ROSS DRESS FOR LESS

Property Development

June 20, 2000

Mr. Alan Vallow
City of Lodi
Electric Utilities Director
1331 South Ham Lane
Lodi, CA 95242

Re.: ROSS DRESS FOR LESS
340 West Kettleman Lane Lodi, CA

Dear Alan:

Ross Dress For Less is requesting $15,869.75 from the city of Lodi's Public Benefits Program grant fund. This will be utilized to supply seven high efficiency air conditioning units as well as energy efficient lamps, ballasts and exit signs.

Ross will use the above listed equipment in its upgrade of the Lucky's grocery store that formerly occupied this space. We install such equipment to minimize the consumption of energy resources and to ensure optimal comfort for our customers and employees. The attached equipment information and costs are provided at the request of Mr. Rob Lechner, Manager of Customer Programs.

Ross Stores, Inc. operates a national chain of off-price retail stores offering first quality, in-season, branded apparel and apparel-related merchandise for the entire family.. The average store features about 29,000 gross square feet in a self-service, easy-to-shop format that is conveniently located in neighborhood shopping centers.

Ross looks forward to beginning its operations in the city of Lodi and appreciates your consideration of this request. If you have any questions, please do not hesitate to contact me at 510.505.4839.

Respectfully,
Ross Stores, Inc

Michael Rost
Construction Manager

cc: R. Lechner, City of Lodi
J. Haskins
File

attachments

RECEIVED
MAY 04 2000
ROSS STORES
CONSTRUCTION DEPT

Lennox National Accounts Quotation

March 28, 2000

ROSS D.F.L. **LODI, CA**

Plan ID Quantity	Description	Material
AC-1		
1	LGA088H Package Gas Unit (7.5 Tons)	LGA088H-PKG
1	Unit Orientation: Downflow	
1	460 Volt/3 Ph	(Factory)
1	2 Hp Std. Efficiency Blower Motor	(Factory)
1	Drive Kit 1	(Factory)
1	125KBTU Alum. Steel (Dual Stage)	(Factory)
1	Global Economizer	(Factory)
1	Downflow Gravity Exhaust	(Factory)
1	Novar ETM-2051 Kit	(Factory)
1	Rm. Sensor for Novar	97H53
1	14 inch Downflow Curb	17L53
1	Return Air Smoke Detector	(Factory)
1	Supply Air Smoke Detector	(Factory)
1	80 Amp Disconnect	(Factory)
1	GFCI (Field Wired)	(Factory)
1	Burglar Bars 3/4" L 088-100S	65N02
AC-2		
1	LGA036H Package Gas Unit (3 Tons)	LGA036H-PKG
1	Unit Orientation: Downflow	
1	460 Volt/3 Ph	(Factory)
1	.75 Hp Direct Drive Blower Motor	(Factory)
1	78KBTU Alum. Steel (Single Stage)	(Factory)
1	Manual Outdoor Air Dampers	(Factory)
1	Novar ETM-2051 Kit	(Factory)
1	Rm. Sensor for Novar	97H53
1	14 inch Downflow Curb	45J19
1	80 Amp Disconnect	(Factory)
1	GFCI (Field Wired)	(Factory)
1	Burglar Bars 3/4" L 036-072	44N17
AC-3		
1	LGA156H Package Gas Unit (13 Tons)	LGA156H-PKG
1	Unit Orientation: Downflow	

We are pleased to provide the attached project quotation. If you have any questions or need additional information, please feel free to call our office.

Project Nbr: **U603Q260KO-01**
Prepared By: **sdf00**

Lennox National Accounts Quotation

March 28, 2000

ROSS D.F.L. **LODI, CA**

Plan ID Quantity	Description	Material
1	460 Volt/3 Ph	(Factory)
1	2 Hp Std. Efficiency Blower Motor	(Factory)
1	Drive Kit A	(Factory)
1	169KBTU Alum. Steel (Single Stage)	(Factory)
1	Global Economizer	(Factory)
1	Downflow Gravity Exhaust	(Factory)
1	Novar ETM-2051 Kit	(Factory)
1	Rm. Sensor for Novar	97H53
1	14 inch Downflow Curb	16K87
1	Return Air Smoke Detector	(Factory)
1	Supply Air Smoke Detector	(Factory)
1	Circuit Breaker 40 Amps	(Factory)
1	GFCI (Field Wired)	(Factory)
1	Burglar Bars 3/4" L 156-240	44N20
AC-4,6		
2	LGA120H Package Gas Unit (10 Tons)	LGA120H-PKG
2	Unit Orientation: Downflow	
2	460 Volt/3 Ph	(Factory)
2	3 Hp Std. Efficiency Blower Motor	(Factory)
2	Drive Kit 1	(Factory)
2	130KBTU Alum. Steel (Dual Stage)	(Factory)
2	Global Economizer	(Factory)
2	Downflow Gravity Exhaust	(Factory)
2	Novar ETM-2051 Kit	(Factory)
2	Rm. Sensor for Novar	97H53
2	14 inch Downflow Curb	53K50
2	Return Air Smoke Detector	(Factory)
2	Supply Air Smoke Detector	(Factory)
2	80 Amp Disconnect	(Factory)
2	GFCI (Field Wired)	(Factory)
2	Burglar Bars 3/4" L 090-150	44N19
AC-5,7		
2	LGA180H Package Gas Unit (15 Tons)	LGA180H-PKG
2	Unit Orientation: Downflow	
2	460 Volt/3 Ph	(Factory)
2	3 Hp Std. Efficiency Blower Motor	(Factory)
2	Drive Kit A	(Factory)
2	260KBTU Alum. Steel (Dual Stage)	(Factory)
2	Global Economizer	(Factory)
2	Downflow Gravity Exhaust	(Factory)

We are pleased to provide the attached project quotation. If you have any questions or need additional information, please feel free to call our office.

Project Nbr: **U603Q260KO-01**
Prepared By: **sdf00**

Lennox National Accounts Quotation

March 28, 2000

ROSS D.F.L. LODI, CA

Plan ID Quantity	Description	Material
2	Novar ETM-2051 Kit	(Factory)
2	Rm. Sensor for Novar	97H53
2	14 inch Downflow Curb	16K87
2	Return Air Smoke Detector	(Factory)
2	Supply Air Smoke Detector	(Factory)
2	Circuit Breaker 45 Amps	(Factory)
2	GFCI (Field Wired)	(Factory)
2	Burglar Bars 3/4" L 156-240	44N20

Notes:

- **This quotation is contingent upon the successful contractor meeting all of Lennox Industries standard terms and conditions including satisfactory credit arrangements.**
- **Prices contained in this quotation are firm for a period of 30 days from bid date and are subject to change after that period without notice.**
- **All past due accounts may be subject to a service charge of one percent (1%) per month.**
- **All sales of special order and configured products are final. Returns will not be allowed.**
- **All accessories are field installed unless specifically indicated.**
- **Order cancellation within 15 days of scheduled ship date will result in a restock charge on all units containing factory installed options.**

- **CONTRACTOR TO VERIFY VOLTAGE.**
- **FREIGHT PREPAID TO FIRST DESTINATION.**
- **EQUIPMENT OPERATIONAL CHECK (EOC) INCLUDED.**

- **ANY ITEMS NOT SPECIFICALY LISTED, ARE NOT INCLUDED.**

JOB TOTAL SELL PRICE (Tax Not Included):	$47,951.00

We are pleased to provide the attached project quotation. If you have any questions or need additional information, please feel free to call our office.

Project Nbr: U603Q260KO-01
Prepared By: sdf00

AMERICAN WHOLESALE LIGHTING

Job Name: Ross /Lodi, Ca.

Date: 6/5/00

Bill to: Ross Dress For Less

Ship To: Ross Dress For Less
West Lane Shopping Center
340 W. Kettleman Lane
Lodi, Ca., 95240

Qty	Manufacturer	Item Number	Description	Unit price	Extension
343	Magnatek	B232I277RH	1 or 2 -Lamp electronic T8 ballast 277V	$16.00	$5,488.00
292	Magnatek	B432I277RH	4-Lamp electronic T8 ballast 277V	$19.45	$5,679.40
7	Surelites	CX-7170-G	LED exit sign	$116.35	$814.45
1917	Osram	FO32/735 (21823)	4' Fluorescent lamp	$1.85	$3,546.45

Sales tax is not included

Total $15,528.30

41400 Christy Street • Fremont, CA 94538
(510) 252-1088 (510) 252-1090 FAX
(800) 253-6736

Lennox Industries, Inc.
Product Submittal

March 28, 2000

ROSS D.F.L. **LODI, CA**

Project Information: **U603Q260KO-01**
ROSS D.F.L.
LODI, CA

Prepared By: **sdf00**

We are pleased to provide the attached project submittal. If you have any questions or need additional information, please feel free to call our office.

Table of Contents

Plan ID	Quantity	Description	Page
AC-1	1	LGA088H Package Gas Unit (7.5 Tons)	**3**
AC-2	1	LGA036H Package Gas Unit (3 Tons)	**6**
AC-3	1	LGA156H Package Gas Unit (13 Tons)	**8**
AC-4,6	2	LGA120H Package Gas Unit (10 Tons)	**11**
AC-5,7	2	LGA180H Package Gas Unit (15 Tons)	**14**

Unit ID: AC-1

SPECIFICATIONS AND RATINGS
Packaged Cooling & Gas Heating

Model number	LGA088H Package Gas Unit (7.5 Tons)
Sound rating number (db)	86.0

HEATING

Heat source	Natural Gas
Gas supply pressure	7.0 (in. W.C.)
Gas supply connection	0.75 (in.)
Heating capacity input (low stage)	83,000 (Btuh)
Heating capacity output (low stage)	66,000 (Btuh)
Heating capacity input (high stage)	125,000 (Btuh)
Heating capacity output (high stage)	100,000 (Btuh)
AGA-CGA thermal efficiency	80.0

COOLING

ARI gross cooling capacity	90,000 (Btuh)
ARI net cooling	85,000 (Btuh)
ARI total unit watts	8,330
ARI EER (Btuh/Watts)	10.2
Entering evaporator dry bulb temperature	80.0 (deg F)
Entering evaporator wet bulb temperature	67.0 (deg F)
Outside air dry bulb temperature	95.0 (deg F)
Gross cooling capacity	85,650 (Btuh)
Sensible cooling capacity	58,670 (Btuh)
Leaving evaporator dry bulb temperature	55.9 (deg F)
Condensate drain size	1.00 fpt (in.)
Refrigerant type	HCFC-22

BLOWER PERFORMANCE

Blower air volume	2,250 (CFM)
External static pressure	0.60 (in. W.C.)
Required blower motor including wet coil	1.04 (hp)
Nominal blower motor	2.0 (hp)
Required RPM	938
RPM range	845 - 1130
Air filter quantity	4
Air filter length x width	18 x 20 (in.)
Air filter thickness	2 (in.)

ELECTRICAL

Power supply	460 V 3 Phase
Unit operating range	+ or - 10%
Compressor RLA (total)	12.8
Condenser fan motor watts	550
Condenser fan full load amps (total)	1.5
Recommended maximum fuse (amps)	25
Unit minimum circuit ampacity	20.0

DIMENSIONS

Dimensions	44.8125(h) x 47.75(w) x 99.25(d) (in.)
Down-flo supply air opening	15.0(l) x 28.0(w) (in.)
Down-flo return air opening	15.0(l) x 28.0(w) (in.)
Horizontal supply air opening	15.0(h) x 28.0(w) (in.)
Horizontal return air opening	15.0(h) x 28.0(w) (in.)
Total installed unit weight	1,339 (lbs.)

EQUIPMENT FEATURES

Durable Outdoor Enamel Paint Finish
Unit Lifting Brackets
Pre-charged Refrigeration System
Expansion Valves
High Capacity Driers
Loss of Charge Switch
High Pressure Switch (Manual Reset)
Totally Enclosed Fan Motor
PVC Coated Fan Guard
Fan and Limit Controls
Factory Test Operated
Bonded for Grounding
Internal Pressure Relief Valve
Overload Protection
Crankcase Heater
Timed Off Control
Units will operate cooling down to 0 degrees F. (-17.7 degrees C.)
AGA-CGA Certified
Redundant Comb. Gas Control Valve
Electronic Flame Sensor
Direct Spark Ignition
Two Stage Gas Heating
Aluminized Steel Inshot Burners
Limited warranty on heat exchanger of 10 years
Limited compressor warranty of 5 years
Limited warranty on all other components of 1 year
See Warranty Certificate included with unit for specific details

FACTORY INSTALLED OPTIONS

Blower Motor - 2 Hp Std
Blower Drive Kit -1 (845-1130 RPM)
Gas Heating - 125K Btuh Aluminized Steel Tubular Heat Exchanger
Outdoor Air Supply - Global Economizer (FAC)
Exhaust -Downflow Gravity (FAC)
Return Air Smoke Detector- Factory Installed
Supply Air Smoke Detector- Factory Installed
Unit Disconnect 80 amps - Factory Installed
GFCI - Factory Installed/Field Wired

FIELD INSTALLED OPTIONS	**MATERIAL**
14 inch Downflow Curb	17L53

THERMOSTATS & CONTROLS ..... Material
FAC Novar ETM-2051 ..... Factory Installed
Rm. Sensor for Novar 97H53

Unit ID: AC-2

SPECIFICATIONS AND RATINGS
Packaged Cooling & Gas Heating

Model number ..... LGA036H Package Gas Unit (3 Tons)
Sound rating number (db) 82.0

HEATING

Heat source ..... Natural Gas
Gas supply pressure ..... 7.0 (in. W.C.)
Gas supply connection ..... 0.5 (in.)
Heating capacity input (high stage) ..... 78,000 (Btuh)
Heating capacity output (high stage) ..... 61,600 (Btuh)
AGA-CGA thermal efficiency 80.0

COOLING

ARI gross cooling capacity ..... 38,000 (Btuh)
ARI net cooling ..... 35,800 (Btuh)
ARI total unit watts 3,400
ARI EER (Btuh/Watts) 10.5
ARI SEER 12.0
Entering evaporator dry bulb temperature ..... 80.0 (deg F)
Entering evaporator wet bulb temperature ..... 67.0 (deg F)
Outside air dry bulb temperature ..... 95.0 (deg F)
Gross cooling capacity ..... 38,652 (Btuh)
Sensible cooling capacity ..... 33,761 (Btuh)
Leaving evaporator dry bulb temperature ..... 62.0 (deg F)
Leaving evaporator wet bulb temperature ..... 60.3 (deg F)
Condensate drain size ..... 0.75 fpt (in.)
Refrigerant type HCFC-22

BLOWER PERFORMANCE

Blower air volume ..... 1,738 (CFM)
External static pressure ..... 0.60 (in. W.C.)
Nominal blower motor ..... 0.75 (hp)
Speed Name ..... Low
Air filter quantity 2
Air filter length x width ..... 16 x 25 (in.)
Air filter thickness ..... 2 (in.)

ELECTRICAL

Power supply ..... 460 V 3 Phase
Unit operating range ..... + or - 10%
Compressor RLA (total) 5.8
Condenser fan motor watts 320
Condenser fan full load amps (total) 1.3
Recommended maximum fuse (amps) 15
Unit minimum circuit ampacity 11.0

DIMENSIONS

Dimensions	36.5(h) x 46.5(w) x 87.5(d) (in.)
Down-flo supply air opening	14.0(l) x 28.0(w) (in.)
Down-flo return air opening	14.0(l) x 28.0(w) (in.)
Horizontal supply air opening	14.0(h) x 28.0(w) (in.)
Horizontal return air opening	14.0(h) x 28.0(w) (in.)
Total installed unit weight	791 (lbs.)

EQUIPMENT FEATURES
Durable Outdoor Enamel Paint Finish
Unit Lifting Brackets
Pre-charged Refrigeration System
Expansion Valves
High Capacity Driers
Loss of Charge Switch
High Pressure Switch (Manual Reset)
Totally Enclosed Fan Motor
PVC Coated Fan Guard
Fan and Limit Controls
Factory Test Operated
Bonded for Grounding
Internal Pressure Relief Valve
Overload Protection
Crankcase Heater
Timed Off Control
Units will operate cooling down to 0 degrees F. (-17.7 degrees C.)
AGA-CGA Certified
Redundant Comb. Gas Control Valve
Electronic Flame Sensor
Direct Spark Ignition
Aluminized Steel Inshot Burners
Limited warranty on heat exchanger of 10 years
Limited compressor warranty of 5 years
Limited warranty on all other components of 1 year
See Warranty Certificate included with unit for specific details

FACTORY INSTALLED OPTIONS
Blower Motor - Direct Drive
Gas Heating - 78K Btuh Aluminized Steel Tubular Heat Exchanger
Outdoor Air Supply - Manual OAD (FAC)
Unit Disconnect 80 amps - Factory Installed
GFCI - Factory Installed/Field Wired

FIELD INSTALLED OPTIONS	**MATERIAL**
14 inch Downflow Curb	45J19

THERMOSTATS & CONTROLS	**Material**
FAC Novar ETM-2051	Factory Installed
Rm. Sensor for Novar	97H53

Unit ID: AC-3

SPECIFICATIONS AND RATINGS
Packaged Cooling & Gas Heating

Model number ..... LGA156H Package Gas Unit (13 Tons)

HEATING

Heat source	Natural Gas
Gas supply pressure	7.0 (in. W.C.)
Gas supply connection	1.0 (in.)
Heating capacity input (high stage)	169,000 (Btuh)
Heating capacity output (high stage)	135,000 (Btuh)
AGA-CGA thermal efficiency	80.0

COOLING

ARI gross cooling capacity	155,000 (Btuh)
ARI net cooling	150,000 (Btuh)
ARI total unit watts	13,000
ARI EER (Btuh/Watts)	11.5
ARI integrated part load value	12.6
Entering evaporator dry bulb temperature	80.0 (deg F)
Entering evaporator wet bulb temperature	67.0 (deg F)
Outside air dry bulb temperature	95.0 (deg F)
Gross cooling capacity	153,153 (Btuh)
Sensible cooling capacity	109,799 (Btuh)
Leaving evaporator dry bulb temperature	58.8 (deg F)
Leaving evaporator wet bulb temperature	57.1 (deg F)
Condensate drain size	1.00 fpt (in.)
Refrigerant type	HCFC-22

BLOWER PERFORMANCE

Blower air volume	4,800 (CFM)
External static pressure	0.60 (in. W.C.)
Required blower motor including wet coil	1.44 (hp)
Nominal blower motor	2.0 (hp)
Required RPM	671
RPM range	535 - 725
Air filter quantity	6
Air filter length x width	24 x 24 (in.)
Air filter thickness	2 (in.)

ELECTRICAL

Power supply	460 V 3 Phase
Unit operating range	+ or - 10%
Compressor RLA (total)	22.2
Condenser fan motor watts	1,380
Condenser fan full load amps (total)	5.2
Recommended maximum fuse (amps)	40
Unit minimum circuit ampacity	33.0

DIMENSIONS

Dimensions	54.25(h) x 91.125(w) x 133.0(d) (in.)
Down-flo supply air opening	(2) 20.0(l) x 28.0(w) (in.)
Down-flo return air opening	15.0(l) x 60.5(w) (in.)
Horizontal supply air opening	14.0(h) x 75.0(w) (in.)
Horizontal return air opening	15.0(h) x 60.5(w) (in.)
Total installed unit weight	2,584 (lbs.)

EQUIPMENT FEATURES

Durable Outdoor Enamel Paint Finish
Unit Lifting Brackets
Pre-charged Refrigeration System
Expansion Valves
High Capacity Driers
Loss of Charge Switch
High Pressure Switch (Manual Reset)
Totally Enclosed Fan Motor
PVC Coated Fan Guard
Fan and Limit Controls
Factory Test Operated
Bonded for Grounding
Internal Pressure Relief Valve
Overload Protection
Crankcase Heater
Timed Off Control
Units will operate cooling down to 0 degrees F. (-17.7 degrees C.)
AGA-CGA Certified
Redundant Comb. Gas Control Valve
Electronic Flame Sensor
Direct Spark Ignition
Aluminized Steel Inshot Burners
Limited warranty on heat exchanger of 10 years
Limited compressor warranty of 5 years
Limited warranty on all other components of 1 year
See Warranty Certificate included with unit for specific details

FACTORY INSTALLED OPTIONS

Blower Motor - 2 Hp Std
Blower Drive Kit -A (535-725 RPM)
Gas Heating - 169K Btuh 1 stage Aluminized Steel Tubular Heat Exchanger
Outdoor Air Supply - Global Economizer (FAC)
Exhaust -Downflow Gravity (FAC)
Return Air Smoke Detector- Factory Installed
Supply Air Smoke Detector- Factory Installed
Circuit Breaker 40 amps - Factory Installed
0
GFCI - Factory Installed/Field Wired

FIELD INSTALLED OPTIONS	**MATERIAL**
14 inch Downflow Curb	16K87

THERMOSTATS & CONTROLS ..... **Material**

FAC Novar ETM-2051 ..... Factory Installed
Rm. Sensor for Novar 97H53

Unit ID: AC-4,6

SPECIFICATIONS AND RATINGS
Packaged Cooling & Gas Heating

Model number ..... LGA120H Package Gas Unit (10 Tons)
Sound rating number (db) 88.0

HEATING

Heat source ..... Natural Gas
Gas supply pressure ..... 7.0 (in. W.C.)
Gas supply connection ..... 0.75 (in.)
Heating capacity input (low stage) ..... 84,500 (Btuh)
Heating capacity output (low stage) ..... 67,500 (Btuh)
Heating capacity input (high stage) ..... 130,000 (Btuh)
Heating capacity output (high stage) ..... 104,000 (Btuh)
AGA-CGA thermal efficiency 80.0

COOLING

ARI gross cooling capacity ..... 125,000 (Btuh)
ARI net cooling ..... 120,000 (Btuh)
ARI total unit watts 10,900
ARI EER (Btuh/Watts) 11.0
ARI integrated part load value 11.8
Entering evaporator dry bulb temperature ..... 80.0 (deg F)
Entering evaporator wet bulb temperature ..... 67.0 (deg F)
Outside air dry bulb temperature ..... 95.0 (deg F)
Gross cooling capacity ..... 128,000 (Btuh)
Sensible cooling capacity ..... 90,880 (Btuh)
Leaving evaporator dry bulb temperature ..... 59.0 (deg F)
Leaving evaporator wet bulb temperature ..... 57.0 (deg F)
Condensate drain size ..... 1.00 fpt (in.)
Refrigerant type HCFC-22

BLOWER PERFORMANCE

Blower air volume ..... 4,000 (CFM)
External static pressure ..... 0.60 (in. W.C.)
Required blower motor including wet coil ..... 2.22 (hp)
Nominal blower motor ..... 3.0 (hp)
Required RPM 920
RPM range ..... 680 - 940
Air filter quantity 4
Air filter length x width ..... 18 x 24 (in.)
Air filter thickness ..... 2 (in.)

ELECTRICAL

Power supply ..... 460 V 3 Phase
Unit operating range ..... + or - 10%
Compressor RLA (total) 18.0
Condenser fan motor watts 700
Condenser fan full load amps (total) 2.6

Recommended maximum fuse (amps) 35
Unit minimum circuit ampacity 28.0

DIMENSIONS

Dimensions ..... 50.0(h) x 58.0(w) x 99.25(d) (in.)
Down-flo supply air opening ..... 20.0(l) x 28.0(w) (in.)
Down-flo return air opening ..... 20.0(l) x 28.0(w) (in.)
Horizontal supply air opening ..... 15.0(h) x 28.0(w) (in.)
Horizontal return air opening ..... 20.0(h) x 28.0(w) (in.)
Total installed unit weight ..... 1,453 (lbs.)

EQUIPMENT FEATURES

Durable Outdoor Enamel Paint Finish
Unit Lifting Brackets
Pre-charged Refrigeration System
Expansion Valves
High Capacity Driers
Loss of Charge Switch
High Pressure Switch (Manual Reset)
Totally Enclosed Fan Motor
PVC Coated Fan Guard
Fan and Limit Controls
Factory Test Operated
Bonded for Grounding
Internal Pressure Relief Valve
Overload Protection
Crankcase Heater
Timed Off Control
Units will operate cooling down to 0 degrees F. (-17.7 degrees C.)
AGA-CGA Certified
Redundant Comb. Gas Control Valve
Electronic Flame Sensor
Direct Spark Ignition
Two Stage Gas Heating
Aluminized Steel Inshot Burners
Limited warranty on heat exchanger of 10 years
Limited compressor warranty of 5 years
Limited warranty on all other components of 1 year
See Warranty Certificate included with unit for specific details

FACTORY INSTALLED OPTIONS

Blower Motor - 3 Hp Std
Blower Drive Kit -1 (680-940 RPM)
Gas Heating - 130K Btuh Aluminized Steel Tubular Heat Exchanger
Outdoor Air Supply - Global Economizer (FAC)
Exhaust -Downflow Gravity (FAC)
Return Air Smoke Detector- Factory Installed
Supply Air Smoke Detector- Factory Installed
Unit Disconnect 80 amps - Factory Installed
GFCI - Factory Installed/Field Wired

FIELD INSTALLED OPTIONS ..... **MATERIAL**

14 inch Downflow Curb 53K50

THERMOSTATS & CONTROLS ..... Material
FAC Novar ETM-2051 ..... Factory Installed
Rm. Sensor for Novar 97H53

Unit ID: AC-5,7

SPECIFICATIONS AND RATINGS
Packaged Cooling & Gas Heating

Model number ..... LGA180H Package Gas Unit (15 Tons)

HEATING

Heat source	Natural Gas
Gas supply pressure	7.0 (in. W.C.)
Gas supply connection	1.0 (in.)
Heating capacity input (low stage)	169,000 (Btuh)
Heating capacity output (low stage)	135,000 (Btuh)
Heating capacity input (high stage)	260,000 (Btuh)
Heating capacity output (high stage)	208,000 (Btuh)
AGA-CGA thermal efficiency	80.0

COOLING

ARI gross cooling capacity	188,000 (Btuh)
ARI net cooling	182,000 (Btuh)
ARI total unit watts	15,800
ARI EER (Btuh/Watts)	11.5
ARI integrated part load value	13.3
Entering evaporator dry bulb temperature	80.0 (deg F)
Entering evaporator wet bulb temperature	67.0 (deg F)
Outside air dry bulb temperature	95.0 (deg F)
Gross cooling capacity	188,100 (Btuh)
Sensible cooling capacity	135,432 (Btuh)
Leaving evaporator dry bulb temperature	59.1 (deg F)
Leaving evaporator wet bulb temperature	57.3 (deg F)
Condensate drain size	1.00 fpt (in.)
Refrigerant type	HCFC-22

BLOWER PERFORMANCE

Blower air volume	6,000 (CFM)
External static pressure	0.60 (in. W.C.)
Required blower motor including wet coil	2.07 (hp)
Nominal blower motor	3.0 (hp)
Required RPM	718
RPM range	535 - 725
Air filter quantity	6
Air filter length x width	24 x 24 (in.)
Air filter thickness	2 (in.)

ELECTRICAL

Power supply	460 V 3 Phase
Unit operating range	+ or - 10%
Compressor RLA (total)	27.0
Condenser fan motor watts	1,380
Condenser fan full load amps (total)	5.2
Recommended maximum fuse (amps)	45

Unit minimum circuit ampacity 39.0

DIMENSIONS

Dimensions ..... 54.25(h) x 91.125(w) x 133.0(d) (in.)
Down-flo supply air opening ..... (2) 20.0(l) x 28.0(w) (in.)
Down-flo return air opening ..... 15.0(l) x 60.5(w) (in.)
Horizontal supply air opening ..... 14.0(h) x 75.0(w) (in.)
Horizontal return air opening ..... 15.0(h) x 60.5(w) (in.)
Total installed unit weight ..... 2,592 (lbs.)

EQUIPMENT FEATURES

Durable Outdoor Enamel Paint Finish
Unit Lifting Brackets
Pre-charged Refrigeration System
Expansion Valves
High Capacity Driers
Loss of Charge Switch
High Pressure Switch (Manual Reset)
Totally Enclosed Fan Motor
PVC Coated Fan Guard
Fan and Limit Controls
Factory Test Operated
Bonded for Grounding
Internal Pressure Relief Valve
Overload Protection
Crankcase Heater
Timed Off Control
Units will operate cooling down to 0 degrees F. (-17.7 degrees C.)
AGA-CGA Certified
Redundant Comb. Gas Control Valve
Electronic Flame Sensor
Direct Spark Ignition
Two Stage Gas Heating
Aluminized Steel Inshot Burners
Limited warranty on heat exchanger of 10 years
Limited compressor warranty of 5 years
Limited warranty on all other components of 1 year
See Warranty Certificate included with unit for specific details

FACTORY INSTALLED OPTIONS

Blower Motor - 3 Hp Std
Blower Drive Kit -A (535-725 RPM)
Gas Heating - 260K Btuh Aluminized Steel Tubular Heat Exchanger
Outdoor Air Supply - Global Economizer (FAC)
Exhaust -Downflow Gravity (FAC)
Return Air Smoke Detector- Factory Installed
Supply Air Smoke Detector- Factory Installed
Circuit Breaker 45 amps - Factory Installed
0
GFCI - Factory Installed/Field Wired

FIELD INSTALLED OPTIONS ..... **MATERIAL**

14 inch Downflow Curb 16K87

THERMOSTATS & CONTROLS ..... Material
FAC Novar ETM-2051 ..... Factory Installed
Rm. Sensor for Novar 97H53

Lamp Systems

F32 • **F40** • F96

Reduced Harmonics (RH, RHH)
Low Wattage (L)
High Performance (HP, HPH, HPL)

Diagram 1b

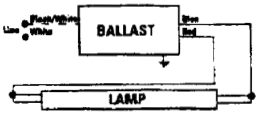
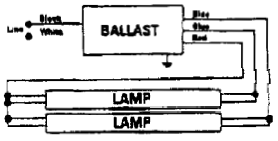
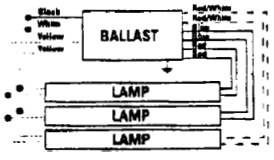


Diagram 3a



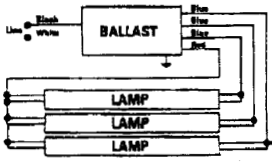
Note: For one lamp application, cap any blue lead, insulate to 600 volts.

Diagram 4



Note: For two lamp application, cap two blue leads separately, insulate to 600 volts.

Diagram 5



Note: For two lamp application, cap any blue lead, insulate to 600 volts.

3	F32T8	PAR-IS	120	B332I120RH	80112	87	.88	.74	.98	< 20	0°F	5
			277	B332I277RH	80113	87	.88	.32	.98	< 20	0°F	5
			120	B332I120RHH	80130	113	1.18	.97	.98	< 20	50°F	5
			277	B332I277RHH	80131	113	1.18	.42	.98	< 20	0°F	5
			120	B332I120L	80124	77	.78	.65	.98	< 20	0°F	5
			277	B332I277L	80125	77	.78	.28	.98	< 20	0°F	5
			120	B332I120HP	80104	88	.88	.74	.99	< 10	0°F	5
			277	B332I277HP	80105	88	.88	.32	.99	< 10	0°F	5
			347	B332I347HP	80136	88	.88	.26	.99	< 10	0°F	5
		PAR-RS	120	B332R120HP	80118	93	.88	.78	.99	< 10	50°F	4
			277	B332R277HP	80119	93	.88	.34	.99	< 10	50°F	4
		PAR-IS	120	B432I120RH	80114	93	.95	.80	.97	< 20	50°F	7
			277	B432I277RH	80115	93	.95	.35	.97	< 20	50°F	7
		PAR-IS	347	B432I347HP	80137	92	.94	.27	.98	< 10	0°F	7
		PAR-IS	120	B432I120L	80126	83	.86	.71	.97	< 20	50°F	7
			277	B432I277L	80127	83	.86	.31	.97	< 20	50°F	7
			120	B432I120HP	80106	92	.94	.78	.98	< 10	50°F	7
			277	B432I277HP	80107	92	.94	.34	.98	< 10	50°F	7
		PAR-RS	120	B432R120HP	80120	98	.94	.82	.99	< 10	50°F	6
			277	B432R277HP	80121	98	.94	.36	.99	< 10	50°F	6
4	F32T8	PAR-IS	120	B432I120RH	80114	114	.88	.97	.98	< 20	50°F	7
			277	B432I277RH	80115	113	.88	.42	.98	< 20	50°F	7
			120	B432I120L	80126	100	.78	.85	.98	< 20	50°F	7
			277	B432I277L	80127	100	.78	.37	.98	< 20	50°F	7
			120	B432I120HP	80106	114	.88	.96	.99	< 10	50°F	7
			277	B432I277HP	80107	114	.88	.42	.99	< 10	50°F	7
			347	B432I347HP	80137	114	.88	.33	.99	< 10	0°F	7
		PAR-RS	120	B432R120HP	80120	121	.88	1.02	.99	< 10	50°F	6
			277	B432R277HP	80121	121	.88	.44	.99	< 10	50°F	6
4	F25T12 "T8"	PAR-IS	120	B432I120RH[1]	80114	95	.83	.81	.98	< 20	10°F	7
			277	B432I277RH[1]	80115	94	.83	.35	.98	< 20	10°F	7

1 - UL and CSA approval pending.

See page 3 for more information on F25T12 systems.

General Application Notes

- For additional product or application information, please call 1-888-GE-BALLAST.
- All models meet CSA standards except 220 volt.
- All models are UL Listed or Component Recognized except 347 volt.
- All models are CBM certified, where applicable.
- Information represented here is typical and measured per ANSI standards at rated line voltage and room temperature. Installed performance data may vary by application.
- Lamp Current Crest Factors for all GE Electronic Ballasts comply with ANSI C82 standards.
- All models have a Sound Rating of A or A+.
- Specifications are subject to change without notice.

Energy Cost Savings Lowering your lighting power bill will also lower your air conditioning bill. On average, every watt you take out of the lighting system will save you ⅓ watt in air conditioning. One more reason to switch to GE Electronic Ballasts.

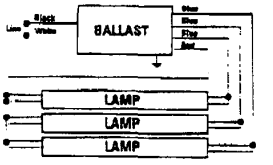
2	F32T8	PAR-IS	120	B232I120RH	80110	58	.88	.49	.98	< 20	0°F	3a
			277	B232I277RH	80111	58	.88	.21	.98	< 20	0°F	3a
			220	B232I220RH	80172	59	.88	.28	.96	< 20	0°F	3a
			120	B232I120RHH	80128	76	1.18	.65	.98	< 20	0°F	3b
			277	B232I277RHH	80129	76	1.18	.28	.98	< 20	0°F	3b
			120	B232I120L	80122	51	.78	.45	.96	< 20	0°F	3a
			277	B232I277L	80123	51	.78	.19	.98	< 20	0°F	3a
			120	B232I120HP	80102	59	.88	.50	.99	< 10	0°F	3a
			277	B232I277HP	80103	59	.88	.22	.99	< 10	0°F	3a
			347	B232I347HP	80135	59	.88	.17	.99	< 10	0°F	3a
		PAR-RS	120	B232R120HP	80116	63	.88	.53	.99	< 10	50°F	2a
			277	B232R277HP	80117	63	.88	.23	.99	< 10	50°F	2a
		PAR-IS	120	B332I120RH	80112	65	.98	.55	.98	< 20	0°F	5
			277	B332I277RH	80113	65	.98	.24	.98	< 20	0°F	5
			120	B332I120L	80124	58	.86	.50	.97	< 20	0°F	5
			277	B332I277L	80125	58	.86	.22	.97	< 20	0°F	5
			120	B332I120HP	80104	66	.98	.56	.98	< 10	0°F	5
			277	B332I277HP	80105	66	.98	.24	.98	< 10	0°F	5
			347	B332I347HP	80136	66	.98	.19	.98	< 10	0°F	5
		PAR-RS	120	B332R120HP	80118	68	.98	.58	.98	< 10	50°F	4
			277	B332R277HP	80119	68	.98	.25	.98	< 10	50°F	4
		SER-RS	120	B232SR120V20	80140	63	.88	.52	.99	< 10	50°F	18
				Performance at 20%		20	.17	.17	.90	< 15		
			277	B232SR277V20	80141	63	.88	.23	.99	< 10	50°F	18
				Performance at 20%		20	.17	.08	.90	< 15		
			120	B232SR120S50	80180	62	.88	.53	.99	< 10	50°F	21
				Performance at 50%		37	.48	.31	.95	< 10		
			277	B232SR277S50	80181	62	.88	.23	.99	< 10	50°F	21
				Performance at 50%		37	.48	.14	.95	< 10		
			120	B232SR120S30	80176	62	.88	.52	.99	< 10	50°F	21
				Performance at 60%		45	.58	.38	.95	< 15		
				Performance at 30%		28	.27	.24	.95	< 15		
			277	B232SR277S30	80177	62	.88	.23	.99	< 10	50°F	21
				Performance at 60%		45	.58	.17	.95	< 15		
				Performance at 30%		28	.27	.11	.95	< 15		
2	F25T12 "T8"	PAR-IS	120	B232I120RH[1]	80110	48	.83	.41	.95	< 20	0°F	3a
			277	B232I277RH[1]	80111	47	.83	.17	.95	< 20	0°F	3a

1 - UL and CSA approval pending.

Abbreviations

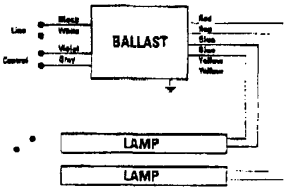
RS - Rapid Start **PAR** - Parallel Lamp Operation
IS - Instant Start **SER** - Series Lamp Operation

Diagram 5



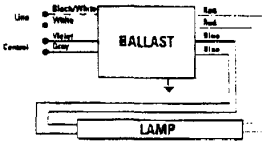
Note: For two lamp application, cap any blue lead, insulate to 600 volts.

Diagram 18



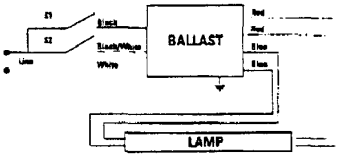
Note: Ballast case must be grounded.

Diagram 19



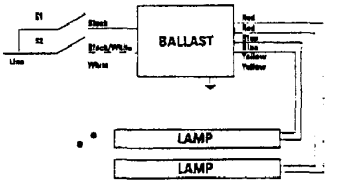
Note: Ballast case must be grounded.

Diagram 20



Note: Ballast case must be grounded.

Diagram 21



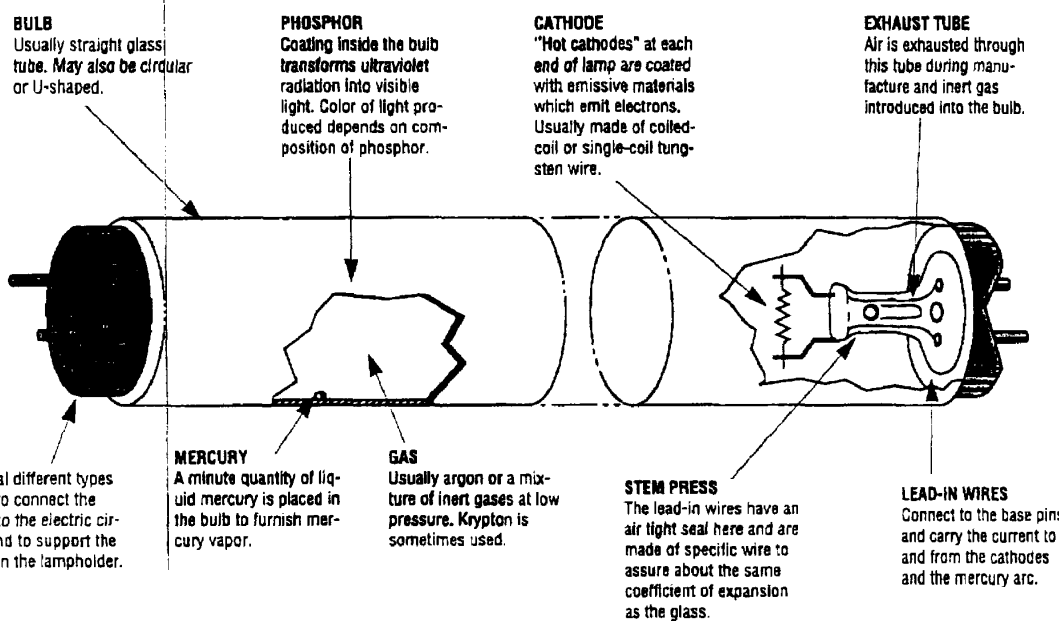
Note: Ballast case must be grounded.

Does your current system use electromagnetic ballasts? If so, switching to GE's Reduced Harmonic (RH) Ballasts (THD <20%) will improve your power quality. In a few applications with unusually stringent power quality needs, GE offers High Performance (HP) Ballasts (THD <10%).

on application and environment (i.e. ambient temperature, input voltage, ballast type, etc.).
OSRAM SYLVANIA manufactures lamps to meet American National Standards Institute (ANSI), IEC (International Electrotechnical Commission) or Illuminating Engineering society of North America (IES) through Total Quality Manufacturing (TQM) practices. As a result ratings change periodically and OSRAM SYLVANIA will release technical bulletins when appropriate. The HID data presented in this catalog supercedes all data published before February 1993.

OSRAM SYLVANIA : The Leader In Energy Saving Fluorescent Lamps

The fluorescent lamp is an electric discharge device which utilizes a low pressure mercury vapor arc to generate ultra-violet (plus a little visible) energy. The ultra-violet energy is absorbed by a phosphor coat on the inside of the glass tube and converted by the phosphor to visible wavelengths; the wavelengths of the light generated are determined by the composition of the phosphor. In addition to the small amount of mercury vapor, the fluorescent tube contains an atmosphere of an inert gas, usually argon, krypton, neon, or a mixture of two or more of these gases. The pressure of the gases contained in the lamp is very low, usually from 2 to 3 torr. Atmospheric pressure is 760 torr.



How to Read Ordering Guide

Package Quantity — Description

20	T-12	24"	Med. Bipin	22075	F20T12/D830	30	Designer "600" 3000K	9000	1350
				22018	F20T12/B	6	Blue[28]	9000	550
				22078	F20T12/CW	30	Cool White	9000	1240
				22029	F20T12/GRO/AQ/RP	12	GRO-LUX® Aquarium Retail Pack ▦	9000	

Nominal Watts — Bulb (T-12 — Tubular 1½" Diameter) — Length — Base — One Item No. for each lamp — Footnotes — Average Rated Hours of Life — Approx. Initial Lumens

F20T12/D830
F — Fluorescent
20 — Nominal Watts
T — Tubular Shape
12 — 1½" (1½) Diameter
D830 — Phosphor Coating Color

T-8 SINGLE PIN T-8 MEDIUM BIPIN

OCTRON®, OCTRON® CURVALUME® "700" SERIES, "800" SERIES

Note: OCTRON® Lamps should be operated only with magnetic rapid start ballasts designed to operate 265 ma, T-8 lamps or high frequency (electronic) ballasts that are either instant start or rapid start specifically designed to operate T8 lamps. OCTRON® lamps may be operated on instant start ballasts with ballast factors ranging from a minimum of 0.77 to a maximum of 1.20 at the nominal ballast input voltage. When OCTRON® lamps are operated in the instant start mode, the two wires or two contacts of each socket should be connected to each other. They should then be connected to the appropriate ballast lead wire using National Electric Code techniques. Approximate length of Octron® Curvalume® lamps is measured from base face to outside of glass bend.

OCTRON® "700" SERIES

Nominal Watts	Bulb	Nominal Lgth	Base	Vendor ID NO. DCI 046135 UPC 46135 Item No.	Lamp Ordering Abbreviation		Pkg. Qty.	Description	Life Avg. Rated Hours (21)	Light Output Approx. Initial Lumens(2)
17	T-8	24"	Med. Bipin	21849	F017/730		30	3000K, 75 CRI[23]	20000	1325
				21832	F017/735		30	3500K, 75 CRI[23]	20000	1325
				21831	F017/741		30	4100K, 75 CRI[23]	20000	1325
25	T-8	36"	Med. Bipin	21851	F025/730		30	3000K, 75 CRI[23]	20000	2050
				21817	F025/735		30	3500K, 75 CRI[23]	20000	2050
				21829	F025/741		30	4100K, 75 CRI[23]	20000	2050
32	T-8	48"	Med . Bipin	(E) 21852	F032/730		30	3000K, 75 CRI[23]	20000	2800
				(E) 21997	F032/730/ECO		30	3000K, 75 CRI[23], ECOLOGIC	20000	2800
				21957	F032/730/PLT		1968	3000K, 75 CRI[23] Pallet Pack	20000	2800
				(E) 21823	F032/735		30	3500K, 75 CRI[23]	20000	2800
				(E) 21998	F032/735/ECO		30	3500K, 75 CRI[23], ECOLOGIC	20000	2800
				21959	F032/735/PLT		1968	3500K, 75 CRI[23], Pallet Pack	20000	2800
				(E) 21824	F032/741		30	4100K, 75 CRI[23]	20000	2800
				(E) 21999	F032/741/ECO		30	4100K, 75 CRI[23], ECOLOGIC	20000	2800
				21966	F032/741/PLT		1968	4100K, 75 CRI[23], Pallet Pack	20000	2800
				(E) 21809	F032/750		30	5000K, 75 CRI[23]	20000	2650
				(E) 21993	F032/765		30	6500K, 75 CRI[23]	20000	2750
				21934	F032/735/GUARDED		30	3500K, 75 CRI[29],Shielded	20000	2400
				21961	F032/GOLD		30	1800K, Gold Filtered, Shielded[30]	20000	1700
40	T-8	60"	Med. Bipin	21853	F040/730		30	3000K, 75 CRI[23]	20000	3550
				21820	F040/735		30	3500K, 75 CRI[23]	20000	3550
				21827	F040/741		30	4100K, 75 CRI[23]	20000	3550
59	T-8	96"	Single Pin	21854	F096/730		24	3000K, 75 CRI[25]	15000	5700
				21839	F096/735		24	3500K, 75 CRI[25]	15000	5700
				21840	F096/741		24	4100K, 75 CRI[25]	15000	5700

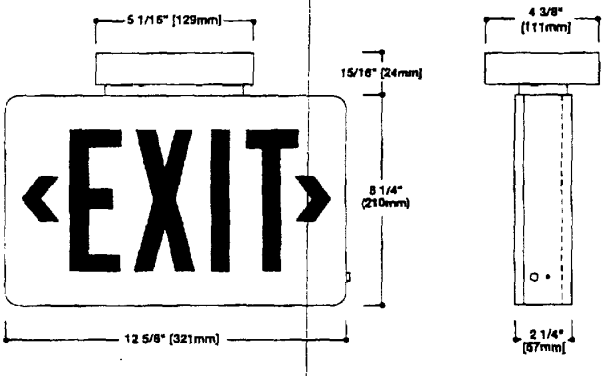
OCTRON® "800" SERIES

Nominal Watts	Bulb	Nominal Lgth	Base	Item No.	Lamp Ordering Abbreviation		Pkg. Qty.	Description	Life Avg. Rated Hours (21)	Light Output Approx. Initial Lumens(2)
17	T-8	24"	Med. Bipin	21978	F017/827		30	2700K, 82 CRI[23]	20000	1300
				21882	F017/830		30	3000K, 82 CRI[23]	20000	1400
				21883	F017/835		30	3500K, 82 CRI[23]	20000	1400
				21884	F017/841		30	4100K, 82 CRI[23]	20000	1400
25	T-8	36"	Med. Bipin	21979	F025/827		30	2700K, 82 CRI[23]	20000	1860
				21886	F025/830		30	3000K, 82 CRI[23]	20000	2225
				21887	F025/835		30	3500K, 82 CRI[23]	20000	2225
				21888	F025/841		30	4100K, 82 CRI[23]	20000	2225
32	T-8	48"	Med. Bipin	21955	F032/827		30	2700K, 82 CRI[23]	20000	2580
				21890	F032/830		30	3000K, 82 CRI[23]	20000	2950
				21777	F032/830/ECO		30	3000K, 82 CRI[23], ECOLOGIC	20000	2950
				21760	F032/830/XP		30	3000K, 85 CRI EXTENDED PERFORMANCE(2820 mean Lumens)[31]	24000	3000

(E) means this bulb meets Federal minimum efficiency standards.

Energy Saving Product/Value Added Product High Color Rendering Lamp New Item Footnotes/Symbols pages 167-169

DIMENSIONS



DESCRIPTION

The CX LED Die Cast Aluminum Exit combines the strength and durability of die casting with the bright even illumination of LED lamp sources. Unlike competitive units that have a pronounced dot effect from protruding diodes, the CX LED offers unequalled uniform illumination and brightness.

NEW

CX SERIES

Cast Aluminum Exits
Surface Mount
Self-Powered
Led Lamps

ORDERING INFORMATION

SAMPLE NUMBER: CX7170R

Family
CX=Die Cast Aluminum Exit

Series
7=Self-Powered, LED

Face Options
1=Single
2=Double

Battery
70=Nickel Cadmium Battery

Letter Colors
R=Red
G=Green

Housing Finishes
Blank= Brushed Aluminum Face with Black Housing
W=White
B=Black

Accessories
CAX-18-PKBK=18" Pendant Kit, Black
CAX-18-PKWH=18" Pendant Kit, White
VS1=Polycarbonate Vandal Shield (Wall Mount Only)
VS1WP=Weather Resistant Polycarbonate Vandal Shield (Wall Mount Only)
WG10=Wire Guard (Wall Mount Only)
WGS-11=Wire Guard (Ceiling or End Mount Only)

EXIT LIGHTING

- Dual Voltage Input 120/277 VAC, 60 Hz
- Push-in AC power connectors facilitate installation
- Line-latching, solid-state voltage limited charger, low voltage disconnect, brownout circuit, overload/short circuit protection, test switch/power indicator light
- Die cast aluminum housing
- Die cast canopy included
- Universal pattern knockouts on rear of single face housing for direct mounting to junction box
- Knockout provided on housing for surface attachment
- Exit can be universally mounted ceiling, wall or end
- NFPA 101 compliant knockout chevrons allow quick conversion to directional signs
- LED lamp provides uniform light output
- DC: LED Lamps
- UL 924 Listed, CSA Certified, Life Safety NFPA 101, NEC/OSHA, most state and local codes, suitable for floor proximity installation

Energy Data

	Sealed Nickel Cadmium Battery							
	Input Power:		Input Current (Max.):		Power Factor:		T.H.D.:	
	120V	277V	120V	277V	120V	277V	120V	277V
			LED Exits					
LED Exits -Red Letters	2.8W	2.9W	.03A	.02A	> .81	> .77	< 32%	< 46%
LED Exits -Green Letters	3.9W	3.6W	.08A	.04A	> .41	> .43	< 48%	< 49%

RESOLUTION NO. 2000-128

A RESOLUTION OF THE LODI CITY COUNCIL AUTHORIZING THE CITY MANAGER TO PROVIDE A PUBLIC BENEFITS PROGRAM GRANT TO ROSS DRESS FOR LESS

==========

WHEREAS, the State has mandated that beginning January 1, 1998, the City of Lodi is obligated to fund various programs through a Public Benefits Charge (PBC) based on a historical electric revenue requirement; and

WHEREAS, the requirement amounts to approximately $1M per year that must be dedicated to qualifying programs such as energy efficiency. A further stipulation is that these efforts must be done on the customer's side of the meter in order to qualify; and

WHEREAS, a new business in Lodi, Ross Dress For Less has elected to participate in the City of Lodi Public Benefits Program. As the new tenant at 340 W. Kettleman Lane (formerly the site of Luckys Grocery Store), Ross Dress For Less has conducted numerous tenant improvements to the structure, including several energy efficiency improvements. Specifically, Ross Dress For Less has had installed:

- seven (7) high efficiency heating & air conditioning- HVAC- units (energy efficiency rating of 10.2 or better for all units; the highest rated unit is a 12.6, 13-ton unit);
- over 1,900 T8 fluorescent lamps with electronic ballasts; and
- seven (7) LED technology EXIT signs.

WHEREAS, by installing these high efficiency products and pieces of equipment, Ross Dress For Less can anticipate a 10% to 15% savings on their monthly electric utility bill, versus the old, inefficient equipment recently replaced. Ross Dress For Less is considered a national leader (a retail chain that operates stores from coast-to-coast) in the utilization of energy efficient products and materials, including HVAC units, lighting and energy management systems; and

WHEREAS, after numerous meetings and site visits, the City of Lodi Electric Utility respectfully recommends approval of this grant as a qualifying component of the City of Lodi Public Benefits Program.

NOW, THEREFORE, BE IT RESOLVED, that the Lodi City Council hereby authorizes the City Manager to provide a Public Benefits Grant in the amount of $15,869.75 to Ross Dress For Less.

Dated: July 19, 2000

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I hereby certify that Resolution No. 2000-128 was passed and adopted by the Lodi City Council in a regular meeting held July 19, 2000 by the following vote:

AYES:	COUNCIL MEMBERS – Hitchcock, Land, Nakanishi, Pennino and Mann (Mayor)
NOES:	COUNCIL MEMBERS – None
ABSENT:	COUNCIL MEMBERS – None
ABSTAIN:	COUNCIL MEMBERS – None

SUSAN J. BLACKSTON
City Clerk