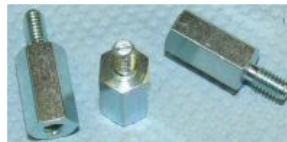
**Part: nut M4 self-locking**

Part-Number: 110744

---

**Part: spacer**

Part-Number: 111231

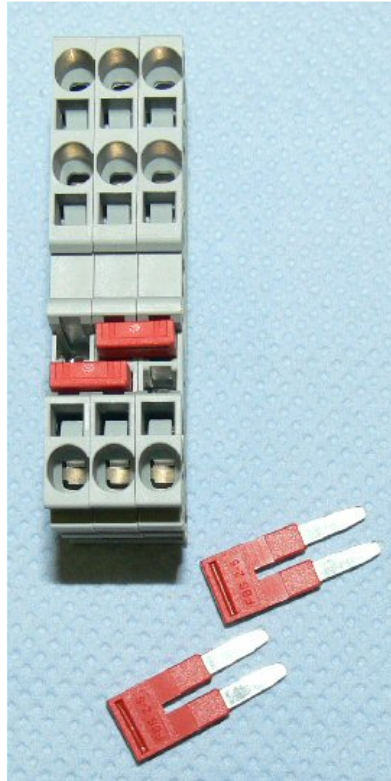
**Part: multi pin connector**

Part-Number: 111342

---

**Part: cross bridge iso. red 24 A 4/0**

**Part-Number: 111343**



**Part: cable with plug for axial fan**

**Part-Number: 111345**



## Part: relay main switch

**Part-Number: 33884**

The contactor switches the heater on/off.



---

## Part: ferrite core R3615X

**Part-Number: 36583**



---

## Part: loudspeaker

**Part-Number: 38400**

The loud speaker signal serves as an acoustic signal. For example notification is given for "temperature reached". "end of program". As well as when opening the door a short gong will sound. If the gong does not work, first of all check the appliance settings. You can reach the menu point "Gong" by going to "Settings - Appliance Settings - Gong". Here you can set the volume and intervals of the sound. If the volume and interval is set to 0 no acoustic signal will be given. Test the gong, by going to the PC-Tool - Function Test. Warning! The PC-Tool- Function test is an endurance test and is not protected from overload!



## Part: axial blower 19W heat resistance until 75°C

**Part-Number: 402662**

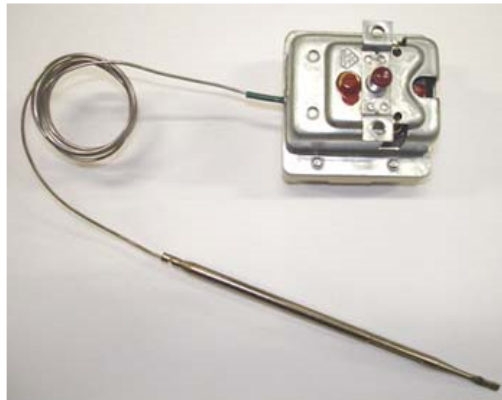
Axial fan to cool the electronic components. Heat resistant up to 75°C, marked with the letter "Z". The service uses as after-market equipment the axial fan, item no. 402661, heat resistant up to 85°C marked with the letter "N".



---

## Part: safety temperature limiter (UL) 360°C

**Part-Number: 404699**



---

## Part: intermediate plate clamp

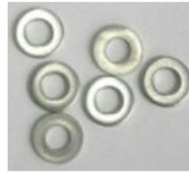
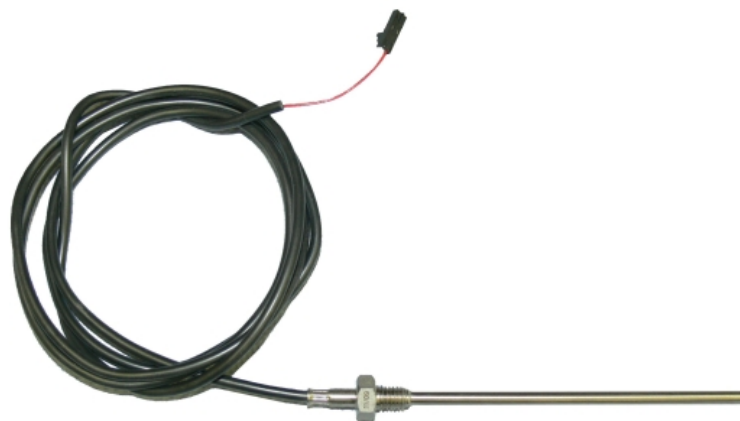
**Part-Number: 404814**



---

## Part: spring ring M4

**Part-Number: 42033**

**Part: washer D125 4,3****Part-Number: 42209****Part: drive fastener D10****Part-Number: 9000-455-001****Part: thermocouple****Part-Number: 9030-140-005****Part: thermo sensor****Part-Number: 9030-140-006**

**Part: glass operating unit Comfort Dibas/Ebo****Part-Number: 9030-320-005****Part: glass operating unit Comfort nostalgia****Part-Number: 9030-320-012****Part: motherboard universal****Part-Number: 9030-330-001**



**Part: terminal board active 400V****Part-Number: 9030-330-003****Part: data cable control Comfort-Classic****Part-Number: 9030-430-037****Part: cable USB- extension 0,5m****Part-Number: 9030-430-112****Part: USB-extension cord****Part-Number: 9030-430-113**

**Part: supply line 5x2,5**

Part-Number: 9030-430-128



---

**Part: ferrite ring 15,5**

Part-Number: 9030-485-002

---

**Part: binder attachment**

Part-Number: 9520-510-001

---

**Part: control box**

Part-Number: X1600-355-037

---

**Part: control box nostalgia**

Part-Number: X1600-355-061

---

**Part: hinge**

Part-Number: X1700-355-034

---

**Part: distance plate USB Comfort**

Part-Number: X1700-355-104

---

**Part: holder USB Comfort**

Part-Number: X1700-355-105

---

**Part: cover**

Part-Number: X1700-356-100

---

**Part: sealing frame**

Part-Number: X1700-356-101

---

**Part: sealing**

Part-Number: X1700-356-102

---

**Part: cover USB interface**

Part-Number: X2200-353-053



# Service manual

## Exclusive control Ebo 86 M (standard chambers 80/60) 400V 50 Hz

**Version:**

**Ident:**

**Series:**

**Part-Number:**



### Chapter

- 107159 - female multipoint connector 2 pole
- 107160 - multi pin connector 3-pole
- 107161 - female multipoint connector 3 pole
- 107657 - spacer for circuit boards
- 109905 - through terminal, blue 2,5m
- 109919 - hexagonal head screw M4
- 110525 - end clamp grey
- 110744 - nut M4 self-locking
- 111231 - spacer
- 111342 - multi pin connector
- 111343 - cross bridge iso. red 24 A 4/0
- 111345 - cable with plug for axial fan
- 33884 - relay main switch
- 36583 - ferrite core R3615X
- 38400 - loudspeaker
- 402662 - axial blower 19W heat resistance until 75°C
- 404699 - safety temperature limiter (UL) 360°C
- 404814 - intermediate plate clamp
- 42033 - spring ring M4
- 42209 - washer D125 4,3
- 9000-455-001 - drive fastener D10
- 9030-140-005 - thermocouple
- 9030-140-006 - thermo sensor
- 9030-320-004 - glass operating unit Exclusive Dibas/Ebo
- 9030-320-013 - glass operating unit Exclusive nostalgia
- 9030-330-001 - motherboard universal
- 9030-330-003 - terminal board active 400V
- 9030-430-037 - data cable control Comfort-Classic
- 9030-430-112 - cable USB- extension 0,5m
- 9030-430-113 - USB-extension cord
- 9030-430-128 - supply line 5x2,5
- 9030-485-002 - ferrite ring 15,5
- 9520-510-001 - binder attachment
- X1600-355-037 - control box
- X1600-355-061 - control box nostalgia
- X1700-355-034 - hinge
- X1700-355-103 - holder USB exclusive
- X1700-356-100 - cover
- X1700-356-101 - sealing frame
- X1700-356-102 - sealing
- X2200-353-053 - cover USB interface

**Part: female multipoint connector 2 pole**

Part-Number: 107159

---

**Part: multi pin connector 3-pole**

Part-Number: 107160

---

**Part: female multipoint connector 3 pole**

Part-Number: 107161

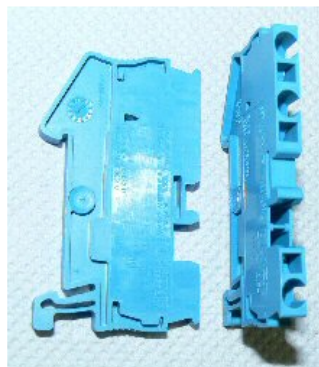
---

**Part: spacer for circuit boards**

Part-Number: 107657

**Part: through terminal, blue 2,5m**

Part-Number: 109905



**Part: hexagonal head screw M4**

Part-Number: 109919

---

**Part: end clamp grey**

Part-Number: 110525

---

**Part: nut M4 self-locking**

Part-Number: 110744

---

**Part: spacer**

Part-Number: 111231

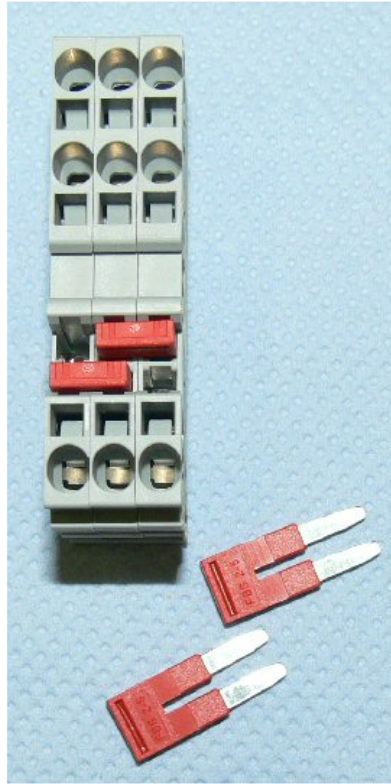
**Part: multi pin connector**

Part-Number: 111342

---

**Part: cross bridge iso. red 24 A 4/0**

**Part-Number: 111343**



**Part: cable with plug for axial fan**

**Part-Number: 111345**



## Part: relay main switch

**Part-Number: 33884**

The contactor switches the heater on/off.



---

## Part: ferrite core R3615X

**Part-Number: 36583**



---

## Part: loudspeaker

**Part-Number: 38400**

The loud speaker signal serves as an acoustic signal. For example notification is given for "temperature reached", "end of program". As well as when opening the door a short gong will sound. If the gong does not work, first of all check the appliance settings. You can reach the menu point "Gong" by going to "Settings - Appliance Settings - Gong". Here you can set the volume and intervals of the sound. If the volume and interval is set to 0 no acoustic signal will be given. Test the gong, by going to the PC-Tool - Function Test. Warning! The PC-Tool- Function test is an endurance test and is not protected from overload!





## Part: axial blower 19W heat resistance until 75°C

**Part-Number: 402662**

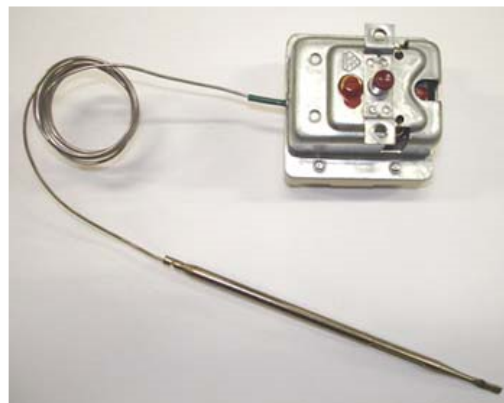
Axial fan to cool the electronic components. Heat resistant up to 75°C, marked with the letter "Z". The service uses as after-market equipment the axial fan, item no. 402661, heat resistant up to 85°C marked with the letter "N".



---

## Part: safety temperature limiter (UL) 360°C

**Part-Number: 404699**



---

## Part: intermediate plate clamp

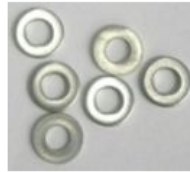
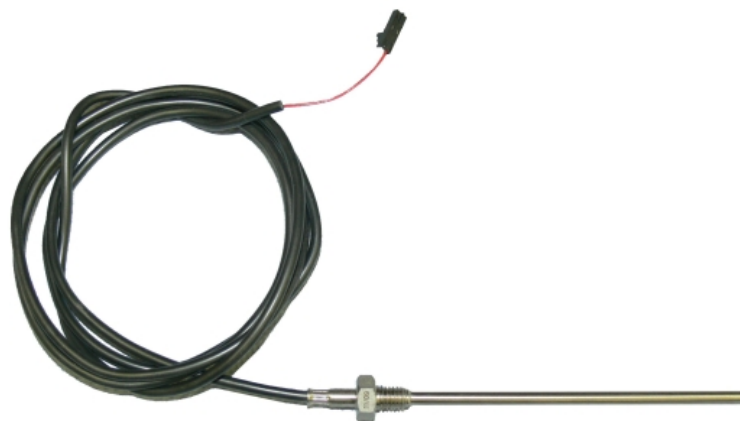
**Part-Number: 404814**



---

## Part: spring ring M4

**Part-Number: 42033**

**Part: washer D125 4,3****Part-Number: 42209****Part: drive fastener D10****Part-Number: 9000-455-001****Part: thermocouple****Part-Number: 9030-140-005****Part: thermo sensor****Part-Number: 9030-140-006**

**Part: glass operating unit Exclusive Dibas/Ebo****Part-Number: 9030-320-004****Part: glass operating unit Exclusive nostalgia****Part-Number: 9030-320-013****Part: motherboard universal****Part-Number: 9030-330-001**

**Part: terminal board active 400V**

Part-Number: 9030-330-003

**Part: data cable control Comfort-Classic**

Part-Number: 9030-430-037

**Part: cable USB- extension 0,5m**

Part-Number: 9030-430-112

**Part: USB-extension cord**

Part-Number: 9030-430-113



**Part: supply line 5x2,5**

Part-Number: 9030-430-128



---

**Part: ferrite ring 15,5**

Part-Number: 9030-485-002

---

**Part: binder attachment**

Part-Number: 9520-510-001

---

**Part: control box**

Part-Number: X1600-355-037

---

**Part: control box nostalgia**

Part-Number: X1600-355-061

---

**Part: hinge**

Part-Number: X1700-355-034

---

**Part: holder USB exclusive**

Part-Number: X1700-355-103

---

**Part: cover**

Part-Number: X1700-356-100

---

**Part: sealing frame**

Part-Number: X1700-356-101

---

**Part: sealing**

Part-Number: X1700-356-102

---

**Part: cover USB interface**

Part-Number: X2200-353-053



# Service manual

## door Ebo 86 M (standard chambers 80/60) 400V 50Hz

**Version:**

**Ident:**

**Series:**

**Part-Number:**

### Chapter

X1700-459-061 - Door bearing - V:

X1630-459-024 - Glass panel mounted - V:

10081 - cover cap door handle

101718 - screw M8

104972 - screw

110667 - cylinder head screw M8x40

110743 - hexagonal nut M8

110752 - washer M8

111416 - spring ring M10

36020 - screw M5x35

402793 - collar bush DIN1850

42009 - nut

42072 - nut

42137 - cylinder screw with slot M3x16

42283 - nut

42356 - spring-ring M8

9000-132-005 - screw DIN923 M6x4

9000-140-005 - grub screw M8

9000-220-002 - nut

9010-120-008 - tension spring

9010-240-004 - thrust piece springy M6x15

9010-445-003 - bush without collar D=8x10x5

X1630-459-003 - shaft

X1700-458-015 - deflection lever

X1700-458-016 - handle

X1700-458-021 - handle with thread

X1700-458-022 - handle with bore

X1700-458-025 - supporting disc

X1700-458-036 - door lever coated

X1700-458-038 - sealing door bearing

X1700-458-043 - seal door bearing

X1700-458-067 - isolation shaft

X1700-458-069 - cam

X1700-459-006 - extension shaft

X1700-459-030 - bearing plate

X1700-459-060 - door bearing right

**Part: cover cap door handle**

Part-Number: 10081

---

**Part: screw M8**

Part-Number: 101718

---

**Part: screw**

Part-Number: 104972

**Part: cylinder head screw M8x40**

Part-Number: 110667

---

**Part: hexagonal nut M8**

Part-Number: 110743

**Part: washer M8**

Part-Number: 110752

---

**Part: spring ring M10**

Part-Number: 111416





**Part: screw M5x35****Part-Number: 36020**from serial number 10225277

---

**Part: collar bush DIN1850****Part-Number: 402793****Part: nut****Part-Number: 42009****Part: nut****Part-Number: 42072****Part: cylinder screw with slot M3x16****Part-Number: 42137**

---

**Part: nut****Part-Number: 42283**

---

**Part: spring-ring M8****Part-Number: 42356**

---

**Part: screw DIN923 M6x4****Part-Number: 9000-132-005**

---

**Part: grub screw M8****Part-Number: 9000-140-005**

---

**Part: nut****Part-Number: 9000-220-002**

---

**Part: tension spring****Part-Number: 9010-120-008**

**Part: thrust piece springy M6x15**

Part-Number: 9010-240-004

---

**Part: bush without collar D=8x10x5**

Part-Number: 9010-445-003

---

**Part: shaft**

Part-Number: X1630-459-003

---

**Part: deflection lever**

Part-Number: X1700-458-015

---

**Part: handle**

Part-Number: X1700-458-016

---

**Part: handle with thread**

Part-Number: X1700-458-021

---

**Part: handle with bore**

Part-Number: X1700-458-022

---

**Part: supporting disc**

Part-Number: X1700-458-025

---

**Part: door lever coated**

Part-Number: X1700-458-036

---

**Part: sealing door bearing**

Part-Number: X1700-458-038

---

**Part: seal door bearing**

Part-Number: X1700-458-043

---

**Part: isolation shaft**

Part-Number: X1700-458-067

---

**Part: cam**

Part-Number: X1700-458-069

---

**Part: extansion shaft**

Part-Number: X1700-459-006

---

**Part: bearing plate**

Part-Number: X1700-459-030

---

**Part: door bearing right**

Part-Number: X1700-459-060

---

# **Service manual**

## **Door bearing**

**Version:**

**Ident:**

**Series:**

**Part-Number: X1700-459-061**

### **Chapter**

402793 - collar bush DIN1850

X1700-458-043 - seal door bearing

X1700-459-060 - door bearing right

**Part: collar bush DIN1850**

Part-Number: 402793



---

**Part: seal door bearing**

Part-Number: X1700-458-043

---

**Part: door bearing right**

Part-Number: X1700-459-060

---

# **Servicemanual**

## **Glass panel mounted**

**Version:**

**Ident:**

**Series:**

**Part-Number: X1630-459-024**

### **Chapter**

- [010] - X1702-460-011 - distance bush
- [020] - X1630-459-014 - glass pane M
- [030] - 9000-129-002 - screw M5 x 16
- [040] - 42034 - nut
- [050] - X1600-459-026 - silicone pad
- [060] - X1600-459-004 - door angle left
- [070] - X1600-459-005 - door angle right

**Part: distance bush**

Part-Number: X1702-460-011

---

**Part: glass pane M**

Part-Number: X1630-459-014

---

**Part: screw M5 x 16**

Part-Number: 9000-129-002

---

**Part: nut**

Part-Number: 42034

**Part: silicone pad**

Part-Number: X1600-459-026

---

**Part: door angle left**

Part-Number: X1600-459-004

---

**Part: door angle right**

Part-Number: X1600-459-005

---



# **Service manual electric-installation Ebo 86 M (standard chambers 80/60) 400V 50Hz**

**Version:**

**Ident:**

**Series:**

**Part-Number:**

## **Chapter**

33884 - relay main switch

70508 - Ebo frame for lamps-lower part

70509 - Ebo protective glass f. lamps-lower part

## Part: relay main switch

Part-Number: 33884

The contactor switches the heater on/off.



---

## Part: Ebo frame for lamps-lower part

Part-Number: 70508



---

## Part: Ebo protective glass f. lamps-lower part

Part-Number: 70509



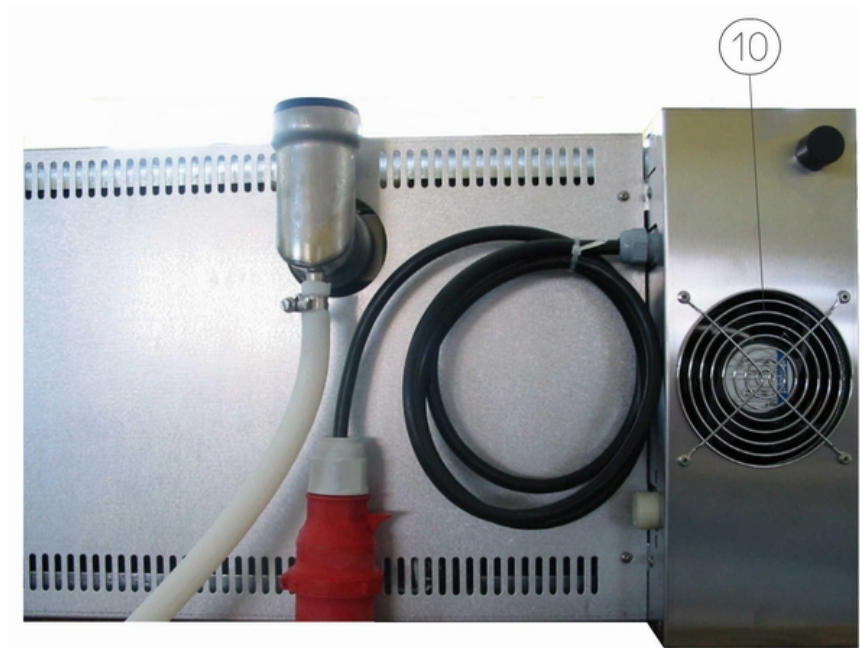
# Service manual frame Ebo 86 M (standard chambers 80/60) 400V 50Hz

Version:

Ident:

Series:

Part-Number:



## Chapter

107448 - lens flange head screw M4x16

109294 - lens flange head screw 4x10

42033 - spring ring M4

42209 - washer D125 4,3

42392 - screw

X1630-500-015 - side panel left / right

X1630-500-025 - side panel left / right nostalgia

[010] - 402662 - axial blower 19W heat resistance until 75°C

**Part: lens flange head screw M4x16**

Part-Number: 107448

---

**Part: lens flange head screw 4x10**

Part-Number: 109294

---

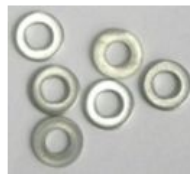
**Part: spring ring M4**

Part-Number: 42033

---

**Part: washer D125 4,3**

Part-Number: 42209

**Part: screw**

Part-Number: 42392

**Part: side panel left / right**

Part-Number: X1630-500-015

---

**Part: side panel left / right nostalgia**

Part-Number: X1630-500-025

---

## Part: axial blower 19W heat resistance until 75°C

**Part-Number: 402662**

Axial fan to cool the electronic components. Heat resistant up to 75°C, marked with the letter "Z". The service uses as after-market equipment the axial fan, item no. 402661, heat resistant up to 85°C marked with the letter "N".



# **Service manual installation-room Ebo 86 M (standard chambers 80/60) 400V 50Hz**

**Version:**

**Ident:**

**Series:**

**Part-Number:**

## **Chapter**

exhaust air - V:

57144 - steam generator Ebo 86 M (standard chambers 80/60) 400V 50Hz - V:  
water connection chambers among each other - V:

111324 - solenoid valve with straight 1 / 4 "thread

33358 - hose connection G1/4"

33524 - HT - hose silicone D 18xS3 LW12

33780 - T-fitting

400534 - flow controller D=2,0

403754 - solenoid valve (flow restrictor) Attention replaced by 111324

42237 - hose clamp 12-22/9A1

9010-110-008 - pressure spring VD-090Y

9020-700-002 - servo drive, Attention replaced by 9020-700-004

9020-700-004 - actuators EBO

9060-115-001 - extension -inside

9060-510-001 - flow meter

X1700-251-024 - exhaust air gasket; Attention replaced by X1700-258-031

X1700-258-031 -

## Part: solenoid valve with straight 1 / 4 "thread

**Part-Number: 111324**

It is necessary to clean the dirt sieve of the solenoid valve regularly. Particles in the water line will stick to the sieve and interrupt the water flow. Please note the maximum water pressure and other warnings from the data sheets regarding the water connection. The solenoid valve works with a flow pressure of 150 - 600 kPa. You can test the solenoid valve function in the PC - Tool - Test. Attention the test is a continued test and this function is not protected from overload.

---

## Part: hose connection G1/4"

**Part-Number: 33358**



## Part: HT - hose silicone D 18xS3 LW12

**Part-Number: 33524**



## Part: T-fitting

**Part-Number: 33780**



## Part: flow controller D=2,0

**Part-Number: 400534**



**Part: solenoid valve (flow restrictor) Attention replaced by 111324****Part-Number: 403754**

It is necessary to clean the dirt sieve of the solenoid valve regularly. Particles in the water line will stick to the sieve and interrupt the water flow. Please note the maximum water pressure and other warnings from the data sheets regarding the water connection. The solenoid valve works with a flow pressure of 150 - 600 kPa. You can test the solenoid valve function in the PC - Tool - Test. Attention the test is a continued test and this function is not protected from overload.

**Part: hose clamp 12-22/9A1****Part-Number: 42237****Part: pressure spring VD-090Y****Part-Number: 9010-110-008****Part: servo drive, Attention replaced by 9020-700-004****Part-Number: 9020-700-002****Part: actuators EBO****Part-Number: 9020-700-004****Part: extension -inside****Part-Number: 9060-115-001**



**Part: flow meter**

**Part-Number: 9060-510-001**



---

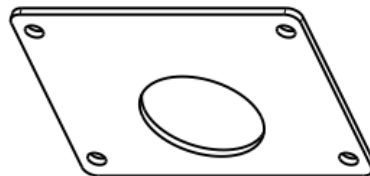
**Part: exhaust air gasket; Attention replaced by X1700-258-031**

**Part-Number: X1700-251-024**

---

**Part:**

**Part-Number: X1700-258-031**



# Service manual exhaust air

**Version:**

**Ident:**

**Series:**

**Part-Number:**

## Chapter

104948 - collar bushing  
104972 - screw  
111263 - clamping sleeve for chain ring  
42008 - nut M4 DIN934  
42500 - grub screw  
9000-132-009 - hexagonal screw M5x8  
9010-445-003 - bush without collar D=8x10x5  
9020-700-004 - actuators EBO  
X1500-257-018 - camshaft  
X1700-258-001 - exhaust air  
X1700-258-018 - camshaft  
X1700-258-039 - lever connection  
X1700-258-055 - holder motor  
X1700-258-058 - role  
X1730-258-062 - drive shaft

**Part: collar bushing**

Part-Number: 104948

---

**Part: screw**

Part-Number: 104972

**Part: clamping sleeve for chain ring**

Part-Number: 111263

---

**Part: nut M4 DIN934**

Part-Number: 42008

**Part: grube screw**

Part-Number: 42500

---

**Part: hexagonal screw M5x8**

Part-Number: 9000-132-009

---

**Part: bush without collar D=8x10x5**

Part-Number: 9010-445-003

---

**Part: actuators EBO**

Part-Number: 9020-700-004

---

**Part: camshaft**

Part-Number: X1500-257-018

---

**Part: exhaust air**

Part-Number: X1700-258-001

---

**Part: camshaft**

Part-Number: X1700-258-018

---

**Part: lever connection**

Part-Number: X1700-258-039

---

**Part: holder motor**

Part-Number: X1700-258-055

---

**Part: role**

Part-Number: X1700-258-058

---

**Part: drive shaft**

Part-Number: X1730-258-062

---

# Service manual steam generator Ebo 86 M (standard chambers 80/60) 400V 50Hz

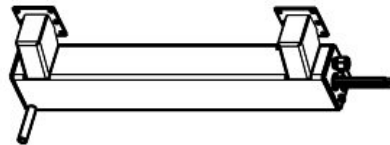
**Version:**

**Ident:**

**Series:**

**Part-Number: 57144**

**This part can be ordered.**

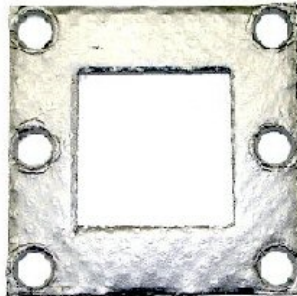


## Chapter

03617 - seal for steam generator  
111323 - Solenoid valve with angled 1 / 4 "thread  
33358 - hose connection G1/4"  
33524 - HT - hose silicone D 18xS3 LW12  
400534 - flow controller D=2,0  
402885 - heater 750W / 230V  
402933 - screw connection  
404919 - nut for boiler connection  
42237 - hose clamp 12-22/9A1  
9060-115-001 - extension -inside  
9060-210-009 - silicone tube tissue  
9060-510-001 - flow meter  
EX1530-236-000 - steam generator standard 86 S+M  
X1500-236-021 - steaming pipe S,M  
X1630-007-008 - isolation second layer  
X1700-218-020 - condensate collector  
X1700-235-052 - filling section of boiler  
X1700-235-053 - blind cover solenoid valve  
X1720-235-001 - steam generator XEbo 68

**Part: seal for steam generator**

Part-Number: 03617

**Part: Solenoid valve with angled 1 / 4 "thread**

Part-Number: 111323

**Part: hose connection G1/4"**

Part-Number: 33358

**Part: HT - hose silicone D 18xS3 LW12**

Part-Number: 33524

**Part: flow controller D=2,0**

Part-Number: 400534



## Part: heater 750W / 230V

Part-Number: 402885

When replacing the pipe heater always to seal the heating pipe to be replaced.



---

## Part: screw connection

Part-Number: 402933



---

## Part: nut for boiler connection

Part-Number: 404919

---

## Part: hose clamp 12-22/9A1

Part-Number: 42237



---

## Part: extension -inside

Part-Number: 9060-115-001



---

## Part: silicone tube tissue

Part-Number: 9060-210-009

---

**Part: flow meter**

Part-Number: 9060-510-001



---

**Part: steam generator standard 86 S+M**

Part-Number: EX1530-236-000

---

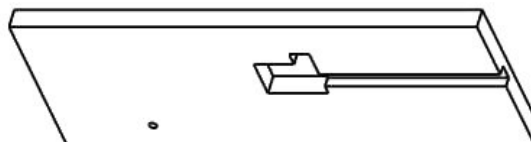
**Part: steaming pipe S,M**

Part-Number: X1500-236-021

---

**Part: isolation second layer**

Part-Number: X1630-007-008



---

**Part: condensate collector**

Part-Number: X1700-218-020

---

**Part: filling section of boiler**

Part-Number: X1700-235-052

---



**Part: blind cover solenoid valve**

Part-Number: X1700-235-053

---

**Part: steam generator XEbo 68**

Part-Number: X1720-235-001

---

# **Servicemanual**

## **water connection chambers among each other**

**Version:**

**Ident:**

**Series:**

**Part-Number:**

### **Chapter**

403230 - angle screw connection 1/4" Ø10

403231 - T-screw-in connection 1/4"

403232 - adapter 3/4" - 1/4"

403233 - plastic tube

403234 - circlip 3/8

**Part: angle screw connection 1/4" Ø10**

Part-Number: 403230



---

**Part: T-screw-in connection 1/4"**

Part-Number: 403231



---

**Part: adapter 3/4" - 1/4"**

Part-Number: 403232



**Part: plastic tube**

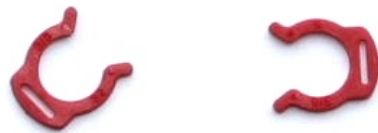
**Part-Number: 403233**



---

**Part: circlip 3/8**

**Part-Number: 403234**



# **Servicemanual**

## **Insulating lid Ebo 86 M (standard chambers 80/60) 400V 50Hz**

**Version:**

**Ident:**

**Series:**

**Part-Number:**

### **Chapter**

X1730-116-100 - insulating lid down

X1730-116-101 - insulating lid up

X1730-116-102 - insulating lid down nostalgia

X1730-116-103 - insulating lid up nostalgia

**Part: insulating lid down**

Part-Number: X1730-116-100

---

**Part: insulating lid up**

Part-Number: X1730-116-101

---

**Part: insulating lid down nostalgia**

Part-Number: X1730-116-102

---

**Part: insulating lid up nostalgia**

Part-Number: X1730-116-103

---

# **Servicemanual piping Ebo 86 M (standard chambers 80/60) 400V 50Hz**

**Version:**

**Ident:**

**Series:**

**Part-Number:**



## **Chapter**

33970 - exhaust air duct gasket DN 50 to 26632

34310 - O-ring, silicone

X1600-200-009 - exhaust tube Ebo M

X1600-200-011 - exhaust tube Ebo M with drain

**Part: exhaust air duct gasket DN 50 to 26632****Part-Number: 33970**

The exhaust air must always exit upwards. Make sure that no steam reaches the electrical slide. The seal must be exchanged when discoloration or cracks occur.



---

**Part: O-ring, silicone****Part-Number: 34310**

---

**Part: exhaust tube Ebo M****Part-Number: X1600-200-009**

---

**Part: exhaust tube Ebo M with drain****Part-Number: X1600-200-011**

---



## **Urheberrecht:**

Das Urheberrecht an diesem Servicehandbuch verbleibt bei der WIESHEU GmbH. Dieses Servicehandbuch ist nur für autorisierte Servicepartner und dessen Personal bestimmt. Sie enthält Vorschriften und Hinweise, die weder vollständig noch teilweise vervielfältigt, verbreitet oder anderweitig mitgeteilt werden dürfen.

Alle Darstellungen, Zeichnungen, Bilder Texte und Angaben sind urheberrechtlich geschützt. Sie unterliegen den gewerblichen Schutzrechten.

## **Zu diesem Servicehandbuch:**

Alle Abbildungen in diesem Dokument sollen die Verständlichkeit unterstützen. Die Abbildungen sind nicht maßstabsgerecht. Teilweise sind dem Originalprodukt ähnelnde Abbildungen dargestellt, die geringfügig abweichen können.

## **Achtung!**

Vermeiden Sie Fehlfunktionen oder Beschädigungen durch falsche Ersatzteile. Wir empfehlen die ausschließliche Verwendung von WIESHEU-Original-Ersatzteilen.

**Wiesheu GmbH**  
**Daimlerstrasse 10**  
**DE-71563 Affalterbach**  
**Telefon: +49 (0)7144 / 3 03-0**  
**Fax: +49 (0)7144 / 3 03-11**  
**Service-Telefon: 0800-WIESHEU**  
**E-Mail: [info@wiesheu.de](mailto:info@wiesheu.de)**  
**[www.wiesheu.de](http://www.wiesheu.de)**

Stand: 4/30/2014