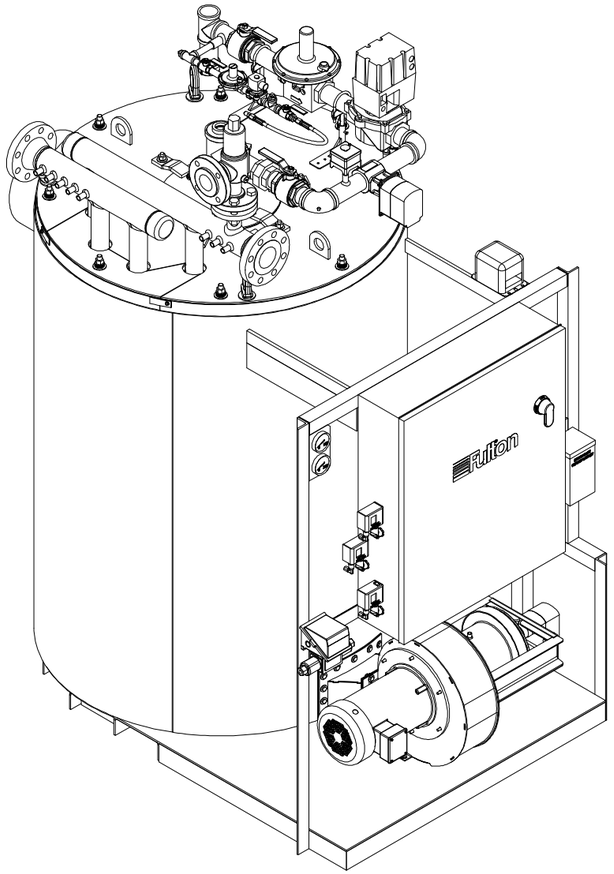
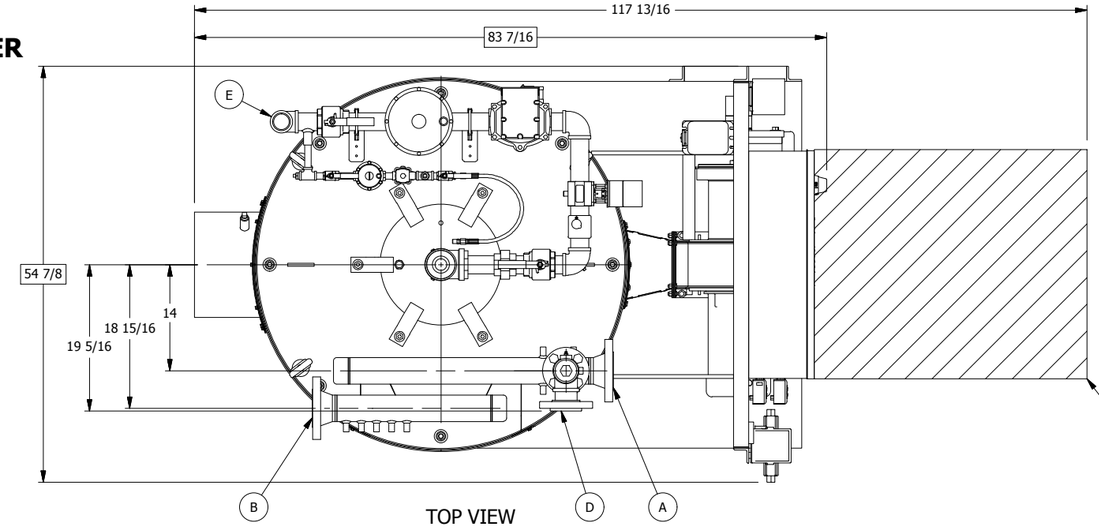
PRODUCT DATA SUBMITTAL

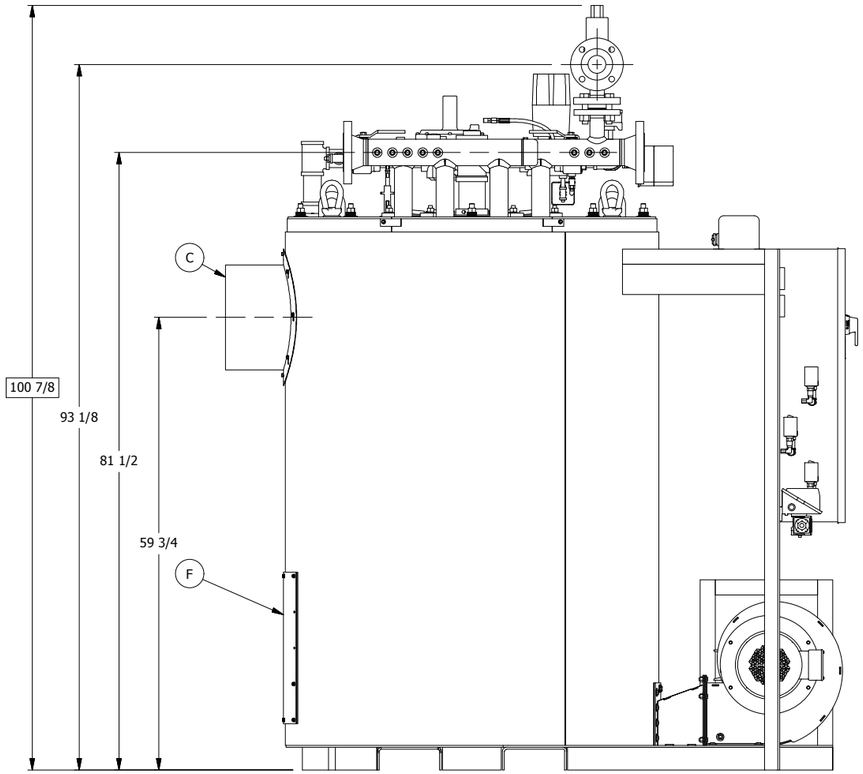
FT-0320-C - VERTICAL COIL THERMAL FLUID HEATER



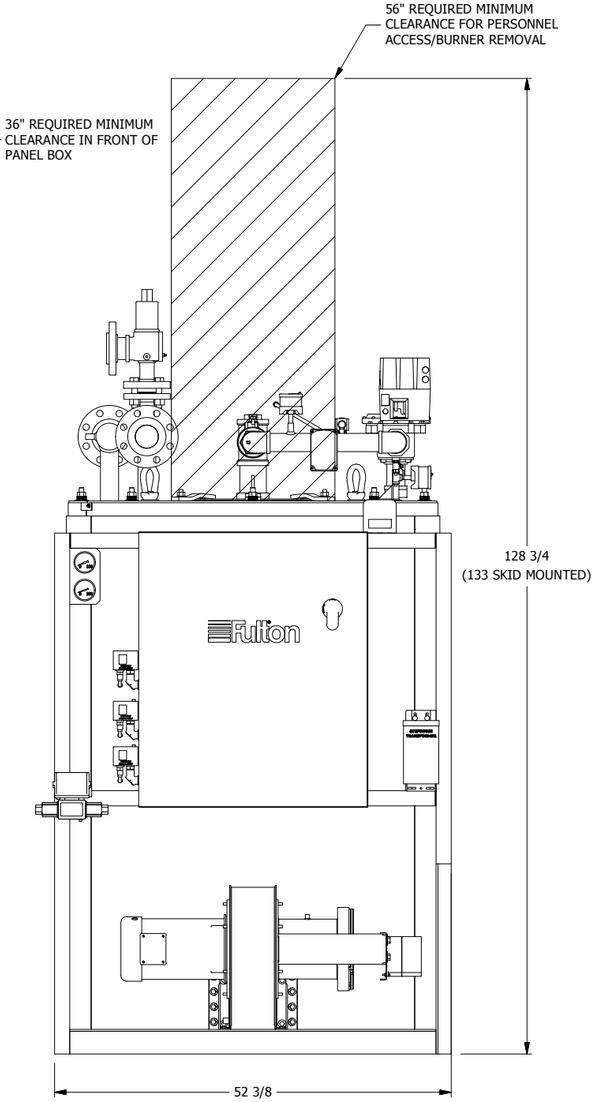
ISOMETRIC VIEW



TOP VIEW



LEFT SIDE VIEW



FRONT VIEW

HEATER CONNECTIONS			
ITEM	DESCRIPTION	SIZE	TYPE
A	THERMAL FLUID SUPPLY	3"	CL300
B	THERMAL FLUID RETURN	3"	CL300
C	EXHAUST FLUE (SEE NOTE 3)	14"	- - -
D	SAFETY RELIEF VALVE	2 1/2"	CL150
E	GAS INLET	2"	N.P.T.
F	INSPECTION OPENING	- - -	- - -

ESTIMATED DRY WEIGHT:	5,300 LBS
ESTIMATED THERMAL FLUID CONTENT:	68 GALLONS

NOTES:
1. ALL DIMENSIONS ARE FOR REFERENCE ONLY. DETAILS SUBJECT TO CHANGE WITHOUT NOTICE.
2. PORTIONS OF THE PIPING AND COMPONENTS MAY BE DISASSEMBLED FOR SHIPPING.
3. EXHAUST FLUE CONNECTION, 18" RECOMMENDED VERTICAL STACK DIAMETER.
4. PLEASE REFER TO TECHNICAL DATA SHEET FOR INFORMATION REGARDING HEATER SPECIFICATIONS.

REV	REVISION DESCRIPTION	B.O.M.	ELEC. ENG	MECH. ENG	CHECKED	APPROVED
-						

REVISION HISTORY

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTION & WHOLE VALUE ± 1/8
(1) PLACE DEC. ± 0.03
(2) PLACE DEC. ± 0.015
(3) PLACE DEC. ± 0.005
ANGLE ± 0.5 DEG
SURFACE FINISH 250 MICRO-INCHES

This design and drawings are proprietary and are the exclusive property of Fulton Group N.A., Inc. The corporation does not permit their use except with prior written consent.

The items shown in this drawing may be covered by one or more patents of Fulton Group N.A., Inc.

THIRD ANGLE PROJECTION

1 OF 2

DRAWN BY: D. HARRINGTON	6/20/2017	MECH. ENG: C.J.	6/21/2017	JOB NUMBER:	
CHECKED BY: D.T.J.	6/27/2017	ELEC. ENG: L.N.L.	6/21/2017	PROJECT NAME:	
B.O.M. REVIEW N/A		APPROVED BY: D.S.J.	6/21/2017	PROJECT MANAGER:	

DESCRIPTION:
FT-0320-CU PRODUCT DATA SUBMITTAL, NATURAL GAS STANDARD EMISSIONS, CSD-1, NEMA 1

SHEET 1 OF 2

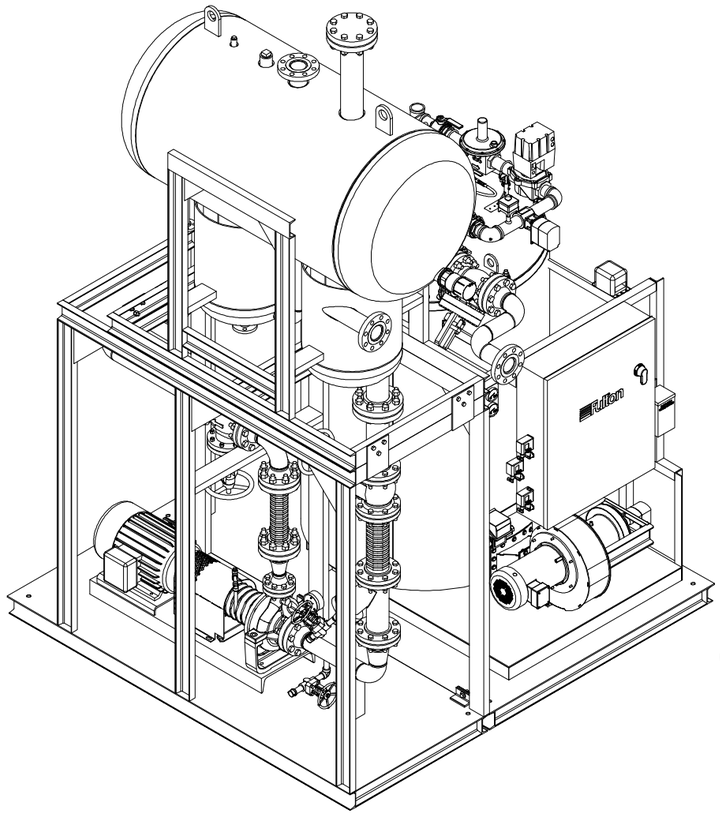
Fulton Group N.A., Inc
972 Centerville Road
Pulaski, New York USA 13142

DRAWING NUMBER
PDS-TH0320

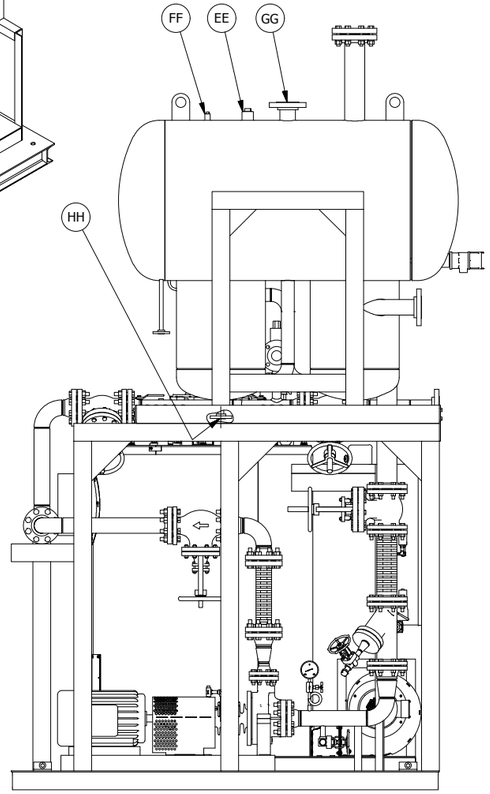
REV
-

PRODUCT DATA SUBMITTAL

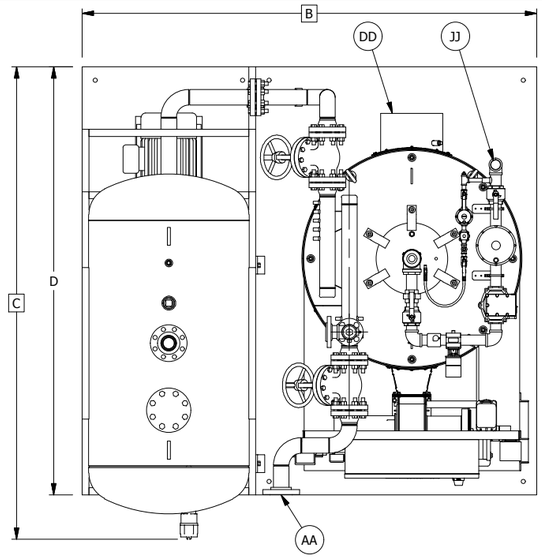
FT-0320-C SKID MOUNTED WITH DEAN RA3000 PUMP AND COMBINATION TANK



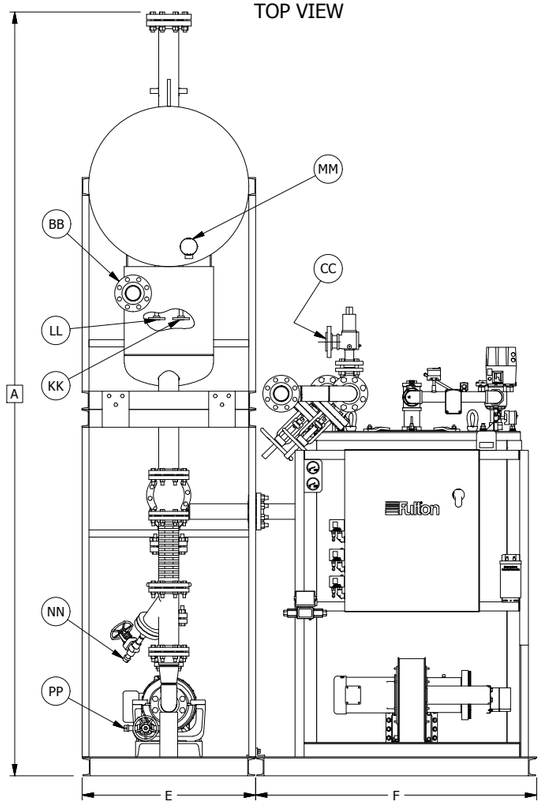
ISOMETRIC VIEW



LEFT SIDE VIEW



TOP VIEW



FRONT VIEW

NOTES:

1. ALL DIMENSIONS ARE FOR REFERENCE ONLY. DETAILS SUBJECT TO CHANGE WITHOUT NOTICE.
2. THERMAL FLUID CONNECTION SIZES ARE BASED ON THE PUMP FLOW RATE. CONSULT FACTORY FOR SKID CONNECTION SIZES.
3. PORTIONS OF THE PIPING AND COMPONENTS WILL BE DISASSEMBLED FOR SHIPPING.
4. D.A. TANK IS SHIPPED SEPARATELY.
5. FORK HOLES ARE LOCATED ON RIGHT SIDE OF SKIDS.
6. LOCAL CODE OR SEISMIC RESTRAINT MAY REQUIRE ADDITIONAL FIELD SUPPORTS. THESE SUPPORTS ARE TO BE ADDED IN THE FIELD BY OTHERS.
7. PLEASE REFER TO THE O&M MANUAL FOR ADDITIONAL INFORMATION REGARDING CLEARANCES AND INSTALLATION INSTRUCTIONS.
8. DIMENSIONS SHOWN ARE BASED ON THE REFERENCED COMBINATION TANK SIZE. DIMENSIONS ARE IN INCHES.

DIMENSIONS PER COMBINATION TANK SIZE[8]				
	FT-0500-L	FT-1000-L	FT-1500-L	FT-2000-L
A	150 3/8	171 3/8	170 3/4	191 3/8
B	96	102	102	108
C	107 5/8	108 9/16	118 1/8	114 1/8
D	92	96	96	100
E	N/A	39	39	45
F	N/A	63	63	63

STANDARD SKID SPECIFICATION CHART	
NEMA RATING:	NEMA 1
MOTOR VOLTAGE:	460/60/3
CONTROL VOLTAGE:	120/60/3
HEATER	
HEATER MODEL:	FT-0320-CU
HEATER OUTPUT:	3,200,000 BTU/HR
FUEL TYPE:	NATURAL GAS
GAS TRAIN CODE:	CSD-1
ASME CODE:	SECTION VIII DIV. 1
MAXIMUM ALLOWABLE WORKING PRESSURE:	150 PSIG
SRV SET PRESSURE:	100 PSIG
BLOWER MOTOR HP:	5 HP
PUMP	
PUMP MODEL:	RA3000
PUMP FLOW:	250 GPM
PUMP HEAD:	182 FT
PUMP HP:	20 HP

STANDARD SKID CONNECTIONS	
ITEM	DESCRIPTION
AA	THERMAL FLUID OUTLET (SUPPLY)
BB	THERMAL FLUID INLET (RETURN)
CC	HEATER SAFETY RELIEF VALVE
DD	HEATER FLUE OUTLET
EE	DA SAFETY RELIEF VALVE (PLUGGED)
FF	NITROGEN BLANKET (PLUGGED)
GG	DA TANK VENT
HH	DA TANK DRAIN
JJ	GAS INLET
KK	HIGH LEVEL CHECK PIPE
LL	LOW LEVEL CHECK PIPE
MM	LIQUID LEVEL SWITCH
NN	STRAINER DRAIN (CAPPED)
PP	DRAIN AND FILL (CAPPED)

REV	REVISION DESCRIPTION	B.O.M.	ELEC. ENG	MECH. ENG	CHECKED	APPROVED
-						

REVISION HISTORY

UNLESS OTHERWISE NOTED DIMENSIONS ARE IN INCHES
TOLERANCES
FRACTION & WHOLE VALUE ± 1/8
(1) PLACE DEC. ± 0.03
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THIRD ANGLE PROJECTION

2 OF 2

DRAWN BY: D. HARRINGTON 6/20/2017	MECH. ENG: C.J. 6/21/2017	JOB NUMBER:
CHECKED BY: D.T.J. 6/27/2017	ELEC. ENG: L.N.L. 6/21/2017	PROJECT NAME:
B.O.M. REVIEW: N/A	APPROVED BY: D.S.J. 6/21/2017	PROJECT MANAGER:

DESCRIPTION: FT-0320-CU PRODUCT DATA SUBMITTAL, NATURAL GAS STANDARD EMISSIONS, CSD-1, NEMA 1

SHEET 2 OF 2

Fulton Group N.A., Inc
972 Centerville Road
Pulaski, New York USA 13142

DRAWING NUMBER: PDS-TH0320

REV: -