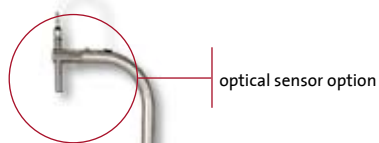


# Medium-frequency Induction Melting Machines



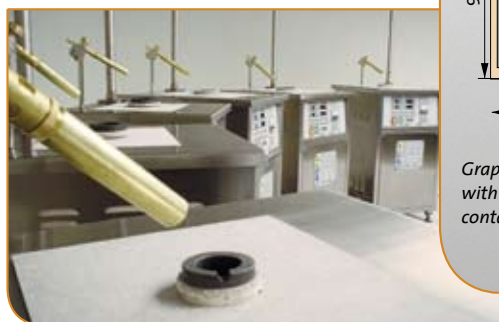
# F1-D Turbo / F3-D / F4-D



optical sensor option



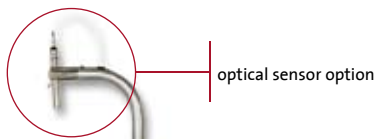
- > All functions are microcomputer controlled: consistency, high reliability and ease of operation
- > Extremely quiet operation
- > Digital power adjustment and indicator
- > High efficiency using a solid-state generator
- > Self-diagnostics including fault and mis-operational voice messages
- > Stainless steel construction
- > Control of the temperature (option) with thermocouple or optical sensor
- > Gas blow pipe to prevent oxidation



F1-D Turbo	F3-D	F4-D	
<p>Graphite crucible with refractory container</p>	<p>Graphite crucible with refractory container</p>	<p>Graphite crucible with refractory container. Recommended for temperatures up to 1300°C</p>	<p>Silicon carbide crucible with refractory container. Recommended for temperatures beyond 1300°C</p>

MODEL	F1-D Turbo		F3-D		F4-D	
	F1-D/400	F1-D/220	F3-D/400	F3-D/220	F4-D/400	F4-D/220
POWER SUPPLY	400V 3~ 50-60 Hz	220V 3~ 50-60 Hz	400V 3~ 50-60 Hz	220V 3~ 50-60 Hz	400V 3~ 50-60 Hz	220V 3~ 50-60 Hz
CRUSIBLE CAPACITY	0,8 kg Au/750‰ 0,5 kg Ag/925‰		2 kg Au/750‰ 1,3 kg Ag/925‰		4 kg Au/750‰ 2,6 kg Ag/925‰	
MAXIMUM ABSORBED POWER	4,5 kW		4,5 kW		5,5 kW	
MAXIMUM POWER OUTPUT	50 kVAR		50 kVAR		60 kVAR	
DIMENSIONS (L x H x W)	430 x 905 x 450 mm					
WEIGHT	63 kg					
EFFICIENCY	>=95%					
WATER COOLING	via a tank with a 0.5 Hp pump (accessory), or via a direct supply at the pressure indicated					
TANK CAPACITY (ACCESSORY)	200 litres for intermittent working (50%) 500 litres for continuous working (<1300°C)					
DIRECT SUPPLY	pressure 200-600 kPa / flow >2 litres/min					

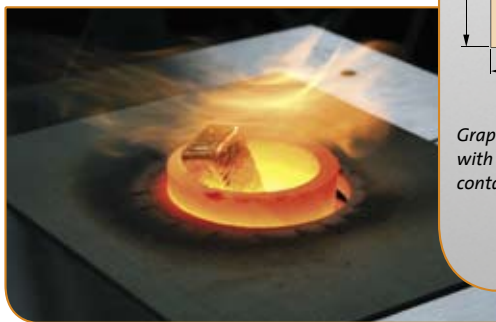
# F5-D / F9-D / F12-D

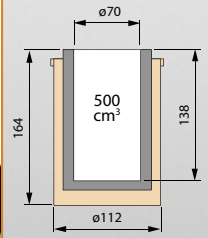
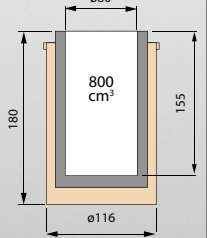
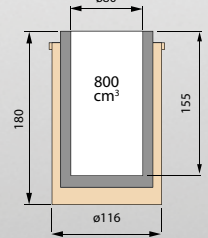
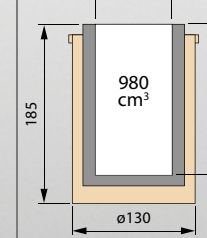


optical sensor option



- > All functions are microcomputer controlled: consistency, high reliability and ease of operation
- > Extremely quiet operation
- > Digital power adjustment and indicator
- > High efficiency using a solid-state generator
- > Self-diagnostics including fault and mis-operational voice messages
- > Stainless steel construction
- > Control of the temperature (option) with thermocouple or optical sensor
- > Gas blow pipe to prevent oxidation



F5-D	F9-D	F9-D	F12-D
 <p>Graphite crucible with refractory container</p>	 <p>Graphite crucible with refractory container. Recommended for temperatures up to 1300°C</p>	 <p>Silicon carbide crucible with refractory container. Recommended for temperatures beyond 1300°C</p>	 <p>Graphite crucible with refractory container</p>

MODEL	F5-D		F9-D		F12-D	
	F5-D/400	F5-D/220	F9-D/400	F9-D/220	F12-D/400	F12-D/220
POWER SUPPLY	400V 3~ 50-60 Hz	220V 3~ 50-60 Hz	400V 3~ 50-60 Hz	220V 3~ 50-60 Hz	400V 3~ 50-60 Hz	220V 3~ 50-60 Hz
CRUSIBLE CAPACITY	6 kg Au/750‰ 4 kg Ag/925‰		10 kg Au/750‰ 7 kg Ag/925‰		12 kg Au/750‰ 8 kg Ag/925‰	
MAXIMUM ABSORBED POWER	7 kW		9,5 kW		12 kW	
MAXIMUM POWER OUTPUT	80 kVAR		95 kVAR		115 kVAR	
DIMENSIONS (L x H x W)	575 x 905 x 580 mm					
WEIGHT	90 kg	133 kg	90 kg	133 kg	90 kg	133 kg
EFFICIENCY	>=95%					
WATER COOLING	via a tank with a 0.5 Hp pump (accessory), or via a direct supply at the pressure indicated					
TANK CAPACITY (ACCESSORY)	300 litres for intermittent working (50%) 750 litres for continuous working (<1300°C)				500 litres for intermittent working (50%) 1000 litres for continuous working (<1300°C)	
DIRECT SUPPLY	pressure 200-600 kPa / flow >2,5 litres/min					

# F16-D / F24-D

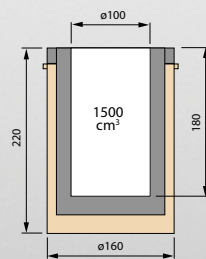


optical sensor option

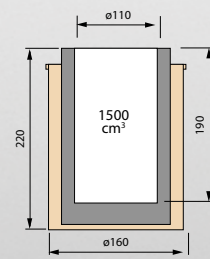
- > All functions are microcomputer controlled: consistency, high reliability and ease of operation
- > Extremely quiet operation
- > Digital power adjustment and indicator
- > High efficiency using a solid-state generator
- > Self-diagnostics including fault and mis-operational voice messages
- > Stainless steel construction
- > Control of the temperature (option) with thermocouple or optical sensor
- > Gas blow pipe to prevent oxidation



## F16-D

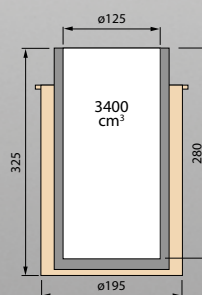


Graphite crucible with refractory container. Recommended for temperatures up to 1300°C

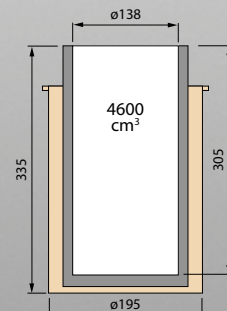


Silicon carbide crucible with refractory container. Recommended for temperatures up to 1600°C

## F24-D



Silicon carbide crucible with refractory container. Recommended for temperatures up to 1600°C

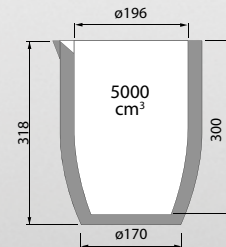


MODEL	POWER SUPPLY	MAXIMUM ABSORBED POWER	MAXIMUM POWER OUTPUT	CRUSIBLE CAPACITY	GENERATOR (L x H x W)	CASTING UNIT (L x H x W)	WEIGHT
F16-D/400	400V 3~ 50-60 Hz	13 kW	140 kVAR	15 kg Au/750%	535 x 1200 x 500 mm	750 x 1805 x 620 mm	260 kg
F16-D/220	220V 3~ 50-60 Hz			10 kg Ag/925%			320 kg
F24-D/400	400V 3~ 50-60 Hz	24 kW	220 kVAR	38 kg Au/750%	535 x 1200 x 500 mm	750 x 1805 x 620 mm	280 kg
F24-D/220	220V 3~ 50-60 Hz			25 kg Ag/925%			355 kg

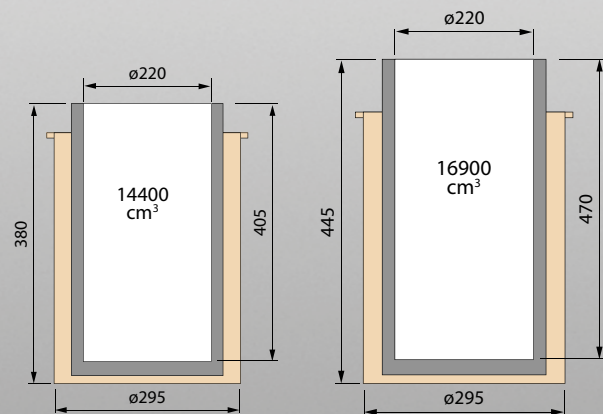
# F48-D



- > All functions are microcomputer controlled: consistency, high reliability and ease of operation
- > Extremely quiet operation
- > Digital power adjustment and indicator
- > High efficiency using a solid-state generator
- > Self-diagnostics including fault and mis-operational voice messages
- > Stainless steel construction
- > Control of the temperature (option) with thermocouple or optical sensor
- > Gas blow pipe to prevent oxidation



*Silicon carbide crucible*



*Silicon carbide crucible with refractory container*

MODEL	POWER SUPPLY	MAXIMUM ABSORBED POWER	MAXIMUM POWER OUTPUT	CRUSIBLE CAPACITY	GENERATOR (L x H x W)	CASTING UNIT (L x H x W)	WEIGHT
F48-D	400V 3~ 50-60 Hz	48 kW	440 kVAR	70 kg	600 x 1340 x 650 mm	1010 x 1850 x 945 mm	695 kg

## Accessories



### > INGOT MOULDS

Wide range of ingot moulds and stainless steel trolleys.



### > TCS 700 SENSOR

- Measuring range: 700 - 2000 °C
- Rapidity of response
- High temperature operation



### > GAS BLOW-PIPES

Useful to avoid metal's oxidation during melting. Installed on the melting machine, in order to let the flame spread on the crucible. Please indicate the gas used: propane, methane or town gas.

The TCS 700 sensor is characterised by its extremely compact design and great strength and versatility. Thanks to the two-colour measuring technique, the distance between the sensor and the material being checked, or the presence of dross on the surface of the molten, within wide margins, does not influence the temperature reading.

## Cooling systems

- > Cooling systems allow the use of distilled water, preventing the flow reduction due to calcium deposits.

### COOLING UNITS

Cooling units with digital adjustment of water temperature and built-in self-diagnostic.



### > RESERVOIRS

Tanks fitted with pump, water thermometer and level indicator. Available in stainless steel or zinc-coated steel.

## Consumable

- > Wide range of crucibles, draw-plates, refractory parts, sealing paste, temperature sensors etc.



### Costruzioni Elettroniche Industriali Automatismi

Zona Industriale Viciomaggo, 54/G - 52040 (AREZZO) - ITALY  
Tel.: +39 0575 4181 - Fax +39 0575 418297 E-mail: infogold@ceia-spa.com

Vicenza direct branche: via Roma, 193 - 36060 Schiavon (VI)

Tel.: 0444 665814 - Fax 0444 665817

[www.ceia.net](http://www.ceia.net)

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