



RO Systems, Membranes & ROmate Tanks

est. 1947

DUFF^{CO.}

When you need it now... or don't know how

PLUMBING & HEATING • PUMPS • WATER CONDITIONING
MULTIFAMILY HOUSING SUPPLIES



CATALOG

610-275-4453

duffcompany.com

DWC REVERSE OSMOSIS DRINKING WATER SYSTEM



DUFF WATER CONDITIONING
Products for Quality Water

The DWC Reverse Osmosis Series, is one of the most convenient and economical methods of reducing the unwanted contaminants that are in drinking water.



FEATURES:

- "Quick-Change" proprietary replacement cartridges
- Standard Warranty
- 50 to 75 gallon per day output options
- 3.2 gallon NSF listed storage tank
- All polytubing is color coded for easy install
- Water feed install kit, including ball valve shut-off and quick change sanitary style cartridges
- 5 Stage R.O. filtration system
- FDA compliant materials
- Attractive ceramic disc faucet
- Booster pump option available for low psi

Specifications	PRO-Q-50	PRO-Q-50P
Booster Pump with Unit	No	Yes
Membrane Production	75 +/- 7 gpd	75 +/- 7 gpd
Membrane T.D.S. Reduction	95% Minimum	95% Minimum
Water Pressure	40- 125 psi	40 - 125 psi
T.D.S.	less then 2,000 ppm	less then 2,000 ppm
Temperature	40- 125° F	40- 125° F
pH Levels	5- 10	5-10
Hardness Levels	less then 10 gpg	less then 10 gpg
Manganese Levels	less then .05 ppm	less then .05 ppm
Hydrogen Sulfide Levels	None	None
Chlorine / Chloramine Levels	None	None
Bacteria Levels	Water source must be potable	Water source must be potable

DIMENSIONS AND MAX FLOW

Model#	Faucet Finish	Dimensions HxWxD	Pipe Size	Max. Flow
PRO-Q-50	Polished Chrome	15x21 x 3.5	1/4"	75 gpd
PRO-Q-50P	Polished Chrome	15x21 x 3.5	1/4"	75 gpd

ACCESSORIES

Order#	Description
4P -1235	Replacement Filter Kit for PRO-Q-75
QME - 75 - W	Replacement Membrane for PRO-Q-75
FR - 575T	Capillary Flow Restrictor 75 gal.

DESIGNER FAUCET UPGRADES

Order#	Description	
1019299	Polished Chrome	finish #1
1019301	Satin Nickel	finish #2
1019303	Arctic White	finish #3
Non-Stock	Light Biscuit	finish #4
Non-Stock	Polished Brass	finish #5
1019311	Antique Bronze	finish #6
Non-Stock	Black	finish #7
1020518	Brushed Stainless	finish #8

NOTES: Call for Cost and availability on Faucet Upgrades.



PRO-Q-75P

50 GPD option with pump also available

Standard 'sump'-style option also available!

All DUFF Units are Proudly Made in the USA and meet WQA standards



MICROLINE REVERSE OSMOSIS DRINKING WATER SYSTEM



MODEL T.F.C.-435

Fig. No.	Complete Microline Units
49113	3-Stage, 25 GPD RO System
45616	4-Stage, 35 GPD RO System (includes Post Filter #2)
83928	4-Stage, 35 GPD RO System (incl. Post Filter #2) w/Monitor
Fig. No.	Replacement Item
51182	25 GPD Replacement Membrane Only
208811	50 GPD Replacement Membrane Only
47868	Replacement Sediment (5 Micron) Pre-Filter
48450	Replacement Sediment/Carbon Block Filter
55624	10" x 2" Inline white GAC cartridge
52359	6" x 2" Inline white GAC cartridge
46922	GAC Replacement Cartridge
155967	Microline Wrench Only
232679	Microline RO Faucet only



Primary Assembly Components

Prefilter:	Membrane:	Post Filter #1:	Post Filter #2:
Sediment/Carbon Filter	Thin Film Composite (T.F.C.)	Activated Carbon Filter	Inline Carbon Filter

Performance Specifications

Membrane Rating	
Membrane Production ¹	41-53 gallons per day (155-201 lpd)
Membrane T.D.S. Reduction ¹	96% minimum
System Rating	
System Production ²	produces 12 gpd (45 lpd)
System Average T.D.S. Reduction ²	95%

Incoming Water Specifications

Water Pressure	40–100 psig (280–690 kPa)
Total Dissolved Solids (T.D.S.)	2000 ppm (mg/l) maximum
Water Temperature	40–100°F (4–38°C)
pH	4–11 (optimum rejection at pH 7.0 - 7.5)
Hardness	less than 10 gpg (170 mg/l) or soften
Iron	less than 0.1 ppm (mg/l)
Manganese	less than 0.05 ppm (mg/l)
Hydrogen Sulfide	none
Chlorine ³	see note below
Bacteria ⁴	water source must be potable

1 Measured at industry standard condition of 65 psig (448 kPa), 77°F (25°C), 250 ppm (mg/l) T.D.S., and discharging to atmosphere. 2 Actual capacity measured at 50 psig (345 kPa), 77°± 2° F (24°- 26° C), and 750 ± 40 ppm (mg/l) TDS per section 6 of NSF/ANSI Standard 58 product water to pressurized storage tank. 3 Chlorine will damage a T.F.C. Membrane. The Sediment/Carbon Prefilter Cartridge is designed to reduce chlorine from the incoming water. Change cartridge every 6 to 12 months, more often if the water contains more than 1 ppm chlorine. 4 Do not use with water that is microbiologically unsafe or of unknown quality, without adequate disinfection before or after the system. Systems certified for cyst reduction may be used on disinfected water that may contain filterable cysts.

GRO ENCAPSULATED ELEMENT HIGH RECOVERY MEMBRANE



FEATURES/BENEFITS

- Double the recovery over standard reverse osmosis elements
- Rejection performance comparable to standard reverse osmosis elements
- High rejection stability at high input TDS
- TLC Thin Layer Composite membrane
- 100% dry membrane maximizing shelf life
- Available with or without drain line flow control
- Capillary style drain line flow control kits available and sized for each GRO model

PART NUMBER	MODEL NUMBER	NOMINAL PERFORMANCE	
		FLOW* GPD (LPD)	REJECTION
4002573	GRO-36EN	36 (136)	96
4002574	GRO-50EN	50 (189)	96
4002575	GRO-75EN	75 (284)	96

SIZE SPECIFICATIONS



Product Tested at 65 psi; 77°F; 50% recovery; 500 ppm NaCl/RO
 *NOTE: The data above is based on internal laboratory testing
 Nominal performances are based on a 500 ppm softened tap at 65 psig (4.48 bar), 77°F (25°C), 50% recovery after 25 hours. Individual element flux may vary +/- 15%.



For options on replaceable filter cartridges, see pages 485-489

DOW FILMTEC REPLACEMENT TFC MEMBRANES



Fits standard Flomatic 2" ID membrane housings

Fig. No.	Type
161553	50GPD
162832	36GPD

GOT QUESTIONS?
 Call your DUFF rep to get the right water treatment solution.



FILTRATION SOLUTIONS DESIGNED TO IMPROVE YOUR WATER

REDUCE IMPURITIES



EVERYTHING YOU NEED

Pentair Drinking Water Systems provide one, two, and three stage systems to solve your drinking water needs.



CLICK AND ENJOY

Effortless click-in lock installation and serviceability solution reduces time and money spent.



NSF: THIRD PARTY CERTIFICATION

When a product boasts the NSF International mark - rest assured it's been certified by the most respected, independent third-party organization dedicated to the health and safety of the public. Pentair Drinking Water Systems hold NSF claims 42, and 53.solve your drinking water needs.



TRUSTED TECHNOLOGY

For more than 40 years Pentair has been the quality choice for water treatment. The Pentair Drinking Water Systems' unique encapsulated membrane technology prevents contaminants from entering your water.

LEAD

Safeguard your family from harmful contaminants like lead. All systems are NSF Certified to reduce lead

CYST*

Reduce cysts such as Cryptosporidium and Giardia which could cause negative health effects.

TASTE & ODOR

Eliminate poor tasting and smelling water which can be caused by algae, molds, and bacteria that naturally live in most water sources.

VOLATILE ORGANIC CHEMICALS

V. O. C.s include components of gasoline, and industrial cleaners which can cause many illnesses.

DIRTY WATER

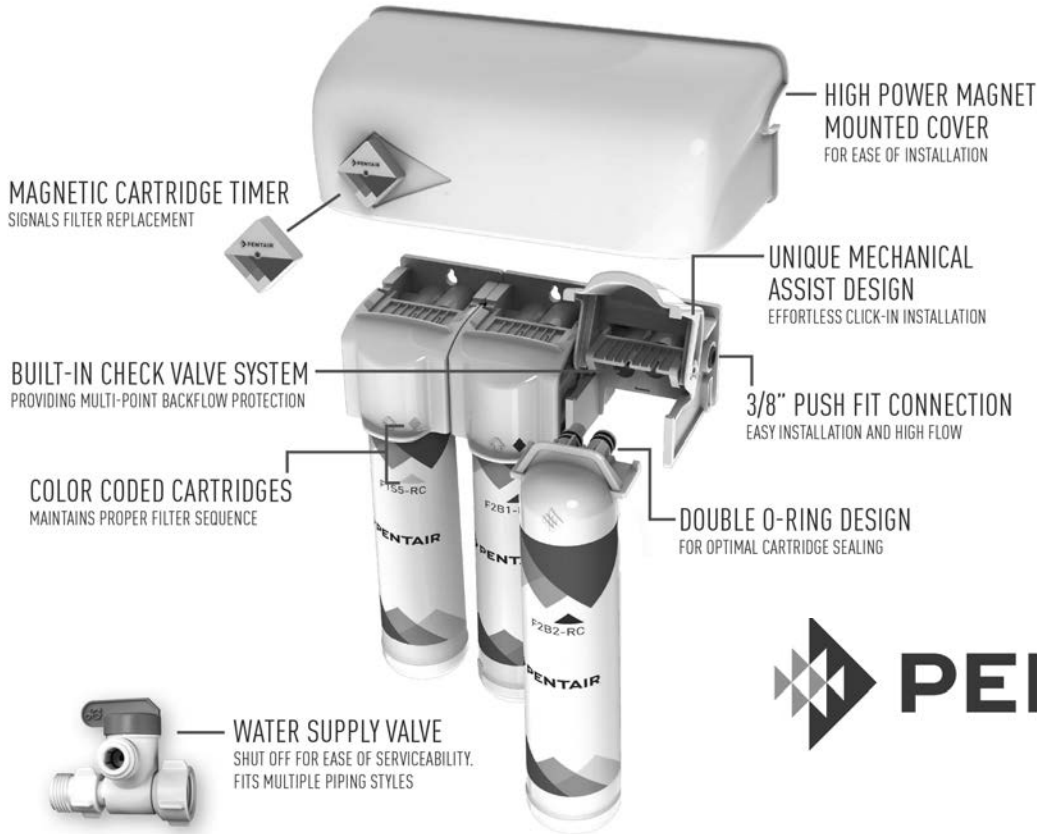
Brown water is caused both by tea-like extracts of decaying leaves and by metals such as iron, manganese, and copper

CHLORINE

Chlorine, commonly used by municipalities to disinfect the water supply, often causes poor tasting and smelling water

*NSF/ANSI Standard 53 certified to reduce cysts such as Cryptosporidium and Giardia by mechanical means.

FILTRATION SOLUTIONS DESIGNED TO IMPROVE YOUR WATER



Pentair Drinking Water Systems are designed specifically for the water treatment professional to provide ease of installation and service.



F1000-DFB F1000-B1B F2000-B2B F2000-B2M F3000-B2B F3000-B2M

	F1000-DFB	F1000-B1B	F2000-B2B	F2000-B2M	F3000-B2B	F3000-B2M
DIRTY WATER	•				•	•
FINE SEDIMENT	•	•	•	•	•	•
TASTE & ODOR	•	•	•	•	•	•
CHLORINE	•	•	•	•	•	•
LEAD		•	•	•	•	•
CYST*		•	•	•	•	
ATRAZINE		•	•	•	•	•
LINDANE		•	•	•	•	•
VOLATILE ORGANIC CHEMICALS			•	•	•	•
FAUCET INCLUDED	•	•	•	•	•	•
CARTIDGE TIMER				•		•
NSF 42	•	•	•	•	•	•
NSF 53		•	•	•	•	•

*NSF/ANSI Standard 53 certified to reduce cysts such as Cryptosporidium and Giardia by mechanical means.
EPA EST. NO. 082989-CHN-001

COMMERCIAL & LIGHT INDUSTRIAL REVERSE OSMOSIS UNITS

From 100 GPD low pressure units to 120 Gallons Per Minute units, we offer both standard and highly customizable RO units to meet your needs.

- Auto Flush • Control Panel • Waste Recycle
- Crating • Pre-Filter Gauge • Powder Coating

Standard Low-Pressure Units

Low Pressure Units are based on 500 ppm solution at 115 psig operating pressure and 77 degree water.

Part No.	Gallons Per Day	Part No.	Gallons Per Day
LP-100	100 GPD Low Pressure Unit	LP-11500	11,500 GPD Low Pressure Unit
LP-500	525 GPD Low Pressure Unit	LP-17000	17,000 GPD Low Pressure Unit
LP-800	800 GPD Low Pressure Unit	LP-20	20,000 GPD Low Pressure Unit
LP-1000	1,000 GPD Low Pressure Unit	LP-40	40,000 GPD Low Pressure Unit
LP-2800	2,800 GPD Low Pressure Unit	LP-60	86,400 GPD Low Pressure Unit
LP-5000	5,000 GPD Low Pressure Unit	LP-80	115,200 GPD Low Pressure Unit
LP-7500	7,500 GPD Low Pressure Unit		



Part No.	Gallons Per Day
HP-2200	2200 GPD High Pressure Unit
HP-4400	4400 GPD High Pressure Unit
HP-6600	6600 GPD High Pressure Unit
HP-8800	8800 GPD High Pressure Unit

Standard High-Pressure Units

High Pressure Units are based on 2000 ppm solution at 225 psig operating pressure and 77 degree water.

Light Commercial RO Units

STANDARD FEATURES:

- NSF Certified Membrane
- Stainless Steel Drain Valve & Membrane Housing
- 2" x 20" Sediment Pre Filter
- Proconn Pump
- Inlet Solenoid Valve
- TDS Monitor for Product and Feed
- SS Operating Pressure Gauge
- Low Pressure Safety Cut Off
- Comprehensive Warranty
- High Pressure Cut Off Switch
- Easy to Install and Maintain
- Product and Drain Flow Meters
- Aluminum Frame



UNIT OPTIONS & SPECIFICATIONS:

Unit	LP-500	LP-800	LP-100		LP-500	LP-800	LP-100
Membrane Part #	PM-2521-BLF	PM-2540-TL	PM-4021-BLF	Amps	375W	375W	375W
Membrane Size	2.5 x 21	2.5 x 40	4 x 21	Connection Feed	3/4"	3/4"	3/4"
GPD	525	800	1000	Connection Product	3/8"	3/8"	3/8"
Production GPM	0.36	0.55	0.72	Pump Model	112A070F-11BA170	112A070F-11BA170	112A100F-11BA170
Rejection GPM	0.8	0.61	0.94	Pre-Filter Size	2x20	2x20	2x20
Total GPM	1.16	1.16	1.66	Dimension WxDxH	20x13x26	20x13x48	20x13x26
Recovery	31.00%	47.00%	43.0	Approximate Unit Weight	30	40	43
Operating PSI	150	150	150				
Motor HP	1/3/13	1/3/13	1/3/13				
Volts	115	115	115				

COMMERCIAL & LIGHT INDUSTRIAL REVERSE OSMOSIS UNITS

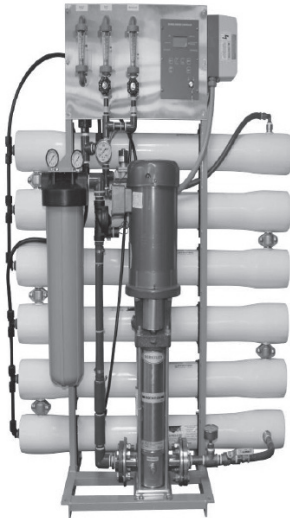
Single Membrane Industrial RO Units

STANDARD FEATURES:

- SF Certified Membrane on LP-2800
- Stainless Steel Membrane Housing
- Gould's Multi Stage SS Centrifugal Pump
- TDS Monitor for Product and Feed
- Low Pressure Safety Cut Off
- Product and Drain Flow Meters
- Stainless Steel Drain Valve
- 2" x 20" Sediment Pre-Filter
- Inlet Solenoid Valve
- SS Operating Pressure Gauge
- Comprehensive Warranty
- Easy to Install and Maintain
- Aluminum Frame

Low Pressure (LP) Units are based on 500 ppm properly pre-treated water at 115 psig operating pressure and 77 degree water.

High Pressure (HP) Units are based on 2000 ppm properly pre-treated water at 225 psig operating pressure and 77 degree water.



Unit	LP-2800	HP-2200		LP-2800	HP-2200
Membrane size Part #	1 4x40 low pressure PM-4040-BLF	1 4x40 high pressure PM-4040-BE	Volts	115/230	115/230
GPD	2800	2200	Amps	10.8/5.4	16.2/8.1
Production GPM	2	1.52	Connection Feed	3/4"	3/4"
Rejection GPM	6	3.48	Connection Product	1/2"	1/2"
Total GPM	8	5	Pump Model	7GBS05FS	7GBS10FS
Recovery	25%	30%	Pre-Filter Size	2x20	2x20
Operating PSI	115	225	Dimensions WxDxH	18x23x55	18x23x55
Motor Horse Power	0.5	1	Approximate Unit Weight	120 lbs.	120 lbs.

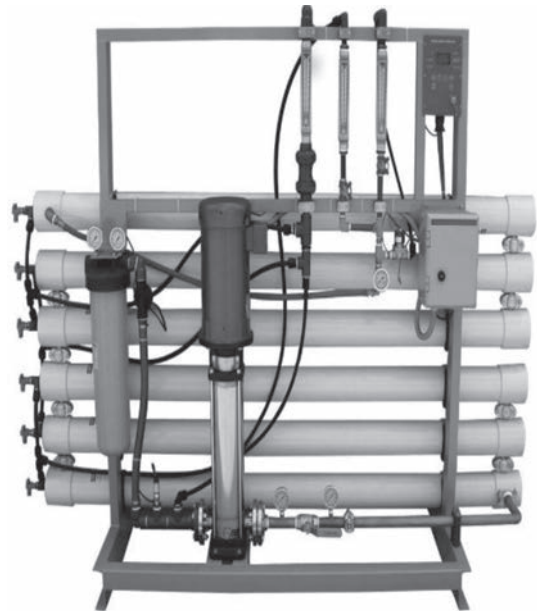
Multi Membrane Industrial RO Unit

STANDARD FEATURES:

- 6 NSF Certified Membranes
- Stainless Steel Membrane Housing
- Goulds Multi Stage SS Centrifugal Pump
- TDS Monitor for Product and Feed
- Low Pressure Safety Cut Off
- Product and Drain Flow Meters
- Stainless Steel Drain Valve
- 4.25" x 20" Sediment Pre-Filters
- Inlet Solenoid Valve
- SS Operating Pressure Gauge
- Comprehensive Warranty
- Easy to Install and Maintain
- Aluminum Frame
- Control Panel
- Auto Flush
- Crating on Units Shipped

UNIT OPTIONS & SPECIFICATIONS:

	LP-17000		LP-17000
Membrane Size	6 4x40 low pressure	Volts	230
Part #	PM-4040-BLF	Amps	21.4/10.7
GPD	17000	Connection Feed	1"
Production GPM	11.97	Connection Product	1"
Rejection GPM	13.01	Pump Model	25GBS30FS
Total GPM	25	Pre-Filter Size	4.25x20
Recovery	47.00%	Dimensions WxDxH	36x30x74
Operating PSI	115	Approximate Unit Weight	170 lbs.
Motor Horse Power	3		



ROmate TANKS



High-performance, high-value vessels for residential and light commercial reverse osmosis applications. Specifically designed for reverse osmosis systems, these small vessels offer big advantages over competitive tanks via 100% seamless, composite construction, and the ability to discharge in any position. ROmate vessels feature a 5-year warranty.

FIG NO.	MODEL	CAPACITY GAL.	HEIGHT	DIAMETER	WEIGHT
47207	ROmate 4	3.6	19-3/8"	9"	8 lbs.
73909	ROmate 15	14.5	26-1/2"	16"	15 lbs.
45354	ROmate 20	19.8	32"	16"	19 lbs.
45355	ROmate 30	29.5	44"	16"	23 lbs.
45356	ROmate 40	4.3	56-3/4"	16"	30 lbs.
48693	ROmate 80	86.7	55-1/2"	24-1/4"	58 lbs.

Maximum pressure = 125 psi



est. 1947

DUFF CO.

When you need it now... or don't know how



How to Order

Submit your order online

or

email info@duffco.com

Be sure to include

product numbers

descriptions

quantities

Don't forget to include your name!

DUFF SUPPLY COMPANY

WATER TREATMENT EQUIPMENT - PUMPS - PLUMBING - HEATING - INDUSTRIAL SUPPLIES - PUMPS
 STEAM SPECIALTIES - PIPE - VALVES - FITTINGS - SOFTENERS - FILTERS
 201 EAST LAFAYETTE STREET, P.O. BOX 618, NORRISTOWN, PA 19401
 PHONE: 610-275-4453 FAX: 610-279-6299



SOLD TO:

SHIP TO:

YOUR NAME: _____ PURCHASE ORDER NO. _____

TODAY'S DATE: _____ REQUIRED DATE: _____

QTY	FIG. NO.	DESCRIPTION	PRICE/EA	TOTAL



TERMS: NET - 10TH OF MONTH FOLLOWING PURCHASE
 WE WILL PREPAY AND ADD FREIGHT FOR ALL ORDERS SHIPPED UPS OR COMMON CARRIER

All accounts are to be paid in full to Duff Supply Company monthly by the tenth (10th) day of the month following invoice date, a 1% service charge and a 1% interest charge will be made on any balance open at the end of the month following invoice, and in the event that legal action or lien be undertaken, or the service of a collection agency are used to collect this account, the customer shall pay all expenses incurred by Duff Supply Company, such as, but not limited to, costs and collection, legal and lien fees.

QTY	FIG. NO.	DESCRIPTION	PRICE/EA	TOTAL



*Thank You
for your business!*



Contact name _____ Contact Date _____



DUFF COMPANY

201 East Lafayette Street
Norristown, PA 19401



Phone: **610-275-4453** Fax: **610-279-6761**

Legal Name _____

Name in which business is conducted _____

Billing Address _____

City _____ State _____ Zip _____

Purchasing Phone _____ A/P Phone _____ Fax _____



Principal's Name _____

Principal's Address _____

City _____ State _____ Zip _____

Phone (Office) _____ (Cell) _____ E-mail address _____

Website address (If applicable) _____

Primary Contact _____ Title _____



SHIPPING ADDRESS - IF DIFFERENT

Shipping Address _____ Phone _____

City _____ State _____ Zip _____

Tax Exempt Number _____ Provide a copy of Certificate. We CAN NOT set up a Tax Exempt Account without certification.



TYPE OF BUSINESS

Plumbing _____ Pumps _____ Heating _____ Municipality _____ Hotel or Apts. _____ Well Drilling _____
Hospital _____ Factory (OEM) _____ Factory (Mtn) _____ Office Building _____ Shopping Center _____
Golf Course _____ Water Treatment _____ Environmental _____ Other (Please name) _____

Have you been contacted by one of our salesman? _____ Name _____

If YES, please explain _____

Name of person authorized to pick up _____

D&B Rating _____ Check one: Corporation _____ Partnership _____ Individual Proprietor _____

If division of another company, name parent company and relationship _____

DUFF COMPANY

201 East Lafayette Street, Norristown, PA 19401

TRADE REFERENCES

Name _____ Type of business _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____



Name _____ Type of business _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____



Name _____ Type of business _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____



Bank reference _____

Branch Address _____

City _____ State _____ Zip _____

Branch officer who handles account _____

In consideration of your opening the above account and/or extended credit, the undersigned hereby agrees that all information supplied in this application is correct, that all accounts are to be paid in full to Duff Company monthly by the tenth day of the month following the invoice date, that a 1% service charge and a 1% interest charge will be made on any balance open at the end of the month following invoice date, and that in the event that legal action or lien be taken, or the service of a collection agency are used to collect this account, the undersigned shall pay all expenses incurred by the Duff company, such as, but not limited to, collection fees, costs and legal fees.

Applicant (Name of Account) _____

By _____ Title _____

The undersigned _____ and _____ for good and valuable consideration, hereby jointly, severally and personally unconditionally guarantee, warrant and promise the full and prompt (within terms) payments of all bills and other obligations (as set forth above) of the applicant in connection with any credit extended to the applicant by Duff Company.*

Principal _____ Witness _____ Principal's Spouse _____ Witness _____

Principal _____ Witness _____ Principal's Spouse _____ Witness _____

We routinely fax invoices to our customers. Please provide a fax number where we can send invoices _____

PLEASE FAX FORM TO 610-275-6761

*As appropriate, we may also require the guarantee of a principal and, in some cases, the principal's spouse.

For Duff Company Use Only

Credit Limit: _____	Contact: _____	Certificate Recd: _____
Tax Jurisdiction: _____	General Manager _____	Type: _____
Salesman: _____	Class: _____	Controller: _____
	Date Approved: _____	