

HIMMELWERK

Induction. Heating. Solutions.



Converters for induction heating

HU S series

25 kW - 250 kW

50 kHz - 600 kHz

The HU S series

Model	HU S-25	HU S-40	HU S-50	HU S-75	HU S-100
Output					
HF-Power	25 kW	40 kW	50 kW	75 kW	100 kW
Frequency	50-150 kHz / 100-300 kHz / 200-600 kHz				
Input					
Main power	26 kVA	42 kVA	53 kVA	79 kVA	105 kVA
Main voltage*	3x400V +/-10% / PE				
Main current	37 A	61 A	76 A	114 A	152 A
Frequency	50 / 60 Hz				
Cosinus phi	0.9				
Fuses	63 A	100 A	125 A	160 A	200 A
Cooling Water					
Power supply	10l / min	12l / min	12l / min	15l / min	15l / min
External 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					
Power supply	600x1100x600	600x1100x600	600x1100x600	600x1100x600	600x1100x600
External circuit	220x226x330	300x311x350	300x311x350	300x311x350	300x311x350
Weights					
Power supply	300 kg	310 kg	320 kg	360 kg	390 kg
External circuit	13 kg	15 kg	15 kg	15 kg	15 kg

* Other tensions available

The HU S series

Model	HU S-125	HU S-150	HU S-175	HU S-200	HU S-250
Output					
HF-Power	125 kW	150 kW	175 kW	200 kW	250 kW
Frequency	50-150 kHz / 100-300 kHz / 200-600 kHz				
Input					
Main power	131 kVA	157 kVA	184 kVA	210 kVA	263 kVA
Main voltage*	3x400V +/-10% / PE electively 3x480V				
Main current	189 A	228 A	266 A	303 A	380 A
Frequency	50 / 60 Hz				
Cosinus phi	0.95				
Fuses	250 A	300 A	350 A	400 A	450 A
Cooling Water					
Power supply	15l / min	15l / min	15l / min	18l / min	20l / min
External 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					
Power supply	1200x2200x800	1200x2200x800	1200x2200x800	1200x2200x800	1200x2200x800
External circuit	300x311x350	300x311x350	300x311x350	300x311x350	300x311x350
Weights					
Power supply	630 kg	680 kg	750 kg	760 kg	800 kg
External circuit	15 kg	15 kg	15 kg	15 kg	15 kg

* Other tensions available

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 (depending on converter type)
- Connection with flexible cables
- Interface for external control
- Profibus, Profinet optional
- Other interfaces on request
- Optional connection with pyrometer

Applications

- brazing
- soldering
- hardening
- shrinkage
- pre-heating
- annealing
- smelting
- drying
- tempering
- forging
- sintering
- sealing

