## **Pump-motor unit TMFR series**



The TMFR series, an integrated pump-motor unit where the motor has no moving parts, features a combination of compact size, superior performance, low energy consumption and silent operation to provide great versatility in a refined, high tech design.

The internal magnet, driven through an electromagnetic field, is capable of transmitting high torque to the shaft.

The speed control system allows the unit to self-adapt to the hydraulic conditions of the circuit to maintain a set pressure or flow rate, while the brushless technology provides a reliable and long lasting operation.

- · Motor housing in aluminum
- · Pump housing in brass or AISI 303
- · Pumping chamber in graphite
- · 3/8" GAS or NPT threaded ports
- · Black anodized finishing available

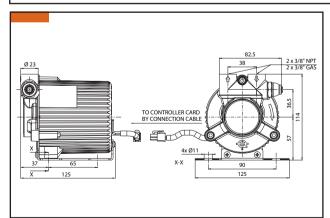


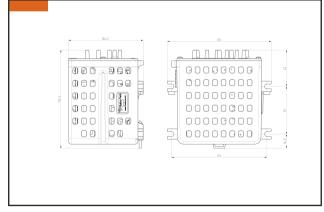




## **Main characteristics**

- Compact size
- Electro-magnetic drive
- No wear on the motor
- High efficiency
- Analogue input for continuous speed control
- 46 dB (A) at 1500 rpm
- Available in 230 V; 110 V; 50/60 Hz
- Control by opto-coupled technology available
- · Continous duty
- · Low operative temperature





## **Main applications**

- Laser cooling
- Solar heating systems
- Refrigerating gas transfer
- Reverse osmosis
- Welding

- Fuel burner
- Water repressurization
- Post-mix systems
- Espresso coffee machines

Electrical characteristics								
Voltage [VAC]	108-120/208-240 at 50/60 Hz							
Speed range [rpm]	500 - 3500							
Absorbed power [W]	400 max							
Actual power [W]	250 max							
Motor IP Protection	IP33 (U.R. IP44)							
Controller IP Protection	IP20							

MODEL TMFROT (Brass)	050	051	054	070	071	074	100	101	104	150	151	154	200	201	204
Figure		A-A			B-B			C-C			D-D			E-E	
Bypass	NO	STD	BAL												
MODEL TMFRSS (Stainless Steel)	050		051	070		071	100		101	150		151	200		201
Figure		A-A			B-B			C-C			D-D			E-E	
Bypass	NO		STD												

