

DT9000-0 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 4 gpm. The system to be capable of treating a peak flow rate of 6 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 0.5 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 15,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9000-0** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 8 inches in diameter and 35 inches height. Each tank shall have a 2 1/2-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a single strainer.

5.0 ION EXCHANGE RESINS

Each vessel will contain 1/2-cubic foot of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9000, plastic control valve shall have 3/4-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 14 inches square x 34 inches high. The brine system will be of the dry salt design capable of holding approximately 280 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, and a float type brine valve.

8.0 CONTROLS

The system is controlled by a plastic, 3/4-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9000, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9000-2 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 8 gpm. The system to be capable of treating a peak flow rate of 12 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 1 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 30,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9000-2** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 10 inches in diameter and 40 inches height. Each tank shall have a 2 1/2-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a single strainer.

5.0 ION EXCHANGE RESINS

Each vessel will contain 1-cubic foot of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9000, plastic control valve shall have 3/4-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 14 inches square x 34 inches high. The brine system will be of the dry salt design capable of holding approximately 280 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, and a float type brine valve.

8.0 CONTROLS

The system is controlled by a plastic, 3/4-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9000, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9000-4 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 10 gpm. The system to be capable of treating a peak flow rate of 16 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 1.5 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 60,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9000-4** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 12 inches in diameter and 52 inches height. Each tank shall have a 2 1/2-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a single strainer.

5.0 ION EXCHANGE RESINS

Each vessel will contain 2-cubic feet of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9000, plastic control valve shall have 3/4-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 18 inches round x 35 inches high. The brine system will be of the dry salt design capable of holding approximately 320 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, and a float type brine valve.

8.0 CONTROLS

The system is controlled by a plastic, 3/4-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9000, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9000-5 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 14 gpm. The system to be capable of treating a peak flow rate of 20 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 2 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 90,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9000-5** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 14 inches in diameter and 65 inches height. Each tank shall have a 4-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a central hub and laterals.

5.0 ION EXCHANGE RESINS

Each vessel will contain 3-cubic feet of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9000, plastic control valve shall have 3/4-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 24 inches round x 54 inches high. The brine system will be of the dry salt design capable of holding approximately 840 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, salt grid and a float type brine valve.

8.0 CONTROLS

The system is controlled by a plastic, 3/4-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9000, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9001-2 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 8 gpm. The system to be capable of treating a peak flow rate of 12 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 1 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 30,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9001-2** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 10 inches in diameter and 40 inches height. Each tank shall have a 2 1/2-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a single strainer.

5.0 ION EXCHANGE RESINS

Each vessel will contain 1-cubic foot of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9001, brass control valve shall have 1-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 14 inches square x 34 inches high. The brine system will be of the dry salt design capable of holding approximately 280 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, and a float type brine valve.

8.0 CONTROLS

The system is controlled by a brass, 1-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9001, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9001-4 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 10 gpm. The system to be capable of treating a peak flow rate of 18 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 1.5 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 60,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9001-4** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 12 inches in diameter and 52 inches height. Each tank shall have a 2 1/2-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a single strainer.

5.0 ION EXCHANGE RESINS

Each vessel will contain 2-cubic feet of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9001, brass control valve shall have 1-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 18 inches round x 35 inches high. The brine system will be of the dry salt design capable of holding approximately 320 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, and a float type brine valve.

8.0 CONTROLS

The system is controlled by a brass, 1-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9001, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9001-5 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 14 gpm. The system to be capable of treating a peak flow rate of 20 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 2 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 90,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9001-5** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 14 inches in diameter and 65 inches height. Each tank shall have a 4-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a central hub and laterals.

5.0 ION EXCHANGE RESINS

Each vessel will contain 3-cubic feet of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9001, brass control valve shall have 1-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 24 inches round x 54 inches high. The brine system will be of the dry salt design capable of holding approximately 840 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, salt grid and a float type brine valve.

8.0 CONTROLS

The system is controlled by a brass, 1-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9001, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9001-6 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 18 gpm. The system to be capable of treating a peak flow rate of 24 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 3 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 120,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9001-6** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 16 inches in diameter and 65 inches height. Each tank shall have a 4-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a central hub and laterals.

5.0 ION EXCHANGE RESINS

Each vessel will contain 4-cubic feet of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9001, brass control valve shall have 1-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 24 inches round x 54 inches high. The brine system will be of the dry salt design capable of holding approximately 780 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, salt grid and a float type brine valve.

8.0 CONTROLS

The system is controlled by a brass, 1-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9001, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9100-0 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 4 gpm. The system to be capable of treating a peak flow rate of 6 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 0.5 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 15,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9100-0** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 8 inches in diameter and 35 inches height. Each tank shall have a 2 1/2-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a single strainer.

5.0 ION EXCHANGE RESINS

Each vessel will contain ½-cubic foot of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9100, plastic control valve shall have 3/4-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 14 inches square x 34 inches high. The brine system will be of the dry salt design capable of holding approximately 280 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, and a float type brine valve.

8.0 CONTROLS

The system is controlled by a plastic, 3/4-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9100, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9100-2 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 8 gpm. The system to be capable of treating a peak flow rate of 12 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 1 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 30,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9100-2** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 10 inches in diameter and 40 inches height. Each tank shall have a 2 1/2-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a single strainer.

5.0 ION EXCHANGE RESINS

Each vessel will contain 1-cubic foot of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9100, plastic control valve shall have 3/4-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 14 inches square x 34 inches high. The brine system will be of the dry salt design capable of holding approximately 280 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, and a float type brine valve.

8.0 CONTROLS

The system is controlled by a plastic, 3/4-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9100, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9100-4 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 10 gpm. The system to be capable of treating a peak flow rate of 16 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 1.5 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 60,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9100-4** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 12 inches in diameter and 52 inches height. Each tank shall have a 2 1/2-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a single strainer.

5.0 ION EXCHANGE RESINS

Each vessel will contain 2-cubic feet of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9100, plastic control valve shall have 3/4-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 18 inches round x 35 inches high. The brine system will be of the dry salt design capable of holding approximately 320 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, and a float type brine valve.

8.0 CONTROLS

The system is controlled by a plastic, 3/4-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9100, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9100-5 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 14 gpm. The system to be capable of treating a peak flow rate of 20 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 2 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 90,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9100-5** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 14 inches in diameter and 65 inches height. Each tank shall have a 4-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a central hub and laterals.

5.0 ION EXCHANGE RESINS

Each vessel will contain 3-cubic feet of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9100, plastic control valve shall have 3/4-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 24 inches round x 54 inches high. The brine system will be of the dry salt design capable of holding approximately 840 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, salt grid and a float type brine valve.

8.0 CONTROLS

The system is controlled by a plastic, 3/4-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9100, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9101-2 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 8 gpm. The system to be capable of treating a peak flow rate of 12 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 1 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 30,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9101-2** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 10 inches in diameter and 40 inches height. Each tank shall have a 2 1/2-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a single strainer.

5.0 ION EXCHANGE RESINS

Each vessel will contain 1-cubic foot of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9101, brass control valve shall have 1-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 14 inches square x 34 inches high. The brine system will be of the dry salt design capable of holding approximately 280 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, and a float type brine valve.

8.0 CONTROLS

The system is controlled by a brass, 1-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9101, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9101-4 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 10 gpm. The system to be capable of treating a peak flow rate of 18 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 1.5 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 60,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9101-4** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 12 inches in diameter and 52 inches height. Each tank shall have a 2 1/2-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a single strainer.

5.0 ION EXCHANGE RESINS

Each vessel will contain 2-cubic feet of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9101, brass control valve shall have 1-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 18 inches round x 35 inches high. The brine system will be of the dry salt design capable of holding approximately 320 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, and a float type brine valve.

8.0 CONTROLS

The system is controlled by a brass, 1-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9101, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9101-5 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 14 gpm. The system to be capable of treating a peak flow rate of 20 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 2 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 90,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9101-5** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 14 inches in diameter and 65 inches height. Each tank shall have a 4-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a central hub and laterals.

5.0 ION EXCHANGE RESINS

Each vessel will contain 3-cubic feet of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9101, brass control valve shall have 1-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 24 inches round x 54 inches high. The brine system will be of the dry salt design capable of holding approximately 840 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, salt grid and a float type brine valve.

8.0 CONTROLS

The system is controlled by a brass, 1-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9101, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9101-6 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 18 gpm. The system to be capable of treating a peak flow rate of 24 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 3 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 120,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9101-6** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 16 inches in diameter and 65 inches height. Each tank shall have a 4-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a central hub and laterals.

5.0 ION EXCHANGE RESINS

Each vessel will contain 4-cubic feet of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9101, brass control valve shall have 1-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 24 inches round x 54 inches high. The brine system will be of the dry salt design capable of holding approximately 780 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, salt grid and a float type brine valve.

8.0 CONTROLS

The system is controlled by a brass, 1-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9101, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9500-5ET WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 14 gpm. The system to be capable of treating a peak flow rate of 22 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 2 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 90,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9500-5ET** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 14 inches in diameter and 65 inches height. Each tank shall have a 4-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a central hub and laterals.

5.0 ION EXCHANGE RESINS

Each vessel will contain 3-cubic feet of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9500, plastic control valve shall have 1 1/2-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 24 inches round x 54 inches high. The brine system will be of the dry salt design capable of holding approximately 800 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, salt grid and a float type brine valve.

8.0 CONTROLS

The system is controlled by a plastic, 1 1/2-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9500, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9500-6ET WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 18 gpm. The system to be capable of treating a peak flow rate of 28 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 3 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 120,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9500-6ET** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 16 inches in diameter and 65 inches height. Each tank shall have a 4-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a central hub and laterals.

5.0 ION EXCHANGE RESINS

Each vessel will contain 4-cubic feet of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9500, plastic control valve shall have 1 1/2-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 24 inches round x 54 inches high. The brine system will be of the dry salt design capable of holding approximately 770 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, salt grid and a float type brine valve.

8.0 CONTROLS

The system is controlled by a plastic, 1 1/2-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9500, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9500-7ET WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 27 gpm. The system to be capable of treating a peak flow rate of 34 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 4 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 150,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9500-7ET** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 18 inches in diameter and 65 inches height. Each tank shall have a 4-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a central hub and laterals.

5.0 ION EXCHANGE RESINS

Each vessel will contain 5-cubic feet of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9500, plastic control valve shall have 1 1/2-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 24 inches round x 54 inches high. The brine system will be of the dry salt design capable of holding approximately 730 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, salt grid and a float type brine valve.

8.0 CONTROLS

The system is controlled by a plastic, 1 1/2-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9500, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9500-8ET WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 36 gpm. The system to be capable of treating a peak flow rate of 42 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 5.5 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 195,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9500-8ET** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 21 inches in diameter and 62 inches height. Each tank shall have a 4-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a central hub and laterals.

5.0 ION EXCHANGE RESINS

Each vessel will contain 6 ½-cubic feet of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9500, plastic control valve shall have 1 1/2-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 24 inches round x 54 inches high. The brine system will be of the dry salt design capable of holding approximately 660 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, salt grid and a float type brine valve.

8.0 CONTROLS

The system is controlled by a plastic, 1 1/2-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9500, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.

DT9500-10ET WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a continuous rate of 42 gpm. The system to be capable of treating a peak flow rate of 50 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 6.5 gpm.
- 1.2 The water softening system shall have a rated capacity of no less than 270,000 grains between regenerations.
- 1.3 Qualified manufacturers of the water softening system, as specified below, are Res-Kem Corp. or engineer's approved equal.

2.0 DESCRIPTION

The water softening system, in compliance with the equipment specifications, shall be an automatic softening system per the performance and design criteria as detailed in this specification.

The softener system shall be **Res-Kem DT Series Model DT9500-10ET** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 24 inches in diameter and 72 inches height. Each tank shall have a 4-inch top opening. All tanks shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 Softener tanks shall be constructed of corrosion resistant, rugged, fiberglass reinforced polyester. The exterior side shell shall be reinforced by a roving glass filament over wrap of the same color as the tank shell. A molded polypropylene structural base shall support the tank

4.0 INTERNALS

Each softener shall be provided with all internals necessary for distributing and collecting water flows in a uniform manner. The underdrain system shall consist of a central hub and laterals.

5.0 ION EXCHANGE RESINS

Each vessel will contain 9-cubic feet of high capacity industrial grade virgin 8% cross-linked styrene and divinylbenzene polymer Gel Cation Exchange Resin. It shall be furnished in the Sodium regenerated form, ready for use after installation, backwash and rinse. Resin shall be U.S. manufactured.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 9500, plastic control valve shall have 1 1/2-inch NPT inlet and outlet connections. It shall have fully adjustable 5-cycle controls to accomplish the following regeneration steps:

- Upflow backwash
- Downflow brining,
- Slow rinse
- Rapid rinse,
- Timed brine tank refill.

An integral brine injector shall be provided in the valve capable of maintaining a proper brine concentration to the resin at varying operating pressures. Brine tank refill flow control and backwash flow control will be provided.

7.0 BRINE SYSTEM

The brine system will be a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 30 inches round x 48 inches high. The brine system will be of the dry salt design capable of holding approximately 880 lbs. of salt. Each brine tank to be equipped with a polyethylene brine well, salt grid and a float type brine valve.

8.0 CONTROLS

The system is controlled by a plastic, 1 1/2-inch meter based dual alternating demand control. The control shall automatically maintain one softener in service and the second softener in standby or regeneration. The control shall place the standby softener in service and then step the exhausted softener through regeneration steps when the user set capacity has been reached. Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, max., 1" only)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 9500, control valve is warranted for 5 years against defects in material and workmanship. The mineral tanks have a limited 5-year warranty and brine tank have a limited 5-year warranty. Contact factory for details.