

SFT60 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a 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 2 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 60,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model SFT60** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 12 inches in diameter and 52 inches height. The tank shall have a 2 1/2-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The 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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2750, 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 shall consist of 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 300 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2750, control valve is warranted for 2 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.

SFT60D 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 16 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 2 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 120,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model SFT60D** 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2750, 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 shall consist of 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 300 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2750, control valve is warranted for 2 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.

SFT60M WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a 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 2 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 60,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model SFT60M** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 12 inches in diameter and 52 inches height. The tank shall have a 2 1/2-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The 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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2750, 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 shall consist of 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 300 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2750, control valve is warranted for 2 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.

SFT60MD 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 16 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 2 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 120,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model SFT60MD** 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2750, 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 shall consist of 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 300 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2750, control valve is warranted for 2 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.

SFT90 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 11 gpm. The system to be capable of treating a peak flow rate of 17 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 maximum rated capacity of 90,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model SFT90** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 14 inches in diameter and 65 inches height. The tank shall have a 4-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The 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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2750, 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 shall consist of 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 240 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2750, control valve is warranted for 2 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.

SFT90D 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 22 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 2 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 180,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model SFT90D** 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2750, 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 shall consist of 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 240 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2750, control valve is warranted for 2 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.

SFT90M WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 11 gpm. The system to be capable of treating a peak flow rate of 17 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 maximum rated capacity of 90,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model SFT90M** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 14 inches in diameter and 65 inches height. The tank shall have a 4-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The 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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2750, 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 shall consist of 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 240 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2750, control valve is warranted for 2 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.

SFT90MD 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 22 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 2 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 180,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model SFT90MD** 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2750, 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 shall consist of 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 240 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2750, control valve is warranted for 2 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.

SFT120 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 14 gpm. The system to be capable of treating a peak flow rate of 21 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 maximum rated capacity of 120,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model SFT120** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 16 inches in diameter and 65 inches height. The tank shall have a 4-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The 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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2750, 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 shall consist of 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 765 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2750, control valve is warranted for 2 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.

SFT120D 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 28 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 3 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 240,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model SFT120D** 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2750, 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 shall consist of 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 765 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2750, control valve is warranted for 2 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.

SFT120M WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 14 gpm. The system to be capable of treating a peak flow rate of 21 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 maximum rated capacity of 120,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model SFT120M** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 16 inches in diameter and 65 inches height. The tank shall have a 4-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The 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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2750, 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 shall consist of 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 765 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2750, control valve is warranted for 2 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.

SFT120MD 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 28 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 3 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 240,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model SFT120MD** 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2750, 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 shall consist of 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 765 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2750, control valve is warranted for 2 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.

MFT120 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 15 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 3 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 120,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model MFT120** 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2850, brass 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 shall consist of 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 765 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2850, control valve is warranted for 2 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.

MFT120D 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 29 gpm. The system to be capable of treating a peak flow rate of 43 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 maximum rated capacity of 240,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model MFT120D** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 16 inches in diameter and 65 inches height. The tank shall have a 4-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The 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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2850, brass 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 shall consist of 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 765 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2850, control valve is warranted for 2 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.

MFT120M WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 15 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 3 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 120,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model MFT120M** 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2850, brass 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 shall consist of 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 765 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2850, control valve is warranted for 2 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.

MFT120MD 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 29 gpm. The system to be capable of treating a peak flow rate of 43 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 maximum rated capacity of 240,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model MFT120MD** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 16 inches in diameter and 65 inches height. The tank shall have a 4-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The 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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2850, brass 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 shall consist of 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 765 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2850, control valve is warranted for 2 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.

MFT150 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 18 gpm. The system to be capable of treating a peak flow rate of 36 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 maximum rated capacity of 150,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model MFT150** 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2850, brass 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 shall consist of 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 650 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2850, control valve is warranted for 2 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.

MFT150D 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 72 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 maximum rated capacity of 300,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model MFT150D** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 18 inches in diameter and 65 inches height. The tank shall have a 4-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The 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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2850, brass 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 shall consist of 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 650 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2850, control valve is warranted for 2 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.

MFT150M WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 18 gpm. The system to be capable of treating a peak flow rate of 36 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 maximum rated capacity of 150,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model MFT150M** 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2850, brass 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 shall consist of 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 650 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2850, control valve is warranted for 2 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.

MFT150MD 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 72 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 maximum rated capacity of 300,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model MFT150MD** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 18 inches in diameter and 65 inches height. The tank shall have a 4-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The 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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2850, brass 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 shall consist of 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 650 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2850, control valve is warranted for 2 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.

MFT210 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 24 gpm. The system to be capable of treating a peak flow rate of 46 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 5 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 210,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model MFT210** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 21 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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 7-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2850, brass 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 shall consist of 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 586 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2850, control valve is warranted for 2 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.

MFT210D 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 48 gpm. The system to be capable of treating a peak flow rate of 96 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 5 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 420,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model MFT210D** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 21 inches in diameter and 65 inches height. The tank shall have a 4-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The vessel will contain 7-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2850, brass 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 shall consist of 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 586 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2850, control valve is warranted for 2 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.

MFT210M WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 24 gpm. The system to be capable of treating a peak flow rate of 46 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 5 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 210,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model MFT210M** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 21 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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 7-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2850, brass 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 shall consist of 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 586 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2850, control valve is warranted for 2 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.

MFT210MD 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 48 gpm. The system to be capable of treating a peak flow rate of 96 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 5 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 420,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model MFT210MD** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 21 inches in diameter and 65 inches height. The tank shall have a 4-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The vessel will contain 7-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2850, brass 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 shall consist of 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 586 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2850, control valve is warranted for 2 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.

MFT300 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 31 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 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 300,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model MFT300** 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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 10-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2850, brass 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 shall consist of 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 800 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2850, control valve is warranted for 2 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.

MFT300D 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 62 gpm. The system to be capable of treating a peak flow rate of 100 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 6 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 600,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model MFT300D** 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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 10-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2850, brass 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 shall consist of 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 800 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2850, control valve is warranted for 2 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.

MFT300M WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 31 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 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 300,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model MFT300M** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 24 inches in diameter and 72 inches height. The tank shall have a 4-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The vessel will contain 10-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2850, brass 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 shall consist of 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 800 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2850, control valve is warranted for 2 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.

MFT300MD 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 62 gpm. The system to be capable of treating a peak flow rate of 100 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 6 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 600,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model MFT300MD** 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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 10-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2850, brass 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 shall consist of 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 800 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2850, control valve is warranted for 2 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.

LFT300 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 31 gpm. The system to be capable of treating a peak flow rate of 63 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 6 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 300,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model LFT300** 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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 10-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2900, brass control valve shall have 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 shall consist of 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 800 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2900, control valve is warranted for 2 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.

LFT300D 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 62 gpm. The system to be capable of treating a peak flow rate of 126 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 6 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 600,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model LFT300D** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 24 inches in diameter and 72 inches height. The tank shall have a 4-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The vessel will contain 10-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2900, brass control valve shall have 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 shall consist of 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 800 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2900, control valve is warranted for 2 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.

LFT300M WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 31 gpm. The system to be capable of treating a peak flow rate of 63 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 6 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 300,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model LFT300M** 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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 10-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2900, brass control valve shall have 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 shall consist of 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 800 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2900, control valve is warranted for 2 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.

LFT300MD 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 62 gpm. The system to be capable of treating a peak flow rate of 126 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 6 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 600,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model LFT300MD** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 24 inches in diameter and 72 inches height. The tank shall have a 4-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The vessel will contain 10-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2900, brass control valve shall have 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 shall consist of 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 800 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, salt grid and safety float valve.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2900, control valve is warranted for 2 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.

LFT450 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 49 gpm. The system to be capable of treating a peak flow rate of 98 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 10 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 450,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model LFT450** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 30 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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 15-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2900, brass control valve shall have 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 shall consist of a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 39 inches round x 48 inches high. The brine system will be of the dry salt design capable of holding approximately 1,450 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, and commercial air check.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2900, control valve is warranted for 2 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.

LFT450D 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 98 gpm. The system to be capable of treating a peak flow rate of 196 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 10 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 900,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model LFT450D** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 30 inches in diameter and 72 inches height. The tank shall have a 4-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The vessel will contain 15-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2900, brass control valve shall have 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 shall consist of a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 39 inches round x 48 inches high. The brine system will be of the dry salt design capable of holding approximately 1,450 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, and commercial air check.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2900, control valve is warranted for 2 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.

LFT450M WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 49 gpm. The system to be capable of treating a peak flow rate of 98 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 10 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 450,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model LFT450M** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 30 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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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 15-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2900, brass control valve shall have 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 shall consist of a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 39 inches round x 48 inches high. The brine system will be of the dry salt design capable of holding approximately 1,450 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, and commercial air check.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2900, control valve is warranted for 2 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.

LFT450MD 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 98 gpm. The system to be capable of treating a peak flow rate of 196 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 10 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 900,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model LFT450MD** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 30 inches in diameter and 72 inches height. The tank shall have a 4-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The vessel will contain 15-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2900, brass control valve shall have 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 shall consist of a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 39 inches round x 48 inches high. The brine system will be of the dry salt design capable of holding approximately 1,450 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, and commercial air check.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2900, control valve is warranted for 2 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.

LFT600 WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 70 gpm. The system to be capable of treating a peak flow rate of 120 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 14 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 600,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model LFT600** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 36 inches in diameter and 72 inches height. Each tank shall have a 6-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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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 20-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2900, brass control valve shall have 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 shall consist of a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 39 inches round x 48 inches high. The brine system will be of the dry salt design capable of holding approximately 1,200 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, and commercial air check.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2900, control valve is warranted for 2 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.

LFT600D 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 140 gpm. The system to be capable of treating a peak flow rate of 240 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 14 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 1,200,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model LFT600D** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide one mineral tank. Each tank shall be 36 inches in diameter and 72 inches height. The tank shall have a 6-inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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

The vessel will contain 40-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2900, brass control valve shall have 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 shall consist of a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 39 inches round x 48 inches high. The brine system will be of the dry salt design capable of holding approximately 1,200 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, and commercial air check.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2900, control valve is warranted for 2 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.

LFT600M WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of 70 gpm. The system to be capable of treating a peak flow rate of 120 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 14 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 600,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model LFT600M** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 36 inches in diameter and 72 inches height. Each tank shall have a 6-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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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 20-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2900, brass control valve shall have 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 shall consist of a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 39 inches round x 48 inches high. The brine system will be of the dry salt design capable of holding approximately 1,200 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, and commercial air check.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2900, control valve is warranted for 2 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.

LFT600MD 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 140 gpm. The system to be capable of treating a peak flow rate of 240 gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of 14 gpm.
- 1.2 The water softening system shall have a maximum rated capacity of 1,200,000 grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model LFT600MD** or approved equal.

3.0 SOFTENER TANKS

- 3.1 Provide two mineral tanks. Each tank shall be 36 inches in diameter and 72 inches height. Each tank shall have a 6-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 Each softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior shell. A molded polypropylene structural base shall support the tanks.

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 40-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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® 2900, brass control valve shall have 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 shall consist of a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be 39 inches round x 48 inches high. The brine system will be of the dry salt design capable of holding approximately 1,200 lbs. of salt. The brine tank to be equipped with a polyethylene brine well, and commercial air check.

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a Pentair® Fleck® 3200 NT meter-based programmable demand control. When the specified meter reading has been reached, the control shall initiate regeneration of the exhausted softener. The control shall maintain one softener in service and the second softener in regeneration.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

The Pentair® Fleck® 2900, control valve is warranted for 2 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.

WATER SOFTENER SPECIFICATIONS

1.0 SCOPE

- 1.1 Furnish one sodium softening system to provide a supply of soft water at a rate of gpm. The system to be capable of treating a peak flow rate of gpm at a maximum pressure drop of 15 psi. The system to be capable of treating a minimum flow of gpm.
- 1.2 The water softening system shall have a maximum rated capacity of grains between regenerations using 15 lbs NaCl/cuft of resin.
- 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 FT Series Model** or approved equal.

3.0 SOFTENER TANK

- 3.1 Provide mineral tank. Each tank shall be inches in diameter and inches height. Each tank shall have a -inch top opening. Each tank shall be designed for a maximum working pressure of 150 psi and hydrostatically tested at 50% in excess of working pressure.
- 3.2 The softener tank shall be constructed of corrosion resistant polyethylene inner shell with a fiberglass wound reinforced exterior 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 .

5.0 ION EXCHANGE RESINS

The vessel will contain -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.

6.0 MAIN CONTROL VALVES

The Pentair® Fleck® , control valve shall have -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 shall consist of a single brine measuring/salt storage tank constructed of rotationally molded polyethylene and include a cover. The dimensions of the brine tank will be inches x inches high. The brine system will be of the dry salt design capable of holding approximately lbs. of salt. The brine tank to be equipped with a polyethylene brine well, and .

8.0 CONTROLS

Regeneration shall be initiated automatically. Regeneration steps and return to service shall be accomplished automatically. The system is controlled by a mechanical 12-day time clock. When the specified time has been reached, the control shall initiate regeneration of the exhausted softener.

9.0 OPTIONAL ACCESSORIES

- Bypass Valve
- Electronic Timer (ET)
- Hot water (150 F, maximum)
- Auxiliary switches

10.0 WARRANTY

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