

Newgaard Mechanical< Inc

Summary Report

Customer: Newgaard Mechanical
 Job Name: SDI Inflator Manufacturing Facility

Job ID: 075-00207
 7/21/2015

<u>Rectangular</u>		<u>Weight</u>		<u>Lbs. / Hr.</u>	<u>Fab</u>	<u>Install</u>	<u>Labor</u>	<u>Fab</u>	<u>Install</u>
Runs of Ductwork	402	Rect. Total Lbs.	30,277.77	Duct	278.10	45.72	Total Labor	170.08	946.70
Feet of Ductwork	3,044.17	Duct Lbs.	21,785.13	Fittings	82.57	16.28	Duct *	83.03	505.08
Standard Lengths	603	Non-Std Lbs.	1,304.78	<u>Ratio</u>			Fittings	87.05	441.62
Non-Std Lengths	92	Rect. Fitt. Lbs.	7,187.86	Fitting	0.71		<i>*Assembly Included 21.955</i>		
Rectangular Fittings	495	Duct Percentage	71.95%	Duct	1		<i>Assembly = Seam Assembly + Joint Attach + Rod Attach + Angle Attach + Seam Seal Labor</i>		
Feet of Fittings	760.67								

<u>Spiral</u>		<u>Weight</u>		<u>Lbs. / Hr.</u>	<u>Fab</u>	<u>Install</u>	<u>Labor</u>	<u>Fab</u>	<u>Install</u>
Runs of Spiral Pipe	177	Spiral Total Lbs.	3,591.98	Pipe	0.00	16.24	Total Labor	4.23	223.39
Feet of Spiral Pipe	1,019.83	Spiral Fitt. Lbs.	100.85	Fittings	23.84	11.89	Straight Pipe	0.00	214.90
Standard Lengths	45	Spiral Pipe Lbs.	3,491.13	<u>Ratio</u>			Fittings	4.23	8.48
Non-Std Lengths	161	Spiral Percentage	97.19%	Fitting	0.08		LongSeam	0.00	0.00
Spiral Fittings	17	L.S. Pipe Lbs.	0.00	Pipe	1				
Feet of L.S. Pipe	0.00								
Feet of Fittings	14.33								

<u>Oval</u>		<u>Weight</u>		<u>Lbs. / Hr.</u>	<u>Fab</u>	<u>Install</u>	<u>Labor</u>	<u>Fab</u>	<u>Install</u>
Runs of Pipe	0	Oval Total Lbs.	0.00	Pipe	0.00	0.00	Total Labor	0.00	0.00
Feet of Pipe	0.00	Oval Fitt. Lbs.	0.00	Fittings	0.00	0.00	Straight Pipe	0.00	0.00
Standard Lengths	0	Pipe Lbs.	0.00	<u>Ratio</u>			Fittings	0.00	0.00
Non-Std Lengths	0	Oval Percentage	0.00%	Fitting	0.00		LongSeam	0.00	0.00
Oval Fittings	0	L.S. Pipe Lbs.	0.00	Pipe	1				
Feet of L.S. Pipe	0.00								
Feet of Fittings	0.00								

<u>Accessories & Catalog</u>		<u>Weight</u>		<u>Labor</u>	<u>Fab</u>	<u>Install</u>
Accessories Count	362	Accessories Lbs.	854.28	Accessories	0.00	180.62
A01 Feet	0.00	A01 Lbs.	0.00	A01	0.00	0.00
A24 Feet	0.00	A24 Lbs.	0.00	A24	0.00	0.00
A35 Feet	0.00	A35 Lbs.	0.00	A35	0.00	0.00
Catalog Count	0	Catalog Lbs.	0.00	Catalog	0.00	0.00

Component Totals *(included in above totals)*

<u>Insulation</u>	<u>SqFt</u>	<u>Labor</u>	<u>Mat'l \$</u>	<u>Component</u>	<u>Labor</u>	<u>Mat'l \$</u>	<u>Component</u>	<u>Labor</u>	<u>Mat'l \$</u>
Wrap	6,171.72	0.00	\$478.17	Hangers	187.60	\$3,161.16	Seam Sealants	0.13	\$0.05
Liner	27,934.25	2.23	\$59,904.09	Angles	0.00	\$0.00	Seams	31.44	\$0.00
				Rods	0.00	\$0.00	Joints	170.69	\$6,414.57
				Vanes	32.00	\$4,457.24	Joint Sealants	30.23	\$2,015.20

Job Summary	<u>Labor Breakdown</u>		<u>P.P.H.</u>	<u>Pounds</u>	<u>Cost Breakdown</u>		Subtotal	\$132,736.37
	Fab	174.31	199.21	34,724.03	Labor	\$7,348.06		
	Install	1,350.71	25.71	<u>Item Cnt.</u>	Material	\$125,388.31	Freight	\$0.00
	Other	16.23		1,453			Grand Total	\$132,736.37*

** Discounts and Markups are not included.*

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WRAP BREAKDOWN

Customer: Newgaard Mechanical
 Job Name: SDI Inflator Manufacturing Facility

Job ID: 075-00207
 7/21/2015

Wrap Type: Fire Wrap 2in

Rectangular Breakdown	<u>SqFt.</u>	<u>Labor</u>	<u>Material Cost</u>
Std. Length Duct	0.00	0.00 <small>(std. & non)</small>	\$0.00
Non-Std. Length Duct	0.00	N/A	\$0.00
Fittings	0.00	0.00	\$0.00
TOTALS	0.00	0.00	\$0.00
Spiral / Round Breakdown	<u>SqFt.</u>	<u>Labor</u>	<u>Material Cost</u>
Pipe	0.00	0.00	\$0.00
Fittings	0.00	0.00	\$0.00
TOTALS	0.00	0.00	\$0.00
Oval Breakdown	<u>SqFt.</u>	<u>Labor</u>	<u>Material Cost</u>
Pipe	0.00	0.00	\$0.00
Fittings	0.00	0.00	0.00
TOTALS	0.00	0.00	\$0.00
Accessories & Catalog Breakdown	<u>SqFt.</u>	<u>Labor</u>	<u>Material Cost</u>
Accessories	15.94	0.00	478.17
Catalog Items	0.00	0.00	0.00
TOTALS	15.94	0.00	478.17

Wrap Type: Wrap FSK 1.5in

Rectangular Breakdown	<u>SqFt.</u>	<u>Labor</u>	<u>Material Cost</u>
Std. Length Duct	0.00	0.00 <small>(std. & non)</small>	\$0.00
Non-Std. Length Duct	0.00	N/A	\$0.00
Fittings	80.00	0.00	\$0.00
TOTALS	80.00	0.00	\$0.00
Spiral / Round Breakdown	<u>SqFt.</u>	<u>Labor</u>	<u>Material Cost</u>
Pipe	430.05	0.00	\$0.00
Fittings	0.00	0.00	\$0.00
TOTALS	430.05	0.00	\$0.00
Oval Breakdown	<u>SqFt.</u>	<u>Labor</u>	<u>Material Cost</u>
Pipe	0.00	0.00	\$0.00
Fittings	0.00	0.00	0.00
TOTALS	0.00	0.00	\$0.00
Accessories & Catalog Breakdown	<u>SqFt.</u>	<u>Labor</u>	<u>Material Cost</u>
Accessories	86.92	0.00	0.00
Catalog Items	0.00	0.00	0.00
TOTALS	86.92	0.00	0.00

WRAP BREAKDOWN

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Wrap Type: Wrap FSK 2in

Rectangular Breakdown	<u>SqFt.</u>	<u>Labor</u>	<u>Material Cost</u>
Std. Length Duct	0.00	0.00 <i>(std. & non)</i>	\$0.00
Non-Std. Length Duct	0.00	N/A	\$0.00
Fittings	56.79	0.00	\$0.00
TOTALS	56.79	0.00	\$0.00
Spiral / Round Breakdown	<u>SqFt.</u>	<u>Labor</u>	<u>Material Cost</u>
Pipe	3,992.98	0.00	\$0.00
Fittings	63.66	0.00	\$0.00
TOTALS	4,056.64	0.00	\$0.00
Oval Breakdown	<u>SqFt.</u>	<u>Labor</u>	<u>Material Cost</u>
Pipe	0.00	0.00	\$0.00
Fittings	0.00	0.00	0.00
TOTALS	0.00	0.00	\$0.00
Accessories & Catalog Breakdown	<u>SqFt.</u>	<u>Labor</u>	<u>Material Cost</u>
Accessories	1,445.38	0.00	0.00
Catalog Items	0.00	0.00	0.00
TOTALS	1,445.38	0.00	0.00

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Accumulative Report

7/21/2015

CUSTOMER NAME

Newgaard Mechanical

JOB NAME

SDI Inflator Manufacturing Facility

QTY or FEET	CODE NAME	DIMENSIONS	Ga.	MATERIAL	LBS	FAB	INSTALL	OTHER	LABOR \$	MATERIAL \$	TOTAL \$
8	A03	Spin in w/Damper	10	N/A N/A	0.00	0.00	2.40	0.00	\$96.00	\$49.60	\$145.60
50	A03	Spin in w/Damper	12	N/A N/A	0.00	0.00	15.00	0.00	\$600.00	\$405.00	\$1,005.00
18	A03	Spin in w/Damper	14	N/A N/A	0.00	0.00	5.40	0.00	\$216.00	\$177.30	\$393.30
11	A03	Spin in w/Damper	15	N/A N/A	0.00	0.00	3.30	0.00	\$132.00	\$0.00	\$132.00
13	A03	Spin in w/Damper	6	N/A N/A	0.00	0.00	3.90	0.00	\$156.00	\$52.26	\$208.26
7	A03	Spin in w/Damper	8	N/A N/A	0.00	0.00	2.10	0.00	\$84.00	\$33.18	\$117.18
20	A12	26 Gauge Adj 90 thru 16 24 ga thru 24	10	N/A N/A	57.00	0.00	12.16	0.00	\$486.40	\$95.60	\$582.00
75	A12	26 Gauge Adj 90 thru 16 24 ga thru 24	12	N/A N/A	378.00	0.00	53.25	0.00	\$2,129.25	\$449.25	\$2,578.50
24	A12	26 Gauge Adj 90 thru 16 24 ga thru 24	14	N/A N/A	169.44	0.00	17.06	0.00	\$682.80	\$201.12	\$883.92
25	A12	26 Gauge Adj 90 thru 16 24 ga thru 24	15	N/A N/A	189.00	0.00	17.80	0.00	\$712.00	\$8.25	\$720.25
1	A12	26 Gauge Adj 90 thru 16 24 ga thru 24	16	N/A N/A	8.06	0.00	0.71	0.00	\$28.52	\$488.82	\$517.34
22	A12	26 Gauge Adj 90 thru 16 24 ga thru 24	6	N/A N/A	31.68	0.00	13.31	0.00	\$532.18	\$52.80	\$584.98
10	A12	26 Gauge Adj 90 thru 16 24 ga thru 24	8	N/A N/A	21.10	0.00	6.06	0.00	\$242.60	\$33.60	\$276.20
48.75	A20	R-8 Flex Duct	10	N/A N/A	0.00	0.00	2.58	0.00	\$103.36	\$96.40	\$199.76
192.50	A20	R-8 Flex Duct	12	N/A N/A	0.00	0.00	10.89	0.00	\$435.60	\$441.90	\$877.50
88.83	A20	R-8 Flex Duct	14	N/A N/A	0.00	0.00	5.08	0.00	\$203.28	\$238.70	\$441.98
71.58	A20	R-8 Flex Duct	15	N/A N/A	0.00	0.00	4.76	0.00	\$190.52	\$19.58	\$210.10
80.58	A20	R-8 Flex Duct	6	N/A N/A	0.00	0.00	4.20	0.00	\$167.96	\$108.42	\$276.38
12.17	A20	R-8 Flex Duct	8	N/A N/A	0.00	0.00	0.65	0.00	\$25.84	\$20.08	\$45.92
93.00	R01	Spiral Pipe	15	24 Galv Spiral Coil	495.31	0.00	28.82	0.42	\$0.00	\$113.97	\$113.97
13.50	R01	Spiral Pipe	16	24 Galv Spiral Coil	76.69	0.00	2.57	0.04	\$0.00	\$74.26	\$74.26
17.08	R01	Spiral Pipe	18	24 Galv Spiral Coil	109.18	0.00	3.92	0.04	\$0.00	\$106.20	\$106.20
92.67	R01	Spiral Pipe	10	26 Galv Spiral Coil	257.87	0.00	20.90	0.42	\$0.00	\$245.61	\$245.61
494.58	R01	Spiral Pipe	12	26 Galv Spiral Coil	1,651.57	0.00	93.42	1.92	\$0.00	\$1,467.48	\$1,467.48
166.58	R01	Spiral Pipe	14	26 Galv Spiral Coil	649.00	0.00	36.51	0.60	\$0.00	\$567.07	\$567.07
117.75	R01	Spiral Pipe	6	26 Galv Spiral Coil	196.60	0.00	20.84	0.52	\$0.00	\$211.76	\$211.76
24.67	R01	Spiral Pipe	8	26 Galv Spiral Coil	54.91	0.00	7.92	0.16	\$0.00	\$58.68	\$58.68
2	R03	90' Gored Elbow	14	24 Galv Spiral Fittings	33.34	0.00	1.76	0.30	\$0.00	\$124.34	\$124.34
2	R11	Concentric Reducer w/Collars	18 x 14 x 10	22 Galv Spiral Fittings	18.52	0.00	1.14	0.06	\$0.00	\$167.94	\$167.94
2	R17	Round Volume Damper	18	22 Galv Spiral Fittings	5.57	0.94	1.46	0.04	\$0.00	\$133.48	\$133.48
2	R17	Round Volume Damper	14	24 Galv Spiral Fittings	2.77	0.94	0.88	0.04	\$0.00	\$97.00	\$97.00
5	R17	Round Volume Damper	8	24 Galv Spiral Fittings	2.26	2.35	1.50	0.10	\$0.00	\$127.50	\$127.50
2	R35	Straight Tap Tee W/OCollar	20 x 18	22 Galv Spiral Fittings	31.36	0.00	0.63	11.03	\$0.00	\$78.08	\$78.08
2	R35	Straight Tap Tap-In W/OCollar	18 x 14	24 Galv Spiral Fittings	7.04	0.00	1.12	0.04	\$0.00	\$58.76	\$58.76
					4,446.26	4.23	404.01	15.73	\$7,224.31	\$6,603.99	\$13,828.30



Client Information and Project Details

Date		ZEN Project #		Project Name				Project Type		
7/21/2015		N/A		Newgaard Mechanical – SDI Inflator Manufacturing Facility				Plan and Spec		
Purchase Order	Purchase Order Number	Job Information Sheet	Coordination Drawings	Client Take-Off	Bid Drawings	Specifications	Addendums	Memos	ZEN Estimate	ZEN Reports
Waiting on Client	N/A	Waiting on Client	N/A	N/A	Received	Received	N/A	N/A	Received	Received
Project Notes										
<ul style="list-style-type: none"> 7/20/15 Per Bill McGovern, Quote rooftop ductwork AC-A2 on M2.5i as an alternate per the key note. 7/21/15 Per Bill McGovern, So not include drops for future rooftop units. Use spin-in taps. Duct drops are estimated. Duct with missing dimensions is estimated. 2" Wrap used for outside of building ductwork in place of 3" Wrap. 										
Client Contacts		Name	Phone	Cell	E-mail			Fax		
Project Manager		Dave Newgaard	480-804-1617	480-804-1617	dnewgaard@newgaardmechanical.com			480-804-0012		
Foreman										
Drafting										
Purchasing										
Billing										
Estimating		Bill McGovern	480-804-1617		bmcgovern@newgaardmechanical.com			480-804-0012		
Client Address			Project Address			Billing Address				
Newgaard Mechanical 1 South Roosevelt Avenue Chandler, AZ 85226			SDI Inflator Manufacturing Facility 4558 East Virginia Street Mesa, AZ 85215			Newgaard Mechanical 1 South Roosevelt Avenue Chandler, AZ 85226				
Shipping Responsibility		Type of Truck	Number of Releases		Terms of Freight		Packaging Detail		Expected Delivery Date	
N/A		N/A	N/A		N/A		N/A		N/A	

Estimator: Germaine Shipley

Account Manager: Scott Lamarre

6200 Harvard Avenue – Cleveland, OH 44105

Phone: 877.600.0274 Fax: 877.600.0274

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Project Scope

Estimate based upon SDI Inflator Manufacturing Facility Dated: 6/23/15 Drawings: M2.1, M2.1i, M2.2, M2.2i, M2.3i, M2.4i, M2.5i, M2.6i, M2.7i, M2.8i, M3.1, M6.1i, M6.2i, M6.3i, M7.1i, M7.2i

Estimate based upon SDI Inflator Manufacturing Facility Specifications Sections: 230713, 233113, 233300 Dated: 6/11/15

Estimate based upon SDI Inflator Manufacturing Facility Addendums: N/A Estimate based upon SDI Inflator Manufacturing Facility Memos: N/A

Estimate valid for: 30 days Project Lead Time from Credit Approval and P.O. Acceptance: TBD

Project Exceptions

GRD's	Air Filters	All Sensors	Thermostats	Humidistats	Smoke Detectors	Motorized Dampers	Backdraft Dampers	Access Doors	Fire Dampers
Smoke Dampers	Sound Attenuators	Air Flow Measuring Stations	Door Grilles	Door Undercuts	Exhaust Fans	Terminal Units	Reheat Coils	Flexible Duct	Panduit
Louvers	Valves	VAV's	Trapeze Duct Hangers and Rods	Flue Duct	B-Vent Duct	Fire Damper Sleeves	Painting	Interstitial Cleaning of Duct	Roof Stands and Supports
Coordination Drawings	Project Schedule of Values	Sales Tax	Material Storage Fees	Samples	On-Site Assembly	Non-Metallic Air Ductwork	Fume Hoods	Vibration Isolation Materials	Burglar Bars
Project Insurance	Hard Copy Submittals	Manifolded Fittings	EPDM Gasketed Fittings	Field Measuring	Spanning-Bracing Angles	Sheet Metal Housings	Roof Curbs & Flashings		

General Project Fabrication Notes

Rectangular Ductwork	Spiral Ductwork	Oval Ductwork	Taps & Take-Offs
All standard length ductwork will be 59" (S&D) or 56" (TDF) sections.	Round fittings are quoted without double lipped EPDM gasket. EPDM gasketed fittings are available for additional charges.	All oval fittings are quoted without double lipped EPDM gasket. EPDM gasketed fittings are available for additional charges.	Included
All S&D connectors to be cut to size and supplied.	All spiral ducts will be delivered in 10' sections. Any cut to length spiral duct will incur additional charges.	All oval ducts will be delivered in 10' sections. Any cut to length oval duct will incur additional charges.	
All TDF corners, cleats, nuts & bolts will be supplied.	All spiral taps/laterals are quoted as saddle taps. Full bodied taps and laterals will incur additional charges.	All oval taps/laterals are quoted as saddle taps. Full bodied taps and laterals will incur additional charges.	
Flex Connectors will be supplied at all fan powered units and their connections.	Flex Connectors will be supplied at all fan powered units and their connections.	Flex Connectors will be supplied at all fan powered units and their connections.	

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RECTANGULAR DUCTWORK AND FITTINGS SCOPE

Duct System	Phase	Exposed	Material	S.P.	Liner	Turning Vanes	Wrap	Double Wall Insulated	
Supply Air	Rooftop Duct	<input type="checkbox"/>	System Default	+2"	2"-150#	<input checked="" type="checkbox"/>	Not Included	N/A	
Supply Air		<input type="checkbox"/>	System Default	+2"	1.5"-150#	<input checked="" type="checkbox"/>	Not Included	N/A	
Return Air	Rooftop Duct	<input type="checkbox"/>		-1"	2"-150#	<input checked="" type="checkbox"/>	Not Included	N/A	
Return Air		<input type="checkbox"/>		-1"	1.5"-150#	<input checked="" type="checkbox"/>	Not Included	N/A	
Exhaust Air		<input type="checkbox"/>		-1"	.5"-200#	<input checked="" type="checkbox"/>	Not Included	N/A	
Transfer Air		<input type="checkbox"/>		+1"	.5"-200#	<input type="checkbox"/>	Not Included	N/A	
		<input type="checkbox"/>				<input type="checkbox"/>			
Gauge	Duct	Fittings	Stiffening	Seams	Seam Sealant	Joint	Butyl Gasket	Turning Vanes	Flex Connectors
SMACNA	Assembled	Assembled	Beaded	SMACNA	<input type="checkbox"/>	SMACNA	<input checked="" type="checkbox"/>	Double Wall	<input checked="" type="checkbox"/>
Ductwork Expanded for Liner	Duct Reinforcement	Manual V.D's W<=32"	Hanger Strap	Joint Plastic	GRD Lined Box Plenums	Unit Drain Pans	Sheet Metal Sleeves	Roof Curbs and Flashings	Cleaning of Ductwork
<input checked="" type="checkbox"/>	Internal Rods	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Rectangular Notes

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 Account Manager: Scott Lamarre

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ROUND DUCTWORK AND FITTINGS SCOPE

Duct System	Phase	Exposed	Material	E.S.P.	Spiral Pipe & Fittings	Snap-Lock Pipe & Fittings	Wrap	Double Wall Insulated	
Supply Air		<input type="checkbox"/>	System Default	+2"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Included	N/A	
Exhaust Air		<input type="checkbox"/>	System Default	-1"	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Not Included	N/A	
		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>			
Gauge	Spiral Pipe	Fitting Construction	Elbows	Radius Elbow CLR	Seam Sealant	Tap Construction	Joint Connections	Butyl Gasket	Flex Connectors
SMACNA	10 Foot Lengths	Tack N' Seal	Adjustable	1.5 CLR	Inside	Saddle	Slip Fit	<input type="checkbox"/>	<input type="checkbox"/>
Dimensions	Reinforcement	Manual V.D's <=32"	Hanger Strap	Joint Plastic	Slip Couplings Included	Flange Connectors	DW Pipe	DW Fittings	Cleaning of Ductwork
Outside	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N/A	N/A	N/A	<input type="checkbox"/>
Labels	Transitions								
Outside	Concentric								
Round Notes									