

SERIES MU

CONVERTERS FOR INDUCTIVE HEATING

Mid-frequency converters
25 - 250 kW / 4 - 50 kHz



HIMMELWERK
Leading Induction

MU series

Model	MU-25	MU-40	MU-60	MU-80	MU-100
Output					
HF-Power	25 kW	40 kW	60 kW	80 kW	100 kW
Frequency	8-50 kHz			8-30 kHz	
Input					
Mains power	28 kVA	44 kVA	67 kVA	89 kVA	111 kVA
Mains voltage*	3x400V +/-10% / PE				
Mains current	40 A	63 A	97 A	128 A	160 A
Frequency	50 / 60 Hz				
Cosinus phi	0,9				
Fuses	63 A	100 A	125 A	160 A	200 A
Cooling Water					
Converter	10l / min	12l / min	12l / min	15l / min	15l / min
Outer circuit	5l / min	5l / min	5l / min	5l / min	5l / min
Inductor	Depending on application				
Input pressure	< 6 bar				
Pressure difference	> 3,5 bar				
Temperature	18°C - 25°C				
Dimensions (WxHxD) in mm					
Converter	600x1100x600	600x1100x600	600x1600x600	600x1600x600	600x1600x600
Outer circuit**	220x226x330	300x311x350	300x311x350	300x311x350	300x311x350
Weight					
Converter	260 kg	290 kg	330 kg	340 kg	350 kg
Outer circuit**	13 kg	15 kg	15 kg	15 kg	15 kg

*Other voltages on request
**Different configurations on request

MU series

Model	MU-125	MU-150	MU-175	MU-200	MU-250
Output					
HF-Power	125 kW	150 kW	175 kW	200 kW	250 kW
Frequency	8-20 kHz				
Input					
Mains power	139 kVA	167 kVA	194 kVA	222 kVA	278 kVA
Mains voltage*	3x400V +/-10% / PE				
Mains current	200 A	241 A	280 A	320 A	401 A
Frequency	50 / 60 Hz				
Cosinus phi	0,95				
Fuses	250 A	300 A	350 A	400 A	450 A
Cooling Water					
Converter	15l / min	15l / min	15l / min	18l / min	20l / min
Outer circuit	5l / min	5l / min	5l / min	5l / min	5l / min
Inductor	Depending on application				
Input pressure	< 6 bar				
Pressure difference	> 3,5 bar				
Temperature	18°C - 25°C				
Dimensions (WxHxD) in mm					
Converter	1200x2200x800	1200x2200x800	1200x2200x800	1200x2200x800	1200x2200x800
Outer circuit**	300x311x350	300x311x350	300x311x350	300x311x350	300x311x350
Weight					
Converter	600 kg	630 kg	720 kg	730 kg	750 kg
Outer circuit**	15 kg	15 kg	15 kg	15 kg	15 kg

*Other voltages on request
**Different configurations on request

Advantages

- High efficiency
- High reliability
- Reproducibility of all parameters
- Selective heating
- Designed for 100% duty cycle
- Easy integration in production processes
- Immediate readiness
- High cost effectiveness
- No need for demineralized cooling water

Flexibility

- Large spectrum of applications
- Free programming
- External heating head with compact design
- Optional second switchable heating head
- Connection with flexible cables
- Interface for external control
- Profibus, Profinet optional
- Other interface options on request
- Optional connection with pyrometer

Applications

- Brazing and Soldering
- Hardening / Tempering
- Joining
- Forging
- Pre-Heating
- Annealing
- Sealing
- Smelting
- Drying
- Baking
- Recycling
- Special Solutions

