

DESIGN NOTES

Code ASME Sec IV HLW

Design Pressure 125 psi

Test Pressure 162.5 psi

Heads 3/16" 414G

Shell 10 Gauge 516 Grade 70

Interior Ultonium Glass

Insulation 2" High Density Foam 12.5 R

Exterior Baked Enamel Steel Jacket

Radiograph None

Capacity 240 gallons / 260 nominal

Tare Weight 645 lbs.

Supports Rail

MATERIAL SPECIFICATIONS

Heads Carbon Steel

Shell Carbon Steel

Couplings Carbon Steel

Flanges

Pipe

Manway None

Reinforcement

OPENINGS / HEIGHTS

MARK	SIZE	HEIGHT	SERVICE
A	2.5"		Outlet
B	1 1/4"		Relief
C	3"	27 1/2"	Feed
D	3"		Recirculation
E	3"		Recirculation
F	3"		Recirculation
G	1"		Drain
H		19 1/2"	
HT		93"	
DIA		34"	

WARRANTY**FIRST THROUGH FIVE YEAR – LIMITED WARRANTY:**

Laars warrants the lined steel tank for leakage caused by defects in materials and /or workmanship for five years from date of installation. If the tank is found to be defective in manufacture, Laars will provide replacement of tank.

ONE YEAR – LIMITED WARRANTY: Laars warrants parts to be free from manufacturing defects in material and workmanship for one year from date of installation. If parts are found to be defective, Laars will provide replacement of parts.

PROJECT

Customer

Scale Not to Scale

Date

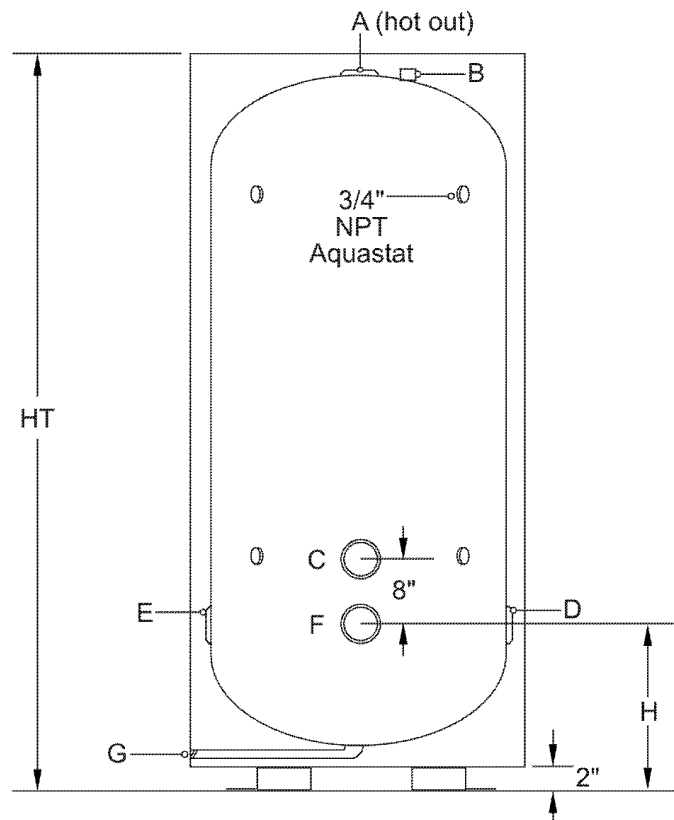
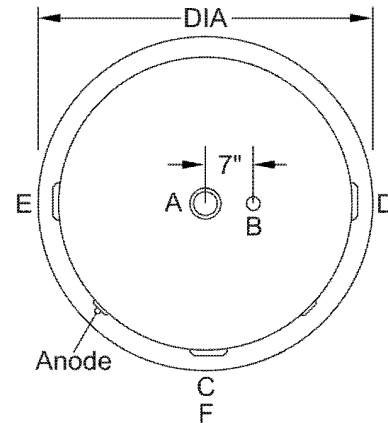
Customer P.O. #

Drawing Number J-30-085

Vertical Storage Tank

Custom with Jacket

Size: 30-085

Submittal Data

LAARS
Heating Systems Company
 A subsidiary of **BRADFORD WHITE** Corporation

International Sales
 1869 Sismet Road, Mississauga
 Ontario, Canada L4W 1W8
 905.238.0100 • Fax 905.366.0130

Headquarters
 20 Industrial Way, Rochester, NH 03867
Customer Service and Product Support
 800.900.9276 • Fax 800.559.1583

Technical Support
 603.335.6300 • Fax 603.335.3355

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DESIGN NOTES

Code ASME Sec IV HLW

Design Pressure 125 psi

Test Pressure 162.5 psi

Heads 3/16" 414G

Shell 10 Gauge 516 Grade 70

Interior Ultonium Glass

Insulation 2" High Density Foam 12.5 R

Exterior Baked Enamel Steel Jacket

Radiograph None

Capacity 280 gallons / 303 nominal

Tare Weight 673 lbs.

Supports Rail

MATERIAL SPECIFICATIONS

Heads Carbon Steel

Shell Carbon Steel

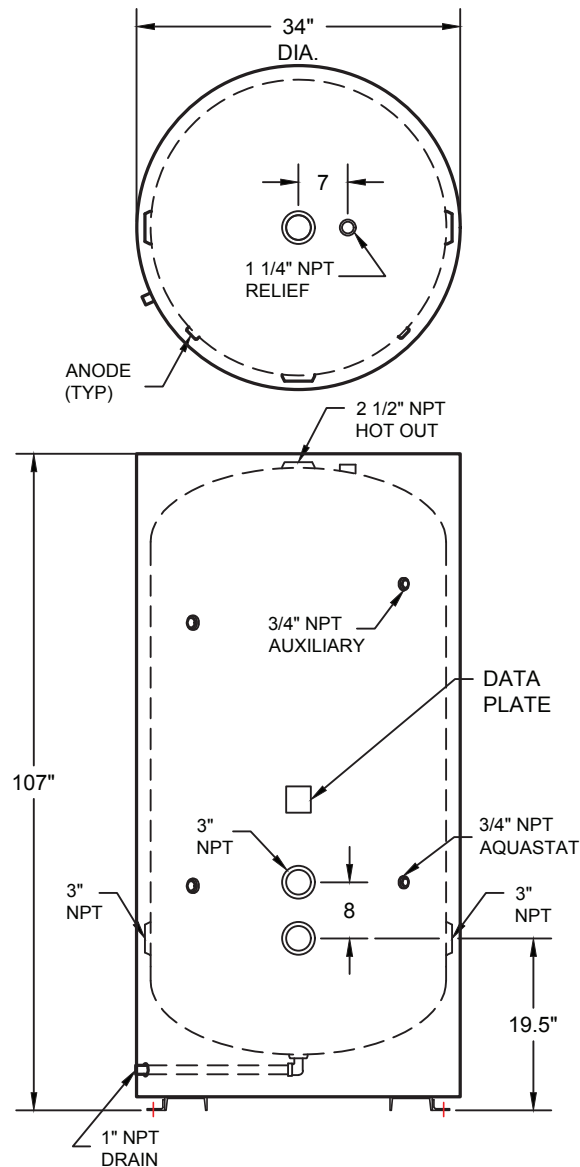
Couplings Carbon Steel

Flanges

Pipe

Manway None

Vertical Storage Tank

Custom with Jacket**Size: 30-099****Submittal Data****WARRANTY****FIRST THROUGH FIVE YEAR – LIMITED WARRANTY:**

Laars warrants the lined steel tank for leakage caused by defects in materials and /or workmanship for five years from date of installation. If the tank is found to be defective in manufacture, Laars will provide replacement of tank.

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PROJECT

Customer

Scale Not to Scale

Date

Customer P.O. #

Drawing Number J-30-099

CONSTRUCTION:

MATERIAL - CARBON STEEL

INTERIOR LINING - PORCELAIN ENAMEL

EXTERIOR - INSULATED, STEEL JACKET

SACRIFICIAL ANODES - MAGNESIUM

M.A.W.P. - 125 PSIG

MAX. OPERATING TEMP. - 180 F

WEIGHT EMPTY - 630 LBS

WEIGHT FLOODED - 2,967 LBS

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DESIGN NOTES

Code	ASME Sec IV HLW
Design Pressure	125 psi
Test Pressure	162.5 psi
Heads	3/16" 414G
Shell	3/16" 516 Grade 70
Interior	Ultonium Glass
Insulation	2" High Density Foam 12.5 R
Exterior	Baked Enamel Steel Jacket
Radiograph	None
Capacity	285 gallons / 320 nominal
Tare Weight	835 lbs.
Supports	Rail

MATERIAL SPECIFICATIONS

Heads	Carbon Steel
Shell	Carbon Steel
Couplings	Carbon Steel
Flanges	
Pipe	
Manway	None
Reinforcement	

OPENINGS / HEIGHTS

MARK	SIZE	HEIGHT	SERVICE
A	2.5"		Outlet
B	1 1/4"		Relief
C	3"	29"	Feed
D	3"		Recirculation
E	3"		Recirculation
F	3"		Recirculation
G	1"		Drain
H		21"	
HT		72"	
DIA		40"	

WARRANTY**FIRST THROUGH FIVE YEAR – LIMITED WARRANTY:**

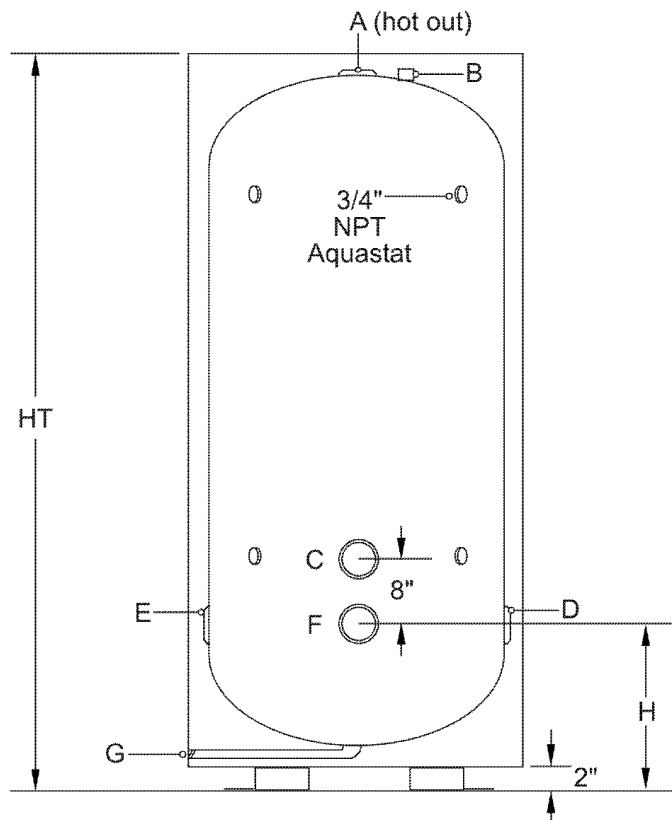
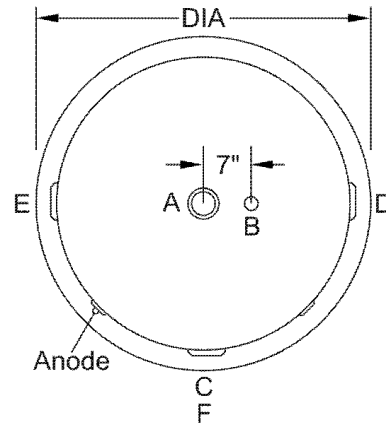
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PROJECT

Customer	
Scale	Not to Scale
Date	
Customer P.O. #	
Drawing Number	J-36-078

Vertical Storage Tank

Custom with Jacket**Size: 36-072****Submittal Data**

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 1869 Sismet Road, Mississauga
 Ontario, Canada L4W 1W8
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DESIGN NOTES

Code	ASME Sec IV HLW
Design Pressure	125 psi
Test Pressure	162.5 psi
Heads	3/16" 414G
Shell	3/16" 516 Grade 70
Interior	Ultonium Glass
Insulation	2" High Density Foam 12.5 R
Exterior	Baked Enamel Steel Jacket
Radiograph	None
Capacity	310 gallons / 344 nominal
Tare Weight	860 lbs.
Supports	Rail

MATERIAL SPECIFICATIONS

Heads	Carbon Steel
Shell	Carbon Steel
Couplings	Carbon Steel
Flanges	
Pipe	
Manway	None
Reinforcement	

OPENINGS / HEIGHTS

MARK	SIZE	HEIGHT	SERVICE
A	2.5"		Outlet
B	1 1/4"		Relief
C	3"	29"	Feed
D	3"		Recirculation
E	3"		Recirculation
F	3"		Recirculation
G	1"		Drain
H		21"	
HT		86"	
DIA		40"	

WARRANTY**FIRST THROUGH FIVE YEAR – LIMITED WARRANTY:**

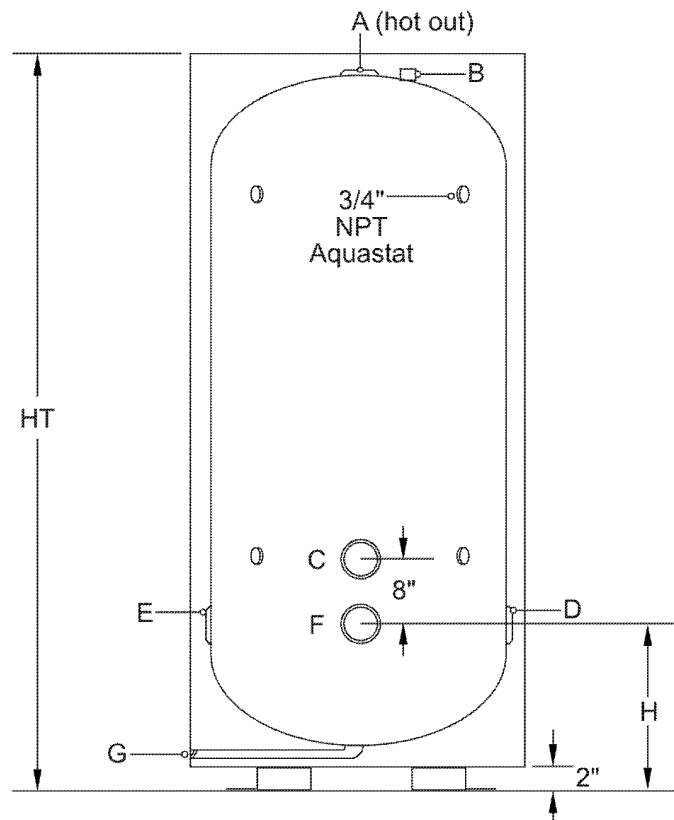
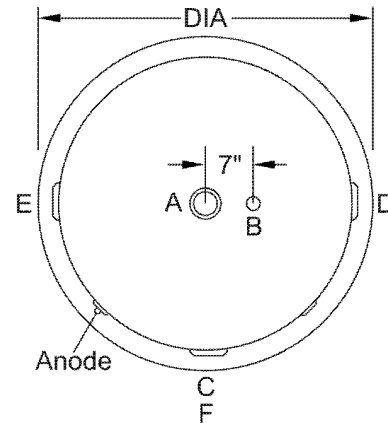
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PROJECT

Customer	
Scale	Not to Scale
Date	
Customer P.O. #	
Drawing Number	J-36-078

Vertical Storage Tank

Custom with Jacket**Size: 36-078*****Submittal Data***

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DESIGN NOTES

Code	ASME Sec IV HLW
Design Pressure	125 psi
Test Pressure	162.5 psi
Heads	3/16" 414G
Shell	3/16" 516 Grade 70
Interior	Ultonium Glass
Insulation	2" High Density Foam 12.5 R
Exterior	Baked Enamel Steel Jacket
Radiograph	None
Capacity	340 gallons / 375 nominal
Tare Weight	915 lbs.
Supports	Rail

MATERIAL SPECIFICATIONS

Heads	Carbon Steel
Shell	Carbon Steel
Couplings	Carbon Steel
Flanges	
Pipe	
Manway	None
Reinforcement	

OPENINGS / HEIGHTS

MARK	SIZE	HEIGHT	SERVICE
A	2.5"		Outlet
B	1 1/4"		Relief
C	3"	29"	Feed
D	3"		Recirculation
E	3"		Recirculation
F	3"		Recirculation
G	1"		Drain
H		21"	
HT		93"	
DIA		40"	

WARRANTY**FIRST THROUGH FIVE YEAR – LIMITED WARRANTY:**

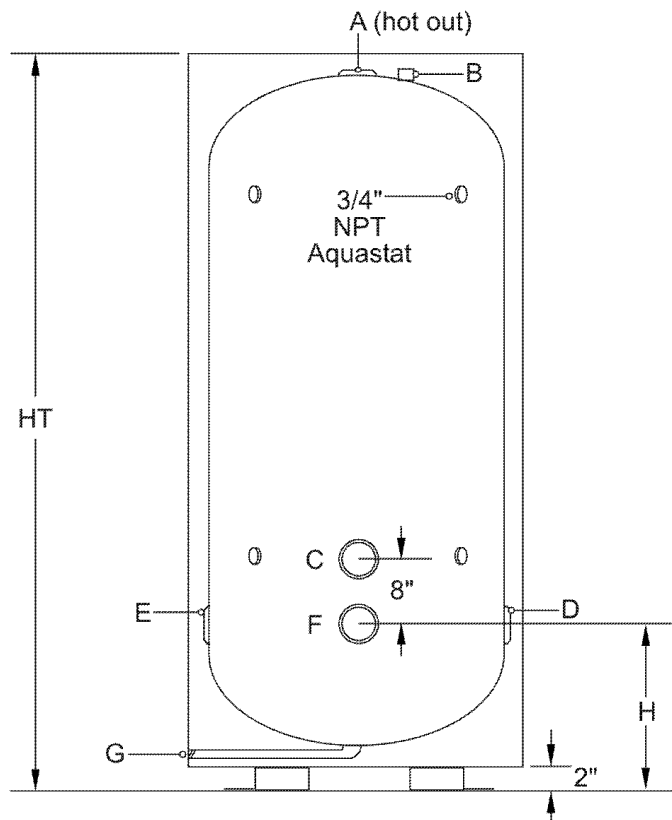
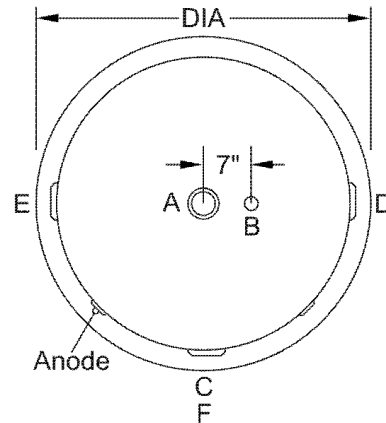
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PROJECT

Customer	
Scale	Not to Scale
Date	
Customer P.O. #	
Drawing Number	J-36-085

Vertical Storage Tank

Custom with Jacket**Size: 36-085****Submittal Data**

LAARS
Heating Systems Company
 A subsidiary of **BRADFORD WHITE** Corporation

International Sales
 1869 Sismet Road, Mississauga
 Ontario, Canada L4W 1W8
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 20 Industrial Way, Rochester, NH 03867
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 800.900.9276 • Fax 800.559.1583

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DESIGN NOTES

Code	ASME Sec IV HLW
Design Pressure	125 psi
Test Pressure	162.5 psi
Heads	1/4" 414G
Shell	3/16" 516 Grade 70
Interior	Ultonium Glass
Insulation	2" High Density Foam 12.5 R
Exterior	Baked Enamel Steel Jacket
Radiograph	None
Capacity	435 gallons / 482 nominal
Tare Weight	1100 lbs.
Supports	Rail

MATERIAL SPECIFICATIONS

Heads	Carbon Steel
Shell	Carbon Steel
Couplings	Carbon Steel
Flanges	
Pipe	
Manway	Carbon Steel
Reinforcement	

OPENINGS / HEIGHTS

MARK	SIZE	HEIGHT	SERVICE
A	3"		Outlet
B	1 1/4"		Relief
C	3"	30.5"	Feed
D	3"		Recirculation
E	3"		Recirculation
F	3"		Recirculation
G	1"		Drain
H		24"	
HT		89"	
DIA		46"	

WARRANTY**FIRST THROUGH FIVE YEAR – LIMITED WARRANTY:**

Laars warrants the lined steel tank for leakage caused by defects in materials and /or workmanship for five years from date of installation. If the tank is found to be defective in manufacture, Laars will provide replacement of tank.

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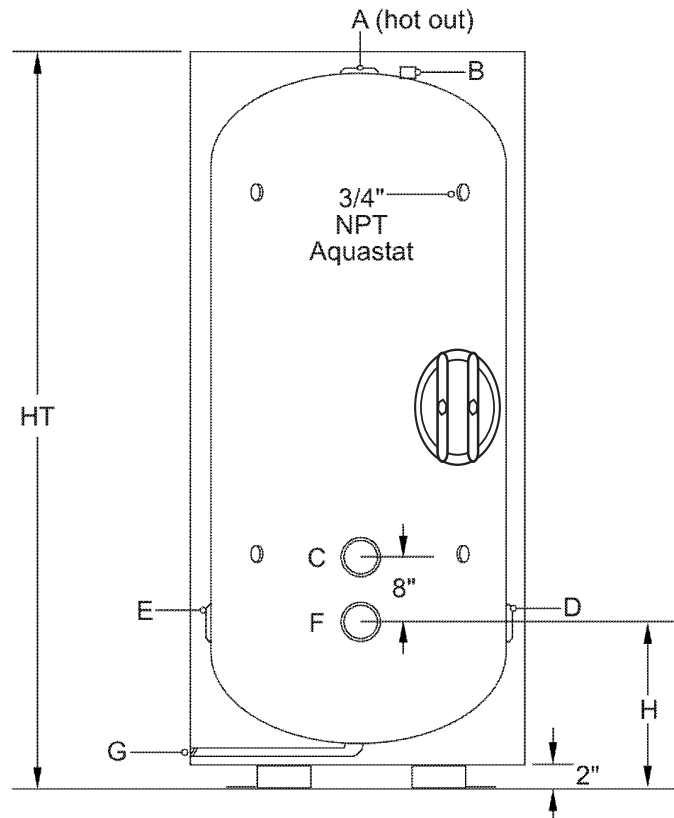
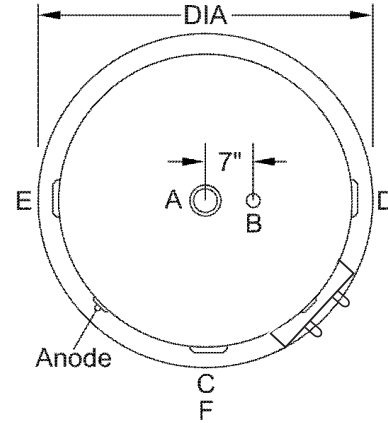
PROJECT

Customer	
Scale	Not to Scale
Date	
Customer P.O. #	
Drawing Number	J-42-081

Vertical Storage Tank

Custom with Jacket
Size: 42-081

Submittal Data



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 1869 Sismet Road, Mississauga
 Ontario, Canada L4W 1W8
 905.238.0100 • Fax 905.366.0130

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 20 Industrial Way, Rochester, NH 03867
Customer Service and Product Support
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DESIGN NOTES

Code	ASME Sec IV HLW
Design Pressure	125 psi
Test Pressure	162.5 psi
Heads	1/4" 414G
Shell	3/16" 516 Grade 70
Interior	Ultonium Glass
Insulation	2" High Density Foam 12.5 R
Exterior	Baked Enamel Steel Jacket
Radiograph	None
Capacity	460 gallons / 510 nominal
Tare Weight	1140 lbs.
Supports	Rail

MATERIAL SPECIFICATIONS

Heads	Carbon Steel
Shell	Carbon Steel
Couplings	Carbon Steel
Flanges	
Pipe	
Manway	Carbon Steel
Reinforcement	

OPENINGS / HEIGHTS

MARK	SIZE	HEIGHT	SERVICE
A	3"		Outlet
B	1 1/4"		Relief
C	3"	30.5"	Feed
D	3"		Recirculation
E	3"		Recirculation
F	3"		Recirculation
G	1"		Drain
H		22.5"	
HT		93"	
DIA		46"	

WARRANTY**FIRST THROUGH FIVE YEAR – LIMITED WARRANTY:**

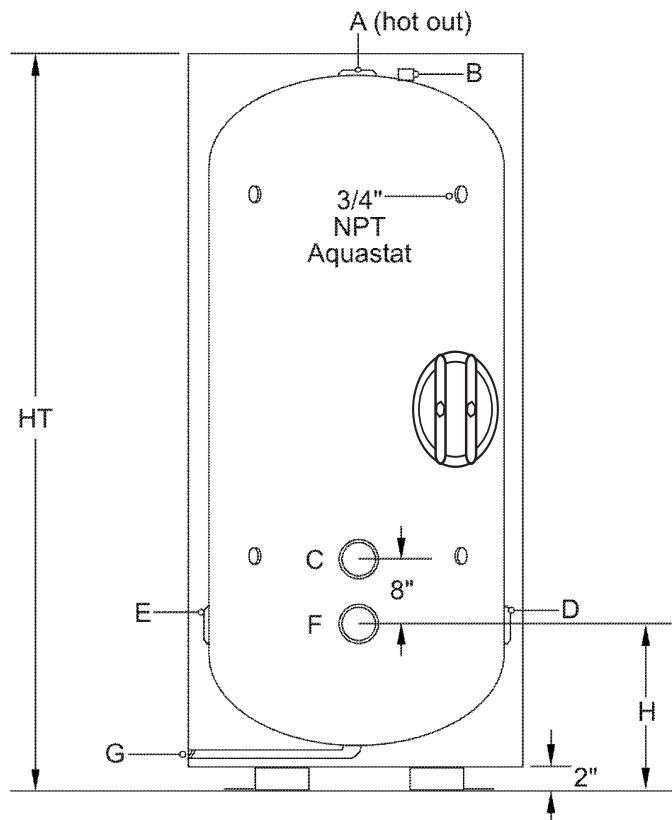
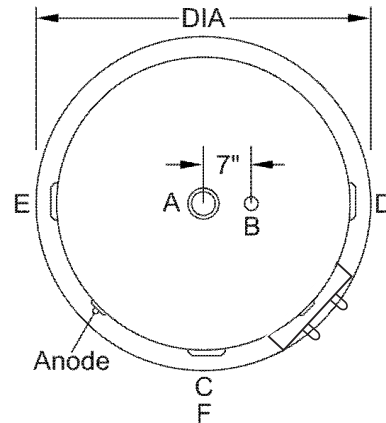
Laars warrants the lined steel tank for leakage caused by defects in materials and /or workmanship for five years from date of installation. If the tank is found to be defective in manufacture, Laars will provide replacement of tank.

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PROJECT

Customer	
Scale	Not to Scale
Date	
Customer P.O. #	
Drawing Number	J-42-085

Vertical Storage Tank

Custom with Jacket**Size: 42-085*****Submittal Data***

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 Ontario, Canada L4W 1W8
 905.238.0100 • Fax 905.366.0130

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DESIGN NOTES

Code	ASME Sec IV HLW
Design Pressure	125 psi
Test Pressure	125 psi
Heads	1/4" 414G
Shell	3/16" 516 Grade 70
Interior	Glass Lining
Insulation	2" High Density Foam 12.5 R
Exterior	Baked Enamel Steel Jacket
Radiograph	None
Capacity	505 gallons / 558 nominal
Tare Weight	1168 lbs.
Supports	Skirt

MATERIAL SPECIFICATIONS

Heads	Carbon Steel
Shell	Carbon Steel
Couplings	Carbon Steel
Flanges	
Pipe	
Manway	Carbon Steel
Reinforcement	

OPENINGS / HEIGHTS

MARK	SIZE	HEIGHT	SERVICE
A	3"		Outlet
B	1 1/4"		Relief
C	3"	30.5"	Feed
D	3"		Recirculation
E	3"		Recirculation
F	3"		Recirculation
G	1"		Drain
H		22.5"	
HT		101"	
DIA		46"	

WARRANTY**FIRST THROUGH FIVE YEAR – LIMITED WARRANTY:**

Laars warrants the lined steel tank for leakage caused by defects in materials and /or workmanship for five years from date of installation. If the tank is found to be defective in manufacture, Laars will provide replacement of tank.

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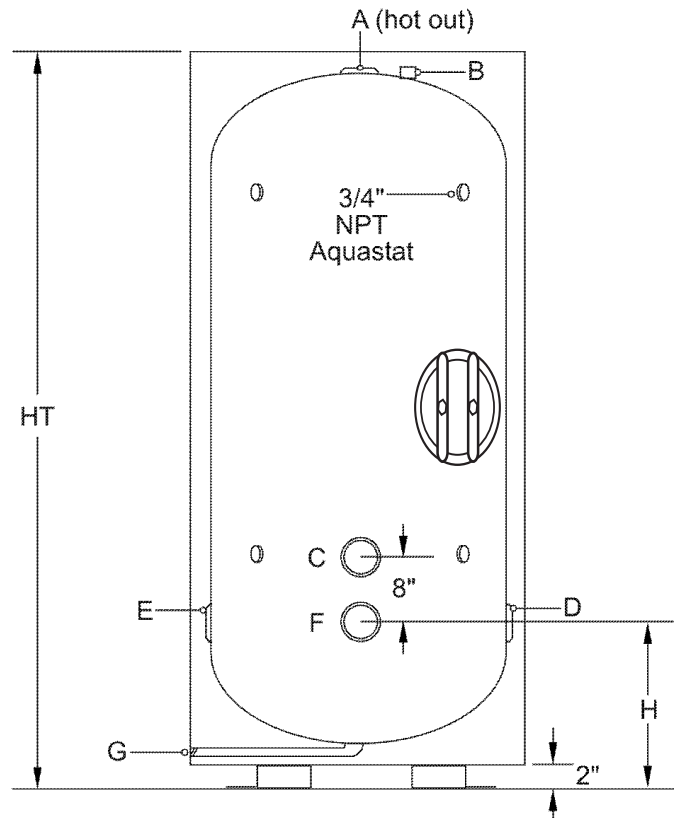
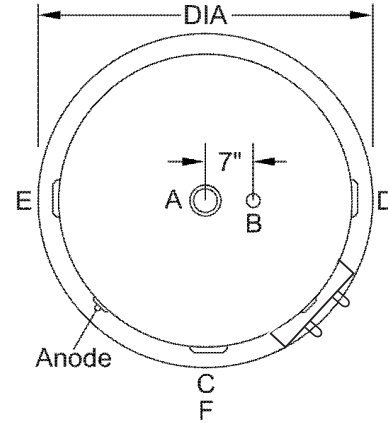
PROJECT

Customer	
Scale	Not to Scale
Date	
Customer P.O. #	
Drawing Number	J-42-093

Vertical Storage Tank

Custom with Jacket
Size: 42-093

Submittal Data



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DESIGN NOTES

Code	ASME Sec IV HLW
Design Pressure	125 psi
Test Pressure	125 psi
Heads	1/4" 414G
Shell	3/16" 516 Grade 70
Interior	Glass Lining
Insulation	2" High Density Foam 12.5 R
Exterior	Baked Enamel Steel Jacket
Radiograph	None
Capacity	575 gallons / 630 nominal
Tare Weight	1292 lbs.
Supports	Skirt

MATERIAL SPECIFICATIONS

Heads	Carbon Steel
Shell	Carbon Steel
Couplings	Carbon Steel
Flanges	
Pipe	
Manway	Carbon Steel
Reinforcement	

OPENINGS / HEIGHTS

MARK	SIZE	HEIGHT	SERVICE
A	3"		Outlet
B	1 1/4"		Relief
C	3"	30.5"	Feed
D	3"		Recirculation
E	3"		Recirculation
F	3"		Recirculation
G	1"		Drain
H		22.5"	
HT		113"	
DIA		46"	

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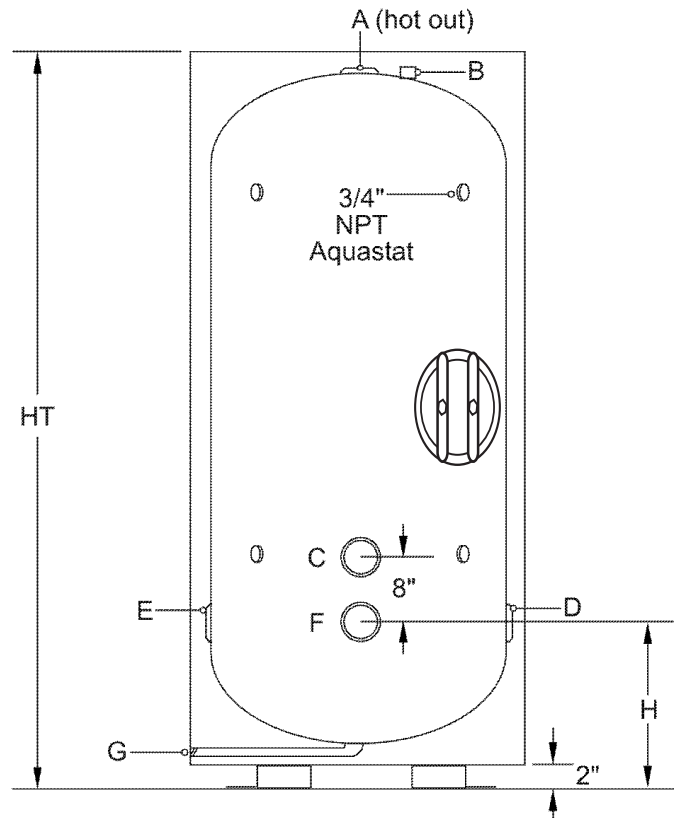
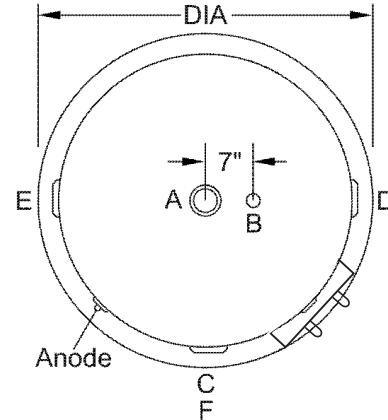
PROJECT

Customer	
Scale	Not to Scale
Date	
Customer P.O. #	
Drawing Number	J-42-105

Vertical Storage Tank

Custom with Jacket
Size: 42-105

Submittal Data



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DESIGN NOTES

Code ASME Sec IV HLW

Design Pressure 125 psi

Test Pressure 125 psi

Heads 1/4" 414G

Shell 3/16" 516 Grade 70

Interior Ultonium Glass

Insulation 2" High Density Foam 12.5 R

Exterior Primed Painted

Radiograph None

Capacity 645 gallons / 702 nominal

Tare Weight 1217 lbs.

Supports Skirt

MATERIAL SPECIFICATIONS

Heads Carbon Steel

Shell Carbon Steel

Couplings Carbon Steel

Flanges

Pipe

Manway Carbon Steel

Reinforcement

OPENINGS / HEIGHTS

MARK	SIZE	HEIGHT	SERVICE
A		125"	Overall height
B		42.5"	ASME Plate
C		24.5"	Circulation
D		46"	Diameter
E		66.5"	Anode
F		108.5"	Anode
H		3"	Hot Out
		1"	Drain

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PROJECT

Customer

Scale Not to Scale

Date

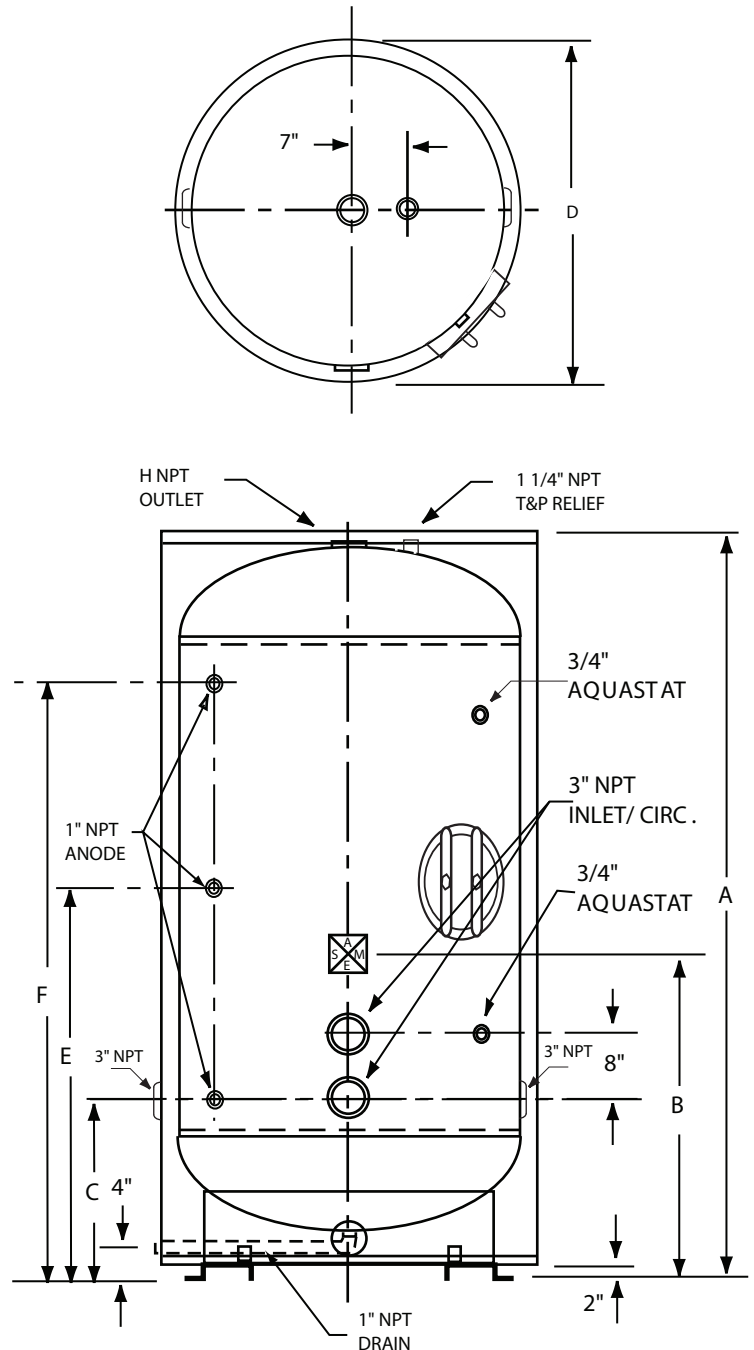
Customer P.O. #

Drawing Number J-42-117

Vertical Storage Tank

Custom with Jacket

Size: 42-117

Submittal Data

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DESIGN NOTES

Code	ASME Sec IV HLW
Design Pressure	125 psi
Test Pressure	125 psi
Heads	1/4" 414G
Shell	3/16" 516 Grade 70
Interior	Glass Lining
Insulation	2" High Density Foam 12.5 R
Exterior	Baked Enamel Steel Jacket
Radiograph	None
Capacity	720 gallons / 774 nominal
Tare Weight	1498 lbs.
Supports	Skirt

MATERIAL SPECIFICATIONS

Heads	Carbon Steel
Shell	Carbon Steel
Couplings	Carbon Steel
Flanges	
Pipe	
Manway	Carbon Steel
Reinforcement	

OPENINGS / HEIGHTS

MARK	SIZE	HEIGHT	SERVICE
A	3"		Outlet
B	1 1/4"		Relief
C	3"	30.5"	Feed
D	3"		Recirculation
E	3"		Recirculation
F	3"		Recirculation
G	1"		Drain
H		22.5"	
HT		137"	
DIA		46"	

WARRANTY**FIRST THROUGH FIVE YEAR – LIMITED WARRANTY:**

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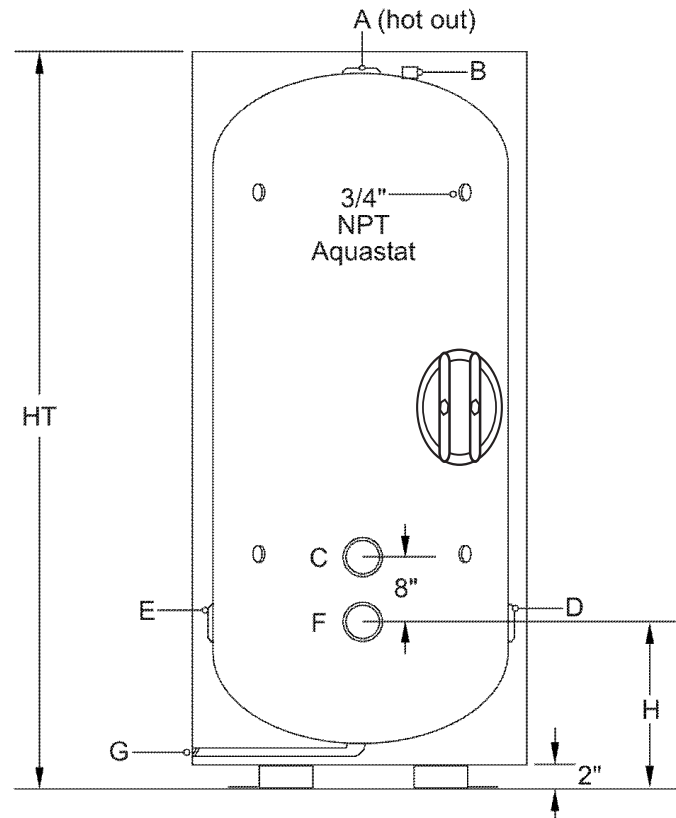
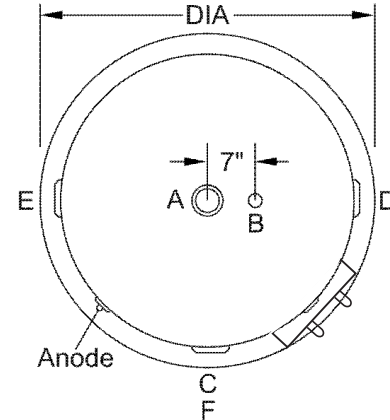
PROJECT

Customer	
Scale	Not to Scale
Date	
Customer P.O. #	
Drawing Number	J-42-129

Vertical Storage Tank

Custom with Jacket
Size: 42-129

Submittal Data



LAARS
Heating Systems Company
A subsidiary of **BRADFORD WHITE** Corporation

International Sales
1869 Sismet Road, Mississauga
Ontario, Canada L4W 1W8
905.238.0100 • Fax 905.366.0130

Headquarters
20 Industrial Way, Rochester, NH 03867
Customer Service and Product Support
800.900.9276 • Fax 800.559.1583

Technical Support
603.335.6300 • Fax 603.335.3355

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DESIGN NOTES

Code	ASME Sec IV HLW
Design Pressure	125 psi
Test Pressure	125 psi
Heads	1/4" 414G
Shell	3/16" 516 Grade 70
Interior	Glass Lining
Insulation	2" High Density Foam 12.5 R
Exterior	Baked Enamel Steel Jacket
Radiograph	None
Capacity	776 gallons / 834 nominal
Tare Weight	1587 lbs.
Supports	Skirt

MATERIAL SPECIFICATIONS

Heads	Carbon Steel
Shell	Carbon Steel
Couplings	Carbon Steel
Flanges	
Pipe	
Manway	Carbon Steel
Reinforcement	

OPENINGS / HEIGHTS

MARK	SIZE	HEIGHT	SERVICE
A	3"		Outlet
B	1 1/4"		Relief
C	3"	30.5"	Feed
D	3"		Recirculation
E	3"		Recirculation
F	3"		Recirculation
G	1"		Drain
H		22.5"	
HT		147"	
DIA		46"	

WARRANTY**FIRST THROUGH FIVE YEAR – LIMITED WARRANTY:**

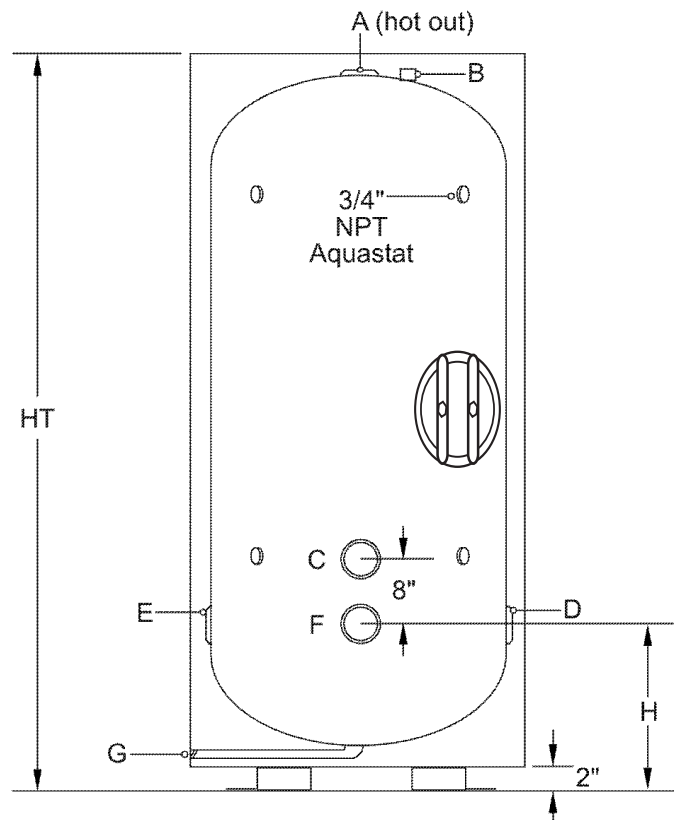
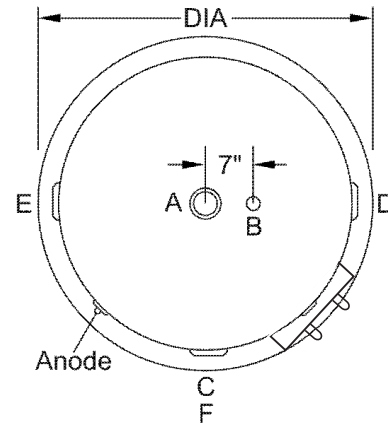
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PROJECT

Customer	
Scale	Not to Scale
Date	
Customer P.O. #	
Drawing Number	J-42-139

Vertical Storage Tank

Custom with Jacket**Size: 42-139*****Submittal Data***

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Heating Systems Company
 A subsidiary of **BRADFORD WHITE** Corporation

International Sales
 1869 Sismet Road, Mississauga
 Ontario, Canada L4W 1W8
 905.238.0100 • Fax 905.366.0130

Headquarters
 20 Industrial Way, Rochester, NH 03867
Customer Service and Product Support
 800.900.9276 • Fax 800.559.1583

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DESIGN NOTES

Code	ASME Sec IV HLW
Design Pressure	125 psi
Test Pressure	162.5 psi
Heads	1/4" 414G
Shell	1/4" 516 Grade 70
Interior	Ultonium Glass
Insulation	2" High Density Foam 12.5 R
Exterior	Baked Enamel Steel Jacket
Radiograph	None
Capacity	500 gallons / 572 nominal
Tare Weight	1400 lbs.
Supports	Rail

MATERIAL SPECIFICATIONS

Heads	Carbon Steel
Shell	Carbon Steel
Couplings	Carbon Steel
Flanges	
Pipe	
Manway	Carbon Steel
Reinforcement	

OPENINGS / HEIGHTS

MARK	SIZE	HEIGHT	SERVICE
A	3"		Outlet
B	1 1/4"		Relief
C	3"	32"	Feed
D	3"		Recirculation
E	3"		Recirculation
F	3"		Recirculation
G	1"		Drain
H		24"	
HT		81"	
DIA		52"	

WARRANTY**FIRST THROUGH FIVE YEAR – LIMITED WARRANTY:**

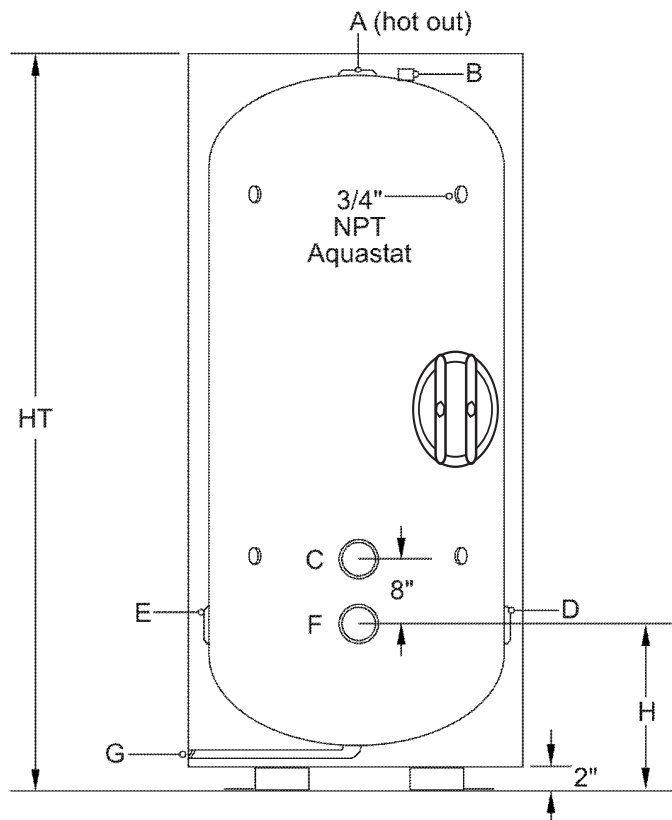
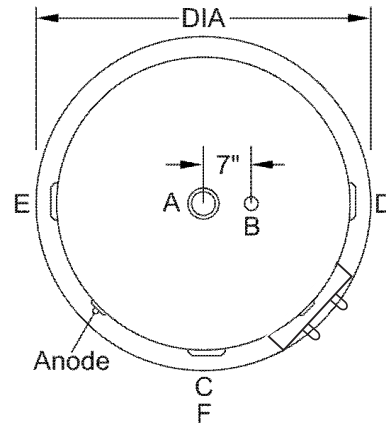
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ONE YEAR – LIMITED WARRANTY: Laars warrants parts to be free from manufacturing defects in material and workmanship for one year from date of installation. If parts are found to be defective, Laars will provide replacement of parts.

PROJECT

Customer	
Scale	Not to Scale
Date	
Customer P.O. #	
Drawing Number	J-48-073

Vertical Storage Tank

Custom with Jacket**Size: 48-073****Submittal Data**

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Heating Systems Company
 A subsidiary of **BRADFORD WHITE** Corporation

International Sales
 1869 Sismet Road, Mississauga
 Ontario, Canada L4W 1W8
 905.238.0100 • Fax 905.366.0130

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DESIGN NOTES

Code	ASME Sec IV HLW
Design Pressure	125 psi
Test Pressure	162.5 psi
Heads	1/4" 414G
Shell	1/4" 516 Grade 70
Interior	Ultonium Glass
Insulation	2" High Density Foam 12.5 R
Exterior	Baked Enamel Steel Jacket
Radiograph	None
Capacity	500 gallons / 658 nominal
Tare Weight	1544 lbs.
Supports	Rail

MATERIAL SPECIFICATIONS

Heads	Carbon Steel
Shell	Carbon Steel
Couplings	Carbon Steel
Flanges	
Pipe	
Manway	Carbon Steel
Reinforcement	

OPENINGS / HEIGHTS

MARK	SIZE	HEIGHT	SERVICE
A	3"		Outlet
B	1 1/4"		Relief
C	3"	32"	Feed
D	3"		Recirculation
E	3"		Recirculation
F	3"		Recirculation
G	1"		Drain
H		24"	
HT		92"	
DIA		52"	

WARRANTY**FIRST THROUGH FIVE YEAR – LIMITED WARRANTY:**

Laars warrants the lined steel tank for leakage caused by defects in materials and /or workmanship for five years from date of installation. If the tank is found to be defective in manufacture, Laars will provide replacement of tank.

ONE YEAR – LIMITED WARRANTY: Laars warrants parts to be free from manufacturing defects in material and workmanship for one year from date of installation. If parts are found to be defective, Laars will provide replacement of parts.

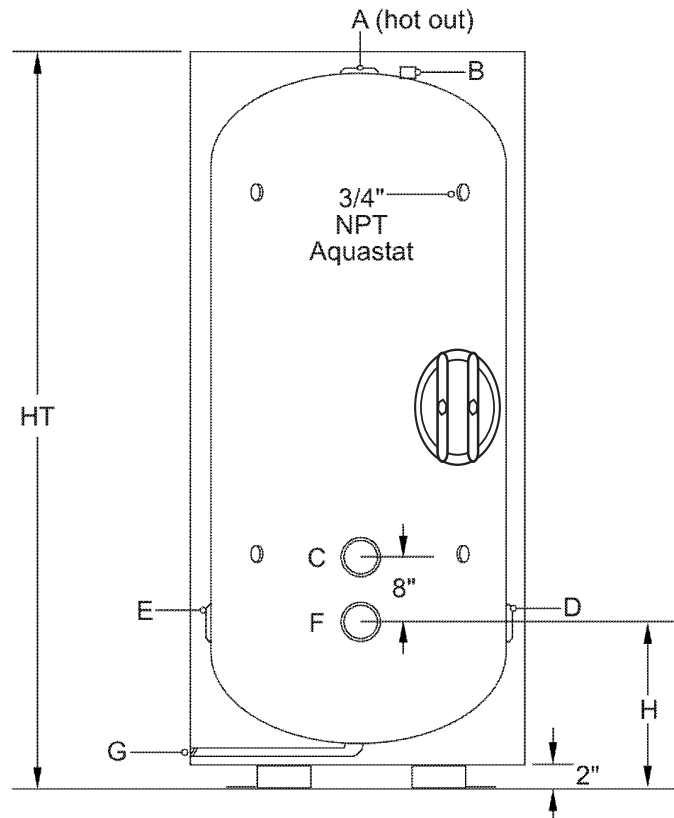
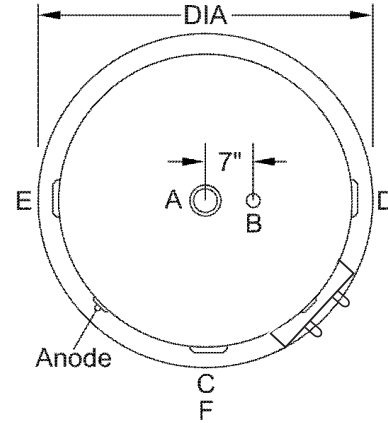
PROJECT

Customer	
Scale	Not to Scale
Date	
Customer P.O. #	
Drawing Number	J-48-084

Vertical Storage Tank

Custom with Jacket
Size: 48-084

Submittal Data



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Heating Systems Company
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International Sales
1869 Sismet Road, Mississauga
Ontario, Canada L4W 1W8
905.238.0100 • Fax 905.366.0130

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20 Industrial Way, Rochester, NH 03867
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DESIGN NOTES

Code	ASME Sec IV HLW
Design Pressure	125 psi
Test Pressure	162.5 psi
Heads	1/4" 414G
Shell	1/4" 516 Grade 70
Interior	Ultonium Glass
Insulation	2" High Density Foam 12.5 R
Exterior	Baked Enamel Steel Jacket
Radiograph	None
Capacity	765 gallons / 846 nominal
Tare Weight	1845 lbs.
Supports	Rail

MATERIAL SPECIFICATIONS

Heads	Carbon Steel
Shell	Carbon Steel
Couplings	Carbon Steel
Flanges	
Pipe	
Manway	Carbon Steel
Reinforcement	

OPENINGS / HEIGHTS

MARK	SIZE	HEIGHT	SERVICE
A	3"		Outlet
B	1 1/4"		Relief
C	3"	32"	Feed
D	3"		Recirculation
E	3"		Recirculation
F	3"		Recirculation
G	1"		Drain
H		24"	
HT		116"	
DIA		52"	

WARRANTY**FIRST THROUGH FIVE YEAR – LIMITED WARRANTY:**

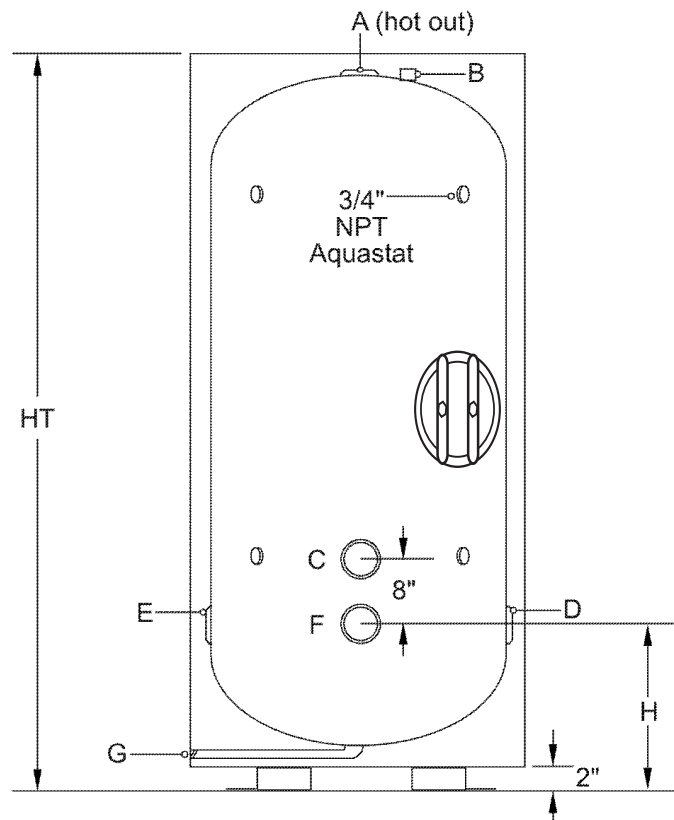
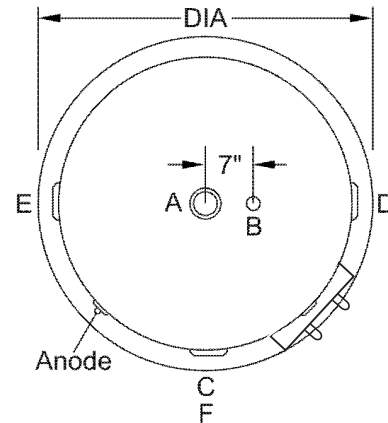
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PROJECT

Customer	
Scale	Not to Scale
Date	
Customer P.O. #	
Drawing Number	J-48-108

Vertical Storage Tank

Custom with Jacket**Size: 48-108*****Submittal Data***

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 A subsidiary of BRADFORD WHITE Corporation

International Sales
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 Ontario, Canada L4W 1W8
 905.238.0100 • Fax 905.366.0130

Headquarters
 20 Industrial Way, Rochester, NH 03867
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 800.900.9276 • Fax 800.559.1583

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DESIGN NOTES

Code	ASME Sec IV HLW
Design Pressure	125 psi
Test Pressure	162.5 psi
Heads	1/4" 414G
Shell	1/4" 516 Grade 70
Interior	Ultonium Glass
Insulation	2" High Density Foam 12.5 R
Exterior	Baked Enamel Steel Jacket
Radiograph	None
Capacity	860 gallons / 940 nominal
Tare Weight	1947 lbs.
Supports	Rail

MATERIAL SPECIFICATIONS

Heads	Carbon Steel
Shell	Carbon Steel
Couplings	Carbon Steel
Flanges	
Pipe	
Manway	Carbon Steel
Reinforcement	

OPENINGS / HEIGHTS

MARK	SIZE	HEIGHT	SERVICE
A	3"		Outlet
B	1 1/4"		Relief
C	3"	32"	Feed
D	3"		Recirculation
E	3"		Recirculation
F	3"		Recirculation
G	1"		Drain
H		24"	
HT		128"	
DIA		52"	

WARRANTY**FIRST THROUGH FIVE YEAR – LIMITED WARRANTY:**

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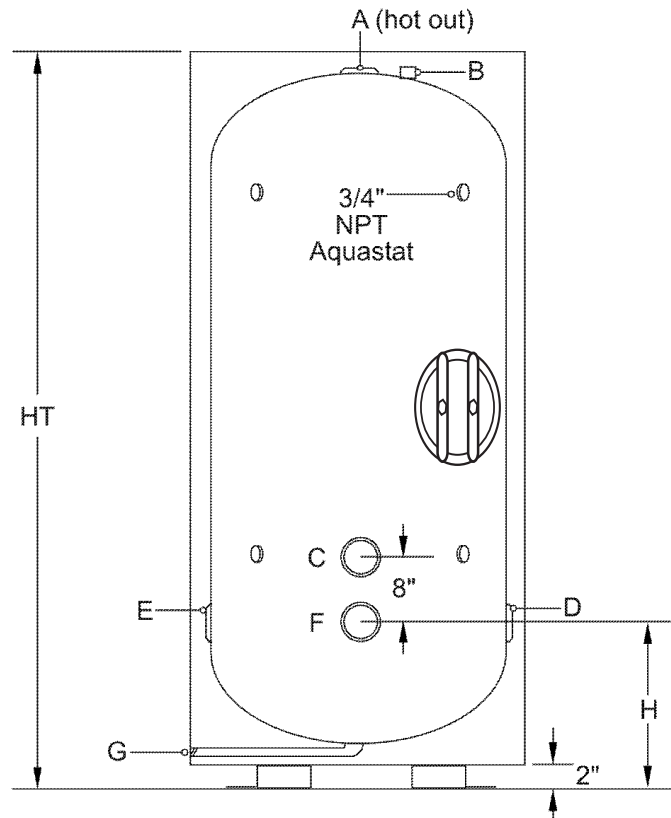
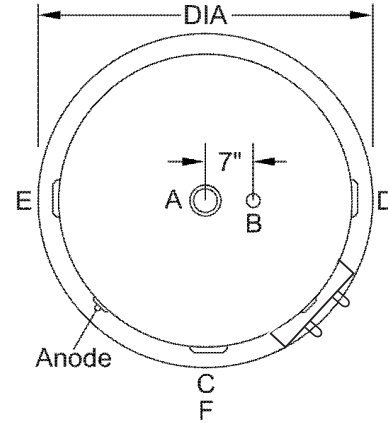
PROJECT

Customer	
Scale	Not to Scale
Date	
Customer P.O. #	
Drawing Number	J-48-120

Vertical Storage Tank

Custom with Jacket
Size: 48-120

Submittal Data



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DESIGN NOTES

Code	ASME Sec IV HLW
Design Pressure	125 psi
Test Pressure	162.5 psi
Heads	1/4" 414G
Shell	1/4" 516 Grade 70
Interior	Ultonium Glass
Insulation	2" High Density Foam 12.5 R
Exterior	Baked Enamel Steel Jacket
Radiograph	None
Capacity	1040 gallons / 1128 nominal
Tare Weight	2300 lbs.
Supports	Rail

MATERIAL SPECIFICATIONS

Heads	Carbon Steel
Shell	Carbon Steel
Couplings	Carbon Steel
Flanges	
Pipe	
Manway	Carbon Steel
Reinforcement	

OPENINGS / HEIGHTS

MARK	SIZE	HEIGHT	SERVICE
A	3"		Outlet
B	1 1/4"		Relief
C	3"	32"	Feed
D	3"		Recirculation
E	3"		Recirculation
F	3"		Recirculation
G	1"		Drain
H		24"	
HT		149"	
DIA		52"	

WARRANTY**FIRST THROUGH FIVE YEAR – LIMITED WARRANTY:**

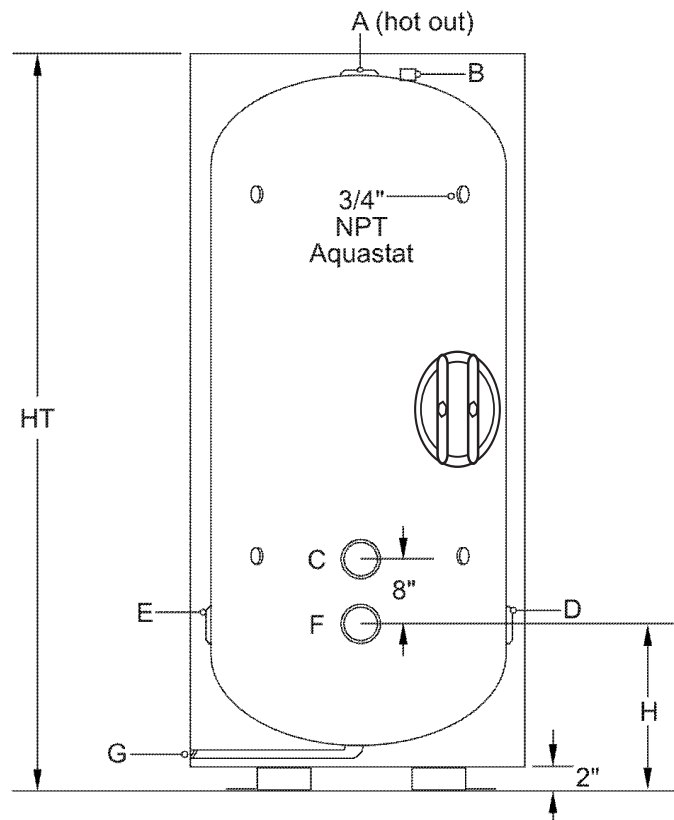
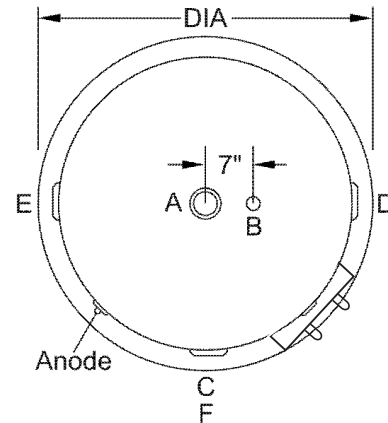
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PROJECT

Customer	
Scale	Not to Scale
Date	
Customer P.O. #	
Drawing Number	J-48-141

Vertical Storage Tank

Custom with Jacket**Size: 48-141*****Submittal Data***

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