

# BRUSHLESS DIESEL & GASOLINE

## WELDER

### Brushless

No carbon brushes or slip rings. Instead, silicon rectifier built-in field is incorporated.

### Maintenance-free

There are no carbon brushes, slip rings or commutator, so maintenance is almost eliminated.

### No wave interference

There are no brushes, so no wave interference is generated.

### Stable arc

High frequency welder (220-250Hz) making arc as stable as that of DC welder.

### YANMAR TF & TS type diesel engines

- Lower fuel costs.
- Low maintenance costs.
- Dust proof.
- Unattended operation.



### Specifications

| Model                          |                              | WF-180E                                         | WF-180E-2    | WF-250E      | WF-250E-2    | WF-270E      | WF-270E-2    | WF-330E      | WF-330E-2    | WF-250R-AC                      |            |
|--------------------------------|------------------------------|-------------------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------------------------|------------|
| <b>WELDER</b>                  | Welding current              | A                                               | 60~180       | 70~250       | 70~270       | 70~330       | 70~250       | 70~330       | 70~250       | 70~250                          |            |
|                                | Rated current                | A                                               | 150          | 230          | 250          | 300          | 230          | 300          | 230          | 230                             |            |
|                                | Rated voltage                | V                                               | 30           | 32           | 32           | 35           | 32           | 35           | 32           | 32                              |            |
|                                | Welding capacity             | kW                                              | 5.4          | 8.0          | 8.6          | 11.6         | 8.0          | 11.6         | 8.0          | 8.0                             |            |
|                                | No load voltage              | V                                               | 65~70        | 70~75        | 70~75        | 70~75        | 70~75        | 70~75        | 70~75        | 70~75                           |            |
|                                | Rated use                    | %                                               | 70           |              |              |              |              |              |              |                                 | 100%(230A) |
|                                | Frequency                    | Hz                                              | 220~240      |              |              |              |              |              |              |                                 | 220~240    |
|                                | Rated speed                  | min <sup>-1</sup>                               | 4400~4800    |              |              |              |              |              |              |                                 | 3300~3600  |
|                                | Welding rod                  | mm                                              | 2.6~4        | 2.6~5        | 2.6~5        | 2.6~5        | 2.6~5        | 2.6~5        | 2.6~5        | 2.6~5                           |            |
|                                | Auxiliary power (Light only) | kW                                              | 1            |              |              |              |              |              |              |                                 | 1          |
| Cable size Recommended(40-60m) | mm <sup>2</sup>              | 22~38                                           |              |              |              | 38~50        |              |              |              | 22~38                           |            |
| Model                          |                              | YANMAR                                          |              |              |              |              |              |              |              | Robin                           |            |
| Type                           | —                            | Horizontal, water-cooled 4-cycle, diesel engine |              |              |              |              |              |              |              | V-Twin, 4-cycle gasoline engine |            |
| No of cylinders-Bore × stroke  | mm                           | 1-88×96                                         | 1-96×105     | 1-102×105    | 1-110×106    | 1-110×106    | 2-80×65      | 1-110×106    | 2-80×65      |                                 |            |
| Cont. rating                   | kW                           | 7.5                                             | 9.3          | 10.4         | 11.9         | 11.9         | 12.0         | 11.9         | 12.0         |                                 |            |
|                                | hp                           | 10                                              | 12.5         | 14           | 16           | 16           | 16.1         | 16           | 16.1         |                                 |            |
|                                | mm <sup>3</sup>              | 2400                                            | 2400         | 2400         | 2200         | 2200         | 3600         | 2200         | 3600         |                                 |            |
| Displacement                   | ℓ                            | 0.583                                           | 0.760        | 0.857        | 1.007        | 1.007        | 0.653        | 1.007        | 0.653        |                                 |            |
| Starting system                | —                            | Electric                                        |              |              |              |              |              |              |              | —                               |            |
| Cooling system                 | —                            | Radiator                                        |              |              |              |              |              |              |              | Air-cooled                      |            |
| Lubricating system             | —                            | Forced lubrication with trochoid pump           |              |              |              |              |              |              |              | —                               |            |
| Lub oil capacity               | ℓ                            | 2.8                                             | 3.0          | 3.0          | 3.4          | 3.4          | 1.5          | 3.4          | 1.5          |                                 |            |
| Fuel consumption               | ℓ/h                          | 1.8                                             | 2.2          | 2.5          | 3.0          | 3.0          | 4.7          | 3.0          | 4.7          |                                 |            |
| Fuel tank capacity             | ℓ                            | 11.0                                            | 14.3         | 14.3         | 13.7         | 13.7         | 44           | 13.7         | 44           |                                 |            |
| Dimensions (L×W×H)             | mm                           | 1200×560×660                                    |              | 1350×600×715 |              | 1350×600×715 |              | 1470×700×785 |              | 950×700×810                     |            |
|                                | with 4 caster                | mm                                              | 1200×560×860 | —            | 1350×600×920 | —            | 1350×600×920 | —            | 1470×700×990 | —                               |            |
|                                | with 2 wheel & handle        | mm                                              | —            | 1520×560×820 | —            | 1650×600×875 | —            | 1650×600×875 | —            | 1790×700×945                    |            |
| Net Weight                     | with 4 caster                | kg                                              | 275          | —            | 340          | —            | 345          | —            | 490          | —                               |            |
|                                | with 2 wheel & handle        | kg                                              | —            | 285          | —            | 350          | —            | 355          | —            | 500                             |            |



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