

F25-HE Refrigerated/Heating Circulator

Print Data Sheet



Order Information

Model: F25-HE
Order no.: 9210625

Available mains power: 230V / 50Hz 115V / 60Hz 100V / 50-60Hz 230V / 60Hz

Similar Models

These models could also be interesting for you:

F25-HL F32-HE F25-ME

Sales & Support:



Monday to Friday 7:30 am - 17:00 pm

JULABO Labortechnik GmbH Eisenbahnstrasse 45 77960 Seelbach/Germany Phone +49 7823 51-0 Fax +49 7823 2491 info @julabo.de www.julabo.de

Technical changes reserved. Pictures may differ from original.

Description

Refrigerated/Heating Circulator for internal and external temperature applications

JULABO Refrigerated & Heating Circulators for heating and cooling are suitable for external temperature tasks and for temperature applications directly in the bath. A model from three different series' with different capacities can be selected. Powerful circulating pump systems and high heating and cooling capacities guarantee short heat-up and cool-down times. The inevitable dust accumulation that occurs in refrigeration systems is solved by means of an easily removed venting grill, which allows for easy cleaning. Depending on the model, the units are equipped with handles or castors for an easy transportation. All models have a drain tap on the front allowing the fluid to be drained easily. The compact assembly of each unit enables a space to be saved in the laboratory.

Advantages

- o VFD COMFORT DISPLAY, resolution 0.01 °C
- o Keypad for setpoints, warning/safety values and menu functions
- o ICC (Intelligent Cascade Control), self-optimizing temperature control
- o ATC3 3-Point-Calibration
- o Pt100 External sensor connection for measurement and control
- o SMART PUMP, electronically adjustable pump stages
- o Early warning system for low liquid level (DBGM 203 06 059.8)
- o Adjustable high temperature cut-out, visible via display
- o RS232 interface for online communication
- o Integrated programmer for 10 program steps
- o Active Cooling Control

Technical Specifications	
Working temperature range	-28 200 °C
Temperature control	ICC
Temperature stability	±0.01 °C
Display	VFD
Display resolution	0.01 °C
Integrated programmer	available
Heater capacity	2000 W
Cooling capacity	20 0 -20 °C 260 200 60 W
Refrigerant	R134a
Pump capacity	Pressure: 700 mbar Suction: 400 mbar Flow rate: 22-26 l/min
Digital interfaces	RS232, optional Profibus
External Pt100 sensor connection	available
Bath opening / bath depth (W x L / D)	12 x 14 / 14 cm
Filling volume	4.5 Liters
Dimensions (W x L x H)	23 x 42 x 64 cm
Weight	32 kg
Ambient temperature	540 °C
Classification according to DIN 12876-1	3 (FL)

Miscellaneous



F25-HL Refrigerated/Heating Circulator

Print Data Sheet



Order Information

Model: F25-HL Order no.: 9310625

Available mains power: 230V / 50Hz 115V / 60Hz 100V / 50-60Hz 230V / 60Hz

Similar Models

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F32-HL F25-HE F25-ME

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- o TCF Temperature Control Features to optimize the control behaviour
- o ATC3 3-Point-Calibration
- o Pt100 External sensor connection for measurement and control
- o SMART PUMP, electronically adjustable pump stages
- o Early warning system for low liquid level (DBGM 203 06 059.8)
- o Adjustable high temperature cut-out, visible via display
- o RS232/RS485 interface for online communication
- o Integrated programmer for 6 x 60 program steps
- o Connections for solenoid valve and HSP booster pump
- o Active Cooling Control

Technical Specifications	
Working temperature range	-28 200 °C
Temperature control	ICC
Temperature stability	±0.01 °C
Display	VFD + LCD
Display resolution	0.01 °C
Integrated programmer	available
Heater capacity	2000 W
Cooling capacity	20 0 -20 °C 260 200 60 W
Refrigerant	R134a
Pump capacity	Pressure: 700 mbar Suction: 400 mbar Flow rate: 22-26 l/min
Digital interfaces	RS232, RS485, optional Profibus
External Pt100 sensor connection	available
Bath opening / bath depth (W x L / D)	12 x 14 / 14 cm
Filling volume	4.5 Liters
Dimensions (W x L x H)	23 x 42 x 64 cm
Weight	32 kg
Ambient temperature	540 °C
Classification according to DIN 12876-1	3 (FL)

Miscellaneous



F32-HE Refrigerated/Heating Circulator

Print Data Sheet



Order Information

Model: F32-HE
Order no.: 9210632

Available mains power: 230V / 50Hz 115V / 60Hz 100V / 50-60Hz 230V / 60Hz

Downloads

- EasyTemp Software
- ◆ Interactive product demo
- ◆ Easy BlackBox software

Similar Models

These models could also be interesting for you:

F32-HL F32-ME F32-MC

Sales & Support:



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- o Integrated programmer for 10 program steps
- o Active Cooling Control

Working temperature range	-35 200 °C
Temperature control	ICC
Temperature stability	±0.01 °C
Display	VFD
Display resolution	0.01 °C
Integrated programmer	available
Heater capacity	2000 W
Cooling capacity	20 0 -20 -30 °C 450 390 150 50 W
Refrigerant	R134a
Pump capacity	Pressure: 700 mbar Suction: 400 mbar Flow rate: 22-26 l/min
Digital interfaces	RS232, optional Profibus
External Pt100 sensor connection	available
Bath opening / bath depth (W x L / D)	18 x 12 / 15 cm
Filling volume	8 Liters
Dimensions (W x L x H)	31 x 42 x 66 cm
Weight	38 kg
Ambient temperature	540 °C
Classification according to DIN 12876-1	3 (FL)

Miscellaneous



F32-HL Refrigerated/Heating Circulator

Print Data Sheet



Order Information

Model: F32-HL Order no.: 9310632

Available mains power: 230V / 50Hz 115V / 60Hz 100V / 50-60Hz 230V / 60Hz

Downloads

- EasyTemp Software
- ◆ Interactive product demo
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Similar Models

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- o Active Cooling Control

Technical Specifications	
Working temperature range	-35 200 °C
Temperature control	ICC
Temperature stability	±0.01 °C
Display	VED + LCD
Display resolution	0.01 °C
· ·	available
Integrated programmer	
Heater capacity	2000 W
Cooling capacity	20 0 -20 -30 °C 450 390 150 50 W
Refrigerant	R134a
Pump capacity	Pressure: 700 mbar Suction: 400 mbar Flow rate: 22-26 l/min
Digital interfaces	RS232, RS485, optional Profibus
External Pt100 sensor connection	available
Bath opening / bath depth (W x L / D)	18 x 12 / 15 cm
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- o Connections for solenoid valve and HSP booster pump
- o Active Cooling Control

Technical Specifications	
Working temperature range	-30 200 °C
Temperature control	ICC
Temperature stability	±0.01 °C
Display	VFD + LCD
Display resolution	0.01 °C
Integrated programmer	available
Heater capacity	2000 W
Cooling capacity	20 0 -20 -30 °C 500 320 120 30 W
Refrigerant	R134a
Pump capacity	Pressure: 700 mbar Suction: 400 mbar Flow rate: 22-26 l/min
Digital interfaces	RS232, RS485, optional Profibus
External Pt100 sensor connection	available
Bath opening / bath depth (W x L / D)	23 x 14 / 20 cm
Filling volume	16 Liters
Dimensions (W x L x H)	36 x 46 x 71 cm
Weight	45 kg
Ambient temperature	540 °C
Classification according to DIN 12876-1	3 (FL)

Miscellaneous



F34-HE Refrigerated/Heating Circulator

Print Data Sheet



Order Information

Model: F34-HE
Order no.: 9210634

Available mains power: 230V / 50Hz 115V / 60Hz 230V / 60Hz

Downloads

- ◆ EasyTemp Software
- Interactive product demo
- ◆ Easy BlackBox software

Similar Models

These models could also be interesting for you:

F34-HL F34-ME F34-MC

Sales & Support:



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- o Pt100 External sensor connection for measurement and control
- o SMART PUMP, electronically adjustable pump stages
- o Early warning system for low liquid level (DBGM 203 06 059.8)
- o Adjustable high temperature cut-out, visible via display
- o RS232 interface for online communication
- o Integrated programmer for 10 program steps
- o Active Cooling Control

Technical Specifications	
Working temperature range	-30 150 °C
Temperature control	ICC
Temperature stability	±0.01 °C
Display	VFD
Display resolution	0.01 °C
Integrated programmer	available
Heater capacity	2000 W
Cooling capacity	20 0 -20 -30 °C 450 320 140 30 W
Refrigerant	R134a
Pump capacity	Pressure: 700 mbar Suction: 400 mbar Flow rate: 22-26 l/min
Digital interfaces	RS232, optional Profibus
External Pt100 sensor connection	available
Bath opening / bath depth (W x L / D)	24 x 30 / 15 cm
Filling volume	20 Liters
Dimensions (W x L x H)	38 x 58 x 64 cm
Weight	44 kg
Ambient temperature	540 °C
Classification according to DIN 12876-1	3 (FL)

Miscellaneous



F34-HL Refrigerated/Heating Circulator

Print Data Sheet



Order Information

Model: F34-HL Order no.: 9310634

Available mains power: 230V / 50Hz 115V / 60Hz 230V / 60Hz

Downloads

- ◆ EasyTemp Software
- Interactive product demo
- ◆ Easy BlackBox software

Similar Models

These models could also be interesting for you:

F34-HE F34-ME F34-MC

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- o Keypad for setpoints, warning/safety values and menu functions
- o ICC (Intelligent Cascade Control), self-optimizing temperature control
- o TCF Temperature Control Features to optimize the control behaviour
- o ATC3 3-Point-Calibration
- o Pt100 External sensor connection for measurement and control
- o SMART PUMP, electronically adjustable pump stages
- o Early warning system for low liquid level (DBGM 203 06 059.8)
- o Adjustable high temperature cut-out, visible via display
- o RS232/RS485 interface for online communication
- o Integrated programmer for 6 x 60 program steps
- o Connections for solenoid valve and HSP booster pump
- o Active Cooling Control

Technical Specifications	
Working temperature range	-30 150 °C
Temperature control	ICC
Temperature stability	±0.01 °C
Display	VFD + LCD
Display resolution	0.01 °C
Integrated programmer	available
Heater capacity	2000 W
Cooling capacity	20 0 -20 -30 °C 450 320 140 30 W
Refrigerant	R134a
Pump capacity	Pressure: 700 mbar Suction: 400 mbar Flow rate: 22-26 l/min
Digital interfaces	RS232, RS485, optional Profibus
External Pt100 sensor connection	available
Bath opening / bath depth (W x L / D)	24 x 30 / 15 cm
Filling volume	20 Liters
Dimensions (W x L x H)	38 x 58 x 64 cm
Weight	44 kg
Ambient temperature	540 °C
Classification according to DIN 12876-1	3 (FL)

Miscellaneous



FP35-HL Refrigerated/Heating Circulator

Print Data Sheet



Order Information

Model: FP35-HL Order no.: 9310618

Available mains power: 230V / 50Hz 115V / 60Hz 100V / 50-60Hz

Similar Models

These models could also be interesting for you:

FP35-MC CF40 CF41

Sales & Support:



Monday to Friday 7:30 am - 17:00 pm

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Description

Refrigerated/Heating Circulator for external temperature applications

JULABO Refrigerated & Heating Circulators for heating and cooling are suitable for external temperature tasks and for temperature applications directly in the bath. A model from three different series' with different capacities can be selected. Powerful circulating pump systems and high heating and cooling capacities guarantee short heat-up and cool-down times. The inevitable dust accumulation that occurs in refrigeration systems is solved by means of an easily removed venting grill, which allows for easy cleaning. Depending on the model, the units are equipped with handles or castors for an easy transportation. All models have a drain tap on the front allowing the fluid to be drained easily. The compact assembly of each unit enables a space to be saved in the laboratory.

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- o TCF Temperature Control Features to optimize the control behaviour
- o ATC3 3-Point-Calibration
- o Pt100 External sensor connection for measurement and control
- o SMART PUMP, electronically adjustable pump stages
- o Early warning system for low liquid level (DBGM 203 06 059.8)
- o Adjustable high temperature cut-out, visible via display
- o RS232/RS485 interface for online communication
- o Integrated programmer for 6 x 60 program steps
- o Connections for solenoid valve and HSP booster pump
- o Active Cooling Control

Technical Specifications	
Working temperature range	-35 150 °C
Temperature control	ICC
Temperature stability	±0.01 °C
Display	VFD + LCD
Display resolution	0.01 °C
Integrated programmer	available
Heater capacity	2000 W
Cooling capacity	20 0 -20 -30 °C 460 340 150 50 W
Refrigerant	R134a
Pump capacity	Pressure: 700 mbar Suction: 400 mbar Flow rate: 22-26 l/min
Digital interfaces	RS232, RS485, optional Profibus
External Pt100 sensor connection	available
Filling volume	2.5 Liters
Dimensions (W x L x H)	31 x 42 x 66 cm
Weight	38 kg
Ambient temperature	540 °C
Classification according to DIN 12876-1	3 (FL)

Miscellaneous



FP40-HE Refrigerated/Heating Circulator

Print Data Sheet

Product Image



Order Information

Model: FP40-HE Order no.: 9210640

Available mains power: 230V / 50Hz 230V / 60Hz

Similar Models

These models could also be interesting for you:

FP40-HL FP50-HE **F32-HE**

Sales & Support:



+49 7823 51-190

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Description

Refrigerated/Heating Circulator for internal and external temperature applications with proportional cooling control

JULABO Refrigerated & Heating Circulators for heating and cooling are suitable for external temperature tasks and for temperature applications directly in the bath. A model from three different series' with different capacities can be selected. Powerful circulating pump systems and high heating and cooling capacities guarantee short heat-up and cool-down times. The inevitable dust accumulation that occurs in refrigeration systems is solved by means of an easily removed venting grill, which allows for easy cleaning. Depending on the model, the units are equipped with handles or castors for an easy transportation. All models have a drain tap on the front allowing the fluid to be drained easily. The compact assembly of each unit enables a space to be saved in the laboratory.

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- o VFD COMFORT DISPLAY, resolution 0.01 °C
- o Keypad for setpoints, warning/safety values and menu functions
- o ICC (Intelligent Cascade Control), self-optimizing temperature control
- o ATC3 3-Point-Calibration
- o Pt100 External sensor connection for measurement and control
- o SMART PUMP, electronically adjustable pump stages
- o Early warning system for low liquid level (DBGM 203 06 059.8)
- o Adjustable high temperature cut-out, visible via display
- o RS232 interface for online communication
- o Integrated programmer for 10 program steps
- o Proportional cooling control
- o Active Cooling Control

Technical Specifications

Toolilloar opcomoduono	
Working temperature range	-40 200 °C
Temperature control	ICC
Temperature stability	±0.01 °C
Display	VFD
Display resolution	0.01 °C
Integrated programmer	available
Heater capacity	2000 W
Cooling capacity	20 0 -20 -40 °C 680 500 320 40 W
Refrigerant	R404a
Pump capacity	Pressure: 700 mbar Suction: 400 mbar Flow rate: 22-26 l/min
Digital interfaces	RS232, optional Profibus
External Pt100 sensor connection	available
Bath opening / bath depth (W x L / D)	23 x 14 / 20 cm
Filling volume	16 Liters
Dimensions (W x L x H)	37 x 46 x 71 cm
Weight	49 kg
Ambient temperature	540 °C
Classification according to DIN 12876-1	3 (FL)

Miscellaneous



FP40-HL Refrigerated/Heating Circulator

Print Data Sheet

Product Image



Order Information

Model: FP40-HL Order no.: 9310640

Available mains power: 230V / 50Hz 230V / 60Hz

Similar Models

These models could also be interesting for you:

FP50-HL FP40-HE F32-HL

Sales & Support:



+49 7823 51-190

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Description

Refrigerated/Heating Circulator for internal and external temperature applications with proportional cooling control

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- o Adjustable high temperature cut-out, visible via display
- o RS232/RS485 interface for online communication
- o Integrated programmer for 6 x 60 program steps
- o Connections for solenoid valve and HSP booster pump
- o Proportional cooling control
- o Active Cooling Control

Technical Specifications

Working temperature range	-40 200 °C
Temperature control	ICC
Temperature stability	±0.01 °C
Display	VFD + LCD
Display resolution	0.01 °C
Integrated programmer	available
Heater capacity	2000 W
Cooling capacity	20 0 -20 -40 °C 680 500 320 40 W
Refrigerant	R404a
Pump capacity	Pressure: 700 mbar Suction: 400 mbar Flow rate: 22-26 l/min
Digital interfaces	RS232, RS485, optional Profibus
External Pt100 sensor connection	available
Bath opening / bath depth (W x L / D)	23 x 14 / 20 cm
Filling volume	16 Liters
Dimensions (W x L x H)	37 x 46 x 71 cm
Weight	49 kg
Ambient temperature	540 °C
Classification according to DIN 12876-1	3 (FL)

Miscellaneous



FP45-HE Refrigerated/Heating Circulator

Print Data Sheet



Order Information

Model: FP45-HE Order no.: 9210645

Available mains power: 230V / 50-60Hz

Similar Models

These models could also be interesting for you:

FP45-HE

Sales & Support:



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Description

Refrigerated/Heating Circulator for internal and external temperature applications with proportional cooling control

JULABO Refrigerated & Heating Circulators for heating and cooling are suitable for external temperature tasks and for temperature applications directly in the bath. A model from three different series' with different capacities can be selected. Powerful circulating pump systems and high heating and cooling capacities guarantee short heat-up and cool-down times. The inevitable dust accumulation that occurs in refrigeration systems is solved by means of an easily removed venting grill, which allows for easy cleaning. Depending on the model, the units are equipped with handles or castors for an easy transportation. All models have a drain tap on the front allowing the fluid to be drained easily. The compact assembly of each unit enables a space to be saved in the laboratory.

Advantages

- o VFD COMFORT DISPLAY, resolution 0.01 °C
- o Keypad for setpoints, warning/safety values and menu functions
- o ICC (Intelligent Cascade Control), self-optimizing temperature control
- o ATC3 3-Point-Calibration
- o Pt100 External sensor connection for measurement and control
- o SMART PUMP, electronically adjustable pump stages
- o Early warning system for low liquid level (DBGM 203 06 059.8)
- o Adjustable high temperature cut-out, visible via display
- o RS232 interface for online communication
- o Integrated programmer for 10 program steps
- o Proportional cooling control
- o Active Cooling Control

Technical Specifications	
Working temperature range	-42 200 °C
Temperature control	ICC
Temperature stability	±0.01 °C
Display	VFD
Display resolution	0.01 °C
Integrated programmer	available
Heater capacity	2000 W
Cooling capacity	20 0 -20 -40 °C 850 700 420 80 W
Refrigerant	R404a
Pump capacity	Pressure: 700 mbar Suction: 400 mbar Flow rate: 22-26 l/min
Digital interfaces	RS232, optional Profibus
External Pt100 sensor connection	available
Bath opening / bath depth (W x L / D)	23 x 26 / 20 cm
Filling volume	26 Liters
Dimensions (W x L x H)	38 x 58 x 69 cm
Weight	53 kg
Ambient temperature	540 °C
Classification according to DIN 12876-1	3 (FL)

Miscellaneous



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Product Data Sheet

FP45-HL Refrigerated/Heating Circulator

Print Data Sheet



Order Information

Model: FP45-HL Order no.: 9310645

Available mains power: 230V / 50-60Hz

Similar Models

These models could also be interesting for you:

FP45-HL

Sales & Support:



Monday to Friday 7:30 am - 17:00 pm

JULABO Labortechnik GmbH Eisenbahnstrasse 45 77960 Seelbach/Germany Phone +49 7823 51-0 Fax +49 7823 2491 info@julabo.de www.julabo.de

Technical changes reserved. Pictures may differ from original.

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Advantages

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- o Keypad for setpoints, warning/safety values and menu functions
- o ICC (Intelligent Cascade Control), self-optimizing temperature control
- o TCF Temperature Control Features to optimize the control behaviour
- o ATC3 3-Point-Calibration
- o Pt100 External sensor connection for measurement and control
- o SMART PUMP, electronically adjustable pump stages
- o Early warning system for low liquid level (DBGM 203 06 059.8)
- o Adjustable high temperature cut-out, visible via display
- o RS232/RS485 interface for online communication
- o Integrated programmer for 6 x 60 program steps
- o Connections for solenoid valve and HSP booster pump
- o Proportional cooling control
- o Active Cooling Control

Technical Specifications	
Working temperature range	-42 200 °C
Temperature control	ICC
Temperature stability	±0.01 °C
Display	VFD + LCD
Display resolution	0.01 °C
Integrated programmer	available
Heater capacity	2000 W
Cooling capacity	20 0 -20 -40 °C 850 700 420 80 W
Refrigerant	R404a
Pump capacity	Pressure: 700 mbar Suction: 400 mbar Flow rate: 22-26 l/min
Digital interfaces	RS232, RS485, optional Profibus
External Pt100 sensor connection	available
Bath opening / bath depth (W x L / D)	23 x 26 / 20 cm
Filling volume	26 Liters
Dimensions (W x L x H)	38 x 58 x 69 cm
Weight	53 kg
Ambient temperature	540 °C
Classification according to DIN 12876-1	3 (FL)

Miscellaneous



FP50-HE Refrigerated/Heating Circulator

Print Data Sheet



Order Information

Model: FP50-HE
Order no.: 9210650

Available mains power: 230V / 50Hz 230V / 60Hz

Similar Models

These models could also be interesting for you:

FP50-HL LH45 FP50-ME

Sales & Support:



Monday to Friday 7:30 am - 17:00 pm

JULABO Labortechnik GmbH Eisenbahnstrasse 45 77960 Seelbach/Germany Phone +49 7823 51-0 Fax +49 7823 2491 info@julabo.de www.julabo.de

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- o Pt100 External sensor connection for measurement and control
- o SMART PUMP, electronically adjustable pump stages
- o Early warning system for low liquid level (DBGM 203 06 059.8)
- o Adjustable high temperature cut-out, visible via display
- o RS232 interface for online communication
- o Integrated programmer for 10 program steps
- o Proportional cooling control
- o Active Cooling Control

Technical Specifications	
Working temperature range	-50 200 °C
Temperature control	ICC
Temperature stability	±0.01 °C
Display	VFD
Display resolution	0.01 °C
Integrated programmer	available
Heater capacity	2000 W
Cooling capacity	20 0 -20 -40 °C 900 800 500 160 W
Refrigerant	R404a
Pump capacity	Pressure: 700 mbar Suction: 400 mbar Flow rate: 22-26 l/min
Digital interfaces	RS232, optional Profibus
External Pt100 sensor connection	available
Bath opening / bath depth (W x L / D)	18 x 12 / 15 cm
Filling volume	8 Liters
Dimensions (W x L x H)	42 x 49 x 72 cm
Weight	57 kg
Ambient temperature	540 °C
Classification according to DIN 12876-1	3 (FL)

Miscellaneous



FP50-HL Refrigerated/Heating Circulator

Print Data Sheet



Order Information

Model: FP50-HL Order no.: 9310650

Available mains power: 230V / 50Hz 230V / 60Hz

Similar Models

These models could also be interesting for you:

FP50-HE LH45 FP50-ME

Sales & Support:



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