

Aero 40FP

Parts Manual & Illustrations

Some Parts are sold only as assemblies

For a price quote please contact:

[Request for Quote Parts & Accessories](#)

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Aero 40FP

New technology. Proven design.



Our mid-level machine, the Aero 40FP is a full pressure dry ice cleaning system that includes brand new radial feeding system technology that is aerodynamic loading to reduce wear on pads and rotor; utilizes a compact motor that reduces weight and lowers power consumption; includes an enhanced rotor that provides pulse-free blasting and precision feed rate control; and has an onboard pressure regulator. Customized with accessories that will provide the best clean for your environment, the Aero 40FP provides new technology in a proven design.

ADVANCED RADIAL FEEDING SYSTEM TECHNOLOGY

- Aerodynamic loading reduces wear on pads and rotor, increasing machine life
- Compact motor that reduces weight and lowers power consumption
- Enhanced rotor that provides pulse-free consistent pellet flow and precision feed rate control
- Full range of blast pressure
- Onboard pressure regulator



AERO 40FP FEATURES

- Performance
- Minimal sublimation
- Rugged and mobile
- SureFlow System
- Minimal air/ice usage
- Most advanced nozzles
- Full range of pressure
- Easy to maintain
- ESD (static) control
- Reliable pellet flow
- Safe operation

DRY ICE CAPACITY
40 lb (18.2 kg)

FEED RATE
0-4.5 lbs/min (0-2 kg/min)

DIMENSIONS
36 x 20 x 40 in (91 x 51 x 102 cm)

WEIGHT
257 lbs (117 kg)

AIR CONSUMPTION
50-165 CFM (1.4 - 4.7 m³/min) at 80 PSI (5.5 bar)

BLAST PRESSURE RANGE
20-250 psi (1.4-17.2 bar)

POWER
1/4 HP, AC Motor, 1,750 RPM

SPECA40.2018.01.23

Americas, EMEA, Asia-Pacific. www.coldjet.com
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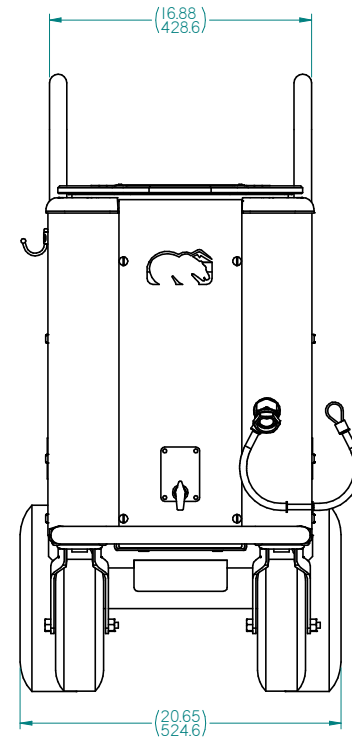
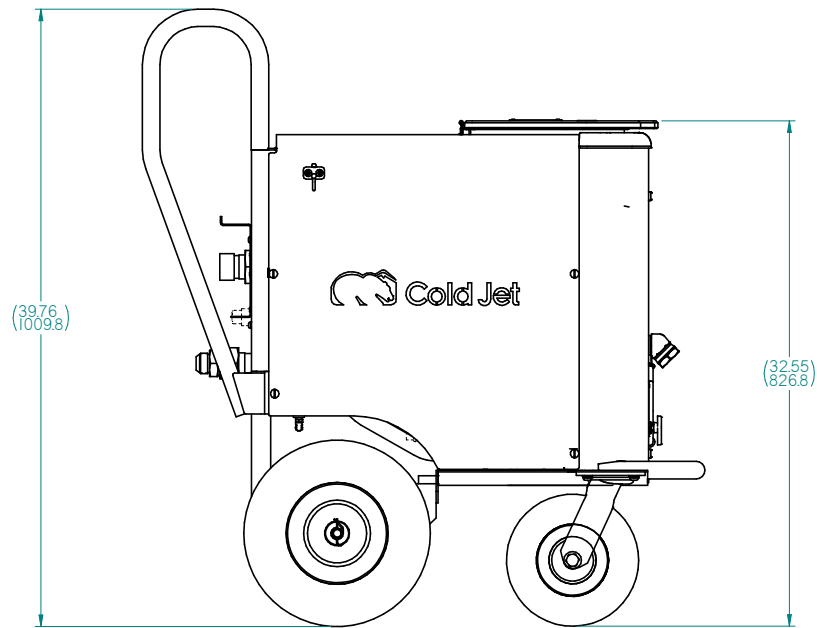
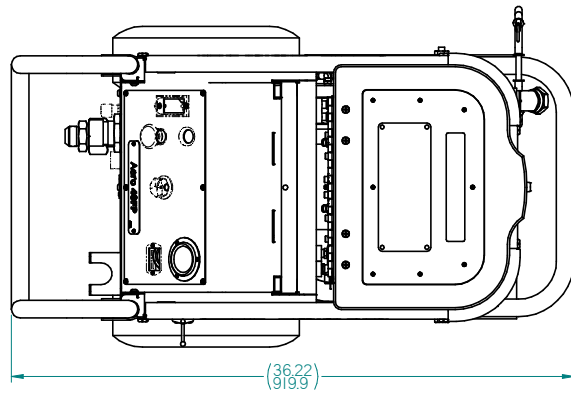
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ANGLES ± .5°
SURFACES

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 **Cold Jet.**

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BLAST UNIT, AERO 40FP
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2 OF 3
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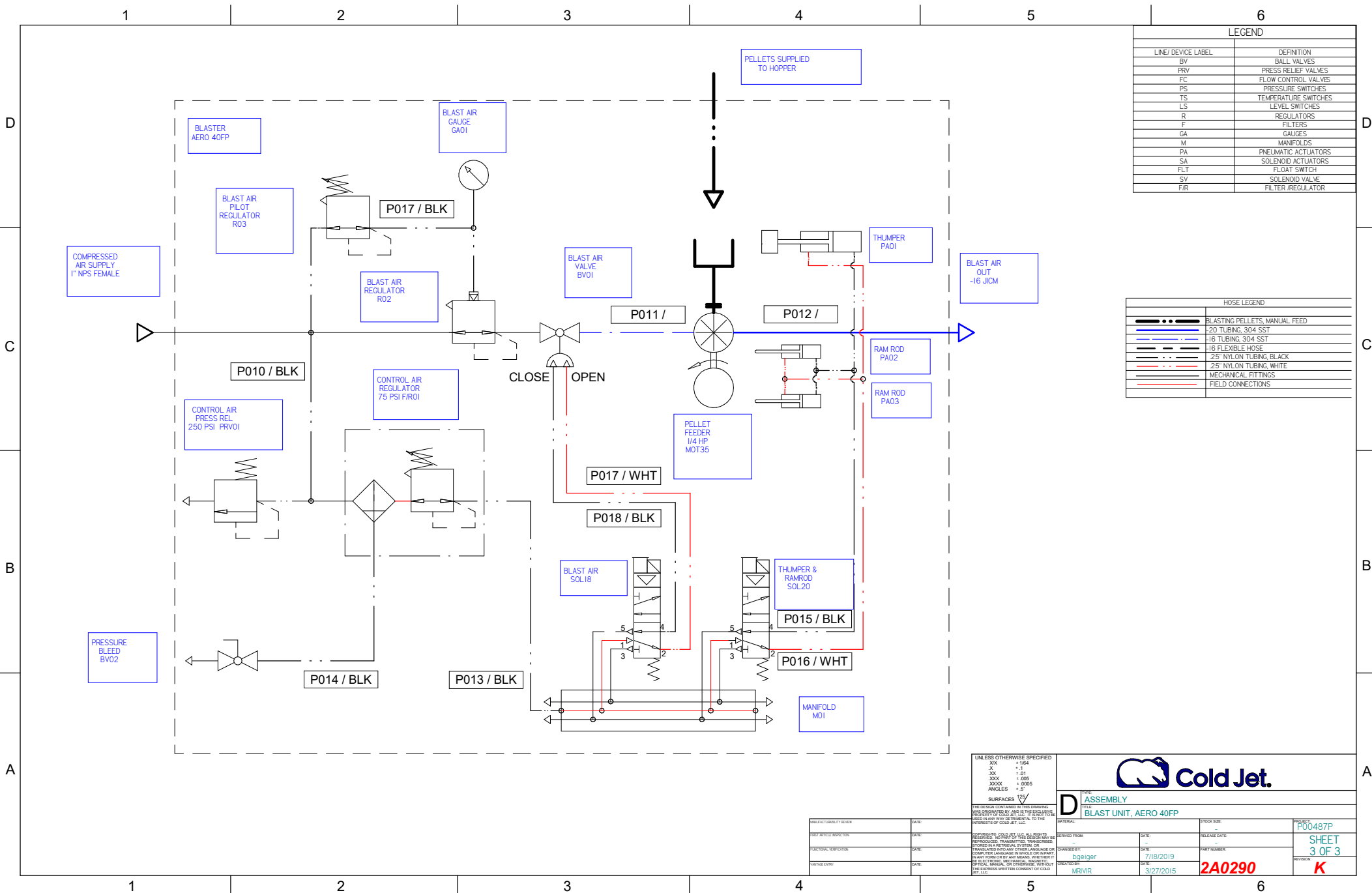
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REVISION HISTORY		
REV	DESCRIPTION	DATE
A	COUPLING 3E0983 WAS 3E0984. FITTING 68PL-4-2 WAS 420661. REVISED 2E0802-8 TO C.	6/6/2015
B	REPLACED 2E1886 WITH 3E2009.	6/11/2015
C	REVISED 2E0802-C TO D.	7/30/2015
D	REVISED 2E0802-G TO E & REPLACED 3E0886-F WITH 3E2009.	8/24/2015
E	REVISED 2E0802-E TO F.	10/6/2015
F	REPLACED ROTOR 3E2006 WITH 3E2006-A.	2/16/2016

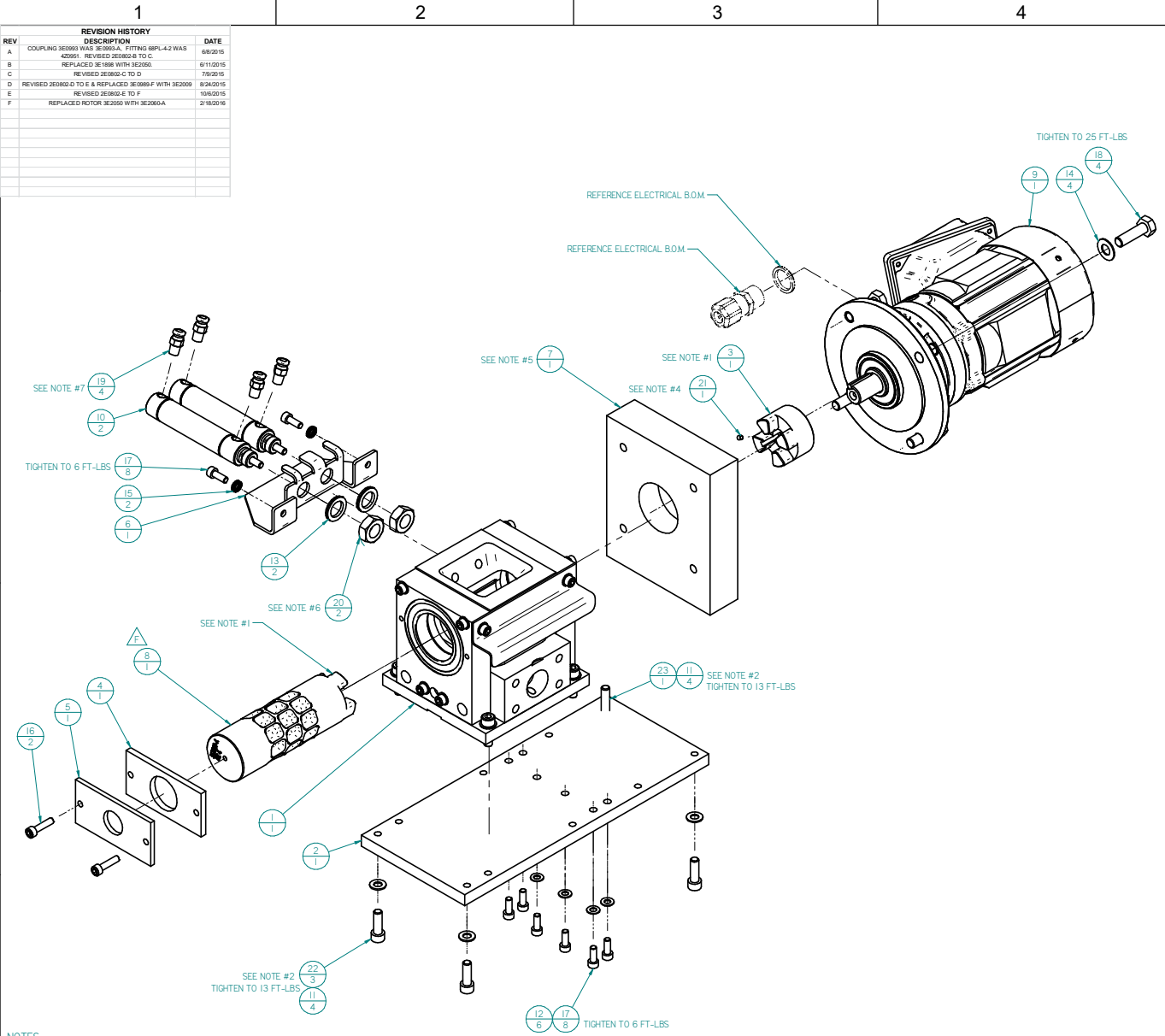
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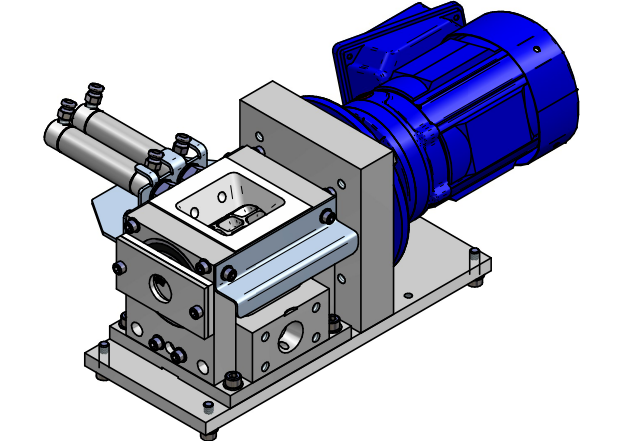
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NOTES:
1. APPLY C# 10100, DOW CORNING MOLYKOTE 33 MEDIUM GREASE.
2. USE BLUE SEMI-PERMANENT THREAD LOCKING AGENT AFTER CLEANING THE THREADS.
3. ALL HARDWARE MUST BE 18-8 STAINLESS STEEL, UNLESS NOTED OTHERWISE.
4. USE RED PERMANENT THREAD LOCKING AGENT AFTER CLEANING THE THREADS.
5. LABEL THE FEEDER ASSEMBLY WITH THE PART NUMBER AND REVISION.
6. TORQUE NUT TO 24 FT-LBS WITH LIGHT OIL ON THREADS.
7. TORQUE 1/8 NPT FITTINGS TO 5 FT-LBS WITH DRY THREADS.



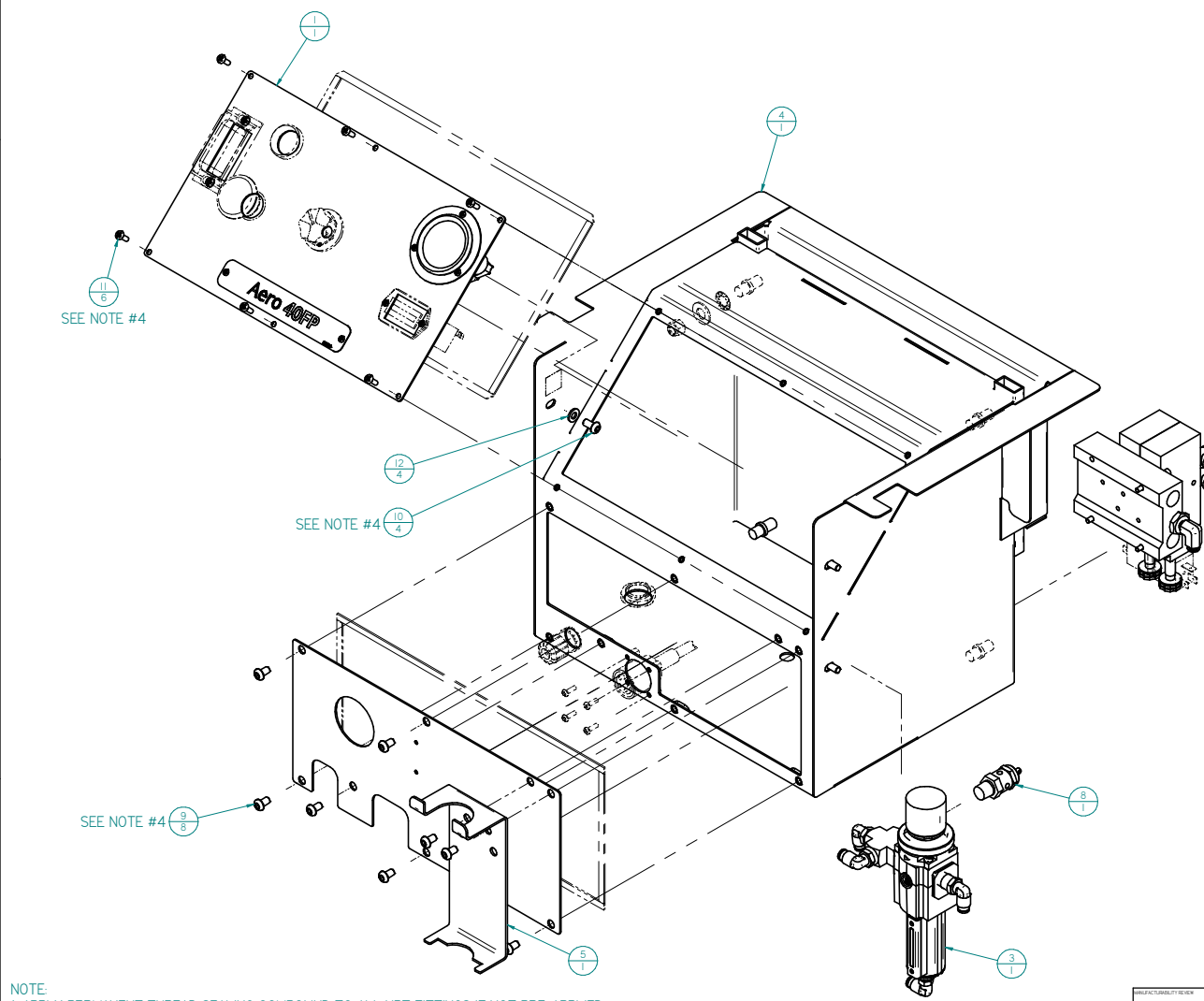
Item Number	Quantity	Document Number	Title
1	1	2E0802	HOUSING, LOW PRESSURE ROTARY FEEDER, CODE 61, AERO SERIES
2	1	3E0985	PLATE, FEEDER MOUNTING, ALUMINUM
3	1	3E0993	COUPLING, ROTOR - PNEUMATIC MOTOR
4	1	3E1494	PAD, ROTOR WEAR, POLYMER
5	1	3E1495	PLATE, ROTOR WEAR, ALUMINUM
6	1	3E1616	BRACKET, RAM-ROD CYLINDERS, 50mm FEEDER
7	1	3E2009	BLOCK, MOTOR MOUNT, ALUMINUM
8	1	3E2060	ROTOR, 4 PPM, 5/32 ROUNDED, ANODIZED ALUMINUM
9	1	4E0239	MOTOR, FLANGE MOUNT, 1/4 HP, 25:1 GEAR RATIO, 750 IN OUTPUT SHAFT
10	2	4I0520	CYLINDER, RAMROD, FEEDER
11	4	4Z0255	WASHER, BELLEVILLE DISC SPRING, .625 X .317 X .047 IN THK, STAINLESS STEEL
12	6	4Z0438	WASHER, BELLEVILLE DISC SPRING, .50 X .255 X .038 IN THK, STAINLESS STEEL
13	2	4Z0447	WASHER, WEDGE LOCK, 5/8 IN AND M16 SCREW SIZE X 1 IN OD X .13 IN THICK, STAINLESS STEEL
14	4	4Z0472	WASHER, BELLEVILLE, .875 X .442 X .045, STEEL
15	2	4Z0798	WASHER, WEDGE-LOCK, 25 INCH ID, STAINLESS STEEL
16	2	5Z0009	SCREW, SOCKET HEAD CAP, M6 X 25 MM LONG, STAINLESS STEEL W/ SEALANT
17	8	5Z0010	SCREW, SOCKET HEAD CAP, M6 X 16 MM LONG, STAINLESS STEEL W/ SEALANT
18	4	5Z0016	SCREW, HEX HEAD CAP, M10 X 35 MM LONG, STAINLESS STEEL W/ SEALANT
19	4	68PL-4-2	FITTING, MALE CONNECTOR, 1/8-27 MPT W/ THREAD SEALANT X 1/4 IN TUBE, NICKEL PLATED BRASS
20	2	NJ-10F	NUT, JAM - .625-18 UNF-2B
21	1	SC-M4-005	SCREW, SET/CLIP POINT, M4 X 5 MM LONG, STAINLESS STEEL
22	3	SH-M8-025	SCREW, SOCKET HEAD CAP, M8 X 25 MM LONG, STAINLESS STEEL
23	1	SH-M8-035	SCREW, SOCKET HEAD CAP, M8 X 35 MM LONG, STAINLESS STEEL



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REVISION HISTORY		
REV	DESCRIPTION	DATE
A	FOR INITIAL RELEASE	7/9/2017

Item Number	Quantity	Document Number	Title
1	1	2G1441	CONTROL PLATE, VARIABLE SPEED W/ MOUNTED COMPONENTS, AERO 40FP
2	1	2I0215	VALVE, SOLENOID 2 STATION W/MOUNTED COMPONENTS
3	1	2I0333	FILTER/REGULATOR, AIR PREPARATION
4	1	3G0287	ENCLOSURE, ELECTRICAL, BLACK, PAINTED STEEL, AERO 40FP
5	1	3J0897	PLATE, NOZZLE HANGER
6	2	4G1007	CORD GRIP, 5-10 MM CORD RANGE, PGII, BLACK, POLYMER
7	2	4G1008	LOCKNUT, PGII, BLACK, POLYMER
8	1	4I0475	VALVE, PRESSURE RELIEF, 1/4 MNPT x 250 PSI
9	8	BH-M6-010	SCREW, BUTTON HEAD CAP, M6 x 1 x 10MM LONG, STAINLESS STEEL
10	4	BH-M6-012	SCREW, BUTTON HEAD CAP, M6 x 12 MM LONG, STAINLESS STEEL
11	6	PP-M4-010	SCREW, PHILLIPS PAN HEAD, M4 X 10 MM LONG, STAINLESS STEEL
12	4	WF-M6	WASHER, STANDARD FLAT, M6, STAINLESS STEEL



NOTE:
1. APPLY PERMANENT THREAD SEALING COMPOUND TO ALL NPT FITTINGS IF NOT PRE-APPLIED.
2. SEE TOP LEVEL SCHEMATIC AND BOM FOR ELECTRICAL REFERENCE PARTS. 120 V AND 230 V PART NUMBERS MAY BE DIFFERENT.
3. USE BLUE SEMI-PERMANENT THREAD LOCKING AGENT AFTER CLEANING THE THREADS.
4. APPLY ANTI-SEIZE COMPOUND AFTER CLEANING THE THREADS.

UNLESS OTHERWISE SPECIFIED

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XX ± .01
XXX ± .005
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ANGLES ± .5°

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D TITLE: ASSEMBLY

ENCLOSURE, ELECTRICAL W/ CONTROL PLATE & MOUNTED COMPONENTS, AERO 40FP

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2G1444-C

07/05/2017

2G1489

P00382Q
SHEET 1 OF 2
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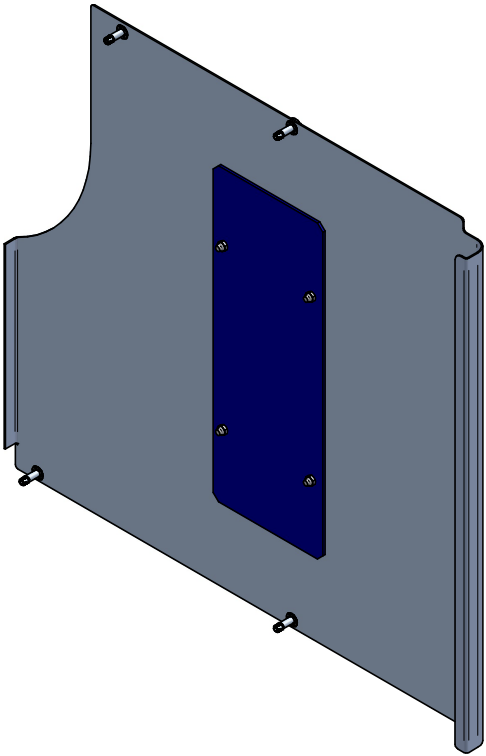
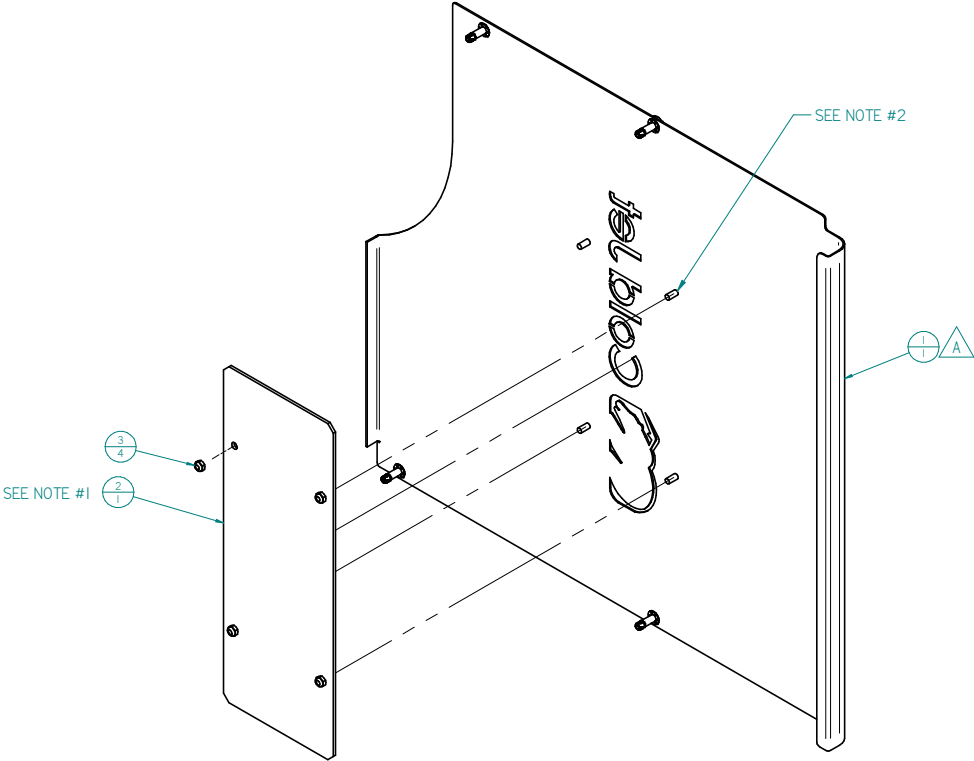
NOTES:

1. REMOVE THE PROTECTIVE COVER FROM THE SURFACE OF THE ACRYLIC SHEET THAT WILL CONTACT THE PANEL ONLY.
2. APPLY ANTI-SEIZE COMPOUND AFTER CLEANING THE THREADS.

MANUFACTURABILITY REVIEW	DATE:	USED IN ANY WAY DETRIMENTAL TO THE INTERESTS OF COLD JET, LLC.	MATERIAL:	STOCK SIZE:	PROJECT: E100070
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REVISION HISTORY		
REV	DESCRIPTION	DATE
A	REPLACE 3J0830, 4J0835 AND 4J0836 WITH 2J0672-A; REMOVE REVISION COLUMN UPDATE NOTES	2/15/2016

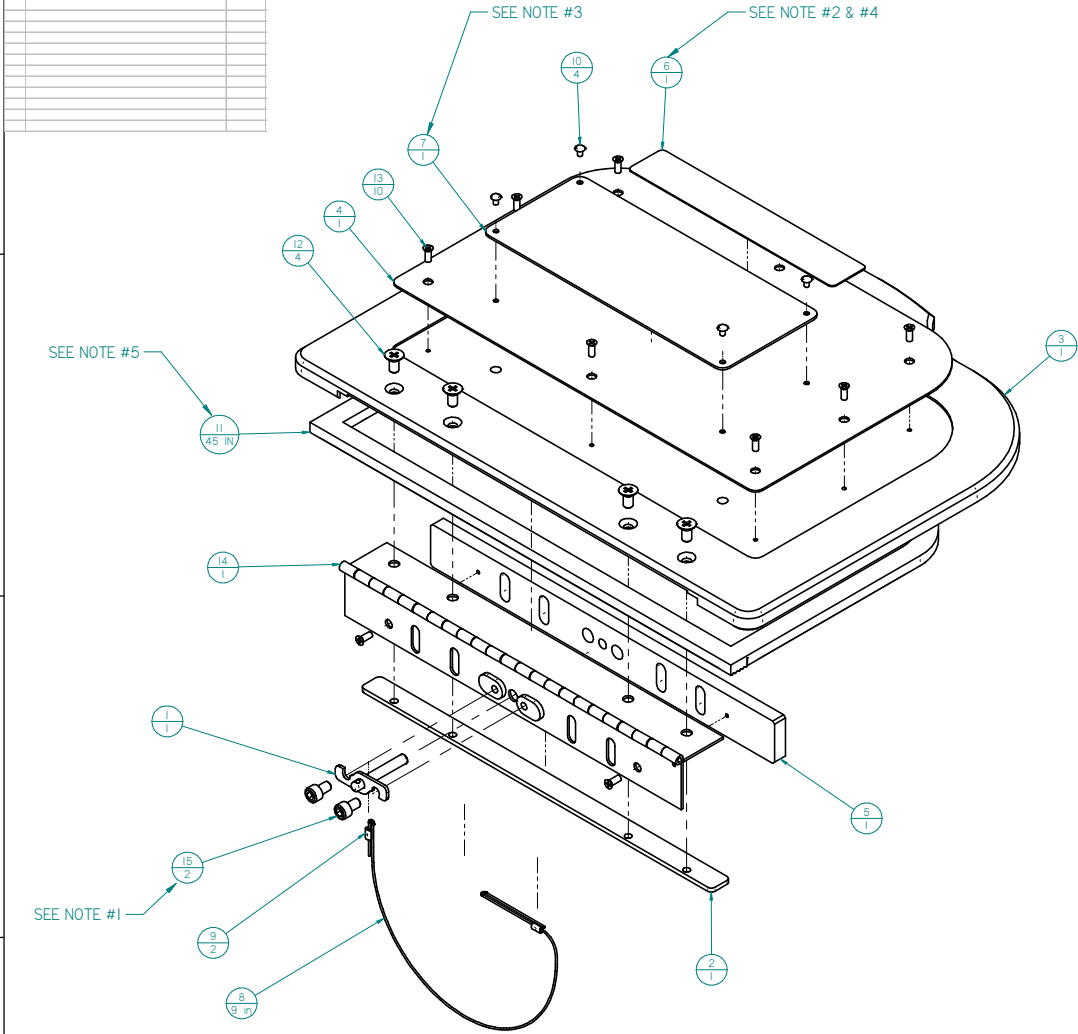
Item Number	Quantity	Document Number	Title
1	1	2J0672	PANEL, LEFT SIDE W/ FASTENERS
2	1	3J0830	PLATE, LOGO BACKING, BLUE
3	4	NL-M5	NUT, NYLOK - M5, STAINLESS STEEL



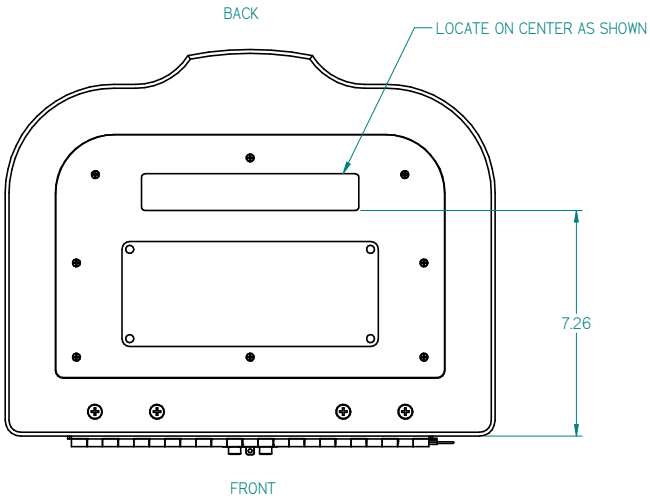
NOTES:
1. REMOVE THE PROTECTIVE COVER FROM THE SURFACE OF THE ACRYLIC SHEET THAT WILL CONTACT THE PANEL ONLY.
2. APPLY ANTI-SEIZE COMPOUND AFTER CLEANING THE THREADS.

UNLESS OTHERWISE SPECIFIED: XXX ± .164 XX ± .1 X ± .11 XXX ± .005 XXXX ± .0005 ANGLES ± .5° SURFACES		Cold Jet.	
D TYPE		ASSEMBLY	
PANEL, LEFT SIDE W/ MOUNTED COMPONENTS		PROJECT	
F00070		SHEET 1 OF 2	
A		2J0643	

1		
REVISION HISTORY		
REV	DESCRIPTION	DATE



Item Number	Quantity	Document Number	Title
1	1	3J0888	LOCK, LID SCREEN, STAINLESS STEEL
2	1	3J2633	NUTPLATE, UPPER HOPPER LID HINGE, STAINLESS STEEL
3	1	3J2645	LID, HOPPER, BLACK POLYMER, AERO 40FP
4	1	3J2646	VENEER, HOPPER LID, SST, AERO 40FP
5	1	3J2669	PLATE, HOPPER LID SPACER, POLYMER, AERO
6	1	3P0466	LABEL, LOGO, ALUMINUM
7	1	3P0482	LABEL, SAFETY WARNINGS
8	9 in	4Z0441	STN STEEL WIRE ROPE, 3/64" DIA
9	2	4Z0442	CRIMP, OVAL SLEEVE, 3/64" WIRE
10	4	4Z0531	RIVET, BLIND 1/8 INCH DIA X .262 5000, .25 INCH, ALUMINUM
11	45 IN	4Z0625	SEAL, WEATHERSTRIP, 5/16" THK 19/32" WD, EPDM RUBBER
12	4	4Z1120	SCREW, PHILLIPS FLAT HEAD, M6 X 12 MM LONG, STAINLESS STEEL, BLACK OXIDE
13	10	4Z1126	SCREW, PHILLIPS FLAT HEAD PLASTITE, 6-19 X 3/8 IN LONG, STAINLESS STEEL
14	1	5Z0073	HINGE, PIANO, 3" WIDE, 1/2" KNUCKLE, MODIFIED, 11.5" LONG, SST
15	2	SH-M6-010	SCREW, SOCKET HEAD CAP, M6 X 10 MM LONG, STAINLESS STEEL



NOTES:
1. USE BLUE SEMI-PERMANENT THREAD LOCKING AGENT AFTER CLEANING THE THREADS.
2. APPLY CJ# 15084, DOW CORNING 732 MULTIPURPOSE SILICONE.
3. MAKE SURE LABEL GRAPHICS FACE TOWARDS FRONT.
4. MAKE SURE LABEL GRAPHICS FACE TOWARDS BACK.
5. REMOVE ALL MOLD RELEASE, SCUFF INSIDE OF TROUGH WITH ROTARY FLAP WHEEL, CLEAN WITH BESTINE, APPLY ADHESIVE IN UNIFORM BEAD, INSTALL WEATHERSEAL, APPLY CURING FIXTURE

UNLESS OTHERWISE SPECIFIED

XXX	± .164
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XX	± .11
XXX	± .005
XXXX	± .005
XXXX	± .005
ANGLES	± .5°

SURFACES

THE DESIGN CONTAINED IN THIS DRAWING IS THE PROPERTY OF COLD JET, LLC. IT IS TO BE USED IN ANY WAY IS ESSENTIAL TO THE INTERESTS OF COLD JET, LLC.

DATE: 07/31/2015

CREATED BY: bgraves

Cold Jet.

ASSEMBLY

LID, HOPPER W/ MOUNTED COMPONENTS, AERO 40FP

DATE: 07/31/2015

RELEASE DATE: 07/31/2015

REVISION: 1

PRODUCT: PD00287

SHEET 1 OF 1

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SCHEMATIC

ITEM	USER1	TAGS	QTY	SUB	DESC	MISC1
1	3G0085-A	PJ11	1		CABLE	MOLDED PANEL CONNECTION
2	4G1501		50in.		CABLE	16/4 W/ SHIELD
3	4H0150	L1	180in.		CABLE	16/3 TYPE OS
4	4H0149	L1	1		NEMA PLUG	PLUG CEE7/7 16 AMPS
5						
6	13464		2		FULL INS CONNECTOR	
7	4G0750	VR33	1		KNOB	BLACK
8	4G1031	VR33	1		POTENTIOMETER	10K OHMS
9	4G1043	CB2	1		CIRCUIT SWITCH	
10	4G1044	CB2	1		CIRCUIT COVER	
11	4G1155	PB6	1		BASE	SW 1NC CONTACTS 22.5mm
12	4G1187	TD17	1		HOUR METER	240VAC
13	4G1206	LT14	1		BASE LIGHT MODULE	220VAC LED
14	4G1255	LT14	1		PILOT HEAD LIGHT	22.5 mm
15	4G1256	LT14	1		PILOT LIGHT BASE	
16	4G1307		2		CONNECTOR	18-22 AWG
17	4G1502	PB6	1		PUSHBUTTON	
18	4I0279	SOL18, SOL20	2		COIL, SOLENOID	220 VAC, 50/60 Hz
19	4G1793		1		CORD GRIP	
20	4G1794		1		LOCKNUT	
21	4G1007		2		GRIP	CORD PG11
22	4G1008		2		LOCKNUT	PG11
23	4G1009		1		GRIP	CORD PG16
24	4G1010		1		LOCKNUT	PG16
25	4I0152-A	PJ18, PJ20	2		CABLE	6' DIN T"
26	4P0021		2		LABEL	PROTECTIVE GROUND
27	4P0023A		1		LABEL	EARTH GROUND GRAPHIC
28	4G0063		1		END CLAMP	
29						
30						
31	4Z0045		76in.		WEATHERSTRIP INSULATION	
32						
33	4G1358		11		CONNECTOR, INSULATION	DISPLACEMENT, 16-22AWG
34	4G1039-A	XF8	1		TRANSFORMER	6VA 230/115VAC
35	2H0020	XF3	1		TRANSFORMER	1KVA 120/230 VAC
36	4G1814	PWS12	1		LED POWER SOURCE	
37	3G0183	PWS12	1		POWER SUPPLY BRACKET	
38	3G0208		1		SUB-PANEL	
39	4G0058		4		TERMINAL BLOCK	#22 - #10 AWG
40						
41	4G0066		2		HORIZONTAL JUMPER BAR	
42	4G0068		11in.		DIN TRACK	
43	4G0081		50in.		CABLE	3 COND.
44	4G0084-BL		120in.		WIRE	
45	4G0084-R		240in.		WIRE	
46	4G0084-W		100in.		WIRE	
47	4G0423-B		40in.		WIRE	
48	4G0423-W		6in.		WIRE	
49	4G0423-Y/G		40in.		WIRE	
50	4G1361		5		CONNECTOR, INSULATION	DISPLACEMENT, 16-22AWG, T
51						
52						

53	4G1041	FU8	1		FUSE	50 MA
54	4G1108-A	TD19	1		RECYCLING TIMER	
55	4G1218	FU4, FU8	2		FUSED TERMINAL BLOCK	W/ BLOWN
56	4G1224	FU4	1		FUSE	250 VAC 6.3A
57						
58						
59	4G1400		4		TERMINAL BLOCKS	3 AMP
60	4G1401		4		TERMINAL BLOCK JUMPER	10 POLE
61	4G1490	CR6	1		RELAY	240 V
62	4G1037	CR6,CR11,CR12	3		SOCKET RELAY	
63	4G1038	CR6,CR11,CR12	6		RELAY CLIP	
64	4G1529	CR11,CR12	2		RELAY CONTROL	24VAC 4 POLE
65	4G1588	VFD30	1		VFD CONTROLLER	230 VAC 1/2HP
66	4H0200-A	LF27	1		FILTER	10 AMP TRANSIANT
67	RNR-E		7		LUG, RING	#10, 18-20AWG
68	FNR-C		5		LUG, FORK	22-18 #6 STUD
69	RNB-E		3		LUG, RING	#10, 14-16 AWG
70	WF-M4		2		WASHER, FLAT	M4
71	WLE		8		WASHER, LOCK	
72	WL-M4		12		WASHER, LOCK	M4
73	PP-M4-010		10		SCREW, 10mm	PHILLIPS PAN HEAD
74	NL-06C		4		NUT, NYLON, 3/8"	
75	WI-06		4		WASHER, LOCK, 3/8"	INTERNAL TOOTH
76	WF-06		4		WASHER, FLAT, 3/8"	
77	WL-08		1		WASHER, LOCK	1/2 IN
78	HH-08C-016		1		SCREW, 1/2 - 13 X 1"	HEX HEAD CAP
79	PP-M3-008		2		SCREW	PHILLIPS PAN HEAD
80	4Z0417-A		4		SCREW, #6-19 X 1/2"	PHILLIPS PAN HEAD
81	4G0743		7		SCREW	10-32 x3/8
82	PP-M4-012		2		SCREW, 12mm	PHILLIPS PAN HEAD
83	4G1259	PB6	1		MODULE, PUSHBUTTON LT.	BLUE, 230 V
84	4G1557	PB6	1		CONTACT BLOCK, NO.	10 AMP, 600 V
85	13488		10		CONNECTOR, CABLE END, #18, RED	
86	WO-M4		2		WASHER, OVERSIZED,	M4XM12 OD.

BILL OF MATERIAL

UNLESS OTHERWISE SPECIFIED:
X.XX ± .164
X ± .1
X.X ± .1
XXX ± .005
X.XXX ± .005
ANGLES ± .5°

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