

Handout
4A

GENERAL HEATING and MECHANICAL Co.



- COMMERCIAL/INDUSTRIAL HEATING EQUIPMENT
- PROCESS PIPING
- CERTIFIED WELDING
- BOILER REPAIR
- BOILER WATER TREATMENT
- HVAC
- PLUMBING
- ELECTRICAL

1922 WEST SUPERIOR STREET DULUTH MINNESOTA 55806

TELEPHONE (218) 727-1888 FAX (218) 727-6540

www.general-heating.com

August 31, 2016

Aitkin Co. Courthouse
Attn. Tom Bingham

RE: Health and Human Services building boiler replacement.

We are offering three options on the boiler replacement project.

Option one:

Replace your existing boiler with high efficiency condensing boilers. This would include:

- Two Lochinvar FTXL 500 boilers
- Two energy efficient variable speed boiler pumps. (Not the same as the main system pumps)
- PVC sealed combustion venting through existing chimney
- All necessary hydronic piping
- All necessary gas piping
- All necessary electrical, including reconnecting existing building energy management into the new system
- Demolition and proper disposal of the exiting boiler and old steam converter system.

Your cost: \$57,995.00

Option two:

Replace your existing boiler with standard efficiency boilers. This would include:

- Two Crown FW-4 boilers
- Two boiler pumps. (Not the same as the main system pumps)
- Venting through existing chimney
- All necessary hydronic piping
- All necessary gas piping

- All necessary electrical, including reconnecting existing building energy management into the new system
- Demolition and proper disposal of the exiting boiler and old steam converter system.

Your cost: \$41,995.00

Option 3:

Replace your existing main system pumps with high efficiency variable speed pumps. This would include:

- Two Wilo Statos self-regulating high efficiency pumps
- All necessary electrical
- All necessary piping modifications

This option pricing is based on it being done at the same time as option one or two.

Your cost: \$8,595.00

Sincerely,



Dale Brodin

HIGH EFFICIENCY BOILERS

FTXL™

FIRE TUBE BOILER

SMART SYSTEM™

CON-X-US® REMOTE CONNECT CAPABLE

CASCADING SEQUENCER

LOCH-N-LINK® USB DRIVE SETUP

5 INPUTS FROM 399,999 TO 850,000 BTU/HR

UP TO 10:1 TURNDOWN RATIO

COMMON VENT AND PVC DIRECT-VENTING

FLOW RATES FROM 10 TO 150 GPM

SMALL 6.2 SQ. FT. FOOTPRINT

4 PUMP CONTROL

WIRELESS OUTDOOR SENSOR CAPABLE



98% **AHRI CERTIFIED**
THERMAL EFFICIENCY*

*See back page for efficiency by model.



Lochinvar
HIGH EFFICIENCY BOILERS & WATER HEATERS

DESIGNED ★ ENGINEERED ★ ASSEMBLED

USA

Lochinvar.com



THE NEW 98% STANDARD

Lochinvar re-defined the fire-tube boiler category with its KNIGHT® Wall-Mount and CREST® lines. For residential and light commercial applications, the FTXL™ adds models from 399,999 to 850,000 Btu/hr, and takes Lochinvar's fire-tube technology to the next level. FTXL offers best-in-class AHRI Thermal Efficiency and footprints, plus remote connectivity that puts the SMART SYSTEM™ control at your fingertips, anywhere!

REDUCE INSTALLATION COST WITH VARIABLE FLOW TECHNOLOGY

FTXL can operate over a wide range of flow rates* with very low pressure drop. This permits installation of a "full flow" (variable primary) system eliminating the time and materials cost of primary/secondary piping, and pumps needed to maintain flow in a water-tube boiler. Variable flow also makes FTXL more flexible at handling frequent fluctuations in the system flow rate.

*See back page for minimum and maximum flow rates by model.

SMOOTH-RUNNING, MODULATING COMBUSTION

FTXL boilers have a top-mounted, micrometal fiber burner, with a blower/gas valve assembly that drives heat energy downward, through stainless steel fire tubes, with exhaust venting through the bottom of the unit. With up to 10:1 modulation turndown, the burner automatically changes its firing rate as building heat loads vary. An FTX500 fires at its maximum 500,000 Btu/hr rate when heat load is highest, then gradually "turns down" to as low as 10% (50,000 Btu/hr) as load decreases. A modulating system runs smoothly and efficiently, without frequent on/off cycling.

MINIMUM SUPPLY PRESSURE, INSTALLER-FRIENDLY

FTXL operates with supply gas pressure as low as 4 inches water column. *Negative Regulation* draws gas into a pre-mix combustion system, instead of relying on utility pressure through the gas valve. The result is steady operation in low gas pressure systems or when peak demand occurs on gas supply. Automatic fan speed control fine-tunes the correct fuel/air ratio entering the burner, providing superior combustion throughout the entire operating range.

MICROMETAL FIBER BURNER
DELIVERS HEAT TO THE
COMBUSTION CHAMBER

BAFFLES DIRECT THE
FLOW OF WATER FOR
OPTIMAL HEAT TRANSFER

WATER ENTERS THE BOTTOM
AND TRAVERSES UP AND
AROUND FIRE TUBES

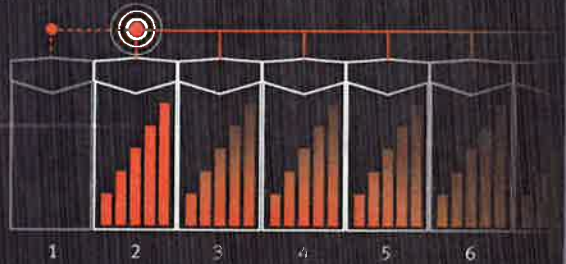
DOWNWARD FLOW OF FLUE
GASES TRANSFER HEAT
WITHIN FIRE TUBES



PEACE OF MIND, WHEN IT MATTERS MOST

Up to eight FTXL boilers can be sequenced using a 2-wire daisy-chain connection. Cascade sequencing can be programmed for "Lead-Lag" or "Efficiency Optimized" operation.

With Lead-Lag operation, one lead boiler modulates to capacity on demand. As load increases, the system then cascades to additional lag boilers in sequence. The first-on role shifts daily, distributing equal runtimes to each unit.



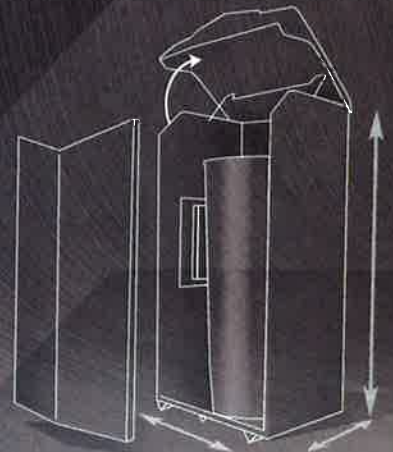
In an Efficiency Optimized system, all boilers fire and modulate simultaneously at the same BTU/hr input rates, maximizing thermal efficiency.

If the lead boiler is turned off for maintenance, Cascade Redundancy automatically shifts the lead role to the second sequenced boiler. Peace of mind comes from knowing the system will still function with no downtime until the original lead boiler is back online.

THE SMALLEST FOOTPRINT, EASY TO INSTALL & SERVICE

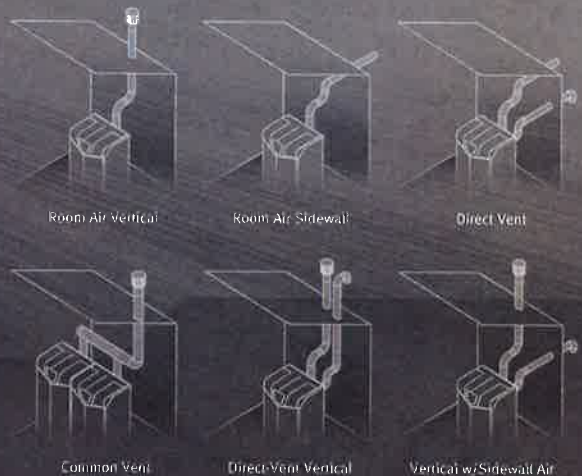
FTXL can be installed with zero clearance on the left and right, and the boiler's installed footprint is just 6.2 sq. ft.

All water, gas and vent connections are in the back of the unit. A hinged top opens for easy access to components and the front panel is easily removed using no tools.



FLEXIBLE VENTING OPTIONS

FTXL offers 6 venting options, and permits direct-vent air intake and exhaust runs up to 100 equivalent feet, using PVC, CPVC, polypropylene or stainless steel pipe. Plus multiple units can be common-vented to reduce time and materials costs.



TO LEARN MORE, LOG ON TO WWW.FTXLBOILER.COM TODAY!



INTRODUCING BOILER PLANT CONTROL, *FROM ANYWHERE.*

FTXL features the next generation of Lochinvar's all-in-one SMART SYSTEM operating control with a re-designed multi-color LCD interface. SMART SYSTEM provides outstanding functionality, and can be integrated directly into a Building Automation System via ModBus and other communications protocols. And now, the CON-X-US mobile communication platform allows SMART SYSTEM to go where no other boiler has gone before.†



CON-X-US provides the ability to monitor and manage multiple FTXL boiler plants without ever stepping into the mechanical room. CON-X-US will send alerts via text or e-mail notifying of changes in system status, and anytime, from anywhere, a user can check system status and re-program any boiler function. Once downloaded, the free CON-X-US mobile application allows for remote access to all SMART SYSTEM functions using any Internet-capable device.



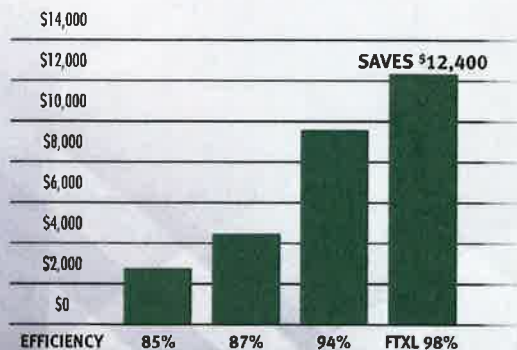
†CON-X-US control board sold separately. See back cover for a complete list of SMART SYSTEM features.

HOW 98% TRANSLATES INTO FTXL SAVINGS

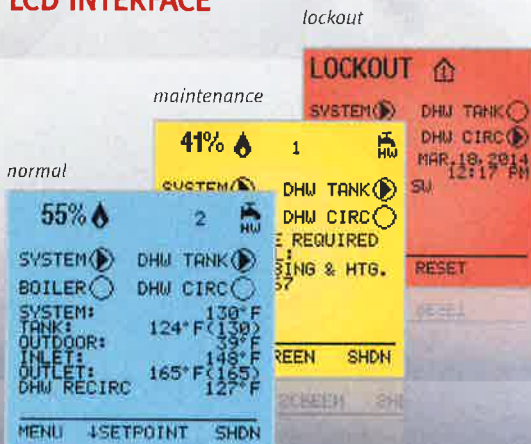
Even when compared to other condensing boilers, the FTXL fire-tube combustion system will produce significant fuel cost savings. Here are three comparisons, based on building load of approximately 19,000 therms/year, at a cost of \$1.09 per therm of natural gas.

Fuel savings is based on a heating load of 19,000 therms per year being supplied by an 82% efficient boiler at the DOE National average for natural gas of \$1.09.

3 - Year Fuel Savings



ENHANCED MULTI-COLOR LCD INTERFACE



LOCH-N-LINK® EASY USB FLASH PROGRAMMING

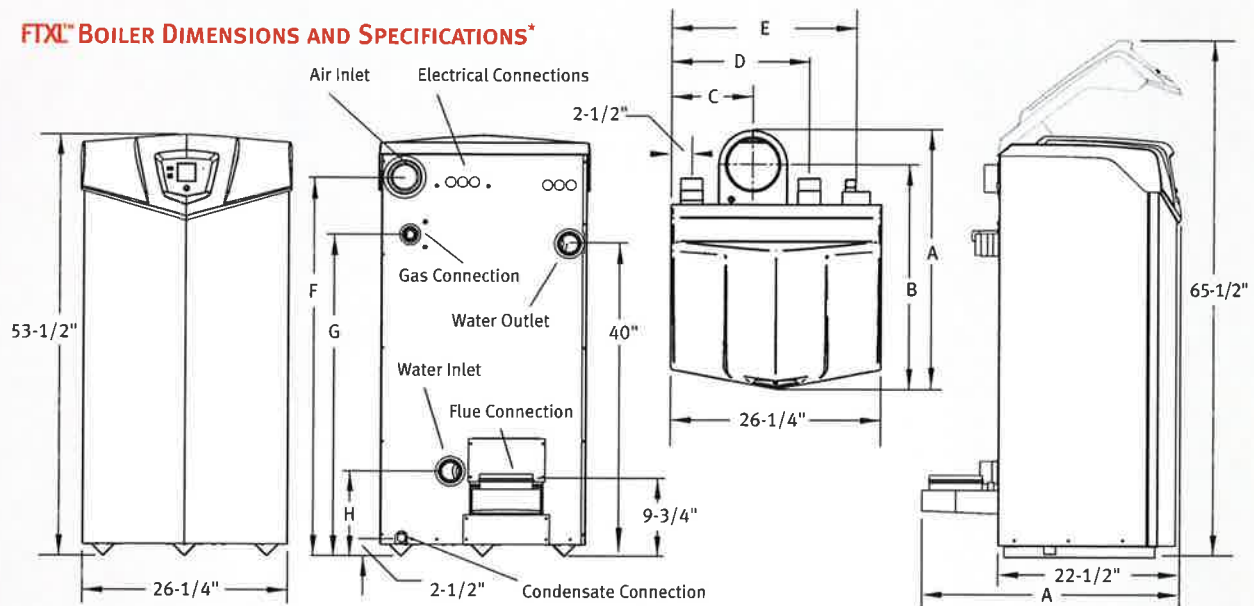
Use a USB drive to name, store and easily manage multiple existing proven parameter sets. Quickly upload them via the front panel port into the FTXL boiler, reducing installation and programming time by up to 30 minutes per boiler.

WIRELESS OUTDOOR SENSOR

Easy to install, greatly reduces time and materials cost for running sensor wire from standard outdoor temperature sensor to boiler control. Approximate range 2,000 feet line-of-sight.



FTXL™ BOILER DIMENSIONS AND SPECIFICATIONS*



Model Number	Input		Thermal Efficiency	Output MBH	NET AHRI Rating MBH	Turn down	Flow (GPM)		HEX Water Volume	Dimensions (A-H)													Shipping Wt. (lbs.)
	Min MBH	Max MBH					Min	Max		A	B	C	D	E	F	G	H	Water Conn.	Vent Size	Air Intake	Gas Conn.		
FTX400(N,L)	40.0	399.9	98.0%	392	341	10:1	10	105	13	30-1/2"	27-1/2"	10-1/4"	17"	23-1/4"	46-1/4"	39-1/2"	10-3/4"	2"	4"	4"	1"	435	
FTX500(N,L)	50.0	500.0	97.7%	489	425	10:1	15	105	12	30-1/2"	27-1/2"	10-1/4"	17"	23-1/4"	46-1/4"	39-1/2"	10-3/4"	2"	4"	4"	1"	460	
FTX600(N,L)	85.0	600.0	97.5%	585	509	7:1	15	105	12	30-1/2"	27-1/2"	10-1/4"	17"	23-1/4"	46-1/4"	39-1/2"	10-3/4"	2"	4"	4"	1"	470	
FTX725(N,L)	103.5	725.0	97.2%	705	613	7:1	20	150	17	33"	28-1/2"	10-1/2"	17-1/2"	23-1/2"	48-1/2"	41-1/4"	11"	2-1/2"	6"	4"	1"	510	
FTX850(N,L)	121.5	850.0	97.0%	825	717	7:1	25	150	16	33"	28-1/2"	10-1/2"	17-1/2"	23-1/2"	48-1/2"	41-1/4"	11"	2-1/2"	6"	4"	1"	535	

*Information subject to change without notice
Dimensions are in inches. Select "N" or "L" for Natural or LP gas

SMART SYSTEM FEATURES

- ▶ **Smart System Digital Operating Control**
Multi-Color Graphic LCD Display w/Navigation Dial
- ▶ **Loch-N-Link® USB Thumb Drive Port for Easy Programming**
- ▶ **Cascading Sequencer with Built-in Redundancy**
Selectable Cascade Type:
Lead Lag/Efficiency Optimization
Multiple Size Boilers
Front-End Loading
- ▶ **3 Reset Temperatures Inputs w/Independent Outdoor Reset Curves for Each**
Outdoor Sensor
- ▶ **Four-Pump Control**
System Pump with Parameter for Continuous Operation
Boiler Pump with Variable-Speed Control
Domestic Hot Water Boiler Pump
Domestic Hot Water Recirculation Pump Control with Sensor
- ▶ **Building Management System Integration**
0-10 VDC Input to Control Modulation or Setpoint
0-10 VDC Input from Variable-Speed System Pump
0-10 VDC Modulation Rate Output Signal
0-10 VDC Enable/Disable Signal
- ▶ **Programmable System Efficiency Optimizers**
Space Heating Night Setback
DHW Night Setback
Anti-Cycling
Ramp Delay
Boost Time and Temperature
- ▶ **High-Voltage Terminal Strip**
120 VAC/60 Hertz/1 Phase
Pump Contacts for 3 Pumps

- ▶ **Low-Voltage Terminal Strip**
Building Recirculation Pump Start/Stop
Proving Switch Contacts
Flow Switch Contacts
Alarm Contacts
Runtime Contacts
3 Space Heat Thermostat Contacts
Tank Thermostat Contacts
System Sensor Contacts
Tank Sensor Contacts
Cascade Contacts
0-10 VDC BMS Contacts
0-10 VDC Boiler Rate Output Contacts
0-10 VDC Boiler Pump Speed Contacts
0-10 VDC System Pump Speed Contacts
ModBus Contacts
- ▶ **Time Clock**
- ▶ **Data Logging**
Ignition Attempts
Last 10 Lockouts
Space Heat Run Hours
Domestic Hot Water Run Hours

STANDARD FEATURES

- ▶ **97%-98% Thermal Efficiency**
- ▶ **Modulating Burner with up to 10:1 Turndown**
Direct Spark Ignition
Low NOx Operation
Sealed Combustion
Low Gas Pressure Operation
- ▶ **Stainless Steel Fire-Tube Heat Exchanger**
ASME-Certified, "H" Stamped
160 psi Working Pressure
50 psi Relief Valve
Combustion Analyzer Test Port
Fully Welded Design

- ▶ **Vertical and Horizontal Direct Vent**
Direct Vent up to 100 feet
PVC, CPVC, Polypropylene or AL29-4C
Factory Supplied Sidewall Vent Termination
- ▶ **Smart System Control**
- ▶ **Other Features**
On/Off Switch
Adjustable High Limit with Manual Reset
Automatic Reset High Limit
Manual Reset Low Water Cutoff
Flue Temperature Sensor
Low Air Pressure Switch
Temperature and Pressure Gauge
Condensate Trap
Zero Service Clearances
10-Year Limited Warranty (See Warranty)
Custom Maintenance Reminder with Contact Info
Password Security
Customizable Freeze Protection Parameters

OPTIONAL EQUIPMENT

- CON-X-US Remote Connectivity
Motorized Isolation Valve
Wireless Outdoor Temperature Sensor
Multi-Temperature Loop Control
Variable-Speed Boiler Circulator
Constant-Speed Boiler Circulator
ModBus Communication
Alarm Bell
Condensate Neutralization Kit
Concentric Vent Kit (FTX400-FTX600)
BMS Gateway to BACnet or LonWorks
High and Low Gas Pressure Switches w/Manual Reset (FTX500-FTX850)
- ▶ **Firing Controls**
M9-Standard Construction
M13-CSD-1/FM/GE Gap (FTX500-FTX850)



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300 Maddox Simpson Parkway
Lebanon, Tennessee 37090
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Lochinvar.com



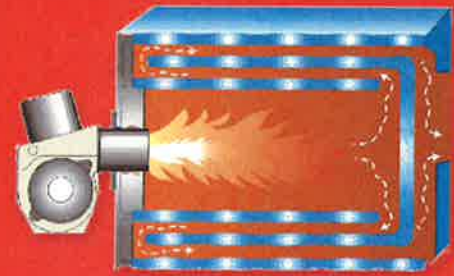


FW SERIES

Cast Iron 3-Pass Scotch Marine Boiler designed for use with light oil, gas, or a light oil-gas combination.



The FW boiler uses a 3-pass heat exchanger, designed to maximize heat transfer from flue gases to the boiler water, and to minimize the amount of cast iron and water that must be heated. This is achieved by circulating the hot flue gases through the heat exchanger three times, resulting in a more efficient boiler.



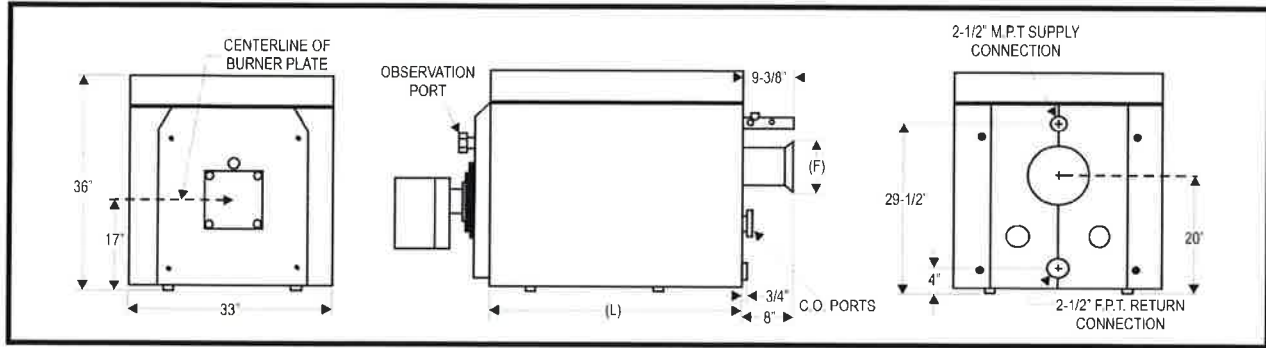
- AHRI burner input 433 to 1,299 MBH
- 3-Pass scotch marine design
- Cast iron push nipples and boiler sections
- Woven glass ropes between sections
- Swing open burner door
- Pressurized for forced draft venting or chimney draft
- Stainless steel baffles easily removed via front door
- Rear flue outlet with quadrant locking damper
- Exclusively designed for forced hot air circulation
- Powder coated, textured, insulated jacket
- 10-year limited warranty

See back side for piping configurations

Quality
Value &
Service

FW SERIES

TECHNICAL SPECIFICATIONS



MODEL	BURNER INPUT		GROSS OUTPUT		AHRI NET WATER RATING (MBH)	WATER CONTENT (GAL)	DRAFT LOSS (IN. W.C.)	DIMENSIONS (IN.)			DRY WEIGHT (LBS)
	OIL (GPH)	GAS (MBH)	MBH	BHP				[F] VENT DIA.	AHRI VENT DIA.*	[L]	
FW-4	3.0	433	355	10.6	309	15.8	0.16	8	7	26	1126
FW-5	4.0	577	478	14.2	416	19	0.27	8	7	37	1313
FW-6	5.0	722	600	17.9	522	22.2	0.39	10	8	42	1524
FW-7	6.0	866	723	21.6	629	25.4	0.51	10	9	47	1743
FW-8	7.5	1082	907	27.1	789	28.5	0.62	10	10	52	1947
FW-9	9.0	1299	1091	32.6	949	31.7	0.75	10	10	57	2143

*AHRI Vent Diameter size is the pipe size used from boiler vent connector [F] to termination of stub stack; max. height 15' (for forced draft firing only). For chimney venting consult National Fuel Gas Code.

1. Altitudes above 2,000 ft. - ratings should be reduced at a rate of 4% for each 1,000 ft. above sea level (US only).

2. The AHRI Net Water Ratings are based on a piping and pickup allowance of 1.15.

3. The manufacturer should be consulted before selecting a boiler for installations having unusual piping and pickup requirements, such as intermittent system operation, extensive piping systems, etc.

MODEL	BURNER MOTOR			BURNER MODEL LIGHT OIL	BURNER MODEL GAS	BURNER MODEL GAS/OIL COMB.	GAS TRAIN SIZE	MIN. GAS PRESS REQ. @ BURNER (IN. W.C.)
	MFG.	HP	VOLTAGE					
FW-4	BECKETT	1/3	120-1	CF-500	CG-10	----	----	----
	POWER FLAME	1/3	120-1	C1-0	C1-G-10	C1-GO-10	1-1/4	5.5
FW-5	BECKETT	1/3	120-1	CF-800	CG-10B	----	----	----
	POWER FLAME	1/3	120-1	C1-0	C1-G-10	C1-GO-10	1-1/4	5.5
FW-6	BECKETT	1/3	120-1	CF-800	CG-10B	----	----	----
	POWER FLAME	1/3	120-1	C1-0	C1-G-10	C1-GO-10	1-1/4	5.5
FW-7	BECKETT	1/2	120-1	CF-1400	----	----	----	----
	POWER FLAME	1/3	120-1	C1-0	C1-G-10	C1-GO-10	1-1/4	5.5
FW-8	BECKETT	1/2	120-1	CF-1400	----	----	----	----
	POWER FLAME	3/4	230-1	C2-OA	C2-G-15	C2-GO-15	1-1/2	7.0
FW-9	BECKETT	1/2	120-1	CF-2300	----	----	----	----
	POWER FLAME	3/4	230-1	C2-OA	C2-G-15	C2-GO-15	1-1/2	7.0

All cast iron boiler models include a full one-year warranty. A 10-year limited warranty is provided for the heat exchanger. A 5-year and a 10-year extended warranty covering parts and labor are also available. Visit VelocityBoilerWorks.com or see your warranty for complete details.



The Mega-Stor® indirect water heater utilizes the energy created by your boiler to produce abundant hot water for your home. Mega-Stor water heaters come in a variety of sizes from 26 to 119 gallons to meet a multitude of residential and commercial needs.

Specifications are subject to change without notice.



CRN:7361.78YT



VelocityBoilerWorks.com | Philadelphia PA

FW - 08/15
PN 980520 - R3

Pioneering for You

wilo®

Energy savings solutions for HVAC applications - North America.

High Efficiency Pumps & Circulators

Stratos ECO, Stratos/D/Z/GIGA, Helix Excel



Wilo

Pioneering for You.



We are there for you worldwide.

Since 1872, we at Wilo have been turning visionary ideas into intelligent solutions that regularly set new standards in the industry. Louis Opländer, the founder of Wilo, used his copper and brass goods factory to improve and facilitate the supply of water and bring heat to people. In 1928, he designed the world's first circulation accelerator and revolutionized the field of heating technology. Ever since then, our company continues to pioneer innovations such as the world's first high-efficiency pump for heating, air-conditioning and cooling and the world's first decentralized pump system. Today Wilo SE, headquartered in Germany, is one of the world's leading manufacturers of pumps and pump systems for heating, air-conditioning and cooling, water supply and sewage disposal. With over 7,000 employees and 70 subsidiaries worldwide, we personally see to it that our customers wants and needs are optimally met every day – with pioneering developments, high-efficiency products, and tailored solutions.



We are there for you locally.

Wilo is synonymous throughout the world with the tradition of first-class German engineering. Just over a decade ago, Wilo entered into America. With a manufacturing facility in Thomasville, Georgia and headquarter offices in Rosemont, Illinois, Wilo USA continues to drive new technology and innovation into the United States pump & systems market.

That's what we call Pioneering for You.

Wilo High Efficiency Pumps

The world's first high efficiency circulator!

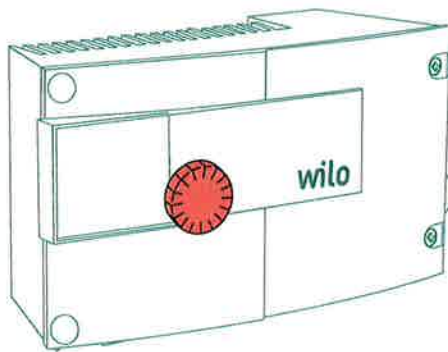
Twice the efficiency thanks to ECM Technology.

Energy is a valuable commodity. This is why Wilo created the world's first high-efficiency circulator in 2001. With the help of ECM technology, this efficient, functional and flexible pump for heating, cooling, and air conditioning reduces annual power consumption by up to 80%. Standing for Electronically Commutated Motor, ECM essentially comprises a synchronous motor with a permanent magnet rotor. The unique rotor-stator construction helps eliminate electrical losses.



Simple to operate.

The proven "red button" makes Wilo ECM pumps very simple and comfortable to operate. Whether you need to set your head, flow, or choose a control mode, all essential functions can be controlled by this one button.

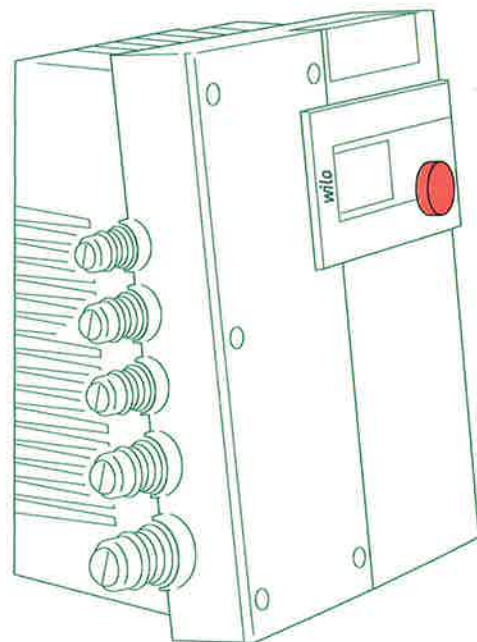


Simple display.

The front-mounted LCD display shows important operational data for technicians to read whenever necessary. The Wilo IR-monitor can be used to operate by remote control and read its data from up to 30 feet away.

Simple to wire.

Wilo offers the right functionality for every application. In addition to issuing standard collective error messages, Wilo high efficiency pumps can be optionally connected to local operating networks (LON), IF (interface) modules with integrated dual-pump management, and 0-10V DC capabilities. With these additions, Wilo fulfills all requirements for professional building management.



Wilo Stratos ECO

High Efficiency Circulators

Applications:

- Hot Water Heating Systems
- HVAC Applications
- Residential Heating
- Water/Glycol up to 50%
- Solar / Geothermal



Up to 80% Energy Savings!*

Features & Benefits

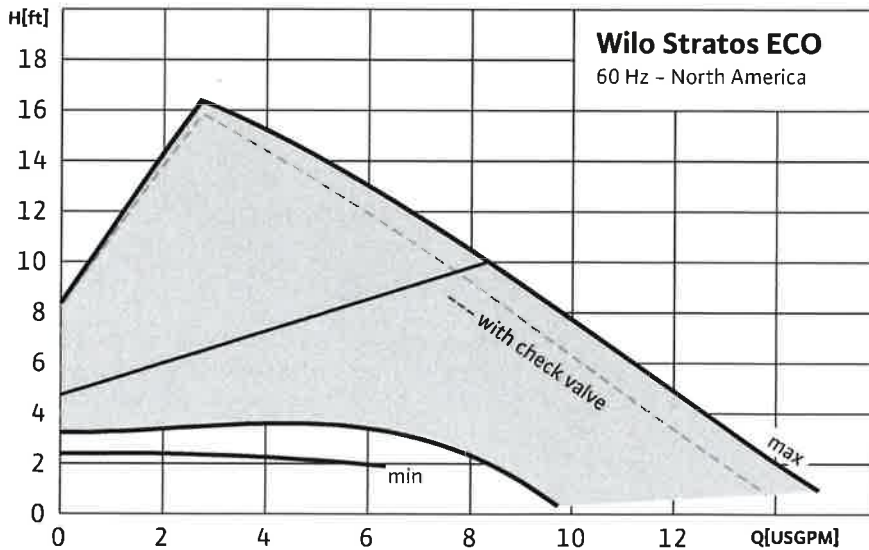
- Patented 360° Flange rotates to 12/6 or 3/9 o'clock positions (US 8,297,664 B2)
- Installable hi-temp check valve included
- EC motor technology reduces energy consumption by up to 80%
- Automatically adjusts to system demands
- No more over-pumped, noisy zones
- Easy wiring quick connectors

Technical Data

- Temp Range: 60°F to 230°F (15°C to 115 °C)
- Amb Temp Range: 14°F to 104°F (-10°C to 40 °C)
- Electrical Connection: 1~115v
- Max Working Pressure: 145 PSI
- Max flows: 14 USGPM
- Max Head: 16 feet

Materials of Construction

- Cast Iron Volute
- Cast Iron Rotating Flange
- Engineered Composite Impeller
- Stainless Steel Shaft
- Carbon Impregnated Bearing



*Compared to an uncontrolled circulator.

Wilo Stratos

High Efficiency Circulators

Applications:

- Hot Water Heating Systems
- Closed Cooling Circuits
- Air Conditioning systems
- Water/Glycol concentrations up to 50%
- Solar / Geothermal



Up to 80% Energy Savings!*

Features & Benefits

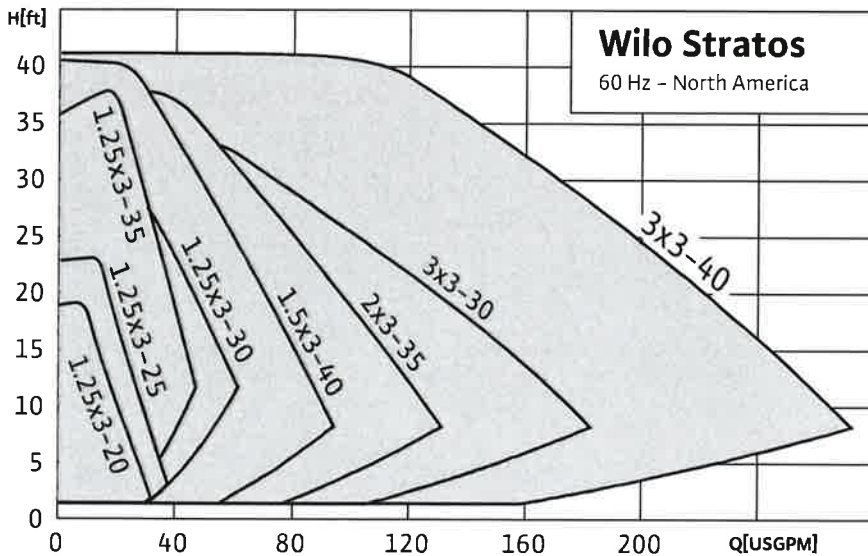
- EC motor technology reduces energy consumption by up to 80%
- 'Red Button' technology and LED display
- 3 times higher starting torque than a standard circulator
- On-board diagnostics and data logger
- Multiple control modules available for integration with building management systems

Technical Data

- ΔP -V, ΔP -C, ΔP -T speed control or external signals with IF module.
- Temp Range: 14°F to 230°F (-10°C to 110°C)
- Electrical Connection: 1~230v (+/- 10%)
- Max flows: 285 USGPM
- Max Head: 43 feet

Materials of Construction

- Cast Iron, Cataphoresis Coated Volute
- Engineered Composite Impeller
- Stainless Steel Shaft
- Carbon Impregnated Bearing



Compatible with IR Device & IF Modules



*Compared to an uncontrolled circulator.

Wilco Stratos D

High Efficiency Circulators

Applications:

- Hot Water Heating Systems
- Closed Cooling Circuits
- Air Conditioning Systems
- Solar / Geothermal



Up to 80% Energy Savings!*

Features & Benefits

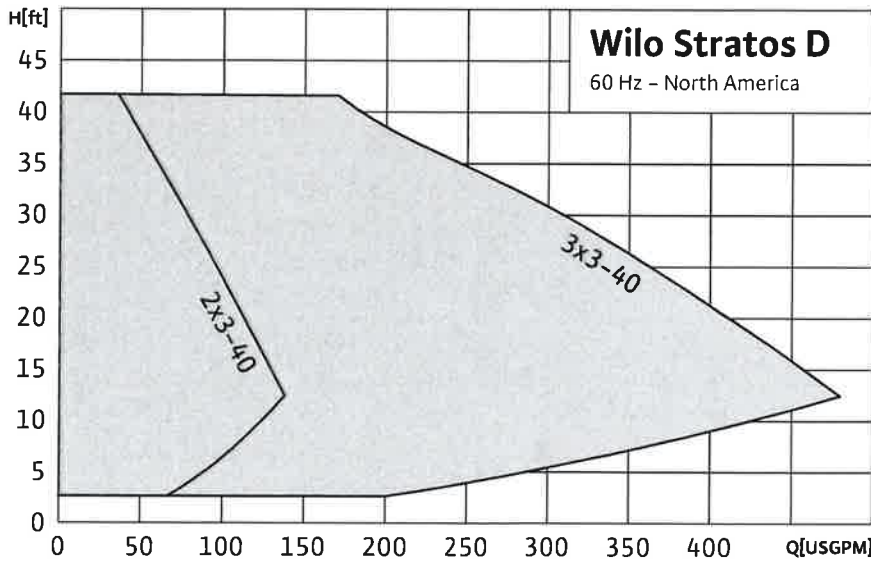
- EC motor technology reduces energy consumption by up to 80%
- 'Red Button' technology and LED display
- Lead/Lag operation with auto 24-hr alternation
- Dual-volute design cuts installation costs by up to 50%
- Optimized peak load operation

Technical Data

- ΔP -V, ΔP -C, ΔP -T speed control or external signals with IF module.
- Temp Range: 14°F to 230°F (-10°C to 110°C)
- Electrical Connection: 1~230v (+/- 10%)
- Max flows: 480 USGPM
- Max Head: 43 feet

Materials of Construction

- Cast Iron, Cataphoresis Coated Volute
- Composite Impeller
- Stainless Steel Shaft
- Carbon, Metal Impregnated Bearing



Compatible with IR Device & IF Modules



*Compared to an uncontrolled circulator.

Wilo Stratos Z

High Efficiency DHW Circulators

Applications:

- Potable Water
- Domestic Hot Water
- Closed Cooling Circuits
- HVAC Systems
- Solar / Geothermal



Up to 80% Energy Savings!*

Features & Benefits

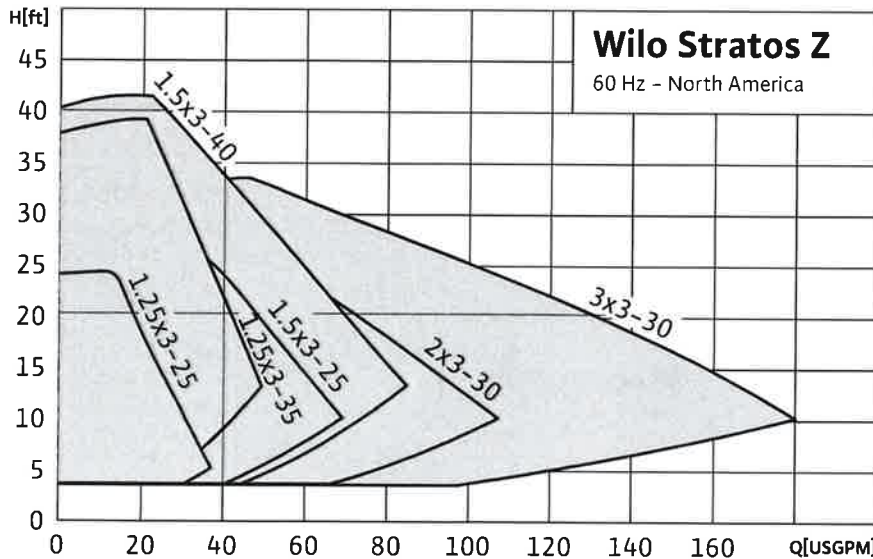
- NSF 61 / NSF 372 Certified
- EC motor technology reduces energy consumption by up to 80%
- 'Red Button' technology and LED display
- Multiple control modules available for integration with building management systems
- Built in overload fault contacts (opens on over/under voltage, dry run, locked rotor, overload and over temperature)

Technical Data

- ΔP -V, ΔP -C, ΔP -T speed control or external signals with IF module.
- Temp Range: 14°F to 230°F (-10°C to 110°C)
- Electrical Connection: 1~230v (+/- 10%)
- Max flows: 180 USGPM
- Max Head: 43 feet

Materials of Construction

- Stainless Steel Volute
- Engineered Composite Impeller
- Stainless Steel Shaft
- Carbon Impregnated Bearing



Compatible with IR Device & IF Modules



*Compared to an uncontrolled circulator.

Wilco Stratos GIGA

High Efficiency Inline Circulators

Applications:

- Hot Water Heating Systems
- Industrial Circulation
- Closed Cooling Circuits
- Air Conditioning Systems
- Solar / Geothermal



Up to 70% Energy Savings!*

Features & Benefits

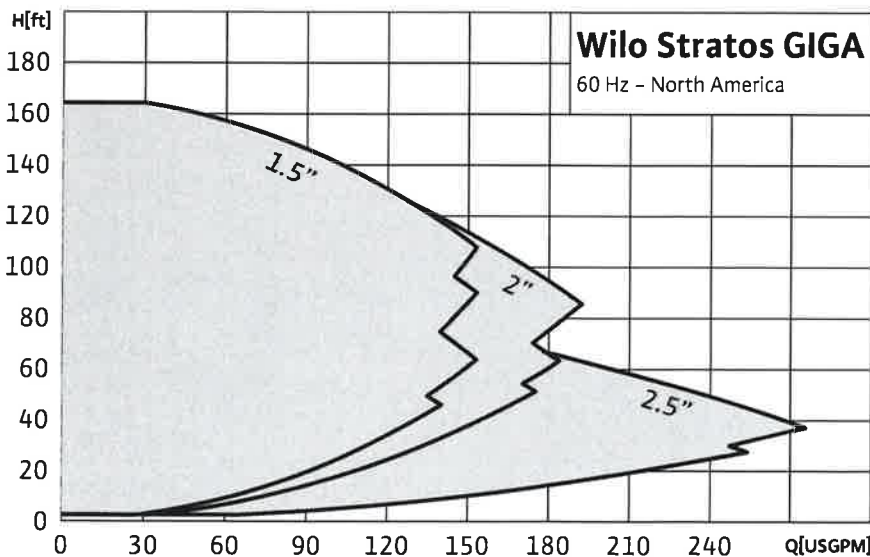
- Highest efficiency motor-drive combination on the market up to 7.5HP
- Compact, Space-saving design
- 'Red Button' technology and LED display
- Various control modes: ΔPV, ΔPC, η, PID
- Multiple control modules available for integration with building management systems

Technical Data

- Temp Range: -4°F to 284°F (-20°C to +140°C)
- Max Amb Temp: 104°F (40°C)
- Max Operating Pressure: 232 PSI
- Electrical Connection: 3~460v
- IP 55 Enclosure
- Max flows: 275 USGPM
- Max Head: 167 feet

Materials of Construction

- Cast Iron, Cataphoresis Coated Volute
- Cast Iron Lantern
- High-Temp, High-Pressure Engineered Composite Impeller
- Stainless Steel Pump Shaft



Greater than NEMA Premium Efficiencies!



Compatible with IR Device & IF Modules



*Compared to an uncontrolled circulator.

Wilo Helix Excel

High Efficiency Multistage Pumps

Applications:

- Water Supply and Pressure Boosting
- Process water
- Pressure Washing Systems
- Industrial Circulation Systems
- Cooling water
- Irrigation



Up to 70% Energy Savings!*

Features & Benefits

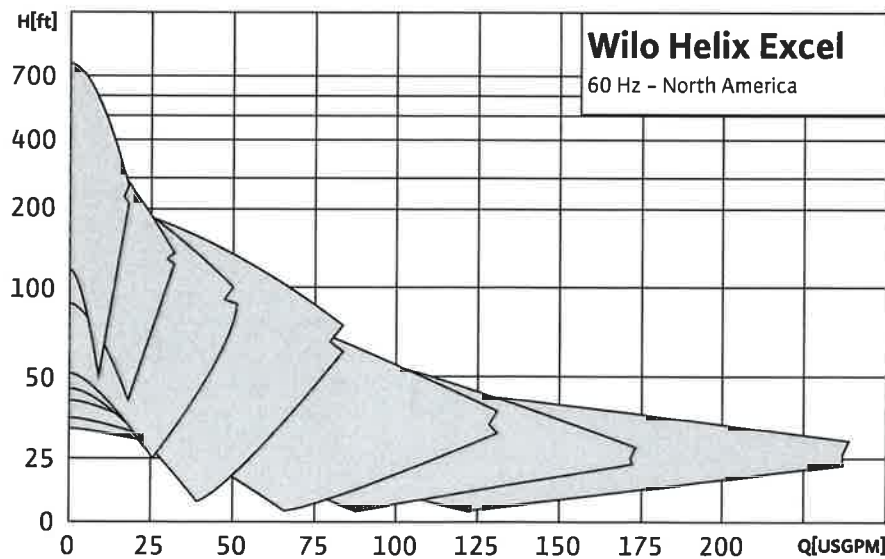
- Highest efficiency motor-drive combination on the market
- Uses cartridge seal for easy maintenance
- ‘Red Button’ technology and LED display
- Various control modes: Δ PV, Δ PC, η , PID
- Multiple control modules available for integration with building management systems

Technical Data

- Temp Range: -4°F to 248°F (-20°C to +120°C)
- Max Amb Temp: 104°F (40°C)
- Max Operating Pressure: 232/363 PSI
- Electrical Connection: 3~460v
- IP 55 Enclosure
- Max flows: 250 USGPM
- Max Head: 720 feet

Materials of Construction

- 3-D Stainless Impellers
- Stainless Steel Volute, Shroud & Shaft



Greater than NEMA Premium Efficiencies!



Compatible with IR Device & IF Modules



*Compared to an uncontrolled pump.

Wilo Accessories

IR Device & IF Modules



IR (Infrared) Device.

Infrared (IR) Device

Window's based USB device that allows you to communicate with Stratos, D/Z/GIGA & Helix Excel pumps through a laptop via USB connection.

Quick and easy pump commissioning & diagnostic reports.

IF (Inter-Face) Modules.

The Stratos IF-Modules are designed for external control and diagnostics of Wilo high efficiency pumps.



Stratos IF Modules

Function/Models	LON	Ext. Off	Ext. Min	SBM	Ext. Off / SBM	BACnet / RS485
Collective run signal output (SBM) as a voltage-free, normally open contacts				X	X	
Input for voltage-free, normally closed contacts with the function Ext. Min			X			
Input for voltage-free, normally closed contacts with the function Ext. Off		X			X	
Control input 0-10 V		X	X	X		
Remote setpoint adjustment						
Remote speed adjustment						
DP interface for dual pump management of 2 single-head pumps	X	X	X	X	X	X
LON interface for link-up to LONWORKS-networks, Transceiver FTT 10 A	X					
BACnet						X

“Wilo has a four-year warranty on Stratos products?”

“The best in the industry...”



Now you can have the best warranty in the business on Wilo Stratos, Stratos D and Stratos Z high efficiency ECM circulators!

That's right - Our standard warranty on select Stratos products is now 4 YEARS. We are so sure that the Stratos is the last circulator you'll need, that we've doubled the original two year warranty. Drop us a line and join the thousands who rest easy with Wilo!

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Wilo-Stratos



Wilo-Stratos D



Wilo-Stratos Z

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info@wilo-canada.com

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+52 55 5586 3209
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JAMES P. RATZ
AITKIN COUNTY ATTORNEY
217 SECOND STREET N.W., ROOM 231
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TELEPHONE (218) 927-7347
TOLL FREE 1-888-422-7347
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SENIOR ASSISTANT COUNTY ATTORNEY
LISA ROGGENKAMP RAKOTZ

PARALEGALS
MICHELE J. MOTHERWAY
TAMMY K. MILLER

ASSISTANT COUNTY ATTORNEYS
SARAH WINGE
STEPHANIE SHOOK
NATHAN T. BENUSA

CRIME VICTIM COORDINATOR
TELEPHONE (218) 927-7446

MEMORANDUM

TO: Aitkin County Board of Commissioners
cc: Mr. Patrick Wussow
FROM: James P. Ratz, County Attorney *JPR*
DATE: September 26, 2016
RE: Background Information for Mr. Krietzman's Request for the County Board to Sign Termination Agreements for Condominium Nos. 309 and 316 at Quadna.

In 1988, an application for a \$500,000 grant from the State of Minnesota was submitted by Aitkin County to be used for the Quadna Mountain Redevelopment Project.

As a result of the application, the State (Grantor) provided a grant of \$500,000 to Aitkin County (Grantee) for the purpose conducting the Quadna Mountain Redevelopment Project. This grant Agreement was made February 22, 1989.

In turn, Four Seasons Development Corporation (Mortgagor) entered into a Mortgage in favor of Aitkin County (Mortgagee) on May 2, 1989, with a principal sum of \$500,000. The Mortgagor agreed to repay the principal sum along with interest at the rate of 5% per annum, with a due date of May 1, 1996.

On April 19, 1996, the State through its Department of Trade and Economic Development sent the Aitkin County Auditor a letter stating that "the status of the grant is now closed."

Consequently, it is my opinion that the County Board's execution of the requested "Consent of Mortgagee to Termination" will not impact the County's legal position as to the mortgage.

Furthermore, Mr. Kreitzman made an additional request for a release of the mortgage by the County (see Mr. Kreitzman's email dated September 24, 2016). If the County is willing to consider such request, it should direct (through its County Administrator) Mr. Kreitzman to draft proposed releases for the County Board's future consideration.

If you have any questions, please feel free to call me.

Patrick Wussow

From: Fredrick R. Krietzman <FKrietzman@Felhaber.com>
Sent: Saturday, September 24, 2016 7:32 PM
To: 'Anne Marcotte'
Cc: patrick.wussow@co.aitkin.mn.us; Jim Ratz; Anne Marcotte (anne.marcotte@co.aitkin.mn.us); Karen Majzner; David Stendal
Subject: RE: FW: Quadna Mountain Townhouse Association / 316 and 309 Quadna Road, Hill City, MN
Importance: High


Thanks, Anne. I am also requesting that Aitkin County, at the meeting decide to release the Mortgage (at least against (i) all of the property within Quadna Mountain Townhouses, (i) the condominium unit within, all time-units within, and all other portions of, Condominium No. 309, Quadna Mountain Vacation Club Condominium Number 309, Aitkin County, MN, and (iii) the condominium unit within, all time-units within, and all other portions of, Condominium No. 316, Quadna Mountain Vacation Club Condominium Number 316, Aitkin County, MN. The reason for that release is that, pursuant to Minnesota Statutes Section 541.03, the time period has expired within which Aitkin County would have the right to foreclose the Mortgage (so, in essence, the Mortgage is not enforceable and actually creates a cloud on the title to the above property). Thanks so much, and please let me know if you have any follow up questions. I have discussed all of these issues in the past with Jim Ratz so Jim has the background information. I look forward to getting information on the outcome of the meeting.

Fredrick R. Krietzman

Attorney

220 South 6th Street, Suite 2200, Minneapolis, MN 55402
Direct: 612.373.8418 | Main: 612.339.6321 | Fax: 612.338.4608
FKrietzman@Felhaber.com
www.felhaber.com

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From: Anne Marcotte [mailto:annemarcotte2@gmail.com]
Sent: Thursday, September 22, 2016 12:03 PM
To: Fredrick R. Krietzman
Cc: patrick.wussow@co.aitkin.mn.us; Jim Ratz; Anne Marcotte (anne.marcotte@co.aitkin.mn.us); Karen Majzner; David Stendal
Subject: Re: FW: Quadna Mountain Townhouse Association / 316 and 309 Quadna Road, Hill City, MN

No guarantee is will make that agenda. September 27th.

On Thu, Sep 22, 2016 at 11:57 AM, Fredrick R. Krietzman <FKrietzman@felhaber.com> wrote:

OK. Thanks so much. When is that next meeting?

Fredrick R. Krietzman

Attorney




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From: Anne Marcotte [<mailto:annemarcotte2@gmail.com>]

Sent: Thursday, September 22, 2016 10:40 AM

To: Fredrick R. Krietzman

Cc: patrick.wussow@co.aitkin.mn.us; Jim Ratz; Anne Marcotte (anne.marcotte@co.aitkin.mn.us); Karen Majzner; David Stendal

Subject: Re: FW: Quadna Mountain Townhouse Association / 316 and 309 Quadna Road, Hill City, MN

An FYI for you and a directive to the County Administrator and County Attorney. Anne

On Thu, Sep 22, 2016 at 10:12 AM, Fredrick R. Krietzman <FKrietzman@felhaber.com> wrote:

Hello Anne: Was your e-mail meant for me? I don't quite understand it. Thanks.

Fredrick R. Krietzman

Attorney




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From: Anne Marcotte [<mailto:annemarcotte2@gmail.com>]

Sent: Thursday, September 22, 2016 9:19 AM

To: Fredrick R. Krietzman

Cc: patrick.wussow@co.aitkin.mn.us; Jim Ratz; Anne Marcotte (anne.marcotte@co.aitkin.mn.us); Karen Majzner; David Stendal

Subject: Re: FW: Quadna Mountain Townhouse Association / 316 and 309 Quadna Road, Hill City, MN

Please put on the consent agenda. Thanks. Anne

On Wed, Sep 21, 2016 at 5:50 PM, Fredrick R. Krietzman <FKrietzman@felhaber.com> wrote:

RE-SENT

Administrator Wussow: Our law firm represents Quadna Mountain Townhouse Association ("Association"), which is the homeowners association for the townhome community (known as a "planned community" under Minnesota Statutes Chapter 515B, otherwise called the Minnesota Common Interest Ownership Act (the "Act")) known as Quadna Mountain Townhouses located in Hill City, MN. I understand that Nathan Burkett may no longer be the County Administrator for Aitkin County, so I am sending you this e-mail (in your capacity as the Interim County Administrator) and the attachments. Please see my 8/7/2016 e-mail below for background on the purpose of this e-mail. Please respond to me at your very earliest convenience, as this matter has been in the balance for quite some time. I appreciate your time on this matter. I look forward to hearing from you.

Fredrick R. Krietzman

Attorney




220 South 6th Street, Suite 2200, Minneapolis, MN 55402

Direct: [612.373.8418](tel:612.373.8418) | Main: [612.339.6321](tel:612.339.6321) | Fax: [612.338.4608](tel:612.338.4608)

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From: Fredrick R. Krietzman

Sent: Sunday, August 07, 2016 10:45 PM

To: 'Jim Ratz'

Cc: Nathan Burkett; Anne Marcotte

Subject: RE: Quadna Mountain Townhouse Association / 316 and 309 Quadna Road, Hill City, MN

Importance: High

Thank you, Jim.

Administrator Burkett and Commissioner Marcotte: Our law firm represents Quadna Mountain Townhouse Association ("Association"), which is the homeowners association for the townhome community (known as a "planned community" under Minnesota Statutes Chapter 515B, otherwise called the Minnesota Common Interest Ownership Act (the "Act")) known as Quadna Mountain Townhouses located in Hill City, MN. This e-mail follows certain phone calls and e-mail exchanges between me and Mr. Ratz over the past number of months, relating to two properties within the Quadna Mountain Townhouses community, 309 Quadna Road and 316 Quadna Road. As a matter of background, those two properties were, several years ago, each converted (by the then owner of each unit) from traditional townhome units to condominiums. The condominiums are designated as follows: Condominium No. 309, Quadna Mountain Vacation Club Condominium Number 309, Aitkin County, MN ("Condominium Number 309"), and Condominium No. 316, Quadna Mountain Vacation Club Condominium Number 316, Aitkin County, MN ("Condominium Number 316"). As a condominium, each was split into 52 weekly ownership interests, with the intent that each be operated as a "time share" type unit. After several months of unpaid dues (technically called annual assessment installments) and other amounts owed to the Association by the owners of those two properties, the Association (at separate times) foreclosed the lien that it held against each of those two properties for the unpaid amounts, related late fees, legal fees, and other unpaid charges. The foreclosures were undertaken pursuant to the Act and Minnesota Statutes Chapter 580 (the foreclosures were authorized by the Amended and Restated Declaration of Quadna Mountain Townhouses and Section 515B.3-116 of the Act).

Since there was no redemption from either lien foreclosure against Condominium 309 and against Condominium 316, the Association became the owner of all property interests in and to Condominium No. 309 and Condominium Number 316. As I have discussed with Mr. Ratz, the Association is in the process of terminating Condominium Number 309 and Condominium Number 316 pursuant to the procedures and requirements of Section 515B.2-119 of the Act (found at: <https://www.revisor.mn.gov/statutes/?id=515B.2-119>). Attached for your review are drafts of the two relevant Termination Agreements for each of those terminations. The goal of the terminations is to terminate the condominium structure of Condominium No. 309 and Condominium No. 316, dissolve the owners association that was created years ago to operate and administer Condominium No. 309 and Condominium No. 316, and to have 309 and 316 Quadna Road be resold, occupied, and operated as traditional townhome units within the Quadna Mountain Townhouses community.

It is the pending termination of Condominium No. 309 and Condominium No. 316 that caused Mr. Ratz to suggest that I contact you directly. As I have informed Mr. Ratz, Aitkin County is the holder of that certain Combination Mortgage and Security Agreement and Fixture Financing Statement, recorded in the Aitkin County Recorder's office on May 2, 1989, as Document No. 256354 (the "Mortgage"). Attached is a copy of the Mortgage. The Mortgage is recorded against all or parts of Condominium Number 309 and Condominium Number 316. Given that Section 515B.2-119 of the Act requires that 80% of the first mortgagees of Condominium Number 309 and Condominium

Number 316 agree to the termination of Condominium Number 309 and Condominium Number 316, respectively, and given that there are no other outstanding mortgages against any portion of Condominium No. 309 and Condominium No. 316, the Association is requesting that Aitkin County agree to the Termination Agreements and to the termination of Condominium Number 309 and Condominium Number 316. I have attached a Consent of Mortgagee, for the signature of Aitkin County, to each Termination Agreement. Please let me know if the Termination Agreements and the Consents of Mortgagee are satisfactory to Aitkin County. If so, I will have the Termination Agreements finalized and then sent to you so that Consents of Mortgagee can be executed by Aitkin County.

Please note that, under Minnesota Statutes Section 541.03, the time period has expired within which Aitkin County would have the right to foreclose the Mortgage. So, in any event, I don't see any downside in Aitkin County agreeing to the terminations. Thank you for your prompt attention to this matter, and for your consideration. Please contact me by 8/16/2016 with your comments to the attachments, since time is of the essence. Thank you, again.

Fredrick R. Krietzman

Attorney




220 South 6th Street, Suite 2200, Minneapolis, MN 55402

Direct: [612.373.8418](tel:612.373.8418) | Main: [612.339.6321](tel:612.339.6321) | Fax: [612.338.4608](tel:612.338.4608)

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From: Jim Ratz [<mailto:jratz@co.aitkin.mn.us>]
Sent: Tuesday, July 19, 2016 2:32 PM
To: Fredrick R. Krietzman
Cc: Nathan Burkett; Anne Marcotte
Subject: RE: Quadna Mountain Townhouse Association / 316 and 309 Quadna Road, Hill City, MN

Good Afternoon Fred,

I have copied Mr. Burkett, the County Administrator, and Ms. Marcotte, the District 5 Commissioner, on this email. In addition, Mr. Burkett can be reached at [218.927.7276](tel:218.927.7276).

Thanks,

Jim




From: Fredrick R. Krietzman [<mailto:FKrietzman@Felhaber.com>]
Sent: Tuesday, July 19, 2016 2:21 PM
To: Jim Ratz
Cc: Joanne Madsen (madsen@hickorytech.net); Karen Majzner; David Stendal; Blaine Smith (smith.blaine@gmail.com)
Subject: Quadna Mountain Townhouse Association / 316 and 309 Quadna Road, Hill City, MN
Importance: High

Hi Jim: Thank you for your time on the phone today. I understand that it will be up to the County Board on whether the County will consent to the termination of the two condominiums and/or whether the County will release its mortgage as to the two condominiums and the units/time-units therein. Please send me as soon as possible the contact information for the County Administrator and for the County Commissioner in whose District Quadna Mountain Townhouses is located. I will then communicate with those persons. Thanks so much.

Fredrick R. Krietzman

Attorney

220 South 6th Street, Suite 2200, Minneapolis, MN 55402
Direct: [612.373.8418](tel:612.373.8418) | Main: [612.339.6321](tel:612.339.6321) | Fax: [612.338.4608](tel:612.338.4608)
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Association of
Minnesota Counties

Handout -
Board
Discussion

HEALTH & HUMAN SERVICES Policy Committee

Thursday, September 15, 2016

1:30 – 4:30 P.M.

Arrowwood Resort, Alexandria

AGENDA

1:30 P.M. CALL TO ORDER – Joint Committee with Public Safety

1:35 P.M. Results First Update

Weston Merrick-

The goal of Results First is to identify and fund programs that have been proven to work. By funding these evidence-based programs, the state can improve outcomes for Minnesotans, and do so in a cost-effective way. The Minnesota Results First team, in partnership with the Pew and MacArthur Foundations, uses a statistical model to assess the benefits and costs of state corrections and human services programs. Mr. Merrick will update the committee on the work in Adult Criminal Justice, and Adult Mental Health.

2:10 P.M. Mental Health Task Force Update

Commissioner Jim McDonough, Ramsey County and Sue Koch, Department of Human Services

Governor Mark Dayton established the Governor's Task Force on Mental Health in order to: Advise the Governor and Legislature on mental health system improvements within the State of Minnesota. Develop comprehensive recommendations to design, implement, and sustain a full continuum of mental health services throughout Minnesota. Make recommendations on developing and sustaining a comprehensive and sustainable continuum of care for children and adults with mental illnesses in Minnesota.

Commissioner McDonough and Ms. Koch will update the Committee on the work of the task force and the focus and charge of the group moving forward.



PLEASE SILENCE YOUR CELL PHONE DURING THE MEETING.



Association of
Minnesota Counties

HEALTH & HUMAN SERVICES Policy Committee

Health and Human Services Policy Committee Called to Order

3:15 P.M. Partnering for Legislative Success

Lorna Schmidt, LPHA, Eric Ratzmann, MACSSA and Rochelle Westlund AMC
AMC, MACSSA and LPHA will present on platform development and collaboration between organizations as we head into the legislative session to best prepare counties for legislative success using the unique roles and expertise of our associations.

Kareem Murphy, Hennepin County, Nancy Silesky, MICA, Claudia Brewington, Ramsey County, Rochelle Westlund, AMC

This panel will discuss the political realities of counties at the capital. What counties can do to work together collaboratively to plan for the legislative session, and provide insight to the workings of your HHS Lobbying team.

4:15 P.M. ADJOURN



PLEASE SILENCE YOUR CELL PHONE DURING THE MEETING.



HEALTH & HUMAN SERVICES Policy Committee

Friday, September 16, 2016

9:00 – 11:30 A.M.

Arrowwood Resort, Alexandria

9:00 A.M. CALL TO ORDER –

9:05 A.M. METS and AMC's Workgroup to Create a Better Eligibility System
Commissioner Sheila Kiscaden, Olmsted County, Heidi Welch, Olmsted county, Linda Bixby, Washington County, Deborah Huskins, Hennepin County
Members of AMC's METS workgroup will be talking about the current struggles and realities of the Minnesota Eligibility Technology System, and AMC's role in working to create a better more efficient system for counties and the people that we serve.

10:15 A.M. Preview of Legislative Platform Process
A brief discussion of the legislative platform development process and things members will need as we head into the next phase of platform development and policy priorities.

10:35 A.M. Policy Priority Development
Lead by Rochelle Westlund AMC

11:30 A.M. ADJOURN



PLEASE SILENCE YOUR CELL PHONE DURING THE MEETING.

STATE OF MINNESOTA
EXECUTIVE DEPARTMENT



MARK DAYTON
GOVERNOR

Executive Order 16-02

Establishing the Governor's Task Force on Mental Health

I, **Mark Dayton, Governor of the State of Minnesota**, by virtue of the authority vested in me by the Constitution and applicable statutes, do hereby issue this Executive Order:

Whereas, more than 200,000 adults and 75,000 children in Minnesota live with a mental illness;

Whereas, people wait an average of ten years between first experiencing mental health symptoms and accessing treatment;

Whereas, over 50 percent of children and adults in Minnesota who experience homelessness live with a mental illness;

Whereas, Minnesotans who seek mental health services experience gaps in the current mental health system, leading to inappropriate placement in mental health services, or to not receiving care altogether;

Whereas, adults with a serious and persistent mental illness are dying, on average, 25 years earlier than the general public due to heart disease, lung disease, diabetes and cancer;

Whereas, numerous reports have highlighted the cross-sector challenges faced by Minnesotans in need of mental health care, and recommended developing and implementing a more comprehensive continuum of mental health services; and

Whereas, Minnesotans who live with serious mental illnesses can live healthy and productive lives when high-quality and effective mental health services are available to them.

Now, Therefore, I hereby order that:

1. The Governor's Task Force on Mental Health is created to advise the Governor and Legislature on mental health system improvements within the State of Minnesota.
2. The purpose of the Task Force is to develop comprehensive recommendations to design, implement, and sustain a full continuum of mental health services throughout Minnesota.
3. In addition, the Task Force will make recommendations on:
 - a. Developing and sustaining a comprehensive and sustainable continuum of care for children and adults with mental illnesses in Minnesota, including policies, legislative changes, and funding;
 - b. Clear definition for the roles and responsibilities for the state, counties, hospitals, community mental health service providers, and other responsible entities in designing, developing, delivering, and sustaining Minnesota's continuum of mental health care;
 - c. Reforms needed to support timely and successful transition between levels of care, including early intervention services and substance abuse services; and
 - d. Expanding the capacity of Minnesota's mental health system to responsively serve people of diverse cultures and backgrounds.
4. The task force shall consist of members appointed by the Governor, including:
 - a. The Commissioner of the Department of Human Services;
 - b. 4 individuals or family members of individuals with lived experience of mental health issues;
 - c. 2 mental health advocates;
 - d. 2 representatives of community mental health services;
 - e. 2 representatives of hospital systems;
 - f. 2 representatives from law enforcement;
 - g. A representative from the counties; and
 - h. A representative from the judicial branch.
5. The task force shall include four ex-officio leaders from state agencies, who shall be appointed by the Governor:
 - a. The Commissioner of the Department of Health;
 - b. The Commissioner of the Department of Corrections;
 - c. The State Director to Prevent and End Homelessness; and
 - d. The Ombudsperson for Mental Health and Developmental Disabilities.
6. The task force shall include four ex-officio legislative members, who shall be appointed by caucus leadership:
 - a. A Member of the Majority Party in the Senate;
 - b. A Member of the Minority Party in the Senate;
 - c. A Member of the Majority Party in the House of Representatives; and
 - d. A Member of the Minority Party in the House of Representatives.
7. The chair of the Task Force will be the Commissioner of the Department of Human Services.

8. The Task Force will report to the Governor's Office, the Legislature, and the public by November 15, 2016.
9. The Commissioner of the Department of Human Services will provide general administrative and technical support to the Task Force.
10. The Task Force will make its meetings open to the public and provide opportunities for public comment.

This Executive Order is effective fifteen days after publication in the State Register and filing with the Secretary of State, and shall remain in effect until rescinded by proper authority or until it expires in accordance with Minnesota Statutes, section 4.035, subdivision 3.

In Testimony Whereof, I have set my hand on this 27th day of April, 2016.



Mark Dayton
Governor

Filed According to Law:



Steve Simon
Secretary of State



