

23G RO UPGRADE TO GRUNDFOS PUMP/MOTOR

Effective February 1, 2008, the 60 Hz 23G ROs, and July 1, 2008, the 50 Hz 23G ROs 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 ROMAs 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 ROMAs.

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 horsepower rating than the current QS pump/motor.
- Caster P/N W2T913536 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 installs utilizing a Mar Cor control panel require the following kits:

W3T577594	Kit,Elec Parts,23G 3.0 to 5.0HP
W3T577595	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	W3T577592	3K, 4.5K, 6K, 7.5K, 9K	N/A
5Hp, 3Ph	W3T577950	10.5K, 13.5K	N/A
5Hp, 3Ph	W3T577950	12K	W3T577933
5Hp, 3Ph	W3T577950	15K	W3T577933, W3T572716
7.5Hp, 3Ph	W3T577955	16.5K	N/A
3Hp, 1Ph	W3T577943	3K, 4.5K, 6K, 7.5K, 9K	N/A
5Hp, 1Ph	W3T577949	10.5K, 13.5K	N/A
5Hp, 1Ph	W3T577949	12K	W3T577933
5Hp, 1Ph	W3T577949	15K	W3T577933, W3T572716

If 460VAC is used the correct overload is P/N W2T911993, 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: W2T888315, W2T915066, and W2T924640. Replacing the 5HP pump also requires these parts: W2T888315, W2T915066, and W2T924639.

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 11 Amps.

Table 1

PART NO.	DESCRIPTION	QTY/ASSY	UM
W2T913073	TERMINAL BLOCK,DIN RAIL,	0.5	FT
W2T395180	BUSHING,RED,SS,1/4X1/8	1	EA
W2T356667	ELBOW,PVC,1-1/4SXS,SCH 80	3	EA
W2T915353	UNION,1-1/4 SXS,SCH 80	1	EA
W2T913158	PIPE,PVC,1-1/4",SCH 80	2.5	FT
W2T919547	FSTNR,PHMS,SS,10-32X3/8	2	EA
W2T919529	CORD,18GA,3COND	8	FT
W2T914033	FSTNR,WASH,LOCK,SS,3/8	8	EA
W2T914027	FSTNR,WASH,FLAT,SS,3/8	10	EA
W2T914008	FSTNR,NUT,NYLK,SS,3/8-16	8	EA
W2T915559	WASHER,CONDUIT,3/4"-1/2"	2	EA
W2T914004	FSTNR,HHSMS,#8X1.25" SELF DRILL/TAP	4	EA
W3T572892	PLATE,23G,GRUNDFOS MOTOR MOUNT	1	EA
W3T576553	INSTR,QS PUMP REPLACEMENT	1	EA
W2T913828	ENCLOSURE,11.28"X7.5"X5.5",N4X,ABS	1	EA
W3T572425	HOSE,ASSEMBLED FOR 23G RETROFIT KIT	1	EA
W2T924399	FSTNR,HHMB,SS,3/8-16X3.00	4	EA
W3T576172	LABEL,23G FRENCH-C,MOTOR CAUTION	1	EA
W2T919273	CONN,WIRE,NUT	6	EA
W2T919270	TERMINAL,WIRE,FORK,14-18,#8	3	EA
W2T919243	SCR,CAP,HH,SS,3/8-16X2.25	4	EA
W2T913210	GLIDE,SLF-LVELNG,THREADED	1	EA
W3T572911	PLUG,VIC,PVC,0.75,INTRBNK	1	EA
W2T913383	ADP,SQ,1.50,THD,3/8-16,ZP	1	EA
W2T914560	O-RING,EPR 207,70DUR	1	EA