
23G RO Upgrade to Grundfos Pump/Motor

Effective February 1st, 2008, the 60 Hz 23G RO's and July 1st 2008 the 50 Hz 23G RO's are being produced with a non-submersible pump/motor. The Tonkaflo QS pump/motor is being discontinued. We have proactively created multiple upgrade kits to enable replacement of the QS pump/motors.

Benefits

- Standard TEFC motor allowing easy replacement
- Pump can be rebuilt by user
- Robust pump/motor unit for durability and reliability
- Multi-voltage motors, no need for different motors for different voltages

Important Information

- Installation in the field requires simple modifications. Some of the new pump/motor configurations are larger in diameter and require the ROMA's on the pump side of the frame to be moved back one position. This can be accomplished using the parts included in the kits (listed below) to complete the upgrade. Some RO units will require installation of a new frame extension to accomplish the relocation of the ROMA's.

NOTE:

It is important to not change the ROMA banking arrangement when performing this upgrade. Improper banking may damage your machine or membranes. Please refer to the instructions in the kit for more details.

- The newer pump/motors may be a different horse power rating than the current QS pump/motor.
- Caster P/N OS1160132 not included in kits. It must be ordered separately.

CAUTION:

Consult an electrician to determine if your building power supply and circuit protection needs to be upgraded. Upgrade kits include new motor starters and thermal overloads.

NOTE:

Traditional Mar Cor Purification installs utilizing a Mar Cor Purification control panel require the following kits:

3024520	Kit,Elec Parts,23G 3.0 to 5.0HP
3024521	Kit,Elec Parts,23g 5.0 to 7.5HP

Current QS Pump/Motor Size	Pump / Upgrade Kit P/N	Kit Covers 23G Model Sizes (in GPD)	Additional Items Required P/N
3Hp, 3Ph	3024207	3K, 4.5K, 6K, 7.5K, 9K	N/A
5Hp, 3Ph	3024206	10.5K, 13.5K	N/A
5Hp, 3Ph	3024206	12K	3024455
5Hp, 3Ph	3024206	15K	3024455, 3024152
7.5Hp, 3Ph	3024205	16.5K	N/A
3Hp, 1Ph	3024457	3K, 4.5K, 6K, 7.5K, 9K	N/A
5Hp, 1Ph	3024458	10.5K, 13.5K	N/A
5Hp, 1Ph	3024458	12K	3024455
5Hp, 1Ph	3024458	15K	3024455, 3024152

If 460VAC is used the correct overload is P/N 3024350, for the 5HP and 7.5 HP pump/motors.

380 VAC 50HZ Pump Replacement Parts

Table 1 lists all the part needs to replace the 3HP and 5HP QS pumps. Replacing the 3HP pump also requires these parts: ME30395, ME30394, and 3024472. Replacing the 5HP pump also requires these parts: ME30396, ME30399, and 3024473.

Please note the overload relay for the pump replacing the 3HP QS should be set to 6.4 Amps and the overload relay setting for the pump replacing the 5HP QS should be set to 11Amps.

Table 1

PART NO.	DESCRIPTION	QTY/ASSY	UM
ME30244	TERMINAL BLOCK,DIN RAIL,	0.5	FT
ME40602	BUSHING,RED,SS,1/4X1/8	1	EA
ME40899	ELBOW,PVC,1-1/4SXS,SCH 80	3	EA
ME40921	UNION,1-1/4 SXS,SCH 80	1	EA
ME50038	PIPE,PVC,1-1/4",SCH 80	2.5	FT
ME60068	FSTNR,PHMS,SS,10-32X3/8	2	EA
ME60126	CORD,18GA,3COND	8	FT
ME60251	FSTNR,WASH,LOCK,SS,3/8	8	EA
ME60262	FSTNR,WASH,FLAT,SS,3/8	10	EA
ME60523	FSTNR,NUT,NYLK,SS,3/8-16	8	EA
ME60753	WASHER,CONDUIT,3/4"-1/2"	2	EA
3000764	FSTNR,HHSMS,#8X1.25" SELF DRILL/TAP	4	EA
3024165	PLATE,23G,GRUNDFOS MOTOR MOUNT	1	EA
3024202	INSTR,QS PUMP REPLACEMENT	1	EA
3024381	ENCLOSURE,11.28"X7.5"X5.5",N4X,ABS	1	EA
3024629	HOSE,ASSEMBLED FOR 23G RETROFIT KIT	1	EA
3025704	FSTNR,HHMB,SS,3/8-16X3.00	4	EA
3026450	LABEL,23G FRENCH-C,MOTOR CAUTION	1	EA



OS1110134	CONN,WIRE,NUT	6	EA
OS1110753	TERMINAL,WIRE,FORK,14-18,#8	3	EA
OS1144130	SCR,CAP,HH,SS,.38-16X2.25	4	EA
OS1156927	GLIDE,SLF-LVELNG,THREADED	1	EA
OS1156928	PLUG,VIC,PVC,0.75,INTRBNK	1	EA
OS1158311	ADP,SQ,1.50,THD,3/8-16,ZP	1	EA
OS1158675	O-RING,EPR 207,70DUR	1	EA