

Inflow

US WATERGROUP

May 2003 Volume 5, Number 2

Best Guarantee in the Business!

(and Proud of It!)

When you have confidence in your products, you're not afraid to stand behind them. Duro Dynaflo & Pedrollo Deep Well Submersible Pumps come with the longest guarantees in the business: **"five years" with an additional five years extended guarantee available.**

The Duro "Dynaflo" Submersible Pump series has been a proven reliable performer for many years. Every Duro "Dynaflo" deep well submersible pump is factory tested to guarantee that your pump meets our standard of excellence. Built to work under most water conditions and supply demands, "Dynaflo" ensures consistently reliable service.

Pedrollo is an Italian manufacturer and a world leader in the production of quality Deep Well Submersible pumps. For more than 28 years Pedrollo S.p.A has been manufacturing quality electric motors and pumps for domestic

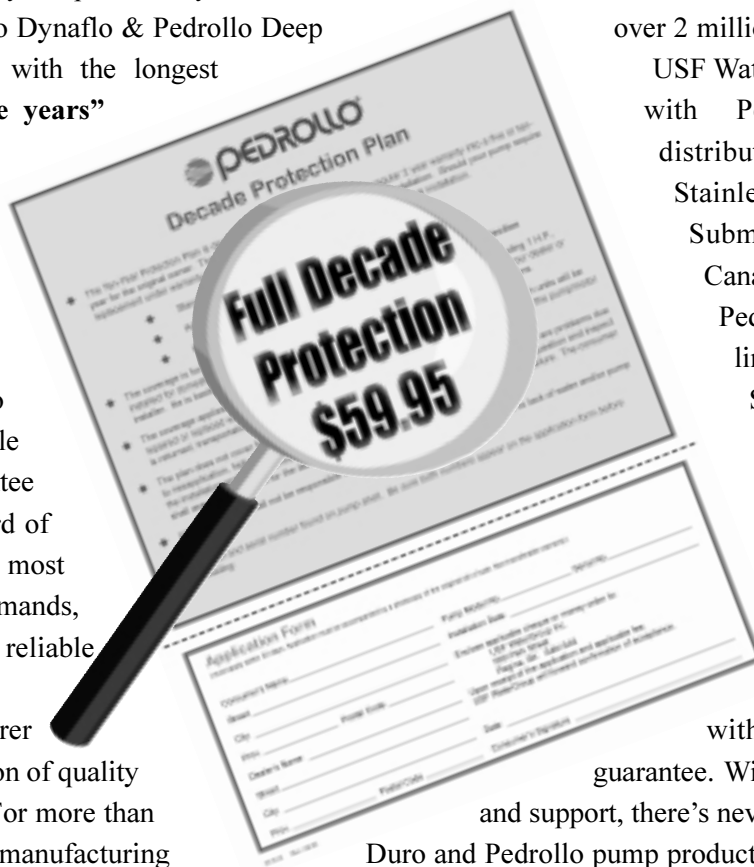
and commercial applications producing over 2 million pumps in 2002.

USF WaterGroup is proud to partner with Pedrollo to exclusively distribute the Pedrollo line of Stainless Steel Deep Well Submersible Pumps to the Canadian pump market. The Pedrollo line extends the Duro line with capacities in the 4" SR series up to 110 usgpm and the 6" SR Series up to 180 usgpm.

The Duro Convertible Jet Pumps and the Pedrollo Stainless Steel and Cast Iron Jet Pumps all come

with a standard 2 year guarantee. With these kind of guarantees and support, there's never been a better time to buy

Duro and Pedrollo pump products.



Inside *Inflow* ...



Dealer Profile



Service Call



Featured Products

Steady Growth in Apprenticeship Training Red Deer College, Alberta

Red Deer College opened its doors to a brand new facility in 1967 then known as Red Deer Junior College.

The college did not engage in apprenticeship training until 1982, when a new facility was built. At this time ten trades were committed to apprenticeship training. There were approximately 560 students enrolled with a steady growth since to about 2025 to date.

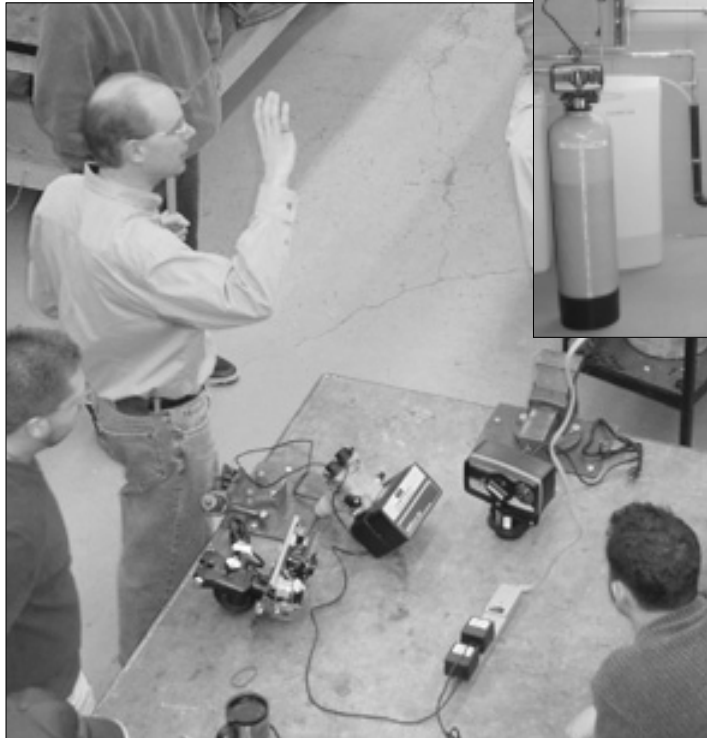
The plumber / gasfitter trade has in itself had substantial growth since 1990 when 70 students were enrolled with two instructors to 400 students with ten dedicated instructors.

Class sizes are relatively small (twelve) compared to other institutions. This number seems to reflect a better quality of education from a one on one instructor/student relationship.

The instructors in the plumber/steam fitting program initiate the total instructional package which involves tracking all the related trade subjects such as math, science, etc. as well as the relevant core subjects. One instructor for one class for eight weeks for at least three classes. Our school year runs from the 3rd week in August to the last week in June.

Red Deer College, over the years has become one of the premier

institutions engaged in apprenticeship training. The training is provided by innovative, skilled instructors dedicated to the learning



*John Cardiff training Red Deer College Plumber Apprentices (above)
Water Treatment Training Lab Equipment (inset picture)*



of apprentices.

Red Deer college has recently constructed a water treatment training lab. Located on the second floor of the plumbing facility are iron filters, softeners, carbon filters, multimedia filters, R.O. units, chlorinators, and ultra-violet sterilizers.

The majority of this equipment has been supplied by USF WaterGroup and Emco-Westlund.

John Cardiff, Western Canada Sales Manager for USF WaterGroup has been brokering with Red Deer College for a number of years in assisting staff with classroom and hands on training. He was instrumental in the design of the new facility and periodically maintains the units when the need arises.

Many thanks to John for all his help and expertise on his part in training our 4th year plumber apprentices in the area of water treatment.

Greg Leclair: A Dedicated Customer Service Manager!

On January 2003 Greg Leclair was appointed Inside Sales Manager for USF WaterGroup. Greg has been with USF WaterGroup since July 1984 and during the last 19 years Greg has worked in various capacities including control valve assembly, customer service, order desk and now managing eight inside sales/customer service employees in our Regina Head Office location.

Born and raised in southern Saskatchewan, Greg has witnessed WaterGroup's tremendous growth. He appreciates both the small business we once were and the large corporation we have become. Greg believes in the importance of satisfying all our customers needs. This will never change and truly is why he feels

we have earned continuous respect.

Greg is recognized within USF WaterGroup as one of the strongest technical people with a wealth of product knowledge and keen sense of the importance of supporting our dealers and wholesale customers. His experience and product knowledge enable him to effectively manage the ever growing challenges our customer service personnel deal with every day.

When Greg is not supporting our customers, he and his wife Heather are busy raising their 3 wonderful boys.

USF WaterGroup is fortunate to have dedicated employees like Greg!



Service Call / Installation Tip Model 8089 Pump



- This pump includes a float switch for automatic shut-off. Ensure that it has enough room to move freely, without catching on any obstructions.
- Do not operate this pump for extended periods unless the motor shell is submerged
- Do not use pump to raise water more than six feet without installing a check valve.
- Pump clean or grey water ONLY. Stones, sand, sediment or other solids will damage the pump.
- Pumping of corrosive liquids will void warranty.

H2O Problems / Solutions

Problem:

A dairy farm is upgrading their barn and is looking at installing equipment for softening the hot and cold water usage for the cleaning equipment only. Their water source is a well with a maximum capacity of 12 gpm.

Water Analysis:

50 GPG total hardness
2 PPM Iron
0.4 PPM Manganese
7.5 pH
1111 TDS
Hot and cold water usage
1000 usgpd estimated usage
7 usgpm estimated peak flow rate

Solution:

After reviewing the above information we have suggested the following equipment:

Model AMG 14-1FTDO-CC Greensand Filter (for removal of iron)
Model FAF 90-1S40 Softener (for softening water)

The above product has been recommended along with putting flow restrictors on the Greensand Filter. This is to avoid slippage of iron on each unit. With the iron & manganese level at 2.8ppm, the duplex unit is required. The iron filters are rated for 5usgpm

per tank. Normally a unit is sized for three-day capacity. A larger single unit was first suggested, but the well does not have enough recovery for the backwash cycle, so a smaller duplex unit is required. The capacity of this unit is a one-day sizing based on iron capacity of 500 grains/sq.ft.

To determine the run length of the unit you add the levels of iron (2.0 ppm) and manganese (0.4 ppm x 2) for a total of 2.8 ppm. $2.8 \times 17.1 = 0.16$ grains/gal (gpg). $500 \text{ grains/sq.ft} \div 0.16\text{gpg} = 3125 \text{ gal/sq.ft}$. $3125 \text{ gal./sq.ft.} \div 4 \text{ gpm sq.ft operating rate} = 781 \text{ minutes}$. 781×2 (duplex) = 1562 minutes.

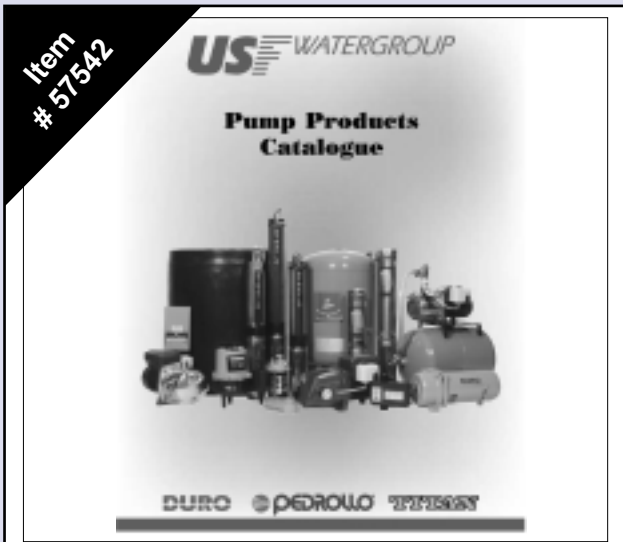
For iron removal the customer requested a Chemical Free unit, but because of the manganese in the water a Greensand Filter had to be used.

The Softener was sized for less than a two day sizing before regeneration. A single unit was all that is required with delayed regeneration. This unit is meter initiated and regenerates after a set number of gallons are used. The FAF 90-1S40 softener has a flow rate capability of 20usgpm @ 15 psi pressure drop. A flow rate of 7usgpm will have a minimum pressure drop.

A three-day capacity sizing is usually recommended for softeners. A single unit to accommodate three days before regeneration would require a higher backwash rate than the well capacity. There was also a space limitation for the equipment. Therefore a smaller single unit was recommended.

The softener was determined by taking the volume of water $1000 \text{ gal} \times 50\text{gpg hardness} = 50,000 \text{ grains}$. This is a one-day sizing. The closest size unit to fit within the criteria of backwash rates and space was the FAF 90, which is just under a two-day capacity size.

Now Available!



USF WaterGroup Pump Products Catalogue

Our new condensed catalogue is full of the products and information you need for your business. The catalog will feature all available DURO, Pedrollo and Titan pump products. As well, you will also find control products such as MasControl, ControlPres, Franklin Electric Pumptec and Aqua Flo Well Tanks.

Quality Products Produce Quality Water!
For more information, please contact:

USF WaterGroup
Toll-Free 1-877-288-9888

Featured Product!



Titan 8089: Submersible Sump Pump with Piggyback Style Float

The TITAN model 8089 features:

- 1/4 HP Motor, 115V / 60Hz
- 1 1/4" Discharge
- Piggyback style float switch with 10ft. cord for automatic operation and simple maintenance
- 10ft. Power cord
- Two-year guarantee

Quality Products Produce Quality Water!
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Since 1967, USF WaterGroup has manufactured & distributed water treatment and pump products across Canada. Our commitment to providing our customers with quality, leading-edge products, backed by unparalleled service and support, has earned us our reputation as the leader in the Canadian water treatment industry.

For more information on our company or to receive complimentary issues of Inflow on a regular basis, please mail or fax your inquiry to the attention of Denise Hughes:

USF WaterGroup
580 Park Street, Regina, SK, S4N 5A9
Fax: (306) 721-5610



THE LAST DROP

Water helps maintain proper muscle tone and prevents sagging skin.