

**CALIFORNIA
ECONOMIZER**
The Zoning Systems Company

Zoning

For more information call:
800-228-2966
714-898-9963

or visit our website at:
**www.
hvacomfort.com**

VVHC VARIABLE VOLUME HEATING & COOLING – Part 1
Lennox List Pricing – 2/1/00

VVHC & VVHC ENHANCED

Round Zone Dampers & Round Bypass Dampers

SIZE	LENNOX CAT. NO.	PART NO.	PRICE
6"	28N01	STMPD06	337.00
8"	28N02	STMPD08	359.00
10"	28N03	STMPD10	375.00
12"	28N04	STMPD12	375.00
14"	28N05	STMPD14	393.00
16"	28N06	STMPD16	408.00
18" (Zone Dampers Only)	28N07	STMPD18	473.00

Rectangular Supply and Bypass Dampers: See Modulating Rectangular Damper Price List STCD.

VVHC Parts

ITEM	LENNOX CAT. NO.	DESCRIPTION	PRICE
VVHC Controller/F.	37P37	2-Stage Cooling/Heating Package Unit Controller – Fahrenheit	854.00
VVHC Controller/C.	89E71	2-Stage Cooling/Heating Package Unit Controller – Celsius	854.00
ATS	37P41	Air Temperature Sensor – Allows Readout of Unit Leaving Air Temp.	107.00
CAPL-2	87N88	Capacity Control for 2 Compressor Systems	330.00
CAPL-4	87N89	Capacity control for 3 or 4 Compressor Systems	650.00
VVHC Stat/F.	13N07	T-577 Zone Thermostats – Fahrenheit	383.00
VVHC Stat/C.	13N51	T-577 Zone Thermostats – Celsius	383.00
VVHC Remote Stat/F.	62P43	T-577 Zone Thermostats – Fahrenheit to be used with a remote sensor (65P96)	432.00
VVHC Remote Stat/C.	35N84	T-577 Zone Thermostats – Celsius to be used with a remote sensor (65P96)	432.00
Remote Sensor for Stats	65P96	Allows for Remote Temperature Sensing for T-577 or T-600 Stats	117.00
Static Pressure Sensor	30N63	Controls Operation of the Bypass	130.00
External Modem & Software	59P64	For Remote Programming and Monitoring	1127.00
Multiplexer	59P65	Allows Communication for Up to Eight Controllers in One Building	1071.00
Multiplexer Cables 100 Ft.	62P42	One Needed for Each Control Center to Connect to the Multiplexer	77.00
N2 Buss Interpreter	N2BUSS	VVHC to METASYS Interface	2840.00

TERMS: Net 30 days from date of invoice. All prices are in U.S. Dollars.
FREIGHT POLICY: Paid by buyer F.O.B. Huntington Beach, CA

VVHC Enhanced

ITEM	LENNOX CAT. NO.	DESCRIPTION	PRICE
VVHC Computer Control Center/ Internal Modem	62P48	Multiple Package Unit Controller for 2-Stage Cooling/Heating HVAC Units. (Includes Internal Modem, Monitor, Keyboard and Software*)	7198.00
Fax Option	62P53	Adds Fax Notification Capability to the System	568.00
Callout Software	59P66	For Remote Programming and Monitoring	919.00
Billing Software	62P50	Billing Program for Over Time Use of a System	765.00
Relay Module	37P44	One Per HVAC Unit	564.00
RMS Discharge	51P46	Relay Module Sensor for Discharge Air	107.00
RMS Outdoor	62P51	Relay Module Sensor for Outside Air	107.00
RMS Return Air	51P46	Relay Module Sensor for Return Air	107.00
Static Pressure Sensor	30N63	Controls Operation of the Bypass	130.00
VVHC Stat/F.	13N07	T-577 Zone Thermostats – Fahrenheit	383.00
VVHC Stat/C.	13N51	T-577 Zone Thermostats – Celsius	383.00
VVHC Remote Stat/F.	62P43	T-577 Zone Thermostats – Fahrenheit to be used with a Remote Sensor 65P96	432.00
VVHC Remote Stat/C.	35N84	T-577 Zone Thermostats – Celsius to be used with a Remote Sensor 65P96	432.00
T-600 Thermostat/F.	13N49	T-600 No Zone Thermostat – Fahrenheit	454.00
T-600 Thermostat/C.	13N50	T-600 No Zone Thermostat – Celsius	454.00
T-600 Remote Stat/F.	35N82	T-600 No Zone Stat – Fahrenheit Less Sensor to be Used with Remote Sensor 65P96	510.00
T-600 Remote Stat/C.	13N57	T-600 No Zone Stat – Celsius Less Sensor to be Used with Remote Sensor 65P96	510.00
T-600 Discharge	13N56	Discharge Sensor for T-600	113.00
T-600 Humidistat	35N83	Humidistat for T-600 Thermostat	113.00
T-600 Dirty Filter Sensor	A0000	Dirty filter Alarm When Used with Control Center	142.00
Remote Sensor for Stats	65P96	Allows for Remote Temperature Sensing for T-600 or T-577 Stats	117.00

* Specify if the system needs to be in Celsius.

TERMS: Net 30 days from date of invoice. All prices are in U.S. Dollars.

FREIGHT POLICY: Paid by buyer, F.O.B. Huntington Beach, CA.



Modulating Heavy Duty Rectangular Supply & Bypass Dampers "STCD"
Lennox List Pricing - 2/1/00

The Zoning Systems Company

		← WIDTH IN INCHES →														
		8	10	12	14	16	18	20	22	24	28	32	36	40	44	48
HEIGHT IN INCHES ↓	8	28N46 519.00	28N47 519.00	28N48 519.00	28N49 524.00	28N50 530.00	28N51 536.00	28N52 541.00	28N53 571.00	28N54 578.00	28N55 595.00	28N56 611.00	28N57 625.00	28N58 642.00	28N59 658.00	28N60 675.00
	10	530.00	28N61 530.00	28N62 530.00	28N63 536.00	28N64 539.00	28N65 548.00	28N66 581.00	28N67 583.00	28N68 592.00	28N69 608.00	28N70 625.00	28N71 641.00	28N72 657.00	28N73 674.00	28N74 690.00
	12	536.00	536.00	28N75 536.00	28N76 545.00	28N77 548.00	28N78 560.00	28N79 590.00	28N80 599.00	28N81 608.00	28N82 622.00	28N83 637.00	28N84 655.00	28N85 671.00	28N86 688.00	28N87 705.00
	14	551.00	551.00	545.00	28N88 553.00	28N89 557.00	28N90 569.00	28N91 601.00	28N92 611.00	28N93 620.00	28N94 637.00	28N95 649.00	29N22 670.00	29N23 687.00	29N24 704.00	29N25 720.00
	16	607.00	607.00	609.00	610.00	29N26 612.00	29N27 612.00	29N28 613.00	29N29 622.00	29N30 634.00	29N31 652.00	29N32 664.00	29N33 685.00	29N34 701.00	29N35 718.00	29N36 734.00
	18	645.00	651.00	656.00	662.00	662.00	29N37 673.00	29N38 704.00	29N39 713.00	29N40 717.00	29N41 722.00	29N42 722.00	29N43 726.00	29N44 739.00	29N45 744.00	29N46 750.00
	20	657.00	663.00	672.00	675.00	678.00	683.00	29N47 719.00	29N48 728.00	29N49 734.00	29N50 736.00	29N51 740.00	29N52 739.00	29N53 750.00	29N54 753.00	29N55 760.00
	24	671.00	677.00	686.00	688.00	717.00	739.00	764.00	772.00	29N56 792.00	29N57 807.00	29N58 821.00	29N59 838.00	29N60 845.00	29N61 874.00	29N62 889.00
	28	807.00	810.00	813.00	819.00	824.00	833.00	839.00	858.00	879.00	29N63 882.00	29N64 902.00	29N65 916.00	29N66 948.00	29N67 952.00	29N68 960.00
	32	824.00	828.00	834.00	838.00	845.00	853.00	863.00	876.00	902.00	914.00	29N69 926.00	29N70 932.00	29N71 983.00	29N72 987.00	29N73 992.00
	36	860.00	860.00	868.00	868.00	876.00	880.00	884.00	902.00	916.00	926.00	960.00	29N74 965.00	29N75 1014.00	29N76 1026.00	29N77 1048.00
	40	912.00	921.00	927.00	930.00	931.00	933.00	938.00	970.00	982.00	992.00	1014.00	1026.00	29N78 1048.00	29N79 1157.00	29N80 1213.00
	44	959.00	965.00	970.00	977.00	986.00	992.00	1009.00	1026.00	1034.00	1043.00	1053.00	1066.00	1103.00	29N81 1268.00	29N82 1279.00
	48	1026.00	1032.00	1045.00	1052.00	1071.00	1103.00	1130.00	1157.00	1180.00	1185.00	1191.00	1213.00	1235.00	1279.00	29N83 1323.00

To order use Rectangular CAT # W x H E.G. for 10 x 8 = Order 28N47 10 x 8

3 Wire 24 VAC power open / power close damper.
 For applications up to 1.75" of static pressure at the damper.

All motors are normally mounted on the "H" height side of the damper. To bottom mount or locate the motor on the "W" width side, place your order as shown above STCD W x H and indicate bottom mount on your order.

All heavy duty dampers are built to order.
 No returns or exchanges on these items.
 Please allow for a 3-week lead time for all dampers.

TERMS: Net 30 days from date of invoice
 FREIGHT POLICY: Paid by buyer, F.O.B. Huntington Beach, CA.

START

2-STAGE CONTROL CENTER

Gas/Electric or Heat Pump

37P37

24V 40VA Independent Transformer for Control Center (Field Supplied)

ATS

37P41

CAPACITY CONTROL ①

2-Stage

87N88

(CAPL-2)

3- or 4-Stage

87N89

(CAPL-4)

OPTIONAL

External Modem
& Software

59P64

Multiplexer

for more than 1 control center

59P65

24V 40VA Independent Transformer
for Multiplexer (Field Supplied)

Multiplexer Cables

One for each Control Center

62P42

ZONE THERMOSTATS

T577 Stat

13N07

T577 Remote Stat

Remote Sensor Capability 62P43

Remote Sensor 65P96

ZONE DAMPERS

Round 28N01–28N07 (STMPD size) up to 1.75" SP

Heavy Duty Rectangular 28N46–29N83 (STCD W x H) to 1.75" SP

6 x (Number of Dampers) = VA for the
24V Zone Thermostats Transformer

BYPASS DAMPERS

Round

28N01–28N06

(STMPD size)

Rectangular

28N46–29N83

(STCD size)

24V 40VA Independent Transformer
for Bypass (Field Supplied)

Static Pressure Control 30N63

COMPLETE SYSTEM

① Some Heat Pumps utilize Gas/Electric thermostats. For this type of Heat Pump, modify the heat cutoff set point on the capacity control device to 118° during installation.

NOTE: Celsius parts are available. Call factory for part numbers.

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hvacomfort.com**

PART	PART NO.	LENNOX CAT. NO.	QUANTITY	PRICE	EXTENSION
CONTROLLER (ONE PER UNIT)					
Controller – Fahrenheit	37P37		_____	854.00	_____
Controller – Celsius	89E71		_____	854.00	_____
ATS (One per Unit)	37P41		_____	107.00	_____
CAPACITY CONTROL					
2-Stage Modulating Control for G/E Equipment	87N88		_____	330.00	_____
3- or 4-Stage Modulating Control for G/E Equipment	87N89		_____	650.00	_____
REMOTE COMMUNICATIONS					
External Modem and Software For Communication to More than One Controller Multiplexer	59P64		_____	1127.00	_____
One per Controller when Using Multiplexer Cable	59P65		_____	1071.00	_____
	62P42		_____	77.00	_____
ZONE THERMOSTATS (ONE PER ZONE)					
T577 – Fahrenheit	13N07		_____	383.00	_____
T577 – Celsius	13N51		_____	383.00	_____
T577/F w/Remote Sensor	62P43		_____	432.00	_____
T577/C w/Remote Sensor	35N84		_____	432.00	_____
Remote Sensor	65P96		_____	117.00	_____
ZONE DAMPERS					
A. Dampers (Round)					
6"	STMPD06	28N01	_____	337.00	_____
8"	STMPD08	28N02	_____	359.00	_____
10"	STMPD10	28N03	_____	375.00	_____
12"	STMPD12	28N04	_____	375.00	_____
14"	STMPD14	28N05	_____	393.00	_____
16"	STMPD16	28N06	_____	408.00	_____
18"	STMPD18	28N07	_____	473.00	_____
B. Dampers (Rectangular) Sizes 8 x 8 thru 48 x 48.					
_____ x _____		STCD	_____	_____	_____
_____ x _____		STCD	_____	_____	_____
_____ x _____		STCD	_____	_____	_____
_____ x _____		STCD	_____	_____	_____

Continue on to page 2, Zone Dampers, Bypass Dampers, and enter the totals below.

SUB TOTAL FOR THIS PAGE: _____

SUB TOTAL FROM PAGE 2 : _____

TOTAL: _____



The Zoning Systems Company

VVHC

Lennox Bid Sheet 2/1/00

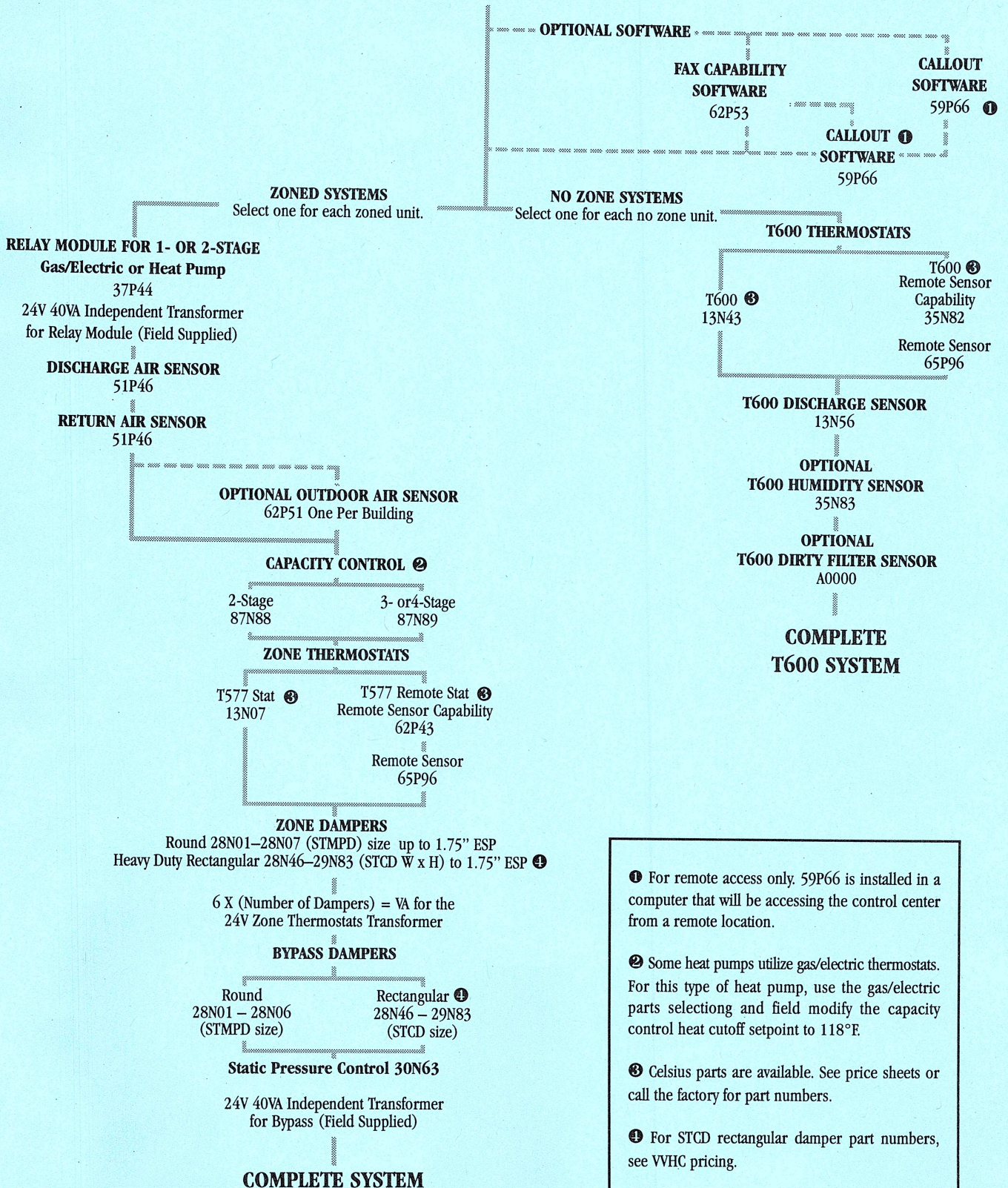
PART	PART NO.	LENNOX CAT. NO.	QUANTITY	PRICE	EXTENSION
CAPACITY CONTROL					
2-Stage Modulating Control for G/E Equipment	87N88		_____	330.00	_____
3- or 4-Stage Modulating Control for G/E Equipment	87N89		_____	650.00	_____
BYPASS DAMPERS					
A. Round Bypass Dampers (One per Unit)					
6"	STMPD06	28N01	_____	337.00	_____
8"	STMPD08	28N02	_____	359.00	_____
10"	STMPD10	28N03	_____	375.00	_____
12"	STMPD12	28N04	_____	375.00	_____
14"	STMPD14	28N05	_____	393.00	_____
16"	STMPD16	28N06	_____	473.00	_____
B. Rectangular Bypass Dampers (One per Unit) Sizes 8 x 8 thru 48 x 48.					
_____ x _____	STCD	_____	_____	_____	_____
_____ x _____	STCD	_____	_____	_____	_____
_____ x _____	STCD	_____	_____	_____	_____
_____ x _____	STCD	_____	_____	_____	_____
_____ x _____	STCD	_____	_____	_____	_____
_____ x _____	STCD	_____	_____	_____	_____
ELECTRONIC BYPASS CONTROL					
Static Pressure Control	30N63		_____	130.00	_____
TRANSFORMERS					
Independent 24 Volts 40VA Transformer for each Bypass Damper	(Field Supplied)		_____		
Transformer size for Dampers:					
6VA x NUMBER of Dampers			6 X _____	=	_____ VA
150 VA 24 Volt	101ARTN-150	30N75	_____	189.00	_____
250 VA 24 Volt	101ARTN-250	30N76	_____	286.00	_____

TOTAL FOR PAGE #2

(Enter here and on the bottom of page 1): _____

START

CONTROL CENTER
With Modem 62P48



❶ For remote access only, 59P66 is installed in a computer that will be accessing the control center from a remote location.

❷ Some heat pumps utilize gas/electric thermostats. For this type of heat pump, use the gas/electric parts selection and field modify the capacity control heat cutoff setpoint to 118°F.

❸ Celsius parts are available. See price sheets or call the factory for part numbers.

❹ For STCD rectangular damper part numbers, see VVHC pricing.

Zoning

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PART	PART NO.	LENNOX CAT. NO.	QUANTITY	PRICE	EXTENSION
CONTROL CENTER					
Includes Monitor, Keyboard, Modem and Operating Software					
	62P48	62P48		7198.00	

SOFTWARE OPTIONS					
Fax Capability Software	62P53	62P53		568.00	
Call Out Software, 3.5" Disk	59P66	59P66		919.00	
Billing Software	62P50	62P50		765.00	

ZONED UNITS					
Relay Module (One per Unit)	37P44	37P44		564.00	
Discharge RMS (One per Unit)	51P46	51P46		107.00	
Return RMS (One per Unit)	51P46	51P46		107.00	
Outdoor RMS	62P51	62P51		107.00	

NO ZONE UNITS					
T600 Thermostat	13N49	13N49		454.00	
T600 Thermostat for Remote	35N82	35N82		510.00	
T600 Remote Sensor	65P96	65P96		117.00	
T600 Discharge Air Sensor	13N56	13N56		113.00	
T600 Discharge Humidity Sensor	35N83	35N83		113.00	
T600 Dirty Filter Sensor	A0000	A0000		142.00	

ZONE THERMOSTATS (ONE PER ZONE)					
T577 Thermostat	13N07	13N07		383.00	
T577 for Remote Sensor	62P43	62P43		432.00	
Remote Sensor	65P96	65P96		117.00	

ZONE DAMPERS					
A. Dampers (Round)					
6"	STMPD06	28N01		337.00	
8"	STMPD08	28N02		359.00	
10"	STMPD10	28N03		375.00	
12"	STMPD12	28N04		375.00	
14"	STMPD14	28N05		393.00	
16"	STMPD16	28N06		408.00	
18"	STMPD18	28N07		473.00	

B. Dampers (Rectangular) Sizes 8 x 8 thru 48 x 48.					
_____ x _____	STCD	_____	_____	_____	_____
_____ x _____	STCD	_____	_____	_____	_____
_____ x _____	STCD	_____	_____	_____	_____
_____ x _____	STCD	_____	_____	_____	_____

Continue on to page 2, Zone Dampers, Bypass Dampers, and enter the totals below.

SUB TOTAL FOR THIS PAGE: _____

SUB TOTAL FROM PAGE 2 : _____

TOTAL: _____



The Zoning Systems Company

VVHC ENHANCED

Lennox Bid Sheet 2/1/00

PART	PART NO.	LENNOX CAT. NO.	QUANTITY	PRICE	EXTENSION
CAPACITY CONTROL					
2-Stage Modulating Control for G/E Equipment	87N88	87N88	_____	330.00	_____
3- or 4-Stage Modulating Control for G/E Equipment	87N89	87N89	_____	650.00	_____

BYPASS DAMPERS

A. Round Bypass Dampers (One per Unit)

6"	STMPD06	28N01	_____	337.00	_____
8"	STMPD08	28N02	_____	359.00	_____
10"	STMPD10	28N03	_____	375.00	_____
12"	STMPD12	28N04	_____	375.00	_____
14"	STMPD14	28N05	_____	393.00	_____
16"	STMPD16	28N06	_____	408.00	_____

B. Rectangular Bypass Dampers (One per Unit) Sizes 8 x 8 thru 48 x 48.

_____ x _____	STCD _____	_____	_____	_____	_____
_____ x _____	STCD _____	_____	_____	_____	_____
_____ x _____	STCD _____	_____	_____	_____	_____
_____ x _____	STCD _____	_____	_____	_____	_____
_____ x _____	STCD _____	_____	_____	_____	_____
_____ x _____	STCD _____	_____	_____	_____	_____

ELECTRONIC BYPASS CONTROL

Static Pressure Control	30N63	30N63	_____	130.00	_____
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TRANSFORMERS

Independent 24 Volts 40VA Transformer for each Bypass Damper	(Field Supplied)	_____	_____	_____	_____
Transformer size for Dampers:					
6VA x NUMBER of Dampers			6 X _____	=	_____ VA
150 VA 24 Volt	101ARTN-150	30N75	_____	189.00	_____
250 VA 24 Volt	101ARTN-250	30N76	_____	286.00	_____

TOTAL FOR PAGE #2

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