

# Master M Cooler MV



## OVERVIEW

The cooling unit supports multi-voltage use. Easy, fast and convenient coolant filling with integrated LED lighting for cooling liquid levels.

## TECHNICAL SPECIFICATIONS

Master M 350 A, G	Master M 353 G	Master M 355 G	Master M 358 G
Product code	MSM353G	MSM355G	MSM358G
Connection voltage 3~ 50/60 Hz	380 - 460 V ± 10 %	380 - 460 V ± 10 %	380 - 460 V ± 10 %
Fuse	16 A	16 A	16 A
Output 40% ED	350 A (MMA 330 A)	350 A (MMA 330 A)	350 A (MMA 330 A)
Output 60% ED	280 A	280 A	280 A
Output 100% ED	220 A	220 A	220 A
Wire feed mechanism	4-roll, single-motor	4-roll, single-motor	4-roll, single-motor
Wire feed speed	0.5 - 25 m/min	0.5 - 25 m/min	0.5 - 25 m/min
Rated power at max. current	14 kVA	14 kVA	14 kVA
Recommended generator power (min)	20 kVA	20 kVA	20 kVA
Gun connection	Euro	Euro	Euro
Wire spool weight, max.	20 kg	20 kg	20 kg
Wire spool diameter, max.	300 mm	300 mm	300 mm
Filler wires, Ss	0.8 - 1.2 mm	0.8 - 1.2 mm	0.8 - 1.2 mm
Filler wires, Al	0.8 - 1.2 mm	0.8 - 1.2 mm	0.8 - 1.2 mm
Filler wires, Fe	0.8 - 1.2 mm	0.8 - 1.2 mm	0.8 - 1.2 mm
Filler wires, MC/FC	0.8 - 1.2 mm	0.8 - 1.2 mm	0.8 - 1.2 mm
Diameter of feed rolls	32mm	32mm	32mm
Welding current and voltage range, MIG	15 A/10 V - 350 A/ 45 V	15 A/10 V - 350 A/ 45 V	15 A/10 V - 350 A/ 45 V

<b>Master M 350 A, G</b>	<b>Master M 353 G</b>	<b>Master M 355 G</b>	<b>Master M 358 G</b>
Welding current and voltage range, TIG	15 A/1 V - 350 A/ 45 V	15 A/1 V - 350 A/ 45 V	15 A/1 V - 350 A/ 45 V
Welding current and voltage range, MMA	15 A/10 V - 330 A/ 45 V	15 A/10 V - 330 A/ 45 V	15 A/10 V - 330 A/ 45 V
Shielding gas pressure (max)	0.5 MPa	0.5 MPa	0.5 MPa
External dimensions LxWxH	602 x 298 x 447 mm	602 x 298 x 447 mm	602 x 298 x 447 mm
Weight (no accessories)	27 kg	27 kg	27 kg
Degree of protection	IP23S	IP23S	IP23S
Standards	IEC 60974-1, -10	IEC 60974-1, -10	IEC 60974-1, -10
EMC class	A	A	A
Operating temperature range	-20...+40 °C	-20...+40 °C	-20...+40 °C
Storage temperature range	-40...+60 °C	-40...+60 °C	-40...+60 °C

<b>Master M 350 A, GM</b>	<b>Master M 353 GM</b>	<b>Master M 355 GM</b>	<b>Master M 358 GM</b>
Product code	MSM353GM	MSM355GM	MSM358GM
Connection voltage 3~ 50/60 Hz	380 - 460 V ±10 %; 220 - 230 V ±10 %	380 - 460 V ±10 %; 220 - 230 V ±10 %	380 - 460 V ±10 %; 220 - 230 V ±10 %
Fuse	16/32 A	16/32 A	16/32 A
Output 40% ED	350 A (MMA 330 A); 300 A (MMA 280 A)	350 A (MMA 330 A); 300 A (MMA 280 A)	350 A (MMA 330 A); 300 A (MMA 280 A)
Output 60% ED	280 A; 240 A	280 A; 240 A	280 A; 240 A
Output 100% ED	220 A; 190 A	220 A; 190 A	220 A; 190 A
Wire feed mechanism	4-roll, single-motor	4-roll, single-motor	4-roll, single-motor
Wire feed speed	0.5 - 25 m/min	0.5 - 25 m/min	0.5 - 25 m/min
Rated power at max. current	14 kVA	14 kVA	14 kVA
Recommended generator power (min)	20 kVA	20 kVA	20 kVA
Gun connection	Euro	Euro	Euro
Wire spool weight, max.	20 kg	20 kg	20 kg
Wire spool diameter, max.	300 mm	300 mm	300 mm
Filler wires, Ss	0.8 - 1.2 mm	0.8 - 1.2 mm	0.8 - 1.2 mm
Filler wires, Al	0.8 - 1.2 mm	0.8 - 1.2 mm	0.8 - 1.2 mm
Filler wires, Fe	0.8 - 1.2 mm	0.8 - 1.2 mm	0.8 - 1.2 mm
Filler wires, MC/FC	0.8 - 1.2 mm	0.8 - 1.2 mm	0.8 - 1.2 mm
Diameter of feed rolls	32mm	32mm	32mm
Welding current and voltage range, MIG	15 A/10 V - 350 A/ 45 V 15 A/10 V - 300 A/ 40 V	15 A/10 V - 350 A/ 45 V; 15 A/10 V - 300 A/ 40 V	15 A/10 V - 350 A/ 45 V; 15 A/10 V - 300 A/ 40 V
Welding current and voltage range, TIG	15 A/1 V - 350 A/ 45 V; 15 A/1 V - 300 A/ 40 V	15 A/1 V - 350 A/ 45 V; 15 A/1 V - 300 A/ 40 V	15 A/1 V - 350 A/ 45 V; 15 A/1 V - 300 A/ 40 V
Welding current and voltage range, MMA	15 A/10 V - 330 A/ 45 V; 15 A/10 V - 280 A/ 40 V	15 A/10 V - 330 A/ 45 V; 15 A/10 V - 280 A/ 40 V	15 A/10 V - 330 A/ 45 V; 15 A/10 V - 280 A/ 40 V
Shielding gas pressure (max)	0.5 MPa	0.5 MPa	0.5 MPa
External dimensions LxWxH	602 x 298 x 447 mm	602 x 298 x 447 mm	602 x 298 x 447 mm
Weight (no accessories)	27 kg	27 kg	27 kg

<b>Master M 350 A, GM</b>	<b>Master M 353 GM</b>	<b>Master M 355 GM</b>	<b>Master M 358 GM</b>
Degree of protection	IP23S	IP23S	IP23S
Standards	IEC 60974-1, -10	IEC 60974-1, -10	IEC 60974-1, -10
EMC class	A	A	A
Operating temperature range	-20...+40 °C	-20...+40 °C	-20...+40 °C
Storage temperature range	-40...+60 °C	-40...+60 °C	-40...+60 °C

<b>Master M Coolers</b>	<b>Master M Cooler</b>	<b>Master M Cooler MV</b>
Product code	MSMC1KW	MSMC1KWM
Recommended coolant	MGP 4456 (Kemppi mixture)	MGP 4456 (Kemppi mixture)
External dimensions LxWxH	635 x 305 x 292 mm	635 x 305 x 292 mm
Weight (no accessories)	14.9 kg	14.9 kg
Standards	IEC 60974-2, -10	IEC 60974-2, -10
Tank volume	3 l	3 l
EMC class	A	A
Cooling power	1.0 kW	1.0 kW
Storage temperature range	-40...+60 °C	-40...+60 °C
Operating temperature range (with recommended coolant)	-20...+40 °C	-20...+40 °C
Degree of protection (when mounted)	IP23S	IP23S