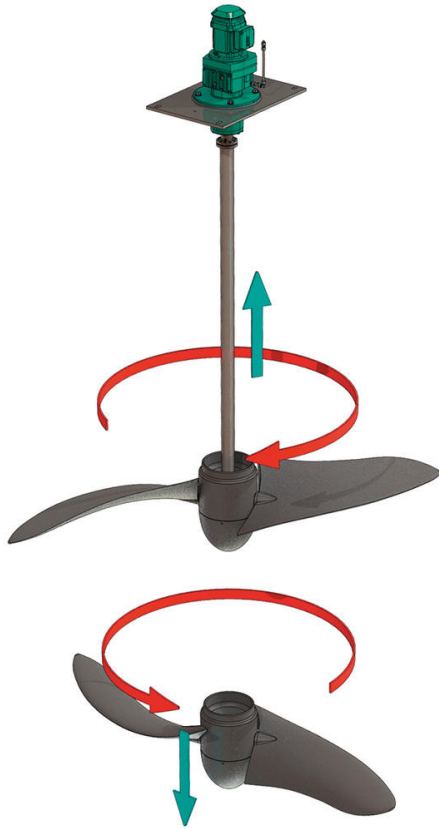


Pioneering for You

wilo

## Vertical mixer

Wilo-Vardo WEEDLESS VM.F5-1/225.12-55  
RM77 DRN80MK4/C



### Unit

|                                    |           |
|------------------------------------|-----------|
| Power consumption at 40° $P_{1.1}$ | 0.19 kW   |
| Max. thrust at 40° $F$             | 310 N     |
| Thrust to power ratio at 40°       | 1632 N/kW |
| Min. fluid temperature $T_{min}$   | 3 °C      |
| Max. fluid temperature $T_{max}$   | 40 °C     |
| Max. weight $m$                    | 295 kg    |

### Propeller

|                                      |  |
|--------------------------------------|--|
| Propeller model                      | 2-blade propeller made of solid material |
| Nominal propeller diameter $D_{nom}$ | 2500 mm                                  |
| Direction of thrust                  | up/down                                  |
| Propeller speed $n$                  | 12 1/min                                 |
| Transmission ratio                   | 121.420                                  |
| Propeller hub                        | PUR Polyurethane                         |
| Propeller                            | PUR Polyurethane                         |

### Mixer shaft

|                                |                           |
|--------------------------------|---------------------------|
| Min. length of mixer shaft $l$ | 2.0 m                     |
| Max. length of mixer shaft $l$ | 3.0 m                     |
| Mixer shaft                    | 1.4571, X6CrNiMoTi17-12-2 |

### Motor plate

|                           |                           |
|---------------------------|---------------------------|
| Number of fastening holes | 4                         |
| Motor plate               | 1.4571, X6CrNiMoTi17-12-2 |

### Drive unit

|                                    |   |
|------------------------------------|---|
| Drive design                       | Helical gear motor with corrosion protection OS3/C4 |
| Motor designation                  | RM77 DRN80MK4/C                                     |
| Mains connection (delta, star)     | 3~230 V, 3~400 V, 50 Hz                             |
| Rated current, direct delta $I_N$  | 2.25 A  |
| Rated current, direct star $I_N$   | 1.29 A  |
| Power consumption $P_{1 max}$      | 0.68 kW   |
| Rated power $P_2$                  | 0.55 kW   |
| Speed original $n$                 | 1435 1/min  |
| Motor efficiency class             | IE3   |
| Motor efficiency 50                | 78.6 %  |
| Motor efficiency 75                | 81.0 %  |
| Motor efficiency 100               | 80.8 %  |
| Power factor $\cos \varphi_{100}$  | 0.75  |
| Min. ambient temperature $T_{min}$ | -20 °C  |
| Max. ambient temperature $T_{max}$ | 40 °C   |
| Insulation class                   | F   |
| Protection class motor             | IP55  |
| Max. switching frequency $t$       | 15 rph  |
| min. switching break $t$           | 3 min   |
| Nominal torque $M$                 | 445 Nm  |
| Explosion protection ATEX          | no  |
| Explosion protection FM            | no  |
| Motor protection (optional)        | Bimetal, PTC  |
| Motor housing                      | Aluminium   |
| Gear housing                       | 5.1300, EN-GJL-200                                  |

### Filling quantities and types

|                        |                          |
|------------------------|--------------------------|
| Filling gear           | Gear oil E 460 (Organic) |
| Gear fill quantity $V$ | 3.6 l                    |