# Commercial Distributor Systems



#### **OPERATING SPECIFICATIONS**

This literature booklet contains items made by Clack Corporation, Plastomer a Division of KSH GMBH in Germany.

#### **OPERATING SPECIFICATIONS FOR CLACK ITEMS:**

Operating Pressures 20-125 psi / 138-862 kPa Temperature Ranges 40-110°F / 4-43°C

#### **OPERATING SPECIFICATIONS FOR PLASTOMER ITEMS:**

Operating Pressures with flanged tank adapters 150 psi / 1,034 kPa Maximum Operating Temperature 140°F / 60°C

BECAUSE OF THE DIVERSITY OF WATER SOFTENERS AND FILTER APPLICATIONS (INCLUDING, BUT NOT LIMITED TO, PRESSURE DROP, FLOW RATE, AND BACKWASH RATE PER SQUARE FOOT), CLACK'S LIABILITY IS LIMITED TO THE REPAIR OR REPLACEMENT OF DEFECTIVE GOODS, PROVIDED THAT THE SAME ARE RETURNED TO CLACK FOR REPAIR OR REPLACEMENT. THE WARRANTY FOR DISTRIBUTOR SYSTEMS IS 1 YEAR. CLACK GIVES THIS WARRANTY TO OEM IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND HEREBY EXPRESSLY DISCLAIMS ALL OTHER SUCH WARRANTIES. CLACK'S LIABILITY HERE UNDER SHALL NOT EXCEED THE COST OF THE PRODUCT. UNDER NO CIRCUMSTANCES WILL CLACK BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OR FOR ANY OTHER LOSS, DAMAGE OR EXPENSE OF ANY KIND, INCLUDING LOSS OF PROFITS, ARISING IN CONNECTION WITH THE INSTALLATION OR USE OR INABILITY TO USE THE SYSTEM.

#### **Stack Distributors for Top Mount Valves**

Clack bottom stack distributors are designed primarily for use with top mount water softeners or filter valves. The stack distributors are comprised of individual ABS segments which are held together with 18-8 stainless steel screws. The segmented stack has the ability to open up when backwashed, removing any fines that might accumulate on the distributor. The standard slot size is .010 - .013. Clack bottom stack distributors are designed for use with 14" - 36" diameter fiberglass mineral tanks with a 4" - 6" top openings. The bottom stack distributors are designed to accommodate a number of different size riser pipes which can be solvent welded or threaded directly into the stack. There is no stack distributor assembly required. To install, solvent weld or thread the riser pipe directly into the distributor and extend the distributor to the bottom of the mineral tank.







ORDER NUMBER	DESCRIPTION	TOP OPENING	STACK DIAMETER	STACK HEIGHT	RISER OPENINGS AVAILABLE*	EXAMPLE
D1196-*	950 bottom stack distributor	4"	3½"	2 <sup>27</sup> / <sub>32</sub> "	05 - 09	950 - 1.5" solvent
D1197-*	970 bottom stack distributor	4"	3½"	57/8"	05 - 11	Order No: D1196-07

<b>★</b> Riser Pipe Openings Available:								
05 = 1.25" solvent	06 = 1.25" FPT	07 = 1.5" solvent	08 = 1.5" FPT	09 = 50mm solvent	10 = 2" solvent	11 = 2" FPT		

#### **Top Distributors for Top Mount Valves**

The Clack top stack distributors, diffusers and baffle diffusers are designed to be used in conjunction with the Clack WS1.5 and WS2, the Pentair Magnum CV<sup>™</sup> and the Fleck 2850, 9500, 2900 and 3150 Control Valves. The stack and baffle diffusers are designed to diffuse or break up the inlet water flow when the top stack distributor is not used. The top stack distributors, diffusers and baffle diffusers are designed to accommodate a 1.5", 50mm, 2" or 63mm PVC riser pipe. Installation is accomplished by simply pinning or screwing in the top stack distributor and diffuser or snapping the top baffle diffuser directly inside the control valve.









ORDER NUMBER	DESCRIPTION	VALVE TYPE	STACK HEIGHT	STACK DIAMETER	RISER PIPE INSERT
D1199	Top Stack Distributor	Clack/Fleck	5½"	3½"	1.5"
D1199-04	Top Stack Distributor	Clack/Fleck	5½"	3½"	50mm
D1199-02	Top Stack Distributor	Clack/Fleck	5½"	3½"	2"
D1199-05	Top Stack Distributor	Clack/Fleck	5½"	3½"	63mm
D1200-01	Top Stack Diffuser	Clack/Fleck	5½"	3½"	1.5"
D1200-02	Top Stack Diffuser	Clack/Fleck	5½"	3½"	50mm
D1200-03	Top Stack Diffuser	Clack/Fleck	5½"	3½"	2"
D1200-04	Top Stack Diffuser	Clack/Fleck	5½"	3½"	63mm
D1219	Top Stack Distributor	Pentair	5½"	3½"	1.5"
D1300	Top Baffle Diffuser	Clack	-	-	1.5"/50mm
D1300-01	Top Baffle Diffuser	Clack	-	-	2"

## **Top Baffle Assemblies**

Clack's top baffle assemblies are designed for side mount valve application. Promotes even distribution of water flow, and helps to prevent channeling through the media bed.





ORDER NUMBER	DESCRIPTION	TANK OPENING
D7157	2937B Top Baffle Assembly 2" Solvent	4"-8
C610222	6" Flange x 3" FNPT x 3" FNPT Adapter	6" Flange
D1216A	Top Baffle 3"	Not Applicable

#### **Stack Distributors for Side Mount Valves**

The stack distributor assemblies are designed to be used interchangeably as either top or bottom distributors. The distributor assemblies consist of a segmented stack distributor, 4"-8 adapter, and a 2" CPVC socket elbow or 6" Flange Adapter only. The segmented distributor has the ability to open up when backwashed, removing any possible fines that might accumulate on the distributor. The top and bottom assemblies are designed for use with 14" - 63" diameter fiberglass mineral tanks. Assembly is quick and simple. Installation is accomplished by simply threading or bolting on the complete distribution assembly directly in the top or bottom opening of the mineral tank.







ORDER NUMBER DESCRIPTION		TANK OPENING
D7155	2937 Stack Distributor Assembly 2" Solvent	4"-8
DKSTSF3	KSH Stack Distributor 3" thread	6" Flange
DKSTSF3-HF	KSH High Flow Stack Distributor 3" thread	6" Flange

#### **Hub and Lateral Series for Top Mount Valves**

Clack top mount hub and lateral systems are designed primarily for use with top mount water softeners or filter valves. The top mount hub and lateral series is designed to accommodate 14" - 36" diameter fiberglass mineral tanks with 4" - 6" top openings. The top mount hub and lateral series consists of an ABS hub and 8-PVC slotted laterals with 3/4" threaded adapters. The hub is available with a number of openings to accommodate different riser pipe diameters. To install, simply solvent weld or thread the riser pipe into the hub and insert it into the tank through the top opening. Thread the laterals into the hub and extend the hub and laterals to the bottom of the mineral tank.



ORDER NUMBER	DESCRIPTION	TANK DIAMETER	RISER OPENINGS AVAILABLE *	EXAMPLE
D7178 - *	TMHL 14-16 bottom assembly	14" & 16"	02-09	TMIII 44.40
D7179 - *	TMHL 18-24 bottom assembly	18"-24"	02-09	TMHL 14-16, 1.5" solvent
D7180 - *	TMHL 30 bottom assembly	30"	05-11	Order Number: D7178-07
D7181- *	TMHL 36 bottom assembly	36"	05-11	Graei Namber. D7 176-07

* Riser Pipe Openings Available:							
02 = 1.320" solvent 03 = 32mm solvent 04 = 1.050" solvent	05 = 1.25" solvent	06 = 1.25" FPT	07 = 1.5" solvent	08 = 1.5" FPT	09 = 50mm solvent	10 = 2" solvent 1	1 = 2" FPT

#### 2" Solvent Bottom Mount Hub and Lateral Series

Clack hub and lateral distributor systems are designed specifically to fit into a 4" bottom mineral tank opening. The hub and lateral series is designed for use in 14"-36" diameter fiberglass mineral tanks. The hub and lateral series consist of a polypropylene hub, six (6) polypropylene laterals with ¾" threaded adapters, 4"-8 adapter and 2" CPVC socket elbow. Installation is quick and simple with the use of the ½"-13 threaded stud molded right into the top of the hub. For installation, simply thread a long ½" rod onto the ½" stud on the hub, extend through the top of the tank to the bottom and thread the laterals into the hub from the bottom of the tank. After installing the 4"-8 adapter and threading the 2" CPVC socket elbow into the hub, simply unthread the ½" rod.



ORDER NUMBER	DESCRIPTION	TANK DIAMETER	TANK OPENING
DKSHL14-16BM4T	BMHL 14-16 DIST ASY	14" and 16"	4"- 8
DKSHL18BM4T	BMHL 18 DIST ASY	18"	4"- 8
DKSHL21BM4T	BMHL 21 DIST ASY	21"	4"- 8
DKSHL24BM4T	BMHL 24 DIST ASY	24"	4"- 8
DKSHL30BM4T	BMHL 30 DIST ASY	30"	4"- 8
DKSHL36BM4T	BMHL 36 DIST ASY	36"	4"- 8

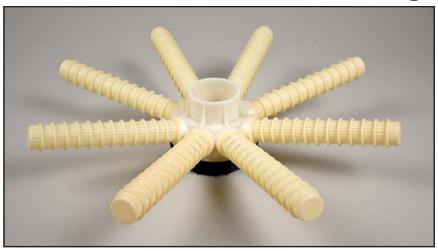
## 1.5" Solvent Hub and Lateral Series for Top Mount Valves



MANUFACTURED BY PLASTOMER A DIVISION OF KSH GMBH

ORDER NUMBER	DESCRIPTION	TANK OPENING	LATERAL TO HUB CONNECTION	LATERAL SLOT SIZE	LATERAL MATERIAL	RISER CONNECTION MATERIAL
DKSHL14TM1.5S	TMHL 14 KSH Distributor Assembly 1.5" Solvent	4"-8	TWIST LOCK	.010	polypropylene	ABS
DKSHL16TM1.5S	TMHL 16 KSH Distributor Assembly 1.5" Solvent	4"-8	TWIST LOCK	.010	polypropylene	ABS
DKSHL18TM1.5S	TMHL 18/21 KSH Distributor Assembly 1.5" Solvent	4"-8	TWIST LOCK	.010	polypropylene	ABS
DKSHL24TM1.5S	TMHL 24 KSH Distributor Assembly 1.5" Solvent	4"-8	TWIST LOCK	.010	polypropylene	ABS

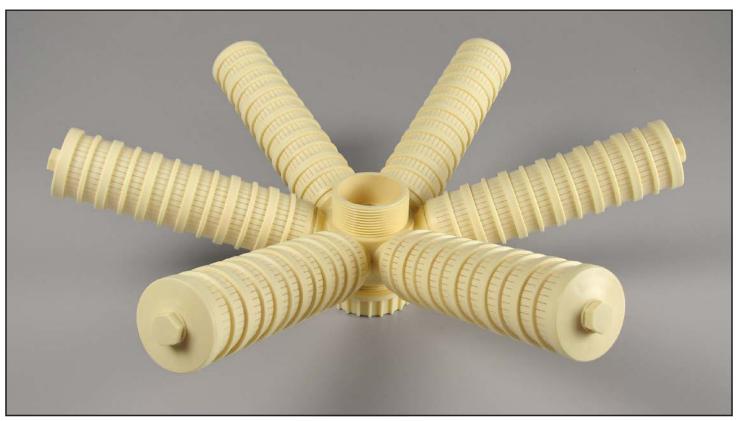
# 2" Solvent Hub and Lateral Series for Top Mount Valves



MANUFACTURED BY PLASTOMER A DIVISION OF KSH GMBH

ORDER NUMBER	DESCRIPTION	TANK OPENING	LATERAL TO HUB CONNECTION	LATERAL SLOT SIZE	LATERAL MATERIAL	RISER CONNECTION MATERIAL
DKSHL30TM2S	TMHL 30 KSH Distributor Assembly 2" Solvent	6" Flange	TWIST LOCK	.010	polypropylene	ABS
DKSHL36TM2S	TMHL 36 KSH Distributor Assembly 2" Solvent	6" Flange	TWIST LOCK	.010	polypropylene	ABS
DKSHL42TM2S	TMHL 42 KSH Distributor Assembly 2" Solvent	6" Flange	TWIST LOCK	.010	polypropylene	ABS
DKSHL48TM2S	TMHL 48 KSH Distributor Assembly 2" Solvent	6" Flange	TWIST LOCK	.010	polypropylene	ABS

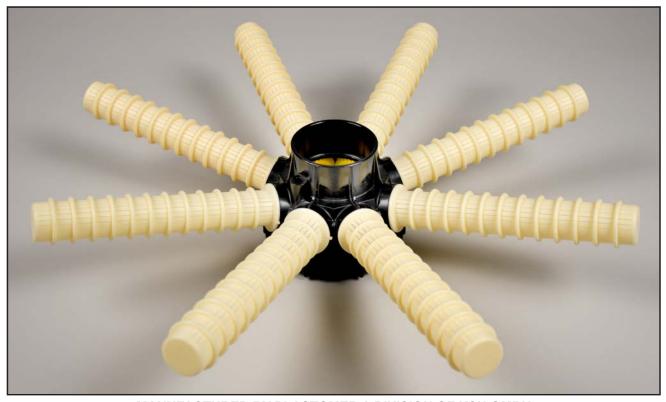
# 2" Male NPT Hub and Lateral Series for Top Mount Valves



MANUFACTURED BY PLASTOMER A DIVISION OF KSH GMBH

ORDER NUMBER	DESCRIPTION	TANK OPENING (6" FLANGE PREFERRED)	LATERAL TO HUB CONNECTION	LATERAL SLOT SIZE	LATERAL MATERIAL	RISER CONNECTION MATERIAL
DKSHL14TM2T	TMHL 14 KSH Distributor Assembly 2" Male NPT	4"-8	THREADED	.008	polypropylene	ABS
DKSHL16TM2T	TMHL 16 KSH Distributor Assembly 2" Male NPT	4"-8	THREADED	.008	polypropylene	ABS
DKSHL18TM2T	TMHL 18 KSH Distributor Assembly 2" Male NPT	4"-8	THREADED	.008	polypropylene	ABS
DKSHL21TM2T	TMHL 21 KSH Distributor Assembly 2" Male NPT	4"-8	THREADED	.008	polypropylene	ABS
DKSHL24TM2T	TMHL 24 KSH Distributor Assembly 2" Male NPT	4"-8	THREADED	.008	polypropylene	ABS

## **63mm Solvent Hub and Lateral Series for Top Mount Valves**



Bushing to reduce from 63MM to 50 MM riser pipe



MANUFACTURED BY PLASTOMER A DIVISION OF KSH GMBH

ORDER NUMBER	DESCRIPTION	TANK OPENING	LATERAL TO HUB CONNECTION	LATERAL SLOT SIZE	LATERAL MATERIAL	RISER CONNECTION MATERIAL
DKSHL18TM63MMS	TMHL 18 KSH Distributor Assembly 63mm Solvent	6" Flange	TWIST LOCK	.010	polypropylene	ABS
DKSHL21TM63MMS	TMHL 21 KSH Distributor Assembly 63mm Solvent	6" Flange	TWIST LOCK	.010	polypropylene	ABS
DKSHL24TM63MMS	TMHL 24 KSH Distributor Assembly 63mm Solvent	6" Flange	TWIST LOCK	.010	polypropylene	ABS
DKSHL30TM63MMS	TMHL 30 KSH Distributor Assembly 63mm Solvent	6" Flange	TWIST LOCK	.010	polypropylene	ABS
DKSHL36TM63MMS	TMHL 36 KSH Distributor Assembly 63mm Solvent	6" Flange	TWIST LOCK	.010	polypropylene	ABS
DKSHL42TM63MMS	TMHL 42 KSH Distributor Assembly 63mm Solvent	6" Flange	TWIST LOCK	.010	polypropylene	ABS
DKSHL48TM63MMS	TMHL 48 KSH Distributor Assembly 63mm Solvent	6" Flange	TWIST LOCK	.010	polypropylene	ABS
DKS6350MM	KSH Adapter 63MMX50MM	Not Applicable				

# **3 " Solvent Hub and Lateral Series for Top Mount Valves**



MANUFACTURED BY PLASTOMER A DIVISION OF KSH GMBH

ORDER NUMBER	DESCRIPTION	TANK OPENING	LATERAL TO HUB CONNECTION	LATERAL SLOT SIZE	LATERAL MATERIAL	RISER CONNECTION MATERIAL
DKSHL21TM3S	TMHL 21 KSH Distributor Assembly 3" Solvent	6" Flange	THREADED	.008	polypropylene	PVC
DKSHL24TM3S	TMHL 24 KSH Distributor Assembly 3" Solvent	6" Flange	THREADED	.008	polypropylene	PVC
DKSHL30TM3S	TMHL 30 KSH Distributor Assembly 3" Solvent	6" Flange	THREADED	.008	polypropylene	PVC
DKSHL36TM3S	TMHL 36 KSH Distributor Assembly 3" Solvent	6" Flange	THREADED	.008	polypropylene	PVC
DKSHL42TM3S	TMHL 42 KSH Distributor Assembly 3" Solvent	6" Flange	THREADED	.008	polypropylene	PVC
DKSHL48TM3S	TMHL 48 KSH Distributor Assembly 3" Solvent	6" Flange	THREADED	.008	polypropylene	PVC
DKSHL63TM3S	TMHL 63 KSH Distributor Assembly 3" Solvent	6" Flange	THREADED	.008	polypropylene	PVC

## 90mm Solvent Hub and Lateral Series for Top Mount Valves



MANUFACTURED BY PLASTOMER A DIVISION OF KSH GMBH

ORDER NUMBER	DESCRIPTION	TANK OPENING	LATERAL TO HUB CONNECTION	LATERAL SLOT SIZE	LATERAL MATERIAL	RISER CONNECTION MATERIAL
DKSHL21TM90MMS	TMHL 21 KSH Distributor Assembly 90mm Solvent	6" Flange	THREADED	.008	polypropylene	PVC
DKSHL24TM90MMS	TMHL 24 KSH Distributor Assembly 90mm Solvent	6" Flange	THREADED	.008	polypropylene	PVC
DKSHL30TM90MMS	TMHL 30 KSH Distributor Assembly 90mm Solvent	6" Flange	THREADED	.008	polypropylene	PVC
DKSHL36TM90MMS	TMHL 36 KSH Distributor Assembly 90mm Solvent	6" Flange	THREADED	.008	polypropylene	PVC
DKSHL42TM90MMS	TMHL 42 KSH Distributor Assembly 90mm Solvent	6" Flange	THREADED	.008	polypropylene	PVC
DKSHL48TM90MMS	TMHL 48 KSH Distributor Assembly 90mm Solvent	6" Flange	THREADED	.008	polypropylene	PVC
DKSHL63TM90MMS	TMHL 63 KSH Distributor Assembly 90mm Solvent	6" Flange	THREADED	.008	polypropylene	PVC

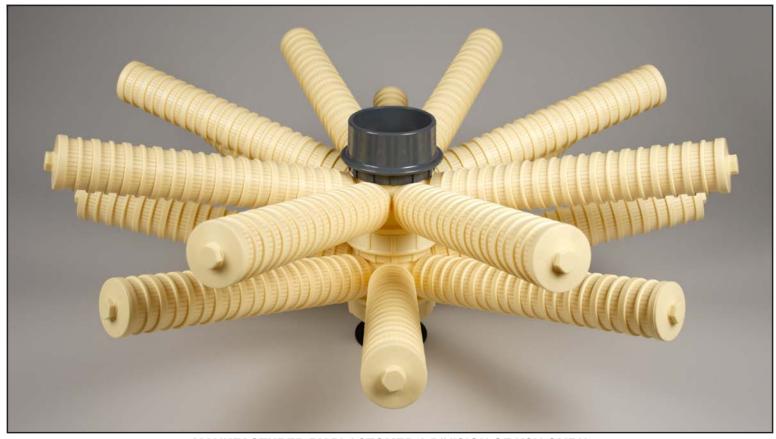
# **3" Solvent High Flow Hub and Lateral Series for Top Mount Valves**



MANUFACTURED BY PLASTOMER A DIVISION OF KSH GMBH

ORDER NUMBER	DESCRIPTION	TANK OPENING	LATERAL TO HUB CONNECTION	LATERAL SLOT SIZE	LATERAL MATERIAL	RISER CONNECTION MATERIAL
DKSHL42TM3S-HF	TMHL 42 KSH Distributor Asy 3" Solvent High Flow	6" Flange	THREADED	.008	polypropylene	PVC
DKSHL48TM3S-HF	TMHL 48 KSH Distributor Asy 3" Solvent High Flow	6" Flange	THREADED	.008	polypropylene	PVC
DKSHL63TM3S-HF	TMHL 63 KSH Distributor Asy 3" Solvent High Flow	6" Flange	THREADED	.008	polypropylene	PVC

# 90mm Solvent High Flow Hub and Lateral Series for Top Mount Valves



MANUFACTURED BY PLASTOMER A DIVISION OF KSH GMBH

ORDER NUMBER	DESCRIPTION	TANK OPENING		LATERAL SLOT SIZE	LATERAL MATERIAL	RISER CONNECTION MATERIAL
DKSHL42TM90MMS-HF	TMHL 42 KSH Distributor Asy 90mm Solvent High Flow	6" Flange	THREADED	.008	polypropylene	PVC
DKSHL48TM90MMS-HF	TMHL 48 KSH Distributor Asy 90mm Solvent High Flow	6" Flange	THREADED	.008	polypropylene	PVC
DKSHL63TM90MMS-HF	TMHL 63 KSH Distributor Asy 90mm Solvent High Flow	6" Flange	THREADED	.008	polypropylene	PVC

#### **3" FNPT Threaded Bottom Mount Hub and Laterals**



MANUFACTURED BY PLASTOMER A DIVISION OF KSH GMBH

ORDER NUMBER	DESCRIPTION	TANK OPENING	LATERAL TO HUB CONNECTION	LATERAL SLOT SIZE	LATERAL MATERIAL	PIPE CONNECTION
DKSHL21FBM3T	BMHL 21 Dist Asy Flange Bottom Mount 3" FNPT	6" Flange	THREADED	.008	polypropylene	3" FNPT
DKSHL24FBM3T	BMHL 24 Dist Asy Flange Bottom Mount 3" FNPT	6" Flange	THREADED	.008	polypropylene	3" FNPT
DKSHL30FBM3T	BMHL 30 Dist Asy Flange Bottom Mount 3" FNPT	6" Flange	THREADED	.008	polypropylene	3" FNPT
DKSHL36FBM3T	BMHL 36 Dist Asy Flange Bottom Mount 3" FNPT	6" Flange	THREADED	.008	polypropylene	3" FNPT
DKSHL42FBM3T	BMHL 42 Dist Asy Flange Bottom Mount 3" FNPT	6" Flange	THREADED	.008	polypropylene	3" FNPT
DKSHL48FBM3T	BMHL 48 Dist Asy Flange Bottom Mount 3" FNPT	6" Flange	THREADED	.008	polypropylene	3" FNPT
DKSHL63FBM3T	BMHL 63 Dist Asy Flange Bottom Mount 3" FNPT	6" Flange	THREADED	.008	polypropylene	3" FNPT

## **3" FNPT Threaded High Flow Bottom Mount Hub and Laterals**



MANUFACTURED BY PLASTOMER A DIVISION OF KSH GMBH

ORDER NUMBER	DESCRIPTION	TANK OPENING	LATERAL TO HUB CONNECTION	LATERAL SLOT SIZE	LATERAL MATERIAL	PIPE CONNECTION
DKSHL42FBM3T-HF	BMHL 42 KSH Distributor Assembly Flange Bottom Mount 3" FNPT Thread High Flow	6" Flange	THREADED	.008	polypropylene	3" FNPT
DKSHL48FBM3T-HF	BMHL 48 KSH Distributor Assembly Flange Bottom Mount 3" FNPT Thread High Flow	6" Flange	THREADED	.008	polypropylene	3" FNPT
DKSHL63FBM3T-HF	BMHL 63 KSH Distributor Assembly Flange Bottom Mount 3" FNPT Thread High Flow	6" Flange	THREADED	.008	polypropylene	3" FNPT

#### **NOTES:**



Corporate Headquarters 4462 Duraform Lane, Windsor, WI 53598-9716

Phone: (608) 846-3010

FAX: (800) 755-3010

FAX: (608) 846-2586

www.clackcorp.com



West Coast Distribution Center 405 N. 75th Ave, Bldg 2, Ste 144 Phoenix, AZ 85043 Phone: (480) 546-7001

FAX: (480) 546-7010