VILLAGE OF ORLAND PARK SMART ENERGY FUND AGREEMENT

THIS AGREEMENT, entered into this \(\sum_{\infty} \) day of \(\lambda \text{UDMSUN} \), \(\frac{2010}{2010} \) between the Village of Orland Park, Illinois (hereinafter referred to as "Village") and the following designated Owner/Lessee, to witness:

Owner's Name:

Vincent Tuohy

Lessee's Name:

N/A

Name of Business:

The Irish Patriot

Tax ID#/Social Security #:

27-2832614

Address of Property to be Improved:

9875 W. 143rd Street

PIN Number:

27-09-202-002

WITNESSETH:

WHEREAS, the Village of Orland Park has established a Smart Energy Fund for application within the Village of Orland Park (the "Village") and funded it through the American Recovery and Reinvestment Act of 2009 via the United States Department of Energy's Energy Efficiency and Conservation Block Grant (EECBG); and

WHEREAS, said Smart Energy Fund is administered by the Village for the purposes of helping property owners and tenants of commercial structures within the Village to conserve resources and install high performance, energy efficient and renewable energy systems; and

WHEREAS, pursuant to the Smart Energy Fund the Village, subject to its sole discretion, will reimburse Owners/Lessees for the cost of eligible energy efficiency/ renewable energy improvements to commercial structures within the Village up to a maximum of one-half (1/2) of the approved contract cost of such improvements or \$20,000.00, whichever is less; and

WHEREAS, the Owner/Lessee's property is located within the Village, and the Owner/Lessee desires to participate in the Smart Energy Fund pursuant to the terms and provisions of this Agreement.

NOW, THEREFORE, in consideration of the mutual covenants and agreements obtained herein, the Village and the Owner/Lessee do hereby agree as follows:

SECTION 1

With respect to energy efficiency/ renewable energy improvements, the Village shall reimburse an Owner/Lessee for the cost of improvements to the Owner/Lessee's property at the rate of fifty percent (50%) of such cost.

The actual total reimbursement amounts per this Agreement shall not exceed \$20,000.00. The improvement costs that are eligible for Village reimbursement include all labor, materials, equipment, and other contract items necessary for the proper execution and completion of the scope of work as shown on the plans, design drawings, specifications and estimates approved by the Village. Such plans, design drawings, specifications, estimates and scope of work are attached hereto as Exhibit A.

The energy efficiency/ renewable energy improvements to be performed pursuant to this Agreement are:

Per Quality Filter Service bid:

- Install three (3) Heil Quiet Comfort VS 95 Series Gas Furnaces;
- Install three (3) Heil Quiet Comfort DXT+ Two-Stage Air Conditioners (16 SEER);
- Install two (2) Cyclone HE model BTX-80 Water Heaters (50 gallons);
- Install one (1) ICE1400-Modular Cube Ice Machine;
- Install six (6) heat exchanging grease filters (Thermal Recovery Heat Capture Systems);
- Install new energy efficient lighting at the Irish Patriot,

Three (3) Heil Quiet Comfort VS 95 Series Gas Furnaces

- 95% Annual Fuel Utilization Efficiency (AFUE);
- Energy Star Qualified;
- Variable speed furnaces, 100,000 BTU;
- 30%-35% more efficient than older units
- 50%-75% less electricity than regular blowers;

Three (3) Heil Quiet Comfort DXT+ Two-Stage Air Conditioners

- 16 SEER (Seasonal Energy Efficiency Ratio);
- Energy Star Qualified;
- Two-stage condenser units;
- 44% more efficient than older units;

Two (2) Cyclone HE model BTX-80 Water Heaters

- 50 Gallon;
- 90% Thermal efficiency rating represents 10%-20% savings over minimum standards;
- Contractors note Energy Star qualified;
- Specification sheets note systems meet or exceed thermal efficiency and standby loss requirements of the US Department of Energy and Current Edition of ASHRAE/IESNA 90.1;

One (1) ICE1400-Modular Cube Ice Machine

- Ice-o-Matic Model ICE1406HA;
- 208-230/60/1 phase;

- 48W x 24D x 26H:
- Energy Star Qualified;
- Includes Ice Bin (Model B100PS) 854lbs storage capacity, 48W x 31D x 50H;

Six (6) Heat Capture Hood Filters

- Thermal Heat Recovery Systems for heat exchanging grease filters;
- Filters channel potable water through the hood using the exhaust air to heat the water before it is sent to the water heater or to another exchanger in the make-up air unit or furnace.
- 25% savings in natural gas use;
- Proprietary innovative technology by Quality Filter Service Inc. has obtained Nicor Gas (gas utility) approval on this technology through Nicor's Energy Efficiency Program;

New Energy Efficient Lighting

- Seven (7) Gooseneck CF Wet 42W fixtures;
- 41 LEDP/MR16-FL-30K down/can lights;
- 36 F13 Forest Green LED canopy light with LEDP-3X2WPAR20/60D-65K/C/DIM;
- Eight (8) WSS0326-U fluorescent wall-pack with photo sensors;
- Ten (10) Sy90-232-b11-UNV Low profile wrap around T-8/2 lamps;
- Eight (8) exit sign simkar 12x7.5 inch LED Exit with battery backup emergency lights;
- Restaurant will be retrofitted with energy efficient bulbs and fixtures such as T5 and T8 linear and cold cathode and LED bulbs.
- 80% energy savings;
- Lighting complies with ComEd specifications for energy efficiency per the Smart Ideas for Your Business incentives program;

SECTION 2

No improvement work shall be undertaken until its design has been submitted to and approved by the Village. Following approval, the Owner/Lessee shall contract for the work and shall commence and complete all such work within ninety (90) days from the date of such approval.

SECTION 3

The Development Services Director shall periodically review the progress of the contractor's work on the energy efficiency/ renewable energy improvements pursuant to this Agreement. Such inspections shall not replace any required permit inspections by the Building Inspectors. All work which is not in conformance with the approved plans, design drawings and specifications shall be immediately remedied by the Owner/Lessee and deficient or improper work shall be replaced and made to comply with the approved plans, design drawings and specifications and the terms of this Agreement.

SECTION 4

Upon completion of the improvements and upon their final inspection and approval by the Development Services Director or his/her designee, the Owner/Lessee shall submit to the Village a properly executed and notarized contractor sworn statement showing the full cost of the work,

as well as each separate component amount due to the contractor and each and every subcontractor involved in furnishing labor, materials or equipment in the work. In addition, the Owner/Lessee shall submit to the Village proof of payment of the contract cost pursuant to the contractor's statement and final lien waivers from all contractors and subcontractors. The Owner/Lessee shall also submit to the Village a copy of all of the invoices for professional services fees for preparation of plans and specifications. The Village shall, within thirty (30) days of receipt of the contractor's statement, proof of payment and lien waivers, and the professional services statement, issue a check to the Owner/Lessee as reimbursement for one-half (1/2) of the approved construction cost estimate or one-half (1/2) of the actual construction cost, whichever is less, subject to the limitations set forth in Section 1 hereof.

SECTION 5

If the Owner/Lessee or his contractor fails to complete the improvement work provided for herein in conformity with the time limitation, approved plans, design drawings and specifications and the terms of this Agreement, then upon written notice being given by the Development Services Director to the Owner/Lessee, by certified mail to the address listed above, this Agreement shall terminate and the financial obligation on the part of the Village shall cease and become null and void.

SECTION 6

Upon completion of the improvement work pursuant to this Agreement, the Owner/Lessee shall be responsible for properly maintaining such improvements in finished form and without change or alteration thereto, as provided in this Agreement, unless changes are submitted for review and are approved by the Village Board. Such approval shall not be unreasonably withheld if the proposed changes do not substantially alter the original design concept of the improvements as specified in the plans, design drawings and specifications approved pursuant to this Agreement. In the event the approved energy efficiency/ renewable energy improvements are not properly maintained or alterations are made to the improvements without prior consent from the Village, the Village reserves the right to terminate this Agreement, hold the applicant liable for any architectural design and consultant fees incurred by the Village, and require reimbursement in full for all monies expended towards the project through this Smart Energy Fund.

SECTION 7

This Agreement shall be binding upon the Village and upon the Owner/Lessee and its successors, to said property for a period of ten (10) years from and after the date of completion and approval of the energy efficiency/ renewable energy improvements provided for herein. It shall be the responsibility of the Owner/Lessee to inform subsequent Owner/Lessee(s) of the provisions of this Agreement, and to be aware of the requirement for prior Village approval of any alteration whatsoever to the building energy systems funded by the Smart Energy Fund.

SECTION 8

The Owner/Lessee releases the Village from, and covenants and agrees that the Village shall not be liable for, and covenants and agrees to indemnify and hold harmless the Village and its officials, officers, employees and agents from and against, any and all losses, claims, damages, liabilities or expenses, of every conceivable kind, character and nature whatsoever arising out of, resulting from or in any way connected directly or indirectly with the energy efficiency/renewable energy improvement(s), including but not limited to actions arising from the Prevailing Wage Act (820 ILCS 30/0.01 et seq.) and the Davis-Bacon Act (40 U.S.C. 3141 et seq.) The Owner/Lessee further covenants and agrees to pay for or reimburse the Village and its officials, officers, employees and agents for any and all costs, reasonable attorneys' fees, liabilities or expenses incurred in connection with investigating, defending against or otherwise in connection with any such losses, claims, damages, liabilities, or causes of action. The Village shall have the right to select legal counsel and to approve any settlement in connection with such losses, claims, damages, liabilities, or causes of action. The provisions of this Section 8, as well as Sections 6 and 7, above, shall survive the completion of said facade improvement(s).

SECTION 9

Nothing herein is intended to limit, restrict or prohibit the Owner/Lessee from undertaking any other work in or about the subject premises, which is unrelated to the energy efficiency/ renewable energy improvements provided for in this Agreement.

SECTION 10

This Agreement shall be enforceable by any action at law or in equity, including actions for specific performance and injunctive relief. The laws of the State of Illinois shall control the construction and enforcement of this Agreement. The parties agree that all actions instituted on this Agreement shall be commenced and heard in the Circuit Court of Cook County, Illinois, and hereby waive venue in any other court of competent jurisdiction. Before any failure of any party to perform any obligation arising from this Agreement shall be deemed to constitute a breach, the party claiming the breach shall notify the defaulting party and demand performance. No breach of this Agreement shall be found to have occurred if performance is commenced to the satisfaction of the complaining party within thirty (30) days of the receipt of such notice.

IN WITNESS THEREOF, the parties hereto have executed this Agreement on the date first appearing above.

By:

Village Administrator

e rule municipality

LESSEE (if applicable)	
	ATTEST: Danie Makes
	Village Clerk



Quality Filter Service Inc. Innovative Environmental Solutions www.qualityfilterservice.com 554 Anderson Dr Suite H Romeoville, II 60446 (p) 815-290-4670 (f) 815-293-4671

Energy Use Analysis Write-Up for the Energy Efficiency Retrofit of

The Irish Patriot 9875 West 143rd Street Orland Park, IL 60467

The following equipment will be installed:

HVAC

\$23,200.00

Three (3) furnaces will be installed. They are Heil Quiet Comfort™ VS 95 Series Gas Furnaces. These units have a 95% AFUE rating which is 30%-35% better than older, less efficient units. They have a variable speed circulation blower that uses 50%-75% less electricity than ordinary blowers.

Three (3) air conditioners will be installed. They are Heil Quiet Comfort™ DXT+ Two-Stage Air Conditioners. These units have a 16 SEER rating, which will save up to 44% on energy use compared to older units.

Water Heater \$4,825.00

Two (2) 50 gallon water heaters will be installed. They are Cyclone® HE model BTX-80 Water Heaters. These units have a 90% thermal efficiency rating, which represents a 10%-20% savings over minimum standards. Their burner design reduces NOx emissions to less than 40ng/j requirements for low NOx.

Ice Machine \$10,056.00

One (1) commercial ice machine will be installed. It is an ICE1400-Modular Cube Ice Machine. This machine is an Energy Star model using 4.1-5.3 KWh/100 lb ice.

Walk-In Cooler Compressors/Evaporators

Quote not turned in by vendor on time

Heat Capture Hood Filters

\$10,750.00

Six (6) heat exchanging grease filters will be installed. These filters will channel potable water through the hood using the exhaust air to heat the water before it is sent to the water heater or to another exchanger in the make-up air unit or furnace. These filters will yield a 25% savings in natural gas use.



Quality Filter Service Inc. Innovative Environmental Solutions www.qualityfilterservice.com 554 Anderson Dr Suite H Romeoville, II 60446 (p) 815-290-4670 (f) 815-293-4671

GOING GREEN IS GOOD BUSINESS

Energy Efficient Lighting

\$18,429.80

All lighting in the restaurant will be retrofitted or installed with energy efficient bulbs and fixtures, such as T5 and T8 linears, and cold cathode and LED bulbs. These lights represent an 80% energy savings over traditional incandescent and fluorescent lights and can last 10-25 times as long, producing less waste.

Total Smart Energy Fund Project

\$67,260.80

Total Rebate Requested

\$33,630.40

QUOTE

September 23, 2010

Business Name: The Irish Patriot	Business Phone: 708-403-5575	Cell Phone: 708-814-1173		
Street Address: 9875 W 143 rd St	City: Orland Park	State:	Zip:	
Buyer Name:				

Quote (good for 30 days from presentation)

Item(s) / Service(s)	Qty	List Cost/Each	Total
Heil 95% variable speed furnaces 100,000 BTU	3		
Heil 4 ton 16 seer 2 stage condensers	3		***
Heil 4 ton cased coils	3		
Install, labor ect			INC
Sub Total	1		\$23,700.00
Sales Tax			\$1,777.50
Grand Total			\$25,477.50

Payment Method

☐ Check (payable to Quality Filter Service)

Purchase Agreement

QFS Representative Signature: Michael Holmes	QFS Representative Printed Name:	9-23-10
Customer Representative Signature:	Customer Printed Name	Date:

^{***}installation includes hanging and electrical to 6 feet, permits by others

Murray Mechanical LLC 309 Foxworth Ct. Aurora, Il 60502 July 23, 2010

Irish Patriot 9875 W. 143rd St. Orland Park, IL 60467

Dear Michael:

Murray Mechanical recommends to furnish and install 2 complete Heating & Air Conditioning systems for the bar area 1st Floor. Install exposed spiral ducts below coiling. Install two central returns. Locate furnaces in 2nd floor apt. Locate Air Conditioning on the roof.

This bid does not include ventilation, hood work, exhaust, electric, gas, plumbing done by others.

Irish Patriot

- 3- Heil 95% variable speed furnaces 100,000 BTU
- 3 Heil 4 ton 16 seer 2 stage condensers
- 3 Heil 4 ton cased coils

Total: \$23,200.00

Total Bar area: \$15,400.00

Grand Total: \$23,200.00

Sincerely,

James Murray Murray Mechanical LLC 309 Foxworth Ct Aurora, Il 60502

THE ULTIMATE IN EFFICIENCY BY DESIGN



QUIETCOMFORT™ DXT+ TWO-STAGE AIR CONDITIONER











HEATING & COOLING PRODUCTS

The Strength Behind The Brand

Choosing a Heil^a air conditioner means more than just selecting a brand. It means selecting a product backed with tremendous assets in design engineering, quality manufacturing, and service support—as well as

a 100-year tradition of excellence. We're dedicated to bringing you home comfort products that meet and exceed your expectations for high quality, energy efficiency, and reliability.

You can depend on us.

Depend On Heil

Cool, Quiet Comfort At Its Best

Designed to deliver the ultimate in cool, quiet comfort, the Heil® QuietComfort™ DXT+ is the ideal partner for a QuietComfort 80% to 95% AFUE¹ variable-speed, two-stage gas furnace or variable-speed fan coil. A variety of features make the DXT+ one of the quietest air conditioners around.

The two-stage Copeland® Scroll UltraTech™ compressor with a deluxe sound blanket is at the heart of this cooling machine. A two-speed fan motor that operates primarily on its quieter, lower setting is another winning feature. And operating sound is further minimized by advanced aerodynamic fan and air discharge systems. Plus, the DXT+typically runs at lower speed, switching to higher operating levels as necessary to provide steady cooling when outdoor temperatures change.

Custom-matched with a variable-speed blower, this two-stage operation delivers whisper-quiet operating sound levels and superior humidity control season after season.

As part of a complete system, the DXT+ adjusts cooling levels to match the needs of your home, for a consistently comfortable flow of conditioned air.



R410A is an EPA-approved, environmentally sound refrigerant.

Raise Efficiency To Lower Bills

Boost your energy savings with matching equipment, which can deliver efficiencies up to 16 or 18 SEER¹ (the industry term used to measure energy efficiency). You could save up to 44% compared to many older units!

*AFUE stands for Annual Fuel Utilization Efficiency and SEER stands for Seasonal Energy
Efficiency Ratio. Rating varies by model from 16 up to 18 SEER depending on indoor unit matches.

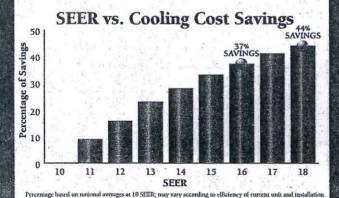
Capacity/SEER Chart 2 ton up to 16 SEER 4 ton up to 16 SEER 3 ton up to 18 SEER 5 ton up to 16 SEER

Built To Last, Backed To Prove It

Every Heil unit is backed by exceptional warranties, including our No Hassle Replacement™ limited warranty*, which gives you a replacement unit if the compressor or outdoor coil should fail within the first ten years. You also get up to a 10 years parts and compressor limited warranty.* And don't forget to ask your dealer about HELP® extended service agreements for additional worry-free protection for parts and labor coverage.

*See published warranty for complete details. To learn more about all of these limited warranties, including the No Hassle Replacement limited warranty, go to Heil-HVAC.com.

Subject to conditions. Ten year warranty requires timely registration. See detailed additional information on back page and Warranty Certificate at Hell-HVAC.com for complete details.



TOTAL COMFORT IN ANY SEASON

To deliver optimum efficiency, savings and comfort, Heil Heating & Cooling Products requires that your dealer install this high-end, two-stage cooling product with a matching variable-speed fan coil or with our top-of-the-line QuietComfort VS 80, VS 90 or VS 95 gas furnace featuring two-stage heating and variable-speed blower.

- a. Humidifier enhances comfort by reducing dryness in the air.
- b. Air Cleaner filters out many indoor air pollutants so the air in your home is cleaner.
- Set-Back Thermostat allows you to customize heating and cooling levels and also save energy.

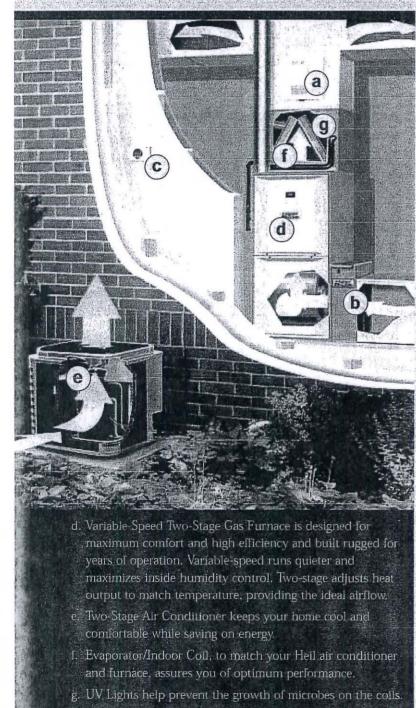




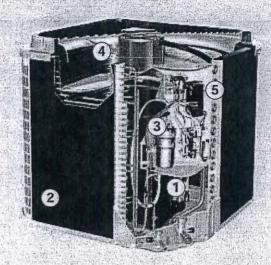








A CLOSER LOOK AT QUALITY COMFORT



(1) Quiet

The two-stage Copeland® Scroll UltraTech® compressor operates most of the time at the quieter, lower stage, changing over to the higher stage at extreme outdoor temperatures to produce more cool air. A deluxe sound blanket also reduces compressor sound levels.

(2) Durable

The painted, galvanized steel cabinet features a powder-coat, baked-on finish and a coated inlet grille with narrower spacing to provide maximum protection as it allows for proper airflow and easy coil cleaning.

(3) Efficient

The Copeland® Scroll UltraTech™ compressor and the 7 mm copper tubing with aluminum fin coils work collectively to save on energy.

4) Smooth Operation

The two-speed fan motor operates most of the time on the quieter, lower speed. Aerodynamic air discharge design reduces operating sounds. The variable-speed indoor fan allows for whisper-quiet indoor operation.

(5) Service Friendly

The Comfort Alert® II diagnostic system has all of the standard Comfort Alert® features. Plus, it can alert homeowners to call for service before a problem develops by working with an optional Comfort Alert® II compatible thermostat.



Heil Split System Comparison	DX 1300	DX 1400/ DX 1500	DXT+
HP MODEL SERIES	Н4Н3	НХН5	H4H5/ H4H7
AC MODEL Series	H4A3	H4A4	H4A6/ H4A8
REFRIGERANT	OR410A	OR410A	()R410A
ENERGY SAVINGS SEER RATING*	13	14/15	15-18
ENERGY SAVINGS HSPF RATING* Heat Pumps Only	7.7	8.5	8.5
NO HASSLE REPLACEMENT Limited Warranty	1 YR	5YR	10YB
PARTS WARRANTY*	10 WB	10 WB	10 WB
COMPRESSOR WARRANTY*	10 YR	10 VB	10 YB
COMPRESSOR *Also includes sound jacket	Copeland Scroll*	Copeland Scroll*	Copeland Scroll UltraTech*
TWO-STAGE COMPRESSOR	-	ŧ,^	•
COMFORT ALERT	•	•	. 0
ENHANCED AIR MANAGEMENT	• .	0	0

- [†] Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet ENERGY STAR® criteria. Ask your contractor for details or visit www.energystar.gov.
- * For information regarding furnace or fan coil options that can increase the energy efficiency of selected Heil air conditioners (SEER) and heat pumps (SEER and HSPF), go to Heil-HVAC.com and look for "Energy Savings" on the menu.
- ^ This Heil product carries a ten (10) year limited warranty on parts, including compressor and colls, to original homeowner if installed in an owner-occupied, single-family residence and properly registered within ninety (90) days after original installation. Otherwise, the parts warranty period is five (5) years from the date of installation. Heat exchangers may carry longer limited warranty coverage that applies to original homeowners with timely registration. (See Warranty Certificate for registration instructions. Registration not required in all jurisdictions.)



All systems tested and listed by the appropriate agencies.



ISO 9001: 2000 Registered





As part of its commitment to quality, International Comfort Products, LLC, reserves the right to change specifications on its products without notice. Illustrations and photographs in this brochure are only representative. Some product models may vary.

H4A6/H4A8 Series
2010 International Comfort Products, LLC

650 Heil Quaker Ave. • Lewisburg, TN 37091

Heil-HVAC.com

THE ULTIMATE IN EFFICIENCY BY DESIGN



QUIETCOMFORT™ VS 95 SERIES GAS FURNACE 95% AFUE











The Strength Behind The Brand

Choosing a Heil* furnace means more than just selecting a brand. It means selecting a product backed with tremendous assets in design engineering, quality manufacturing, and service support—as well as a

100-year tradition of excellence. We're dedicated to bringing you home comfort products that meet and exceed your expectations for high quality, energy efficiency, and reliability. You can depend on us.

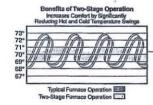
Depend

Consistent Comfort

Unlike single-stage furnaces—which heat up fast and shut down fast, going from too hot to too cold-the Heil® QuietComfort™ VS 95 delivers consistent heat and overall comfort. The two-stage system operates at low heat most of the time and automatically modulates to higher heat production if the temperature drops. Run the high efficiency fan continuously to improve indoor air quality. The variable-speed motor can also help increase comfort by maximizing moisture removal¹ during cooling (air conditioner) operation. *Used with a humidity-sensing thermostat or dehumidistat.

Designed To Keep Quiet

The QuietComfort VS 95's variable-speed motor runs much guieter than conventional motors. The unit's sturdy doors, burner enclosure and fully insulated cabinet also enhance quiet operation.



Top Efficiency For Lower Energy Bills

You get maximum energy savings with the 95% AFUE¹ rating of the QuietComfort VS 95. Older, less efficient units get just 60%-65% AFUE. The VS 95's variable-speed circulation blower uses 50%-75% less electricity than ordinary blowers. You can actually run it year round on continuous mode and still keep a lid on your energy bills!

AFUE stands for Annual Fuel Utilization Efficiency.

Warranty Protection For Security

Every Heil unit is backed by exceptional warranties, including our No Hassle Replacement™ limited warranty*, which gives you a replacement unit if the heat exchanger should fail within the first ten years. You also get up to a 10 years parts limited warranty* and a lifetime[§] limited warranty* on the stainless steel heat exchanger. And don't forget to ask your dealer about HELP® extended service agreements for additional worry-free protection for parts and labor coverage.

*See published warranty for complete details. To learn more about all of these limited warranties, including the No Hassle Replacement limited warranty, go to Heil-HVAC.com.

Subject to conditions. Ten year warranty requires timely registration. See detailed additional information on back page and Warranty Certificate at Heil-HVAC.com for complete details.

The QuietComfort VS 95 automatically adapts its operation to match your heating requirements. When the weather gets colder, the higher stage kicks in, modulating the speed of the circulation motor and the output of the burners to provide maximum warmth and cornfort.

Higher AFUE Equals Greater Energy Savings 95% AFUE 0% SAVINGS 60 AFUE 64 AFUE 70 AFUE 80 AFUE 90 AFUE 92 AFUE 95 AFUE

al averages; may vary according to efficiency of current unit and installation

GET YEAR-ROUND COMFORT WITH HEIL

- a. Humidifier enhances comfort by reducing dryness in the air.
- b. Air Cleaner filters out many indoor air pollutants so the air in your home is cleaner.
- Set-Back Thermostat allows you to customize heating and cooling levels and also save energy.
- d. Furnace is designed for maximum comfort and high efficiency and built rugged for years of operation.

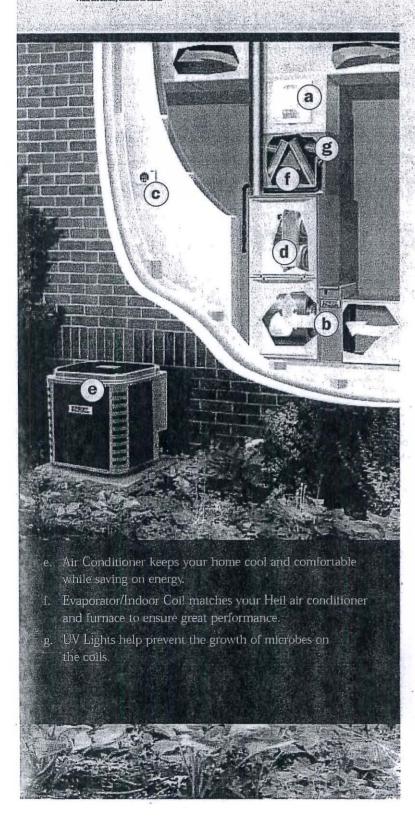


STAINLESS STEEL LIMITED WARRANTY HIEAT EXCHIANGER Action required.



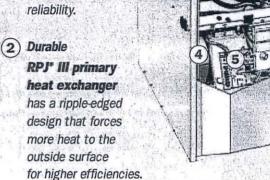






INNOVATIONS THAT ENHANCE YOUR COMFORT

1 Reliable
Direct Hot
Surface Ignition
System features
an advanced
silicon nitride
igniter for greater
reliability.



Heating On Demand
 Two-stage redundant gas valve, two-speed induced draft blower assembly, and variable-speed motor modulate up smoothly when more heat is needed.

Made of corrosion-resistant, weld-free stainless steel.

4 Quiet

Variable-speed circulation blower motor
is prelubricated, dynamically balanced and resilient
mounted to reduce vibration and noise.

5 System Monitoring
State-of-the-art electronic controls monitor system operation for faster, easier system diagnostics.



QUIETCOMFORT™ VS 95 SERIES GAS FURNACE

			M	AINLINE MOD	ELS			
Heil Gas Furnace Comparison	DLX 80	IIS 80	VS 80	DLX 90	DLX 95	IIS 90	VS 90	VS 95
MODEL SERIES	H8MPN/ H8MPL/ H8DNL	Н8МРТ	намру	Н9МРД	Н9МРХ	Н9МРТ	H9MPV	Н9МVХ
ENERGY SAVINGS AFUE RATING*	80%	80%	80%	92%	95%	92%	92%	95%
HEAT EXCHANGER WARRANTY	20¥B	25YB	25YR	LIFE	LIFE	LIFE	LIFE	LIFE
NO HASSLE REPLACEMENT" Limited Warranty	1 YR	5 YR	10YR	1 YR	1 YR	5 YR	10YB	10YB
PARTS WARRANTY*	10 Y E	10YB	10 Y B	10VR	10 <u>V</u> R	10YE	10 Y R	10YR
RPJ® III HEAT EXCHANGER Patented weld-free construction	0	•	•	•	•	•	•	•
VARIABLE-SPEED ECM CIRCULATION BLOWER MOTOR Quiet, even airflow	استا	2,0	•		Ď.		•	•
TWO-STAGE OPERATION Self-adjusting heat modes	V.	•	•	Out.	i i	•	•	0

^{*}Many models earn the ENERGY STAR*. Ask your contractor for details or visit www.energystar.gov.

^{*}This Heil product carries a ten (10) year limited warranty on parts, including compressor and coils, to original homeowner if installed in an owner-occupied, single-family residence and properly registered within ninety (90) days after original installation. Otherwise, the parts warranty period is five (5) years from the date of installation. Heat exchangers may carry longer limited warranty coverage that applies to original homeowners with timely registration. (See Warranty Certificate for registration instructions. Registration not required in all jurisdictions.)



650 Heil Quaker Ave. . Lewisburg, TN 37091

Heil-HVAC.com

All systems tested and listed by the appropriate agencies







ISO 9001: 2000 Registered

As part of its commitment to quality, International Comfort Products, LLC, reserves the right to change specifications on its products without notice. Illustrations and photographs in this brochure are only representative. Some product models may vary.

^{*}AFUE stands for Annual Fuel Utilization Efficiency. Higher number = Greater efficiency.

Select Plumbing Corporation 13400 S. Rt 59

13400 S. Rt 59 Ste. 116-137 Plainfield, IL 60585

Voice: 815-715-2979 Fax: 815-782-4306

Quoted To:
The Irish Patriot
9875 W 143rd St
Orland Park, IL

QUOTATION

Quote Number: m313

Quote Date: Sep 24, 2010

Page:

1

Customer ID	Good Thru	Payment Terms	Sales Rep
The Irish Patriot	10/24/10	C.O.D.	Pierce, Jeff

Quantity	Description	Unit Price	Amount
2.00	AO Smith BTX 80 50 gallon energy star water heater Labor and miscellaneous material to install above water heaters in parallel	2,100.00	4,200.0 625.0
¥		÷	7 - 3
			,e 4
		4	
(4) Y	B and		
		8	
		Subtotal	4,825.
(6)		Sales Tax	
		TOTAL	4,825.

QUOTE

September 08, 2010

Business Name: The Irish Patriot	Business Phone: 708-403-5575	708-81	e: 4-1173
Street Address: 9875 W 143 rd St	City: Orland Park	State:	Zip:
Buyer Name:		7	

Quote (good for 30 days from presentation) OVEN HOOD PREPERATION

Item(s) / Service(s)	Qty	List Cost/Each	Total
AO SMITH BTX-80 50 gallon energy star water	2	2200.00	\$4400.00
heater			
		: r =	
4		140	
· · · · · · · · · · · · · · · · · · ·			
Sub Total			\$4,400.00
Sales Tax			\$330.00
Grand Total			\$4,730.00
	1		

Payment Method

☐ Check (payable to Quality Filter Service)

Purchase Agreement

QFS Representative Signature: Michael Holmes	QFS Representative Printed Name:	Date: * 9-8-10
Customer Representative Signature:	Customer Printed Name	Date:

^{***}installation includes hanging and electrical to 6 feet, permits by others



Commercial Gas Water Heaters

THREE-YEAR LIMITED TANK WARRANTY

 For complete warranty details, consult written warranty shipped with heater or contact A. O. Smith

SPECIFICATIONS

MODEL NUMBER	BTU INPUT PER	GALLONS OR LITRES	OR IANK	GPH OR	RECOVERY - GALLONS OR LITRES PER HOUR AT DEGREE RISE		LBS. OR	SHIPPING WEIGHT		
	HOUR			LFR	LPH	40°F	100°F	140°F	KG	
					22°C	56°C	78°C	2		
DTV 00	76 000	Gallons	50	GPH	206	83	59	Lbs.	210	
BTX-80	76.000	Litres	189	LPH	780	314	223	Kg	95.3	

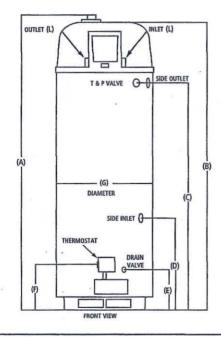
Manifold Pressure: 4.0 inches w.c. (.99 kPa); All models–Maximum Supply Pressure: 14 inches w.c. (3.48 kPa)
Minimum Supply Pressure Natural Gas: 5.0 inches w.c. (1.24 kPa); Minimum Pressure must be maintained under both load and no-load (static and dynamic) conditions

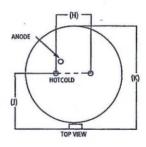
Approved for Canada.

DIMENSIONS

BTX-80	A	В	С	D	E	F	G	Н		K
INCHES	70-5/8	68-1/4	52	21	9-1/8	12	22	8	15-3/4	27
CM	179-3/8	173-1/5	131-4/5	53-3/10	23-1/5	30-1/2	55-9/10	20-3/10	40	68-6/10

Top inlet and outlet: 3/4" male NPT Side inlet and outlet: 3/4" female NPT Gas inlet: 1/2" NPT





* INSTALL IN ACCORDANCE WITH LOCAL CODES

SUGGESTED SPECIFICATION

Natural gas water heater(s) shall be A. O. Smith Cyclone HE model # BTX-80, with 90% thermal efficiency, a storage capacity of 50 gallons, an input rating of 76,000 BTUs per hour, a recovery rating of 83 gallons per hour at 100°F rise and a maximum hydrostatic working pressure of 150 psi. Water heater(s) shall be of power-vent design, using 2", 3" or 4" PVC pipe for horizontal and/or vertical vent runs. Water heater(s) shall have: 1: Seamless, glass lined steel tank construction and a spiral-shaped heat exchanger placed entirely inside the tank, which shall be glass lined on the flue gas side to protect against acidic condensate. 2: An Intelli-Vent™ gas control system with silicon nitride hot surface ignitor. 3: A 3-year limited warranty against tank leaks. Water heater(s) shall meet the thermal efficiency and standby loss requirements of the U. S. Department of Energy and Current Edition of ASHRAE/IESNA 90.1 and be design-certified by UL (Underwriters Laboratories) according to ANSI Z21.10.3-CSA4.3 standards governing storage tank water heaters.

For Technical Information and Automated Fax Service, call 800-527-1953. A. O. Smith Corporation reserves the right to make product changes or improvements without prior notice.



Commercial Gas Water Heaters



The Cyclone® HE is a light-duty, powervent, fully condensing commercial gas water heater with an internal helical heat exchanger, similar to the design of A. O. Smith's industry-leading Cyclone® XHE models. This helical heat exchanger helps Cyclone® HE achieve 90% thermal efficiency and deliver outstanding hot water output.

HELICAL INTERNAL HEAT EXCHANGER

- Completely surrounded by water in tank, provides much greater heat transfer surface than standard straight flue tube
- Produces 90% thermal efficiency, which saves money on operating costs, increases hot water output compared to standard-efficiency water heaters
- Minimizes standby losses by trapping heat in the tank
- Spiral heat exchanger reduces scale and sediment from forming on water-side surface, which can reduce energy efficiency over time

VERSATILE POWERVENT DESIGN

- Vents using inexpensive PVC, CPVC or ABS pipe. Canadian installations require ULC S636 listed PVC or CPVC pipe.
- = 2" pipe, vents up to 25 equivalent feet
- 3" pipe, vents up to 65 equivalent feet
- 4" pipe, vents up to 128 equivalent feet

MODULAR BLOWER

- Equipped with 120 volt, 60 Hz electrical system (rating 5 amps or less), 6-foot cord with standard 3-prong connector
- 2" PVC pipe, elbows and condensate drain supplied to connect heat exchanger outlet to blower
- PVC Vent Attenuation Assembly (VAA) supplied for applications where extra-quiet operating environment is essential

HIGH OUPUT WITH SMALL FOOTPRINT

- 22" diameter, combined with 90% efficiency, 50-gallon tank and 76,000 BTU input means Cyclone HE
 can be installed in less space than a larger 75-gallon unit, with equal or better performance
- Total height is 70-5/8" to top of unit

SIDE-MOUNTED HOT AND COLD RECIRCULATING TAPS

- Allows Cyclone HE to be installed as part of combination space heating/water heating applications, or any system requiring a recirculating hot water loop
- Plugs for the recirculating taps are factory installed

INTELLI-VENT™* GAS CONTROL

- Equipped with long lasting silicon nitride hot surface ignitor no standing pilot
- Advanced electronics for more precise control of water temperature and easy-to-understand system diagnostics
- 180°F maximum temperature setting

PERMAGLAS® ULTRA COAT™ GLASS LINING

- A. O. Smith exclusive process provides superior protection against corrosion
- Protects all interior tank surfaces including inside and outside of helical heat exchanger

TWO HEAVY-DUTY ANODE RODS

■ Provides advanced protection against corrosion

GREEN CHOICE® GAS BURNER

 Patented "Eco-Friendly" design reduces NOx emissions and meets less than 40 ng/j requirements for low NOx

CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE

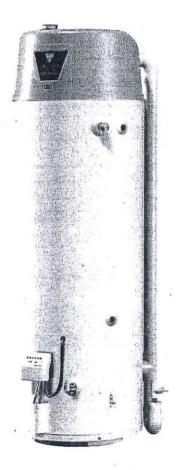
MAXIMUM HYDROSTATIC WORKING PRESSURE: 150 PSI

CODES AND STANDARDS

- Design-certified by Underwriters' Laboratories according to ANSI Z21.10.3 4.3 CSA standards governing storage-type water heaters
- Meets or exceeds the thermal efficiency and standby loss requirements of the U.S. Department of Energy and Current Edition of ASHRAE/IESNA 90.1

*Intelli-Vent™ is a registered trademark of Emerson Electric Company

BTX-80



GAS-FIRED





DDF Foodservice Equipment Company, Inc. 6503 Pinewood Lane, Unit 2 Tinley Park, Illinois 60477 (708) 342-0113 Fax: (708) 342-0118

Qur Nu	mber 00762
Page	of
Acl	mowledgement
X Qu	otation
In	foice
Pm	rchase Order

To: Irish Patriot

Ship to: Irish Patriot

Orland Park, IL 60462

Orland Park, IL 60462

Attn:

Attm:

Date 19/17/10		Shipping Date In stock!!	Via Best Way Prepaid	Best Way Factory		P	O Number
Item	Qty		Description				
01 00	001		-Matic Model ICE1406 nase, measures 48" wid ice per 24 hrs.			\$	9,030.00
		Energy Star Rated Ice	Maker!!	* .	10 pc		,
	001	BIN, Model B100PS, 8 50" high.	854 lbs storage capacity	, 48" wide x 3	1" deep x	\$	1,026.00

PETIS: ALL RETURNS must be accompanied by ORIGINAL NUMBER and date of purchase. Goods must be in UNUSED and in ORIGINAL CARTON. turns are subject to a 25% restocking fee and handling charges. Special order items are NOT returnable. All returns must have authorization number. 1 %? R MONTH SERVICE CHARGE will be added to all past due accounts. Furchaser is liable for all legal costs if account is placed for collections. BREAKAGE SHORTAGES must be reported to delivering carrier within 48 hours after receipt of goods. Any claims against this order will not be honored unless report to us within 5 working days. OUR RESPONSIBILITY FOR CLAIMS CEASES WHEN SHIPMENT is ACCEPTED BY CARRIER.



Quality Filter Service Inc. Innovative Environmental Solutions www.qualityfilterservice.com 554 Anderson Dr Suite H Romeoville, Il 60446 (p) 815-290-4670 (f) 815-293-4671

GOING GREEN IS GOOD BUSINESS

QUOTE

September 08 2010

Business Name: Irish Patriot	Business Phone:	Cell Phone:	
Street Address: 9875 West 143 rd	City: Orland Park	State:	Zip:
Contact Name: Vincent		. 2	

Quote (good for 30 days from presentation)

Item(s) / Service(s)	Qty	Qty List Cost/Each	
Ice Machine Energy Efficient Ice-o-Matic ICE1406HA, air cooled, HC Ice 108-230- 60 Ice Bin Model B100PS 854 Pounds	1 Set	\$10,036.00	\$10,036.00
	344 - 15 - 34 - 34 - 34 - 34 - 34 - 34 - 34 - 3		
Sub Total			\$10,036.00
Sales Tax		7.5%	\$752.70
Grand Total			\$10,788.70

Payment Method

☐ Check (payable to Quality Filter Service)

Service Agreement

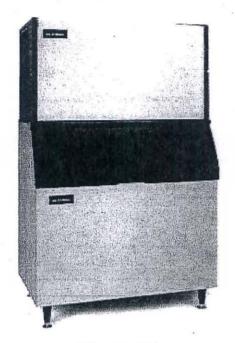
QFS Representative Signature: Michael Holmes	QFS Representative Printed Name:	Date: * 9-08-10
Customer Representative Signature:	Customer Printed Name	Date:

^{***}installation includes hanging and electrical to 6 feet, permits by others



ICE1406/1405/1407 - CUBE ICE MAKER





CHACGON NO.

Features

- · Space-saving 26" (660 mm) tall design.
- · Produces up to 1469 lbs (668 kg) of ice per day.
- Harvest Assist provides consistent ice production for the life of the ice maker while reducing energy consumption and increasing capacity.
- Pure Ice® exclusively by Ice-O-Matic. Built-in antimicrobial protection for the life of the ice maker inhibits bacteria growth on ice maker surfaces. Ice-O-Matic's optional water filtration system provides protection against unpleasant tastes, odors and scale formation.
- Durable, electroless nickel plating on all evaporator plates ensures reliability.
- Longest warranty in the industry. Purchase an Ice-O-Matic water filter with your cube ice maker, replace the filter every six months, and the evaporator warranty is extended to 7 years parts and labor (available in the U.S. and Canada only).
- Constructed from corrosion-resistant stainless steel and fingerprint-proof plastic.

Options & Accessories

Ice Machine	Ma	Inline		
Model	System	Replacement	System	
ICE1406		AND AND ADDRESS OF THE ADDRESS OF TH		
ICE1405	IFQ2	IOMQ (2)	n/a	
ICE1407		Caracita	and desired the second	

Ice Maker Warranty

Every Ice-O-Matic ice maker is backed by a warranty that provides both parts and labor coverage.

- · Three years Parts and Labor.
- Five years Parts coverage on the evaporator and compressor.
- Seven years Parts and Labor on the evaporator when you purchase an Ice-O-Matic water filter with your cube ice maker and replace the filter every six months (available in the U.S. and Canada only).

ice Form

Bin Chart Kits for Combining Wider Bins with Smaller Models



CUBE

W x D x H (in.)	7/8 x 1/8 x 7/8
WxDxH(mm)	22 x 22 x 22
	de Stal
WxDxH(in.)	3/8 x 7/8 x 7/8
WxDxH(mm)	10 x 22 x 22

						opwes:	(in the second	7. April 1			
Action and a second	Model No. Capacity Width	B25 242 lbs (110 kg) 30 in (762 mm)	B40 344 lbs (156 kg) 30 in (762 mm)	B42 351 lbs (téo kg) 22 in (559 mm)	B55 510 lbs (232 kg) 30 in (762 mm)	B70 741 lbs (337 kg) 30 in (762 mm)	B90 1023 lbs (465 kg) 30 in (762 mm)	B100 854 lbs (388 kg) 48 ip (1219 mm)	B120 1142 lbs (510 kg) 48 in (1219 mm)	B150 1447 lbs (658 kg) 60 in (1524 mm)	B170 1807 lbs (821 kg) 60 in (1524 mm)
Kits	ICE0400	erandrustles#ineisens	l de comme de construir de cons	Producerida per en en escal	Ekonomiscom consultation	huntouthumanian	Fallow surression corresponding	Secret carried to Prove (400)	· ····································	August was a second to the	Name of the Owner of the
×	ICEO405	3114	n/a						2 .		
163m(1.0)	ICE0406										

*See Ice-O-Matic Price List for Adapter Kits to combine ice makers with most available ice/beverage dispensers.

















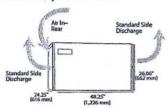
CE1406/1405/1407 - CUBE ICE MAKER



Air Cooled

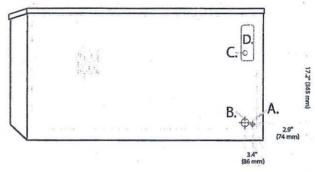
Please note: air-cooled units require 6" (152 mm) clearance for air intake and exhaust.

- A. Ice maker potable water in, 3/8" FPT.
- B. Ice maker water out, 3/4" FPT.
- C. Hole for electrical connections, 7/8".
- D. Electrical junction box.

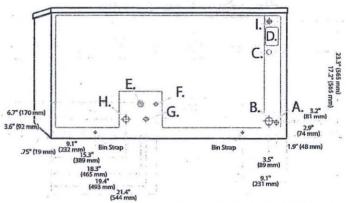


Water Cooled/Remote

- A. Ice maker potable water in, 3/8" FP.T.
- B. Ice maker water out, 3/4" FPT.
- C. Hole for electrical connections, 7/8".
- D. Condenser water in, 3/8" FPT (water only).
- E. Condenser water out, 1/2" FPT (water only).
- F. Liquid line, 3/8" male quick connect coupling for precharged line set (remote only).
- G. Discharge line, 1/2" male quick connect coupling for precharged line set (remote only).
- H. Hole for remote electrical connections, 7/8" (remote only).



Air Cooled



Water Cooled & Remote

Operating Requirements

	er e			
		60 Hz	50Hz	
Ambient Temp. Range Air	50°F (10°C)		по°F (43°C)	
Water Temp.	40°F (4.4°C)	100°F (38°C)		
Water Pressure	20 PSIG (1.4 BAR)	60 PSIG (41 BAR)		

Dimensions

W x D x H (in.)	48.25 × 24.25 × 26.06
W x D x H (mm)	1,226 x 616 x 662

*Requires Remote VRC 2661 Condenser.

Specifications

		4 4				n, 11	on a			
data duran							An area for	70.		74.0
ICE1406A★	Air	1,469 (668)	1,136 (515)	19.9		5.1		26.1		22,069
ICE1406R	Remote*	1,391 (632)	1,150 (523)	20.3	-	5.0	208-230/60/1	22.2	30	22,126
ICE1406W	Water	1,386 (630)	1,239 (563)	22.8	122	4.2		17.8	20	21,994
ICE1405A	Air	1,371 (623)	1,070 (486)	19.7		5-3		21.7	-	21,185
ICE1405R	Remote*	1,419 (645)	1,139 (518)	21.4		5.2	230/50/1	21.9	30	22,339
ICE1405W	Water	1,386 (630)	1,185 (539)	22.6	m	4.2		15.1		21,035
ICE1407A★	Air	1,458 (663)	1,131 (514)	19.6	Constitution of the service requires \$14.5 miles	5.0	208-230/60/3	16.0		21,761
ICE1407R	Remote*	1.393 (633)	1,195 (543)	20.0	1	4.8		14.7	20	22,547
ICE1407W	Water	1,425 (648)	1,270 (577)	22.4	117	4.1		10.7		22,308

Approx. Shipping Weight lbs (kg):

ICE1406/1405: 3 (including ground) • ICE1407: 4 (including ground)
ICE1406A 310 (141) • ICE1406R 300 (136) • ICE1406W 280 (127) • ICE1405A 310 (141) • ICE1405R 300 (136) • ICE1405W 280 (127)
ICE1407A 310 (141) • ICE1407R 300 (136) • ICE1407W 280 (127)

Refrigerant Type:

natic.com for the latest list of ENERGY STAR qualified machines and available rebates

11100 E. 45th Avenue · Denver, CO 80239 · Phone: 1. 866. PURE, ICE · Fax: 303, 371, 6296 · www.iceomatic.com

TCE1400-Modular Cube Ice Machine



ICE1400 on B100

The Perfect Ice for Any Occasion

It's that familiar clinking sound in your favorite beverage. It's the fresh, crystal-clear ice that tumbles into glasses at restaurants, bars and convenience stores around the world, cooling the drink while preserving the flavor. Our widely popular cube ice never goes out of style and is perfect for any application or occasion. Long-lasting cube ice is the right choice for a wide variety of uses.

Reliable and Effortless Performance

Ice-O-Matic manufactures a full range of ICE Series™ modular cube ice machines designed for extremely simple operation and maintenance, with a commitment to reliability. Think of our machines as your silent partner, working every day to provide high volumes of crystal-clear ice. Newly redesigned to be even easier to use, they work well with most storage bins, hotel dispensers, and beverage dispensers, and are perfect for any foodservice or hospitality application. Ice-O-Matic ICE Series™ modular cube machines produce half or full cubes, and meet or exceed CEC or Energy Star criteria.

Energy efficiency

Energy Use: 4.1-5.3 KWh/100 lb ice

ENERGY STAR models - ICE1406HA, ICE1406FA, ICE1407HA, ICE1407FA



Quality Filter Service Inc. Innovative Environmental Solutions www.qualityfilterservice.com 554 Anderson Dr Suite H Romeoville, Il 60446 (p) 815-290-4670 (f) 815-293-4671

GOING GREEN IS GOOD BUSINESS

QUOTE

September 08 2010

Business Name: Irish Patriot	Business Phone:	Cell Phone:					
Street Address: 9875 West 143 rd	City: Orland Park	State: Zip:					
Contact Name: Vincent							

Quote (good for 30 days from presentation)

Item(s) / Service(s)	Qty	List Cost/Each	Total
Thermal Heat Recovery System	1 Set	\$10,000.00	\$10,000.00
Sub Total			\$10,000.00
Sales Tax		7.5%	\$750.00
Grand Total			\$10,750.00

Payment Method

Check (payable to Quality Filter Service)

Service Agreement

QFS Representative Signature: Michael Holmes	QFS Representative Printed Name:	Date:* 9-08-10		
Customer Representative Signature:	Customer Printed Name	Date:		

^{***}installation includes hanging and electrical to 6 feet, permits by others

Proprietary...

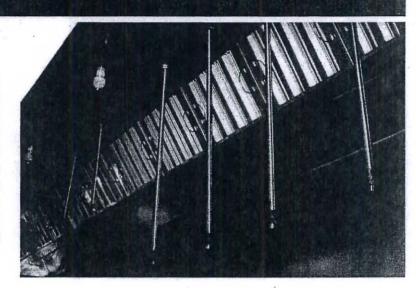
Nicor Approved Technology

HEAT CAPTURE FILTERS

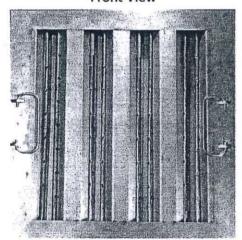
Recycle Restaurant Cook-Line Heat to Make Free Hot Water

Product Description

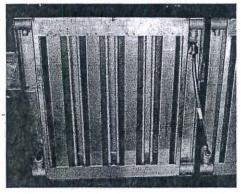
Heat Capture filters, or Heat Caps, conduct potable water through small Teflon-coated dimpled copper tubes that line the filter's air vents. The filters are interconnected on the back side with 1/2" diameter stainless steel braided hoses using heavy duty dripless stainless steel quick connects. The water is heated by the hood exhaust air to temperatures ranging from 90-130°F and either sent to the water heater or used directly where hot water is needed.



Front View



Back View



Product Specifications

Dimensions

Model	Size	Mfg P/N	Weight		
HCF16	15.5"H x 19.5"W x 1.5"D	89002	12.85 lbs (dry)		
HCF20	19.5"H x 19.5"W x 1.5"D	89001	14.95 lbs (dry)		

Materials

Tubes	Teflon Coated Commercial Grade Copper
Baffles	20 Gauge Stainless Steel
Fittings/Connects	Stainless Steel
End Spacers	Stainless Steel

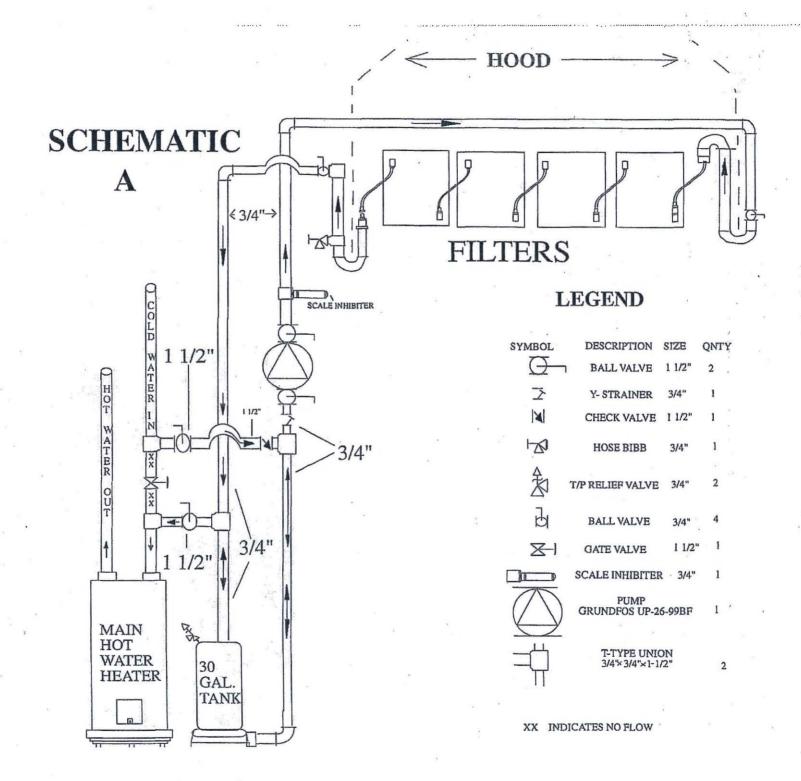
Performance

Heat Recovery	Up to 80%
Air Flow	300 CFM - 0.10 In. H2O air pressure drop 600 CFM - 0.38 In. H2O air pressure drop 900 CFM - 1.22 In. H2O air pressure drop

Special Features

- Hemmed edges to eliminate sharpness
- Stainless steel handles for easy removal and replacement
- UL/CUL Certification Number R 26353
- 1 Year Manufacturer Defect Warranty (subject to inspection prior to replacement)





Natural Gas Savings - Nicor Gas Custom Incentive Calculator

HEAT CAPS PROJECT COST ESTIMATE

Nicor Gas Incentive Amount

ESTIMATED ANNUAL SAVINGS

		· ·	
Storage Tank	\$500	Water Usage From Water Bill (gallons)	109,000.0
Pump	\$300	Number of Days on Water Bill	33
Hood Filter Spacers	\$300	Est. % of Total Usage for Hot Water (Avg. 80-90%)	70%
Plumbing Supplies	\$700	Total Estimated Hot Water Gallons Used Monthly	69,364
Equipment Sub-Total	\$1,800		
		City Inlet Water Temperature (°F)	45
# of Filters Needed	6		
Cost per Filter	\$1,000	Hot Hood Temperature	150
Cost per hose and quick connect	\$100	% of Temperature Recovered	80%
Total Filters Cost	\$6,600	TRS Inlet Water Temperature (°F)	120
	Ce .		
# of Plumber Hours Needed for install	20	Desired Hot Water Temperature (°F)	. 140
Cost Per Plumber Hour	\$80		
Total Plumbing Cost	\$1,600	Average Cost Per Therm	\$0.51
		Annual Water Heating Cost Without Heat Caps	\$3,366
		Annual Water Heating Cost With Heat Caps	\$709
TOTAL PROJECT COST	\$10,000	TOTAL ANNUAL SAVINGS	\$2,657
People's Gas Incentive is \$0.71/therm capped	at 50% of project cost.		
Payback must be greater than 12 months.	a de boyo or project door.		
D. Santa and Market			
Payback Period in Months	45.2	First Year Therm Savings	5209.8
50% of Project Cost Cap	\$3,000	Incentive Dollar Amount Per Therm	\$1.00
		Nicor GAS THERMS SAVINGS INCENTIVE	\$5,210

\$3,000



"What a great idea!"

WE GET THAT A LOT.

Thank goodness for the patents.

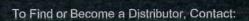
So how much can I save?



Rule of Thumb: About 25% of Your Monthly Gas Bill

Savings estimates can be more accurately calculated by using water and gas utility bills.

	Water Usage From Water Bill (in CCF - hundred cubic feet)	100.0		
	Number of Days on Water Bill	30		
7	Estimated Hot Water % of Total Water Use (Avg. 80-90%)	80%		
	Total Estimated Hot Water Used Monthly (in Gallons)		59,840	
			100	
	Average Measured Hot Hood Temperature (°F)	150°F		
	Average % of Temperature Recovered by Heat Caps	80%		
1	Heat Capture Filters Water Temperature (°F) to Water Heater		120°F	
	City Inlet Water Temperature (°F) to Water Heater		45°F	
	Desired Hot Water Temperature (°F)		140°F	
	Local Cost Per Therm of Natural Gas		\$1.20	
			1 11 11	
	Monthly Hot Water Cost Before (75°F ΔT) *		\$569.00	
	Monthly Hot Water Cost With Heat Caps (20°F ΔT) *		\$120.00	
	그 중앙에 깨끗하는 그 하면 하는 보레 그는 하는 경기 있다녔다.	41.6		





MBC - WARTH BROTHERS 866.575-5950 info@marthbrothers.com

\$449.00



A SOUND INVESTMENT

Most customers will see that a cash purchase of a Heat Capture Filter System will pay for itself in 1-2 years.



LEASING PAYS BACK NOW!

With our \$1 buyout lease options, your monthly payments will be a fraction of your monthly savings. Use other people's money to save your own.



BETTER GREASE COLLECTION

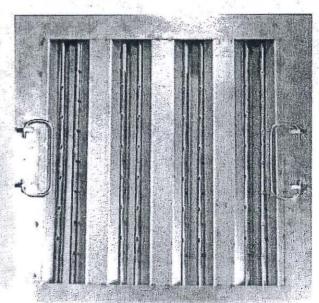
You'll definitely need a larger grease trap pan. Better grease collection means less money spent on regular hood and roof cleaning.





UL® Approved

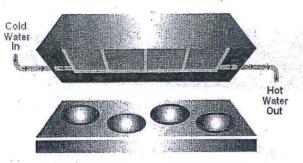
Teflon™ Coated



THERMAL RECOVERY SYSTEMS, INC. P.O. BOX 325, Lakewood, WI 54138 www.HeatCaps.com

Total Heat Caps Monthly Savings

^{*} Hot Water Cost = total gallons x 8.3 lbs/gal x ΔT + 100,000 btu/therm x cost/therm



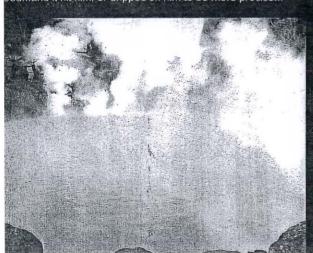
RECYCLE COOK LINE HEAT TO HEAT WATER

Heat Capture Filters are specially ducted and connected together with stainless steel mesh hoses. Cold water coming in from outside is pumped through the filters. As the hot air drawn up by the hood passes through the filter, it heats the water which is then circulated to a small storage tank connected to the water heater. Now the water heater has only to neat the water a few degrees rather than the 90-100 degrees it would normally. The result is big savings on your monthly gas bill.

OUR MODEL

This was the original prototype for

using exhaust heat to heat water. After a long hot soak, our ounder Bob, an executive chef, was thinking if only he could lise this water to wash his dishes in his restaurant, he could save a lot of money. Then one day he was whippin' up some bod...and it hit him, or dripped on him to be more precise...





According to the National Restaurant Association...

- 56 percent of adults say they are more likely to visit a restaurant that offers food grown or raised in an organic or environmentally friendly way.
- 57 percent of adults say they are likely to make a restaurant choice based on how much a restaurant supports charitable active ties and the local community.
- More than 1,800 professional chefs, members of the American Culinary Federation, ranked nearly 215 food and beverage items, preparation methods and culinary themes to reveal the hottest restaurant menu trends in 2010.

Sustainability, local sourcing and nutrition ranked number one!

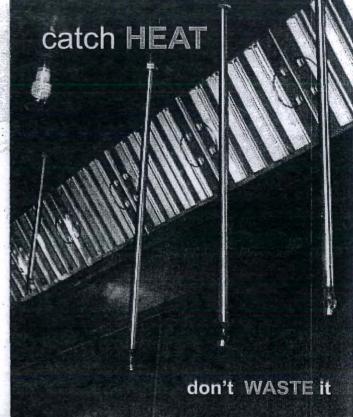
Proudly distributed by:



MBC - MARTH BROTHERS

INNOVATIVE GREEN RESTAURANT SOLUTIONS

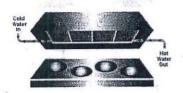
866.575.5950 info@marthbrothers.com



HEAT CAPTURE FILTERS

A THERMAL RECOVERY SYSTEMS, INC.





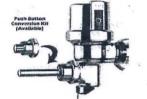


- · Cut 25% off of your monthly gas bill
- · Capture wasted exhaust heat and use it to heat water for the water heater
- Provides 80-90% of the hot water used in your restaurant
- · Saves more than it costs per month on lease to own



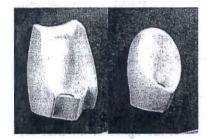
Frylow™ Oil Saving Catalyst

- · Cut your monthly frying oil costs and grease change hassles in half!
- Acts on oil to keep it from breaking down and clumping, while improving heat transfer
- Uses antioxidation, negative ionization, and infrared technologies with NSF® approved safety
- Turn your fryers down to 325° to cut gas bills and cook in the same amount of time
- · Reduces calories in fried foods by up to 20% along with huge green benefits



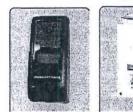
Hybridflush Automatic Flush Valve

- Reduces water volume by 50% on urinal, 50% on 3.5 gpf toilets, and 30% on 1.6 gpf toilets
- Distinctive Hybrid design (automatic/manual)
- Vandal-resistant metal casing not plastic like on other systems
- Patented BRV motor drive system cannot be affected by hard water build-up
- · Comes with ghost flush and water saver mode
- Keeps working even when the batteries are drained since there is a manual back up



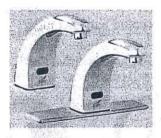
American Standard's FloWise® Flush-Free™ Waterless Urinals

- · Incorporates a bio-friendly odor barrier that prevents bacterial growth and prevents odor
- Lasts 15,000 cycles before maintenance is required ten times longer than competitors resulting in cost savings in labor hours, besides the obvious water savings
- Unique chinaware design eliminates potential pooling
- Industry's largest waterless urinal trapway prevents build-up in the waste line
- · Feature streamlined European styling
- Available in three sizes



Touch Free Soap/Sanitizer/Lotion Dispensers

- · Eliminate cross contamination
- Saves 80% on solution usage Dispenses 1 milliliter of solution
- Three dispensers to choose from in Gel or Foam
- OSHA and the ADA recommended for businesses
- · All dispensers are universal and can use many different types of soaps, sanitizers, and lotions
- · Solutions sold separately



Touch Free Faucets

- Eliminate cross contamination
- · Save 70% on the use of water
- Several options to choose from
- AC/DC or self powered with available hydro generator
- · Patented BRV motor drive system cannot be affected by hard water build-up
- Optional thermo mixing valve delivers tempered water

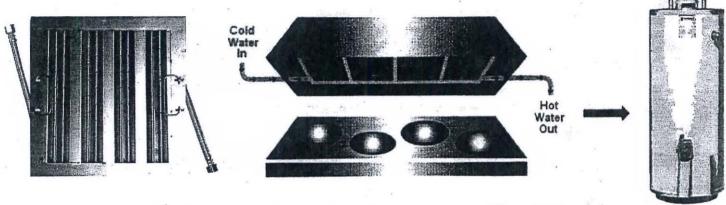


BluStorm Touch Free High Speed Dryers

- · Turns on and off automatically when hands are put under dryer and removed
- · High speed airflow dries hands in less than 10-15 seconds
- 95% cost savings versus paper towels (accounting for electricity usage)
- 70% cost savings versus conventional hand dryers
- Power cut off automatically in case of irregular use over 60 seconds
- 5 year warranty

THEAT CAPTURE SYSTEMS

Recycle Hood Exhaust Heat and Save 25% Off Your Monthly Gas Bill!



Dramatic Cost Savings with Green Benefits

- Provides 80% of all the hot water needed by a restaurant
- Cuts approximately 25% off of your monthly gas bill
- · Provides immediate savings and payback when leased to own

Monetary Savings

6 Filter System with Tank and Pump	\$6,725.00	
Estimated Installation and Plumbing	\$900.00	
Est. Monthly Savings from Hot Water Bill		\$416.00
Est. Monthly Savings from Hood/Roof Cleaning		\$50.00
GROSS SAVINGS PER MONTH		\$466.00
Lease to Own Payments (60 Months)	\$181.00	
NET SAVINGS PER MONTH		\$285.00
Cash Purchase Payback Period in Months		18.3
Cash Purchase 5 Year Return on Investment		328%
Additional Tax Credits and Energy Efficiency Rebates may apply.	2 * *	
Environmental Savings		Per Year
Natural Gas Therms Saved		6714

Simple Design

- · Replaces conventional grease filters
- No hood alterations required
- · Potable water flows through filters
- · Preheats water for the water heater
- System turns on/off with hood on/off
- · Easily installed by licensed plumber
- Includes step by step instructions
- · Includes technical drawings for permits

Superior Grease Collection

- UL requires 4 to 1 weight capture ratio
- Heat Caps tested 3 times above standard
- · Less grease stays on filters
- · Less grease in hood
- · Less grease on roof
- Less CO2 emissions

Safe and Reliable

- UL Tested and Certified in US and CA
- Teflon® coated copper tubing
- · Patented technology
- · Invented by an Executive Chef
- Made in the USA



Distributed by:

Marth Brothers and Company

Equivalent Number of Trees Planted

Equivalent Number of Cars Taken Off Road

Pounds of CO2 Saved

For Orders and Inquires, Call: (866) 575-5950

78.595

26.8

Or Email: info@HeatCaps.com
Visit us at: www.HeatCaps.com

W QFS

Cost and Savings Analysis

Going Green Is Good Business for Restaurants

V	Equipment	Qty	Price	Install	Rebate	Total	Est		Net
	Thermo Recovery 4 Filter System	1	6600.00	2700.00	0.00	\$9,300.00	354.00	212.00	\$142.00
leat			0.00	0.00	0.00	\$0.00		0.00	\$0.00
_			0.00	0.00	0.00	\$0.00		0.00	\$0.00

^{*}Savings estimates based on information from water and/or gas bill. Savings achieved by reducing temperature rise required by water heater.

	Auto Faucet w/thermo mix & regen	4	647.00	50.00	0.00	\$2,788.00	77.44	63.57	\$13.88
oms	Auto Flush Valve - Toilet	3	229.00	25.00	0.00	\$762.00	21.17	17.37	\$3.79
0	Auto Flush Valve - Urinal	2	229.00	25.00	0.00	\$508.00	14.11	11.58	\$2.53
Restr	Auto Soap Dispenser	4	99.00	25.00	0.00	\$496.00	13.78	13.64	\$0.14
Free	Fragrance Free Soap 4x1gal	2	99.00	7.00	0.00	\$212.00	5.89	5.83	\$0.06
uch F	BluStorm Hand Dryer	4	350.00	100.00	0.00	\$1,800.00	190.00	49.50	\$140.50
Tou	StepNPull Door Opener	2	35.00	13.00	0.00	\$96.00	0.00	2.64	-\$2.64
		1. 5	0.00	0.00	0.00	\$0.00		0.00	\$0.00

the state of the s								
7 Frylow™ Oil Saving Catalytic Filter	3	1000.00	0.00	0.00	\$3,000.00	328.95	68.40	\$260.55

Lights	Fixture or Bulb Type	Qty	Price	Install	Rebate	Total	Energy	Replacemen	Total
	65W>8W Dimm CC R30 Flood	12	20.00	0.00	5.00	\$235.00	22.98	14.11	\$37.09
	60W>8W Dimm CC A-19 Bulb	16	18.00	0.00	5.00	\$283.00	27.96	24.64	\$52.60
	48" T8 Linear Mounted Fixture	9	45.00	0.00	9.00	\$396.00	19.35	0.00	\$19.35
	48" T8 Conversion Kit	18	45.00	0.00	15.00	\$795.00	116.12	0.00	\$116.12
			0.00	0.00	0.00	\$0.00	0.00	0.00	\$0.00
			0.00	0.00	0.00	\$0.00	0.00	0.00	\$0.00

^{*}Savings based on 14 hrs/day usage and \$.08/KwH. Replacement savings based on purchase cost differences and labor costs of \$1/bulb change.

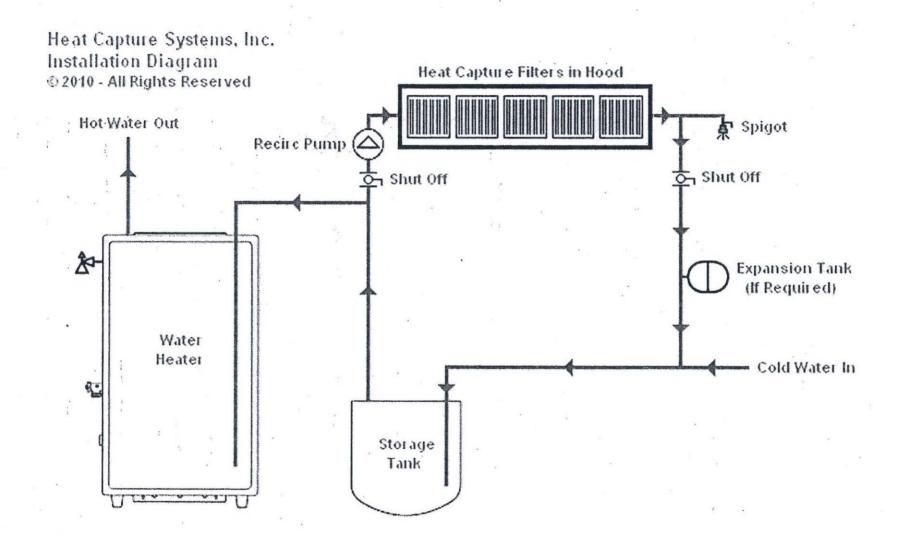
V	Equipment	Total	Est		Net
als	Leasable Total	\$18,962.00	1005.34	432.33	\$573.01
ota	Cash Total (Non-Leasable)	\$1,709.00	186.41		\$186.41
F	Total	\$20,671.00	1191.75	432.33	\$759.42

Cash Purchase Payback Period in Months:

17.35

Lease Term:

60 months



Natural Gas Savings - Nicor Custom Incentive Calculator

HEAT CAPS PROJECT COST ESTIMATE

ESTIMATED ANNUAL SAVINGS

Storage Tank	\$300	Water Usage From Water Bill (gallons)	90,000.0
Pump	\$200	Number of Days on Water Bill	30
Hood Filter Spacers	\$300	Est. % of Total Usage for Hot Water (Avg. 80-90%)	70%
Plumbing Supplies	\$300	Total Estimated Hot Water Gallons Used Monthly	63,000
Equipment Sub-Total	\$1,100		
		City Inlet Water Temperature (°F)	45
# of Filters Needed	6		
Cost per Filter	\$1,000	Hot Hood Temperature	150
Cost per hose and quick connect	\$100	% of Temperature Recovered	80%
Total Filters Cost	\$6,600	TRS Inlet Water Temperature (°F)	120
# of Plumber Hours Needed for install	20	Desired Hot Water Temperature (°F)	140
Cost Per Plumber Hour	\$80		
Total Plumbing Cost	\$1,600	Average Cost Per Therm	\$0.71
الا تعدد الله الله الله الله الله الله الله ال	8 *	Annual Water Heating Cost Without Heat Caps	\$4,256
*		Annual Water Heating Cost With Heat Caps	\$896
TOTAL PROJECT COST	\$9,300	TOTAL ANNUAL SAVINGS	\$3,360

Nicor Incentive is \$.75/therm if under 7500/year, \$1.00/therm if over 7500/year, capped at 30% of Project Cost. Payback must be greater than 12 months.

Payback Period in Months	33.2	First Year Therm Savings	4731.8
30% of Project Cost Cap	\$2,790	Incentive Dollar Amount Per Therm	\$0.75
		NICOR THERMS SAVINGS INCENTIVE	\$3,549

NICOR TOTAL INCENTIVE AMOUNT \$2,790



Heat Capture Systems Calculator

Going Green Is Good Business for Restaurants

HEAT CAPS COST ESTIMATE

ESTIMATED MONTHLY SAVINGS

# of Filters Needed	6	Water Usage From Water Bill (gallons)	90,000.0
Cost Per Filter with Hose and Connector	\$1,100	Number of Days on Water Bill	30
Filter and Connector Cost	\$6,600	Est. % of Total Usage for Hot Water (Avg. 70-80%)	70%
		Total Estimated Hot Water Gallons Used Monthly	63,000
Storage Tank	\$300		
Pump	\$200	City Inlet Water Temperature (°F)	45
Hood Spacers	\$300		
Pipe and Fittings	\$150	Average Measured Hot Hood Temperature (°F)	150
Gauges and Valves	\$150	% of Temperature Recovered	80%
Installation Kit Cost	\$1,100	Heat Capture Filters Water Temperature (°F)	120
# of Plumber Hours Needed for install	20	Desired Hot Water Temperature (°F)	140
Plumber Cost Per Hour	\$80	#	
Plumbing Estimate	\$1,600	Average Cost Per Therm	\$0.71
TOTAL SYSTEM COST	\$9,300	Monthly Hot Water Cost Before	\$355
Less Tax Credits and Utiliy Rebates	\$2,340	Monthly Hot Water Cost With Heat Caps	\$75
TOTAL COST ESTIMATE	\$6,960	HEAT CAPS MONTHLY SAVINGS	\$280
If paid by cash		If paid using a \$1 buyout lease	
PAYBACK PERIOD IN MONTHS	24.9	Lease Term in Months	60
5 YEAR RETURN ON INVESTMENT	241%	Less Monthly Lease Payment	\$220
		IMMEDIATE NET MONTHLY SAVINGS	\$60

Thank you for your interest in the Frylow™. MBC is excited to introduce this new product in the United States after years of use in Japan and Canada. First and foremost, the Frylow™ has been approved and certified as safe by NSF® International and Food and Drug Administration (FDA)



The Frylow™ is a device that inserts directly into a commercial deep fryer. It has a perforated stainless steel case filled with 3 types of ceramic balls or spheres. These spheres use principles of physics to act on the oil molecules but do not change the oil chemically at all.

lonic Spheres use a negative ion count to suppress the tendency for heated oil molecules to bond together, thus lowering the viscosity of the oil and increasing its ability to conduct heat.

Anti-Oxidation Spheres use titanium reduction photo-catalytic technology to enhance the performance of the ionic spheres and to de-fragment the fat and oil molecules. They also contain anti-bacterial and anti-mold properties.

Infrared Spheres use far-infrared radiation to raise the heat transfer properties of the oil which allows for reduced temperature frying and shorter cooking time.

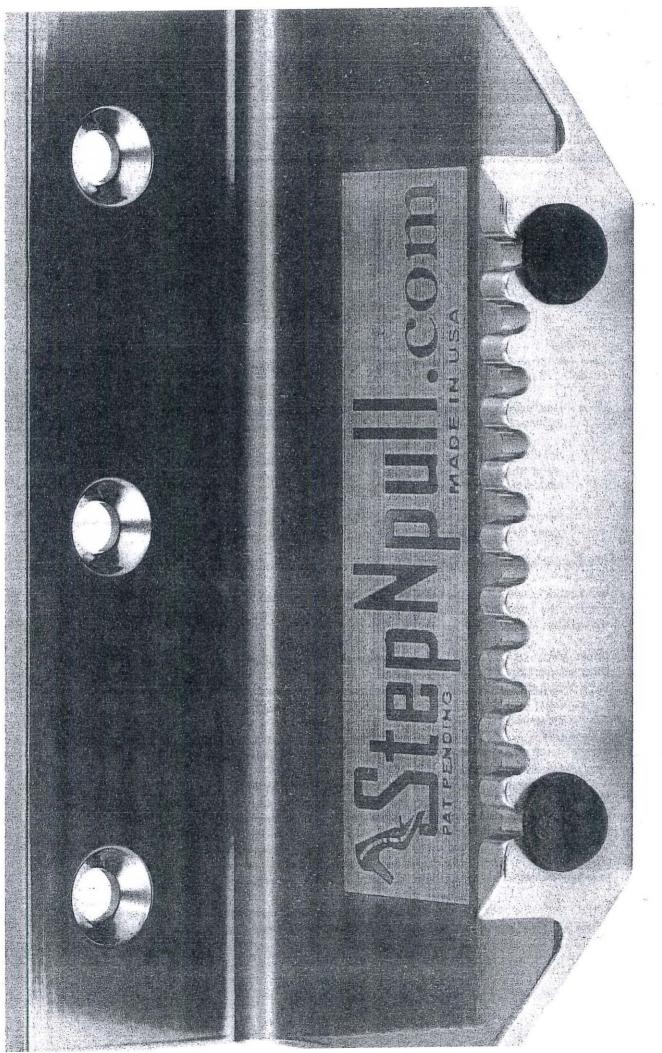
The combination of the spheres interaction with the oil and the reduced frying temperature allows the oil to last up to 150% longer. For most people, this cuts their oil costs in half. Since the spheres are all of solid composition, with no coating to wear off, the Frylows™ come with a 3 year limited warranty. The only maintenance to be done is to rinse the unit with hot water when the oil is changed to remove particulates and allow the oil to flow freely through the unit.

Oil cost savings are only one of the benefits of using the Frylow™, albeit probably the most important these days. Other benefits to consider are:

- Up to 30% less calories, better tasting, less greasy fried food due to reduced absorption of oil
- Lower fryer temperature provides natural gas energy savings, is safer, and requires less energy for cooling the air in the kitchen
- Less oil use has a profound effect on the global food supply (using less grain, water, land, and fertilizer)
 and an environmental impact (reducing diesel fuel consumption and exhaust, deforestation, insecticides,
 and CO₂ emissions)
- Changing the oil less often reduces labor costs and chances for accidents

Many of our customers have been skeptical of a device that costs much less per month than it saves. Of course it sounds too good to be true, but actually it is just a function of low financing rates versus high cost savings. We are careful not to use words like "magic" or "miracle". The Frylow™ is just good science creating better technology. Because of the natural skepticism, we work closely with our customers offering them a free trials so that the Frylow™ can prove its cooking and cost saving abilities. The results have been incredible and our customers couldn't be happier. Our references are growing daily.

We look forward to helping you save money and go green in your restaurants and we invite you to check out our website at www.mbcgreen.com and the Frylow website at www.mbcgreen.com and the first way and the first



Great Escape
ON IRVING, INC.

GOING GREENER

With MBC Green Solutions from Quality Filter, Inc.

We've added:

★ Frying Oil Saving Devices

Double the life of the frying oil by reducing breakdown and improving the heat transfer so that food cooks at a lower temperature thus reducing natural gas usage and air conditioning. Better oil quality allows fried foods to be less greasy with less calories. Less oil used means less farmland required, less water, less fertilizer, less insecticide, less diesel fuel for shipping, less carbon emissions, etc.



Energy Efficient Lighting

We are using the latest cold cathode and fluorescent technology to cut our lighting energy use to about a fourth of what it was before. In addition, these lights last about 10 times longer so we reduce the amount of packaging and waste that we create.

A Heat Recovery Hood Filters

Our cook line heat is recycled and used to heat water for the dishwasher and the entire restaurant. By sending preheated water to our water heater, we are able to cut our natural gas usage by more than 25%. These filters are also more efficient at capturing grease from the hood exhaust so we reduce our carbon emissions. The Great Escape is one of the first restaurants in the country to install these heat recovery hood filters.

▲ Touch Free Faucets and Flush Valves

The touch free faucets and flush valves that we have installed not only provide a more sanitary restroom experience, they will reduce our overall water usage by more than 10% and will prevent accidental running water.

Automatic High-Powered Hand Dryers

These powerful hand dryers dry your hands in just a few seconds and allow us to eliminate using paper towels. This not only reduces our demand on natural resources, but it also reduces the amount of waste that we produce. For those of you who used the paper towels to open the door, we have installed a Step-n-Pull at the bottom of the door so that you can use your shoe to open the door rather than your hands.

We hope that you appreciate our efforts in sustainability.

Drop us an email at Info@GreatEscapeRestaurant.com.

QUOTATION # A6-1963 DATE: 09-29-2010 PAGE = 1************************** *** GATEWAY ELECTRICAL SALES CO., INC. Phone: 314-842-4374 *** 9120 Watson Rd. Fax:314-842-3850 *** St. Louis, MO 63126 Project: THE IRISH PATRIOT THE IRISH PATRIOT 9875 W 143RD ST Bid Date: ORLAND PARK, IL Engineer: Architect: Contract: Specifier: Remarks: Qty Type Mfg Description Unit Price Extd.Price CF WET LED PAR GOOSENECK 335.96 \$2351.72 LED/ MR16-FL-30 DOWN 21 LIGHT 100.00 \$2100.00 18 LED CANOPY 223.60 \$4024.80 LIGHT FOREST GREEN LEDP-3X2WPAR20/60D/65K/C/DIM 8 WSS-0326-B-334.83 \$2678.64 FLOUR WALL PACK 10 SY920-232-B11-88.76 \$887.60 UNV LOW PRO T8 WRAP

PLUS TAX AND FREIGHT

LED EXIT W/ BATT BACKUP

SLEDBRW

Total \$13013.56

F.O.B. Per MFG WEEKS

\$970.80

Terms: Net 30 Days Lead time: 4-6

121.35

Prices firm for entry by: 11-13-10

Shipment by: 12-08-10

Subject to manufacturer's published terms and conditions of sale.

Quotation is void if changed.

Quotation is subject to specifier approval.

Printed 09/29/10 09:20:41

Per: JASON WILL

PLEASE NOTE OUR NEW ADDRESS AND NUMBERS

Jason Will Gateway Electrical Sales, Inc 1724 A Westpark Center Dr Fenton, MO 63021 Ph: 636-600-1010

Fx: 636-600-1016

QUOTE

September 23, 2010

Business Name: The Irish Patriot	Business Phone: 708-403-5575	708-81	e: 4-1173
Street Address: 9875 W 143 rd St	City: Orland Park	State:	Zip:
Buyer Name:			

Quote (good for 30 days from presentation)

Item(s) / Service(s)	Qty	List Cost/Each	Total
CF Wet 42W gooseneck light with led par 30 bulb	7	299.00	\$2,093.00
LEDP/PAR30LN-FL-30K (for out side signage)			
LEDP/MR16-FL-30K/ can light	41	89.00	\$3,649.00
F13 Forest Green LED canopy light with	36	\$199.00	\$7,164.00
LEDP-3X2WPAR20/60D/65K/C/DIM		*	
WSS0326-U*(b) florescent wall-pack with photo sensor	8	\$298.00	\$2,384.00
Sy920-232-b11-UNV Low profile wrap around T-8 /2 lamp	10	\$99.00	\$990.00
Exit sign simkar12" X 7.5" SLEDBRW LED EXIT W/BATTERY BACKUP Emergency Lights	8	\$108.00	\$864.00
Sub Total			\$17,144.00
Sales Tax			\$1,285.80
Grand Total			\$18,429.80

Payment Method

Check (payable to Quality Filter Service)

Purchase Agreement

QFS Representative Signature:	QFS Representative Printed Name:	Date: *
Michael Holmes	error of the contract of the c	9-23-10
Customer Representative Signature:	Customer Printed Name	Date:
X		

^{***}installation includes hanging and electrical to 6 feet, permits by others

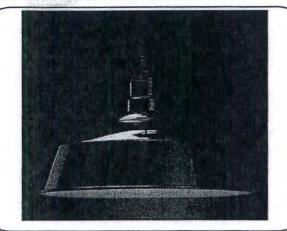
TMSLIGHTING

Q2P (Quick Ship)



Type:

Quantity:



Application:

Indoor application pendant. Drop cord mount

Construction:

Aluminum construction with polyester powder coated finish.

Lamping:

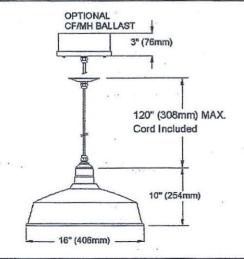
Available with incandescent, metal halide, fluorescent and soon to be available LED lamping options.

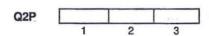
Ballast:

Electronic ballast supplied with (RFI circuit for fluorescent only). 120-277 multi-volt for North America. Consult for 347V or European voltages.

Finishes:

Available with polyester powder coat and painted finishes. Custom and RAL colors also available.





1.PN A 1 xIN150w (100w max when used w/globe)

B 1 xCF26w PL-T

C 1 xCF32w PL-T

D 1 xCF42w PL-T

E 1 xMH70w ED-17

2.Voltages 1 120V

3.Finishes

2 277V

F05 White

F10 Fire Red

F13 Forest Green

F15 Matte Black F16 Gloss Black

F31 Silver Metallic

* For alternate finishes contact your local TMS Lighting representa-

Quick Ship:

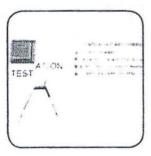
5 Day lead time. Items ship within 5 business days of receipt of purchase order. Subject to availability.







Also available in Spanish (SALIDA)



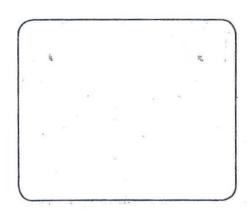


Self-Diagnostic (SD) option available

SLED Series Ordering Information

 SLED
 A = AC
 G = Green
 B = Black
 (Blank) = Exit
 2 CIRCUIT = Dual Gravit

 B = Battery Backup
 R = Red
 W = White
 SALIDA = Salida
 SD = Self-Diagnostic





Rack plate mount



LED Exit Light illuminated by long lasting, ultra-efficient light emitting diodes, is inexpensive to operate and virtually maintenance-free.



Self-Diagnostic (SD) option available

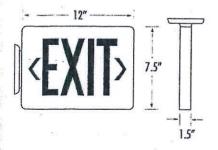


Back plate mount



Canopy mount

Dimensions



Housing

Injection-molded, V-O flame retardant, high-impact, thermoplastic low profile housing, white or black finish.

Provided with two faces and back plate as standard. ADA compliant for flush mounting.

Illumination

Energy efficient red or green LED with life of 25 years plus — energy consumption of less than 3 watts!

Options

Self-Diagnostic (option SD) continuously diagnoses unit performance and tests system (15-minute buttery discharge every 30 days and 90-minute full discharge every 12 months) to ensure reliable operation and to meet electrical and life safety codes.

Battery

Emergency battery backup (option B) equipped with 4.8V nickel-cadmium, maintenance-free, rechargeable battery.

Transfer/Charging Circuitry

Internal solid-state transfer switch automatically connects the internal battery to lamp heads for minimum 90-minute emergency illumination.

Fully automatic solid-state, two-rate charger initiates battery charging to recharge a discharged battery in 24 hours (battery back up units).

Electrical

Dual 120/277V voltage.

Dual circuit operation (option 2CIRCUIT) provides two transformers to meet special code requirements. (AC units only)

Charge rate/power on LED indicator light and pushto-test switch for mandated code compliance testing.

LVD (low voltage disconnect) prevents battery from deep discharge.

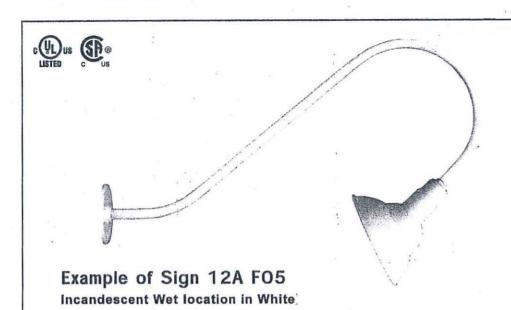
UL, C-UL (tested to C860), and ETL Damp location listed. Salida signage is ETL listed. Meets UL924, NFPA 101 Life Safety Code, and NEC requirements.

Mounting

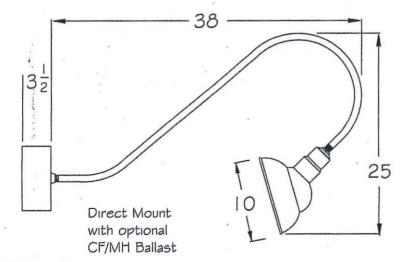
Side, top, or back mounting with universal mounting canopy or easy connect back plate, which fit most standard junction boxes.

Warranty

Five year warranty on all electronics and housing.



Ballast enclosure not included



Sign 12

Alternate configurations available.
CF - Compact Fluorescent
MH - Metal Halide

See Color Chart for alternate Finishes

Visit www.tmslighting.com for updates and to view in color.





Direct Mount Ballast	Product Number	Description Ballast location	Wattage	Voltage
	12A	Incandescent Ballast Enclosure		
	12B	CF Dry/Damp	42W	120 to 277
	12C	CF Wet	42W	120 to 277
	12D	MH Dry/Damp	100W	120 to 277
	12E	MH Wet	100W	120 to 277

Remote Ballast	Product Number	Description Ballast location	Wattage	Voltage
	12H	CF	42W	120 to 277
	12J	CF Wet	42W	120 to 277
Ma	12K	MH Core & Coil	100W	-120/277/347
,	12L	MH Wet Core &	100W	120/277/347

Proprietary and Confidential
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is the sole property of TMS Lighting Ltd.
Any reproduction in part or as a whole
without the written permission of
TMS Lighting Ltd. is strictly prohibited.



Lamp included in all CF and MH combinations Complete with cover plate, leads and socket

Material: NONE	Date: 01/05/2004	Size: A	DWG No.	Sign	12	Rev 3
Finish: NONE	Drawn By: EW - Rev O	1/07	Not to S	cale	Sheet 1	of 1



LEDP/PAR30LN-FL-30K

PAR30 12W Power LED 3000k 120 Degree

Specifications	
item.	LEDP/PAR30LN-FL-30K
Bar Code	05735
Volts	120-240VAC
Watts	12
Lumens	260
MOL in/mm	121mm
MOD in/mm	90mm
AvgLife	50,000
Bulb	PAR30LN
Base	Medium Screw (E26)
Special Desc	Operates on universal voltage of 100 to 240Volts. Do not Dim. Indoor Locations Only.
CT deg K	3000
Photo No	652
Beam Angle	120
CRI	60
Led Type	Power
Emitted Color	Warm White





LEDP-3X2WPAR20/60D/65K/C/DIM

PAR20 LED 3X2W 60D 6500K CREE CHIP DIMMABLE

Specifications	
ltem	LEDP-3x2WPAR20/60D/65K/C/DIM
Bar Code	06834
Volts	120VAC
Watts	4
Lumens	300
MOLin/mm	97mm
MOD in/mm	63mm
Avg Life	30,000
Bulb	PAR20
Base	Medium Screw (E26)
Special Desc	Dimmable down to 5%.
CT deg K	6500
Photo No.	787
Beam Angle	60
CRI	75
Led Type	Power
Emitted Color	Cool White



Housing

Die-formed heavy gauge steel with high-gloss, baked white enamel finish over rust inhibiting phosphate coat. Standard white ends are injection molded. Knockouts provided.

Shielding

Clear DR acrylic prismatic lens; smooth white also available. Lens hinges from either side.

Electrical

Fully wired for UNV 120-277V, 50-60Hz operation with thermally protected, automatic resetting Class P, sound rated A ballast as standard unless otherwise specified. UL listed damp location.

Mounting

Ceiling surface mount individual or continuous row (with CR bands). Only one CR band supplied with every tandem unit. For continuous row mounting, additional CR bands are needed. Tandem two-lamp model available. Use stabilizer bracket kit for four-lamp pendant hung models.

SY920 Low Profile Wraparound utilizes a shallow 3 1/4" housing. Self-spacing unit is suitable for low-density cellulose fiberboard ceilings.

Continuous Row Mounting



Dimensions

30

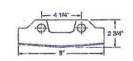
CR Band

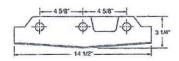
SY920 Series Ordering Information

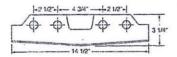
5Y920 = prismatic lens (standard)	2	14 = 14W 24" T5
SW920 = smooth white lens	3	17 = 17W 24" T8
	4	20 = 20W 24" T12
	22 = Tandem, 4 lamps	24 = 24W 24" T5H0
		25 = 25W 36" T8
		28 = 28W 48" T5
		32 = 32W 48" T8
		40 = 34 or 40W 48" T12
	9 5	54 = 54W 48" T5H0

SR = Specular reflector	B5	For 3 and 4 lamp units	UNV = 120-277V
ELST = Emergency Lighting (low lumens)	BI1 = Electronic T8	Blank = dual ballasts	120 = 120
ELS2 = Emergency Lighting (medium lumens)	BITHP(x) = HPT8"	3L = (1) 3-lamp ballast	277 = 277V
ELS3 = Emergency Lighting (high lumens) NOTE: 3 lamp models require low profile	B12 = Electronic T5 B22 = LPF T8/T12	4L = (1) 4-lamp ballast	
emergency ballast		For 2 lamp units	
		Blank = single ballast	
		2/1L = (2) 1-lomp bollasts	

*CEE listed T8; specify (L)ow, (N)ormal, or (H)igh ballast factor. Contact factory for NEMA Premium.







CR = Continuous row mounting band STBK - Stabilizer Bracket Kit

ENERGY SAVING T8 LAMPS

Four Foot • 28 Watt • CEE Compliant





 CEE Compliant
 3100 lumen output meets energy effiency standards

TCLP Compliant
 Meets standards for reduced environmental impact

- Energy Efficient
 Reduces power consumption by as much as 75%
- Top Quality Phosphors
 Ensures stable and constent light output
- Long Life
 Less frequent re-lamping reduces
 maintenance costs



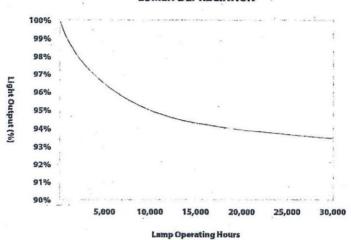
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ENERGY SAVING T8 LINEAR FLUORESCENT LAMPS

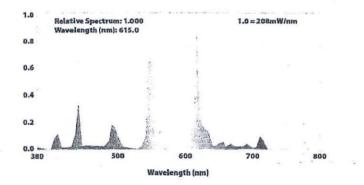
Appendix A - Charts

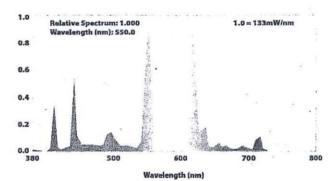
LUMEN DEPRECIATION



800 Series CRI - 3000° K

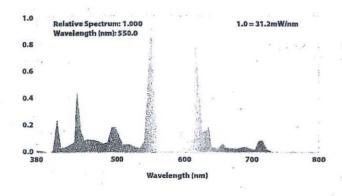
800 Series CRI - 3500° K

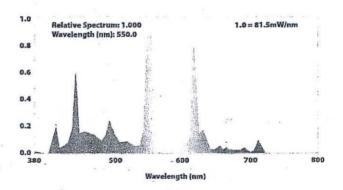




800 Series CRI - 4100° K

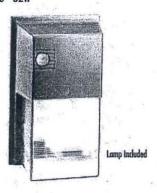
800 Series CRI - 5000° K







Wattage Range: HPS 35 - 70W CFL 13 - 32W



Economical and cost-effective to own and operate, the WSS Series Wallpacks are designed for both residential and commercial applications with mounting heights of 12' and below.

13W & 2-13W: 32°F Temperature Rated*

18 - 32W Quad: 20°F Temperature Rated*

(*minimum starting temperatures)

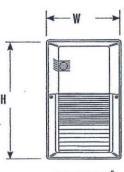






Dimensions

	Fixture	Fixture	Fixture	Approx.		
	Height	Width	Depth	Ship Wt.		
WSS Series	11"	6.9"	5.25"	5 lbs.		





Features

Housing

The compact WSS luminaire is weatherproof and rated for outdoor use. Features a cast aluminum base plate and a polycarbonate injection molded refractor. Housing is available in either bronze or white. Access to all internal components requires the removal of only two screws. Tamperproof screws are available.

Ballast / Lamp

The high-pressure sodium version of the WSS fixture is available in 35 - 70 watt utilizing a 120V NPF ballast and a medium based lamp. The 13 watt twin tube compact fluorescent design comes standard with a bi-pin lamp and a 120V NPF ballast, while the 18 - 32 watt version is supplied with a 4-pin lamp and a 120 or 277V electronic ballast.

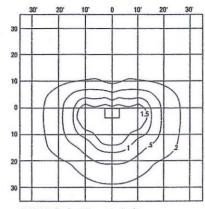
Mounting Options

The WSS Series can be surface mounted directly over a 4" recessed outlet box. Convenient conduit access on fixture base allows for easy surface mounting. Optional internal photocell is available. Recommended mounting height is 12' and below.

Photometric Data

(Isofootcandle Plots)

11" WSS



70W HPS Wallpack at 10' mounting height.

HPS-70 Watt/Clear

Mounting Height: 10' Number of Fixtures: 2 Lamp Lumens: 6,300

The WSS Series photometric data is based on a 70 watt dear HPS lamp rated at 6,300 lamp lumens. Footcandle values for other wattages are obtained by multiplying the chart values by the following factors:

Lamp/Wattage	Factor
70W HPS	1
50W HPS	.64
35W HPS	.36

Mounting Position	Wattage Lamp	Catalog Number
Wall	35W HPS	WSS0503-1*(b)
	50W HPS	WSS0505-1*(b)
The second second	70W HPS	WSS0507-1*(b)
	13W CFL	WSS0313-1*(b)
the same and all the same and	© 18W CFL	WSS0318-U*(b)
	€ 26W CFL	WSS0326-U*(b)
18 Supplementary and the la	© 32W CFL	WSS0332-U*(b)
	(2) 13W CFL	WSS0323-1*(b)

*See Voltage below

Voltage	Options (b) (Factory Installed)	Accessories: (Field Installed)
1 = 120V NPF only	B = Button Photocell	WSS-TS = Tamperproof Screws
U = 120-277 CFL	WT = White Housing	WSS-TSD = Tomperproof Screwdriver & Screws

LED MR16

3000K & 6000K • 38° & 60° beam angle



- Energy Efficient
 Costs less than other alternatives to operate over the life of the lamp
- Extreme Long Life
 Less frequent re-lamping reduces
 maintenance costs
- Environmentally Friendly
 No mercury or other hazardous substances reduces environmental impact
- Heavy Duty Construction
 Shock and vibration resistant design increases lamp survivability
- Low IR/UV Emission
 Will not cause fading over time from exposure to IR or UV light



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3000K & 6000K * 38° & 60° E	Beam Angle	ntrack water with the management of the strategic	etanuluun attolium etureitoeus	CAN ENGLISHED STATES SALES AND	to a big more than a com-	THE RESIDENCE OF THE PROPERTY	POVERNO AND AND	and a market management of the latest	on have a subject on the	other transmitter
Ordering Code	Base	Volts	Watts	MOL in/mm	MOD ⊒in/mm	Emitted Color	CRI	Lumens	Life Hours	Beam Angle
LEDP/MR16-FL-60K	G5.3	12VAC/DC	5	1.95/50	50mm	cool white	70	180	50,000	60
LEDP/MR16-FL-30K	G5.3	12VAC/DC	5	1.95/50	50mm	warm white	70	160	50,000	60
LEDP/MR16-SP-30K	G5.3	12VAC/DC	5 .	1.95/50	50mm	warm white	70	160	50,000	38
LEDP/MR16-SP-60K	G5.3	12VAC/DC	5	1.95/50	50mm	cool white	70	180	50,000	38

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