

# Magnet drive rotary vane pump-motor units TMFR 30-200 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.

- Compact size
- Motor housing in aluminum
- No wear on the motor
- Black anodized finishing available
- Continuous speed control
- Continuous duty



## MAIN APPLICATIONS

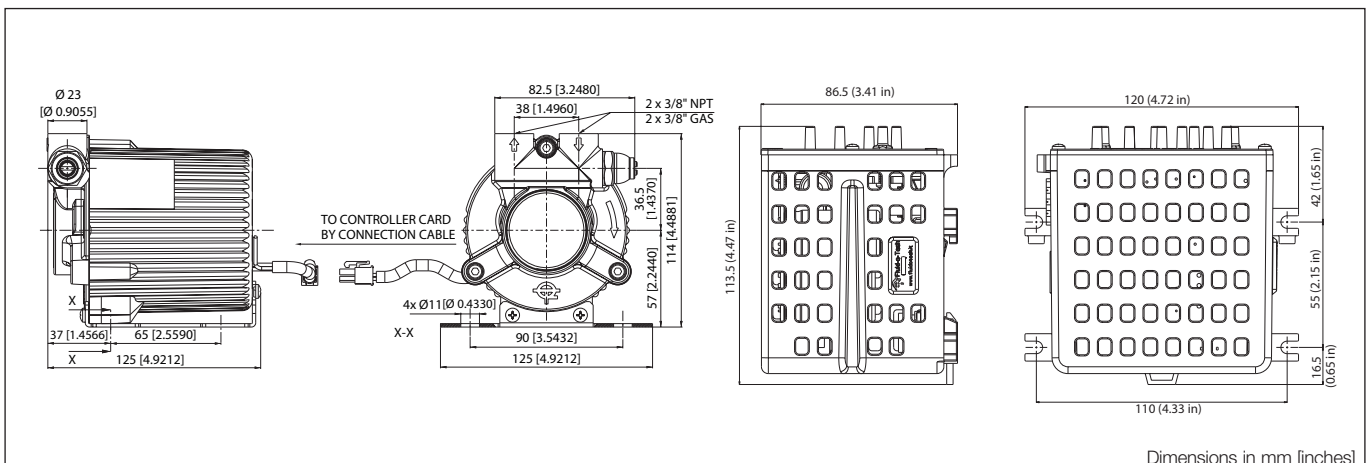
- Laser cooling
- Solar heating systems
- Refrigerating gas transfer
- Reverse osmosis
- Welding
- Fuel burner
- Water repressurization
- Post mix systems
- Espresso coffee machines



## TECHNICAL INFORMATION

|                               |                          |                            |                           |
|-------------------------------|--------------------------|----------------------------|---------------------------|
| Pump housing material         | Brass or stainless steel | Max. operative temperature | 70 °C (158 F)             |
| Pumping chamber               | Carbon graphite          | Motor type                 | 100-110-230 V AC 50/60 Hz |
| Ports                         | 3/8" GAS or NPT          | Speed range                | 1100 to 3500 rpm          |
| Max static pressure           | 20 bar/290 psi           | Absorbed power             | max 330 W                 |
| Noise                         | 46dB (A) at 1500 rpm     | Actual power               | max 250 W                 |
| Unit weight (w/o controller*) | 2.7 kg (5.9 Lb)          | Motor IP protection        | IP 20                     |

\* Controller weight: 700 g (1,5 Lb).



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| 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 |     |     |
| Relief valve   | NO  | STD | BAL | NO  | STD | BAL | NO  | STD | BAL | NO  | STD | BAL | NO  | STD | BAL |

| TMFRSS (STAINLESS STEEL) | 050 | 051 | 070 | 071 | 100 | 101 | 150 | 151 | 200 | 201 |
|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Figure                   | A-A |     | B-B |     | C-C |     | D-D |     | E-E |     |
| Relief valve             | NO  | STD | NO  | STD | NO  | STD | NO  | STD | NO  | STD |



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