WHI
WALL HUGGER INVISIFLAME® GAS BURNER

		BURNER MODEL			
		140		240	
BURNER SPECIFICATIONS – HIGH FIRE		**BURNER STATIC INLET AIR PRESSURE OF 20.9"WC**			
Combustion Air Temp.	(°F)	60		900	
Operating Mode		Firing	Invisi-Flame	Firing	Invisi-Flame
Max. Input @ 5% Excess Air	**(MMBtu/hr)**	**2.4**	**2.0**	**1.5**	**1.2**
Max. Air Flow @ 20.9"wc	(scfh)	24,000	19,500	14,840	11,760
Min. Input @ Max. Air Flow	(Btu/hr)	191,000	N/A		
Max. Excess Air	(%)	1,230	N/A		
Air Press. @ Burner Inlet	("wc)	22.5	22.5	22.5	22.5
Burner Gas Inlet Press.	("wc)	7.9	7.0	4.2	2.5
Flame Length @ Max. Input	(ft)	0.75	N/A	.5	N/A
Flame Dia. @ Max. Input	(ft)	3.5	N/A	2.75	N/A
Stage 1 & 2 Air Static Press.	("wc)	1.7	0.2	1.7	0.2
Stage 3 Air Static Press.	("wc)	7.6	7.7	7.6	7.7
BURNER SPECIFICATIONS – LOW FIRE					
Input @ 5% Excess Air	(Btu/hr)	151,600	151,600	151,600	151,600
Air Flow – Low Fire	(scfh)	1,500	1,500	1,500	1,500
Min. Input @ Low Fire Air Flow	(Btu/hr)	80,000	N/A		
Max. Excess Air	(%)	100	N/A		
Min. Gas for Ignition	(scfh)	80	80	80	80
Min. Gas for UV Signal	(scfh)	80	N/A	80	N/A

Notes:
1. "Firing" Operating Mode is required for furnace temperatures below 1600°F; Invisiflame® operating mode is suitable for furnace temperatures above 1600°F.
2. Capacities based on natural gas with HHV of 1034 Btu/ft^3, 0.59 S.G., and stoichiometric air:gas ratio of 9.74:1 with burner firing into chamber under no pressure @ 5% excess air.
3. Air and gas flows based on 60°F @ sea level.
4. Static air pressure measured at designated locations.
5. Flame lengths measured from the end of the burner tile.
6. Flame length and diameter is not applicable in Invisiflame® operating mode.
7. All data based on industry standard air and gas piping practices.
8. Flame detection via UV scanner in Firing Mode only.
9. Burners can be operated up to a static inlet air pressure of 16 osig; consult Hauck.

METRIC
CAPACITIES

WHI
WALL HUGGER INVISIFLAME® GAS BURNER

		BURNER MODEL			
		140		240	
BURNER SPECIFICATIONS – HIGH FIRE		**BURNER STATIC INLET AIR PRESSURE OF 5,200 Pa**			
Combustion Air Temp.	(°C)	15.5°C		482°C	
Operating Mode		Firing	Invisi-Flame	Firing	Invisi-Flame
Max. Input @ 5% Excess Air	**(kW)**	**650**	**545**	**410**	**325**
Max. Air Flow @ 5,200 Pa	(nm^3/hr)	640	520	400	315
Min. Input @ Max. Air Flow	(kW)	56	N/A		
Max. Excess Air	(%)	1,230	N/A		
Air Press. @ Burner Inlet	(Pa)	5,600	5,600	5,600	5,600
Burner Gas Inlet Press.	(Pa)	1,965	1,740	1,045	620
Flame Length @ Max. Input	(mm)	230	N/A	150	N/A
Flame Dia. @ Max. Input	(mm)	1,070	N/A	840	N/A
Stage 1 & 2 Air Static Press.	(Pa)	420	50	420	50
Stage 3 Air Static Press.	(Pa)	1,890	1,915	1,890	1,915
BURNER SPECIFICATIONS – LOW FIRE					
Input @ 5% Excess Air	(kW)	60	60	60	60
Air Flow – Low Fire	(nm^3/hr)	55	55	55	55
Min. Input @ Low Fire Air Flow	(kW)	55	N/A		
Max. Excess Air	(%)	15	N/A		
Min. Gas for Ignition	(nm^3/hr)	4.7	4.7	4.7	4.7
Min. Gas for UV Signal	(nm^3/hr)	4.7	N/A	4.7	N/A

Notes:
1. "Firing" Operating Mode is required for furnace temperatures below 870°C; Invisiflame® operating mode is suitable for furnace temperatures above 870°C.
2. Capacities based on natural gas with LHV of 36.74 MJ/nm^3, 0.59 S.G., and stoichiometric air:gas ratio of 9.74:1 with burner firing into chamber under no pressure @ 5% excess air.
3. Air and gas flows based on 0°C @ sea level.
4. Static air pressure measured at designated locations.
5. Flame lengths measured from the end of the burner tile.
6. Flame length and diameter is not applicable in Invisiflame® operating mode.
7. All data based on industry standard air and gas piping practices.
8. Flame detection via UV scanner in Firing Mode only.
9. Burners can be operated up to a static inlet air pressure of 5200 Pa; consult Hauck.

WHI
WALL HUGGER INVISIFLAME® GAS BURNER

		BURNER MODEL			
		160		260	
BURNER SPECIFICATIONS – HIGH FIRE		**BURNER STATIC INLET AIR PRESSURE OF 20.9"WC**			
Combustion Air Temp.	(°F)	60		900	
Operating Mode		Firing	Invisi-Flame	Firing	Invisi-Flame
Max. Input @ 5% Excess Air	**(MMBtu/hr)**	**4.9**	**4.5**	**3.0**	**2.8**
Max. Air Flow @ 20.9"wc	(scfh)	48,430	44,590	29,950	27,570
Min. Input @ Max. Air Flow	(Btu/hr)	300,000	N/A		
Max. Excess Air	(%)	1,600	N/A		
Air Press. @ Burner Inlet	("wc)	22.5	22.5	22.5	22.5
Burner Gas Inlet Press.	("wc)	28.6	23.3	13.6	10
Flame Length @ Max. Input	(ft)	1	N/A	0.75	N/A
Flame Dia. @ Max. Input	(ft)	6	N/A	4.75	N/A
Stage 1 & 2 Air Static Press.	("wc)	2.0	0.1	2.0	0.1
Stage 3 Air Static Press.	("wc)	20.9	20.9	20.9	20.9
BURNER SPECIFICATIONS – LOW FIRE					
Input @ 5% Excess Air	(Btu/hr)	300,000	300,000	300,000	300,000
Air Flow – Low Fire	(scfh)	3,100	3,100	3,100	3,100
Min. Input @ Low Fire Air Flow	(Btu/hr)	150,000	N/A		
Max. Excess Air	(%)	120	N/A		
Min. Gas for Ignition	(scfh)	145	145	145	145
Min. Gas for UV Signal	(scfh)	145	N/A	145	N/A

Notes:
1. "Firing" Operating Mode is required for furnace temperatures below 1600°F; Invisiflame® operating mode is suitable for furnace temperatures above 1600°F.
2. Capacities based on natural gas with HHV of 1034 Btu/ft^3, 0.59 S.G., and stoichiometric air:gas ratio of 9.74:1 with burner firing into chamber under no pressure @ 5% excess air.
3. Air and gas flows based on 60°F @ sea level.
4. Static air pressure measured at designated locations.
5. Flame lengths measured from the end of the burner tile.
6. Flame length and diameter is not applicable in Invisiflame® operating mode.
7. All data based on industry standard air and gas piping practices.
8. Flame detection via UV scanner in Firing Mode only.
9. Burners can be operated up to a static inlet air pressure of 16 osig; consult Hauck.

METRIC
CAPACITIES

WHI
WALL HUGGER INVISIFLAME® GAS BURNER

		BURNER MODEL			
		160		260	
BURNER SPECIFICATIONS – HIGH FIRE		**BURNER STATIC INLET AIR PRESSURE OF 5,200 Pa**			
Combustion Air Temp.	(°C)	15.5°C		482°C	
Operating Mode		Firing	Invisi-Flame	Firing	Invisi-Flame
Max. Input @ 5% Excess Air	**(kW)**	**1,275**	**1,170**	**780**	**730**
Max. Air Flow @ 5,200 Pa	(nm^3/hr)	1,275	1,170	780	730
Min. Input @ Max. Air Flow	(kW)	80	N/A		
Max. Excess Air	(%)	1,600	N/A		
Air Press. @ Burner Inlet	(Pa)	5,600	5,600	5,600	5,600
Burner Gas Inlet Press.	(Pa)	7,115	5,800	3,380	2,490
Flame Length @ Max. Input	(mm)	305	N/A	230	N/A
Flame Dia. @ Max. Input	(mm)	1,830	N/A	1,450	N/A
Stage 1 & 2 Air Static Press.	(Pa)	500	25	500	25
Stage 3 Air Static Press.	(Pa)	5,200	5,200	5,200	5,200
BURNER SPECIFICATIONS – LOW FIRE					
Input @ 5% Excess Air	(kW)	80	80	80	80
Air Flow – Low Fire	(nm^3/hr)	80	80	80	80
Min. Input @ Low Fire Air Flow	(kW)	40	N/A		
Max. Excess Air	(%)	120	N/A		
Min. Gas for Ignition	(nm^3/hr)	4	4	4	4
Min. Gas for UV Signal	(nm^3/hr)	4	N/A	4	N/A

Notes:
1. "Firing" Operating Mode is required for furnace temperatures below 870°C; Invisiflame® operating mode is suitable for furnace temperatures above 870°C.
2. Capacities based on natural gas with LHV of 36.74 MJ/nm^3, 0.59 S.G., and stoichiometric air:gas ratio of 9.74:1 with burner firing into chamber under no pressure @ 5% excess air.
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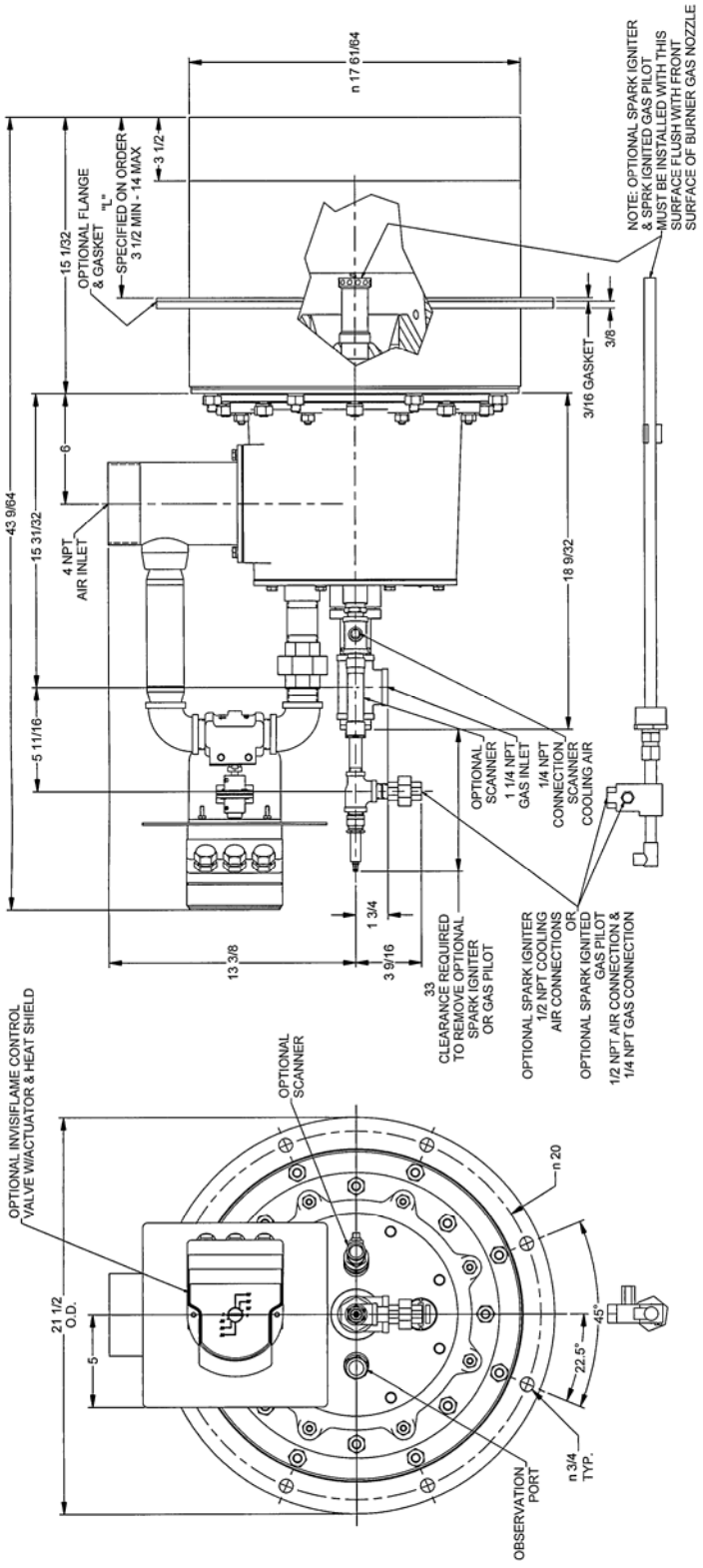
7. All data based on industry standard air and gas piping practices.
8. Flame detection via UV scanner in Firing Mode only.
9. Burners can be operated up to a static inlet air pressure of 5200 Pa; consult Hauck.

WHI
WHI WALL HUGGER INVISIFLAME® GAS BURNER

WHI 240 WITH ROUND TILE



Y8322
(NOT TO SCALE)

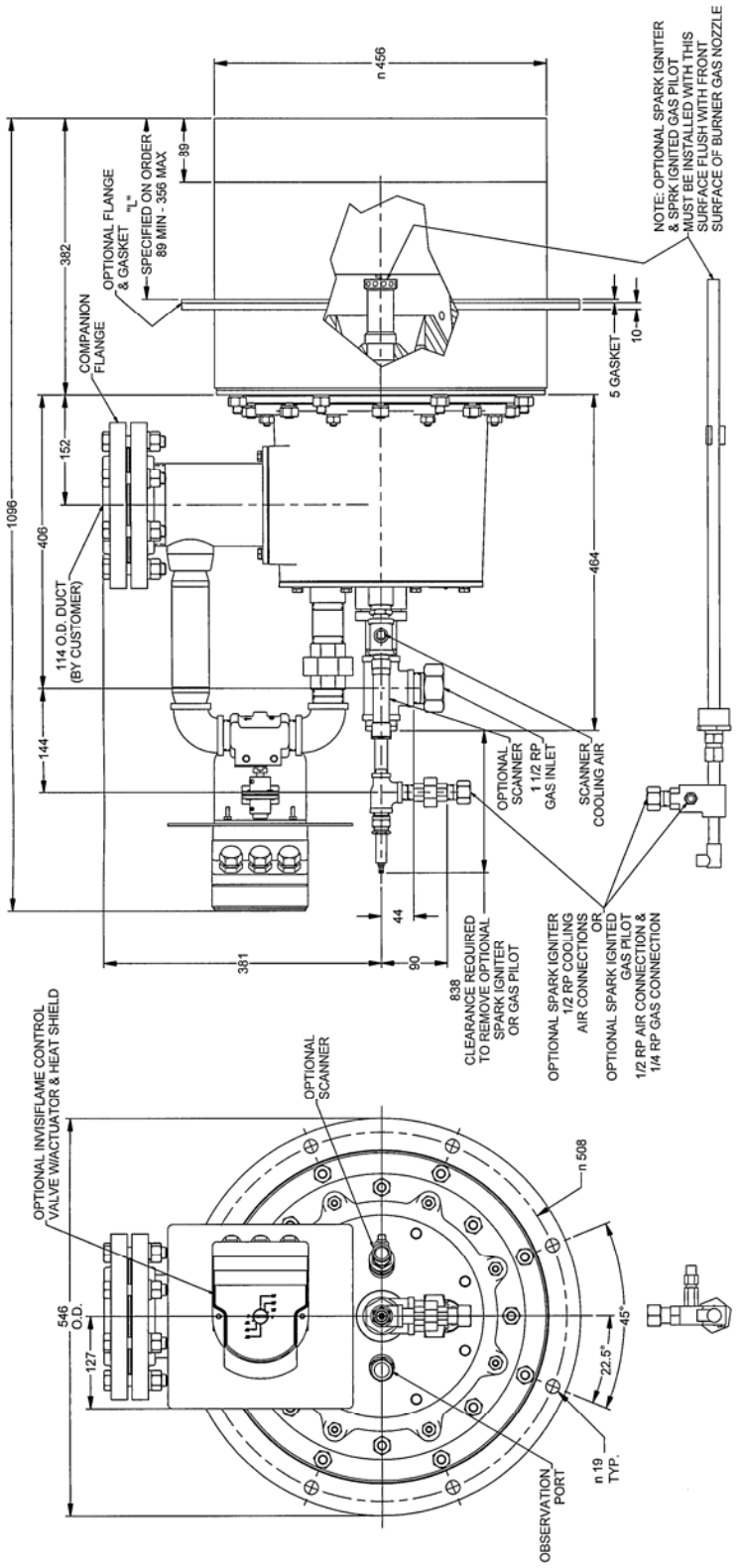
NOTES:
1. AIR INLET CAN BE LOCATED IN ANY POSITION.
2. PILOT COOLING AIR & GAS INLET CAN BE LOCATED IN ANY POSITION THAT DOES NOT INTERFERE WITH OPTIONAL INVISIFAME CONTROL LOOP.

(See Reverse Side for Metric Dimensions)

METRIC
DIMENSIONS

WHI
WHI WALL HUGGER INVISIFLAME® GAS BURNER

WHI 240 WITH ROUND TILE



Y8322 METRIC
(NOT TO SCALE)

NOTES:
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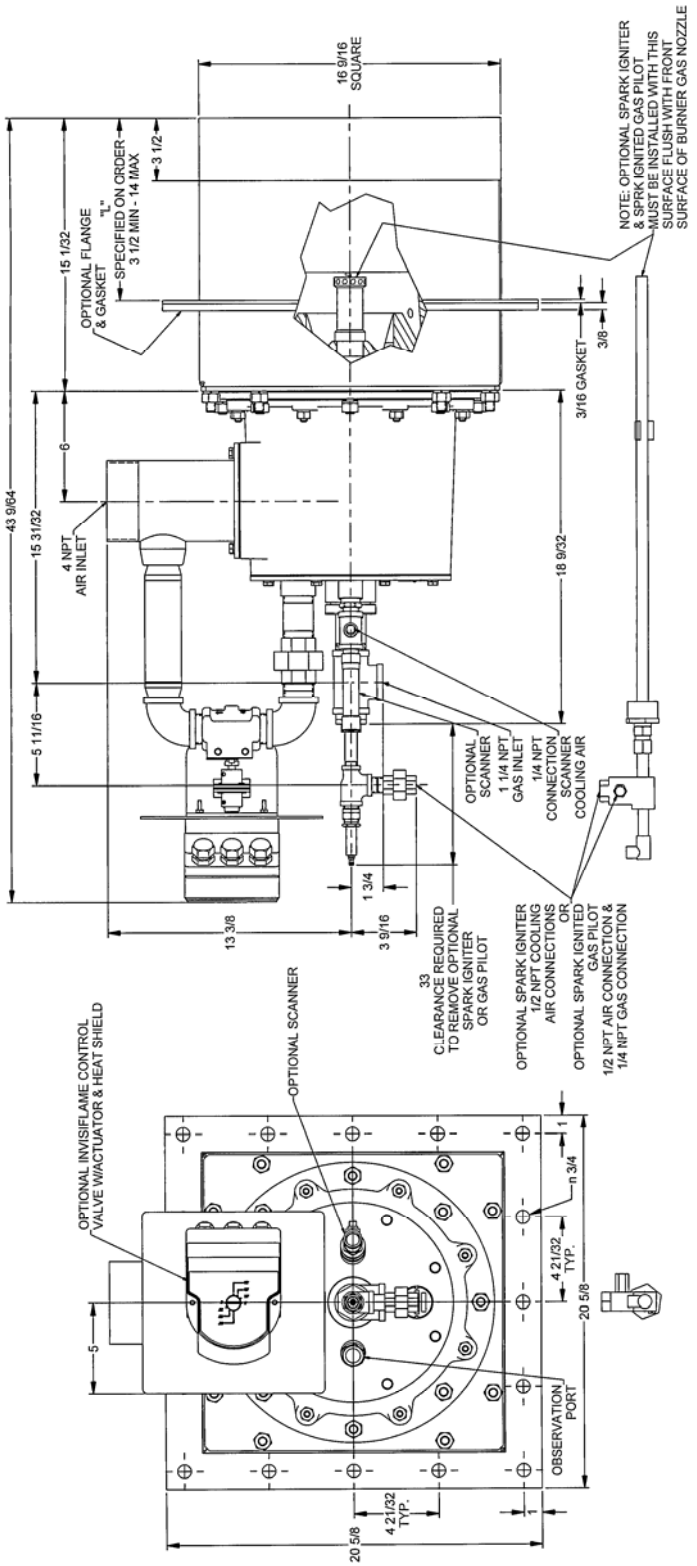
WHI
WHI WALL HUGGER INVISIFLAME® GAS BURNER

WHI 240 WITH SQUARE TILE



Y8321
(NOT TO SCALE)

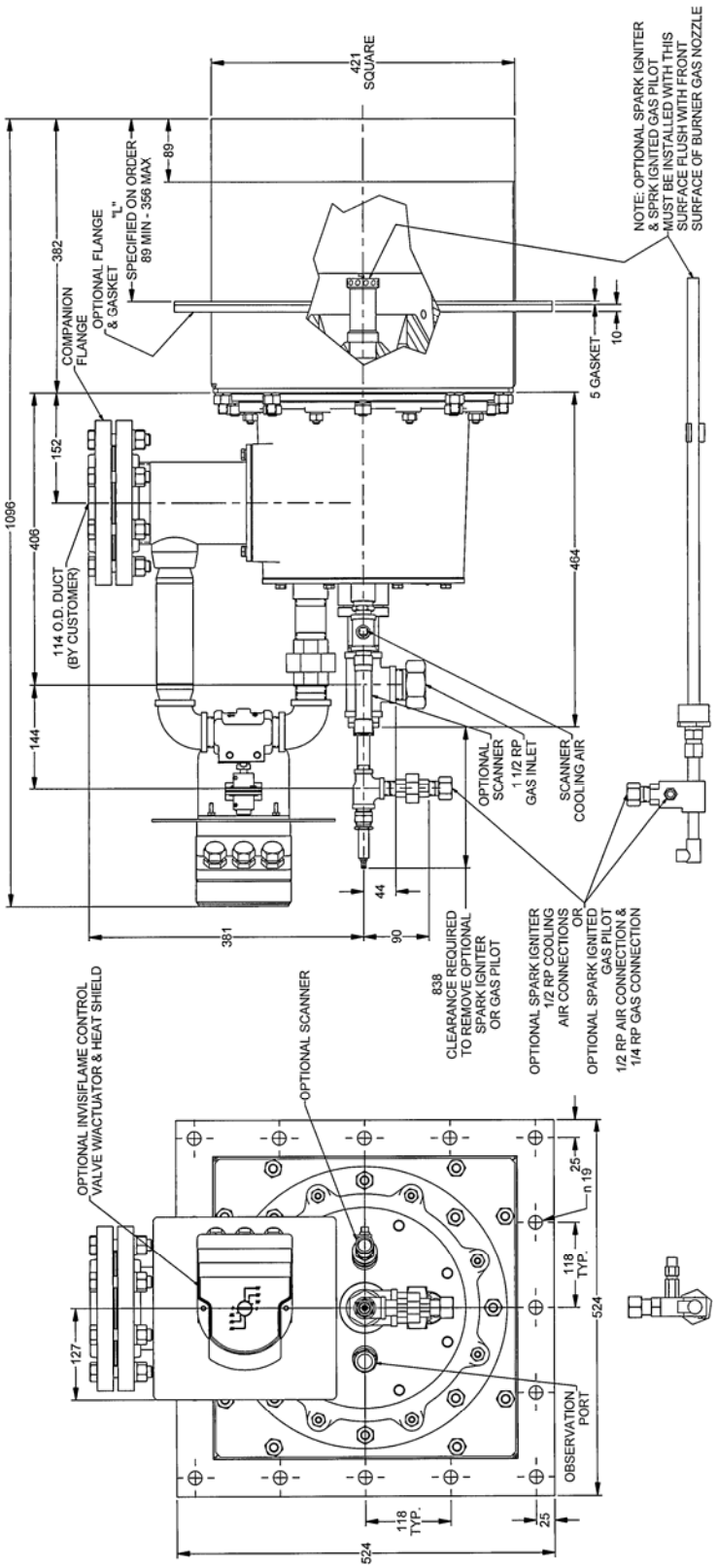
NOTES:
1. AIR INLET CAN BE LOCATED IN ANY POSITION.
2. PILOT COOLING AIR & GAS INLET CAN BE LOCATED IN ANY POSITION THAT DOES NOT INTERFERE WITH OPTIONAL INVISIFAME CONTROL LOOP.

(See Reverse Side for Metric Dimensions)

METRIC
DIMENSIONS

WHI
WHI WALL HUGGER INVISIFLAME® GAS BURNER

WHI 240 WITH SQUARE TILE



Y8321 METRIC
(NOT TO SCALE)

NOTES:
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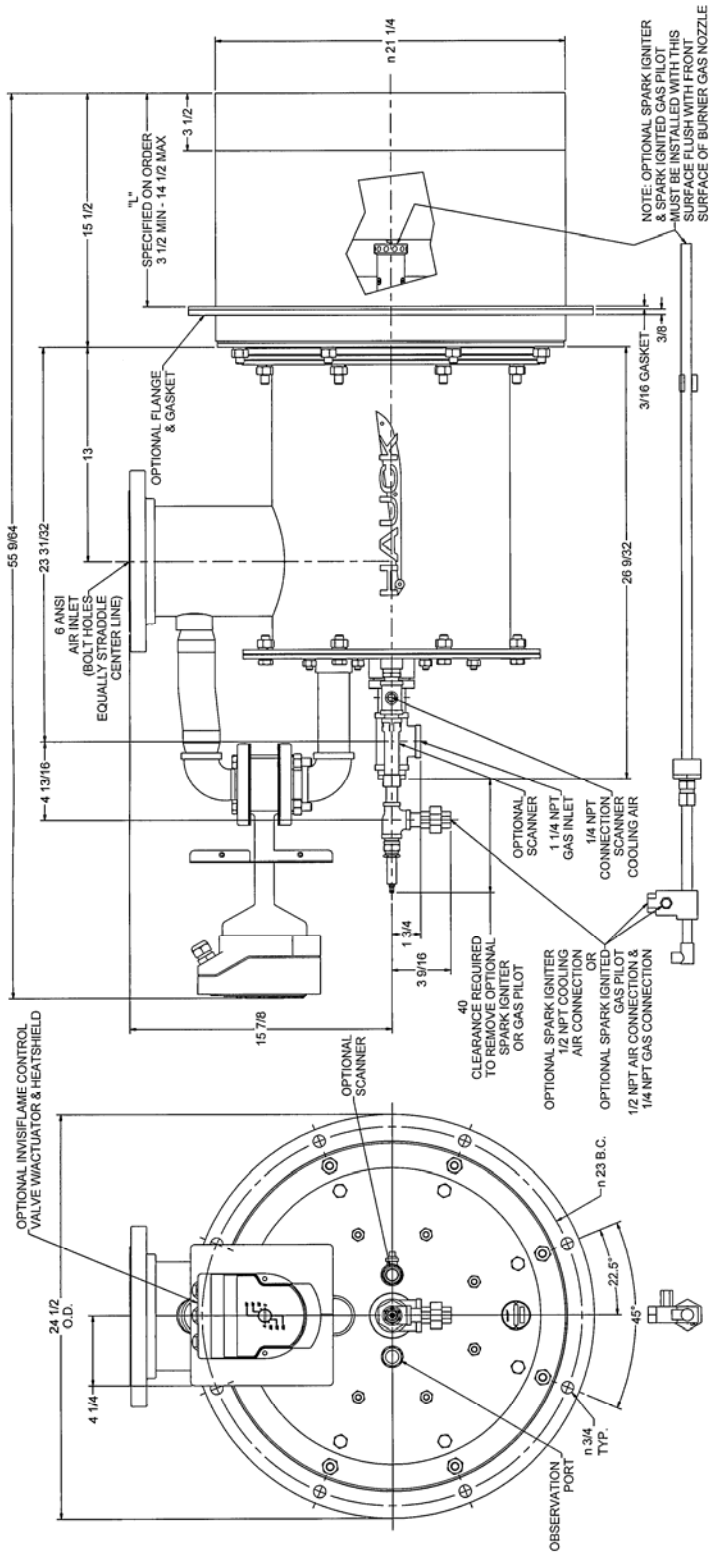
WHI
WHI WALL HUGGER INVISIFLAME® GAS BURNER

WHI 260 WITH ROUND TILE



Y8110
(NOT TO SCALE)

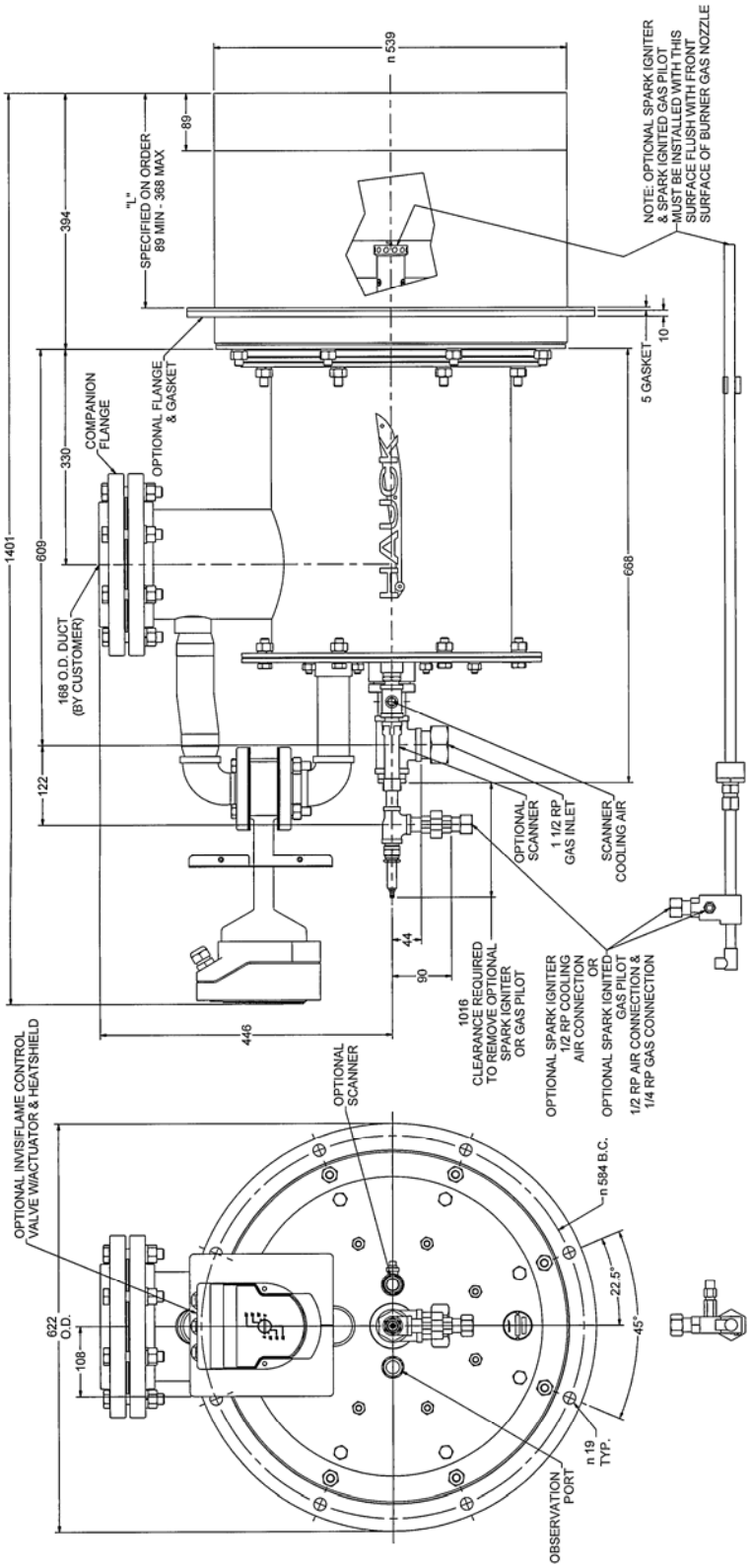
NOTES:
1. AIR INLET CAN BE LOCATED IN ANY POSITION.
2. PILOT COOLING AIR & GAS INLET CAN BE LOCATED IN ANY POSITION THAT DOES NOT INTERFERE WITH OPTIONAL INVISIFAME CONTROL LOOP.
3. AIR INLET FLANGE CONNECTION IS ANSI 125 LB BOLT PATTERN.

(See Reverse Side for Metric Dimensions)

METRIC
DIMENSIONS

WHI
WHI WALL HUGGER INVISIFLAME® GAS BURNER

WHI 260 WITH ROUND TILE



Y8110 METRIC
(NOT TO SCALE)

NOTES:
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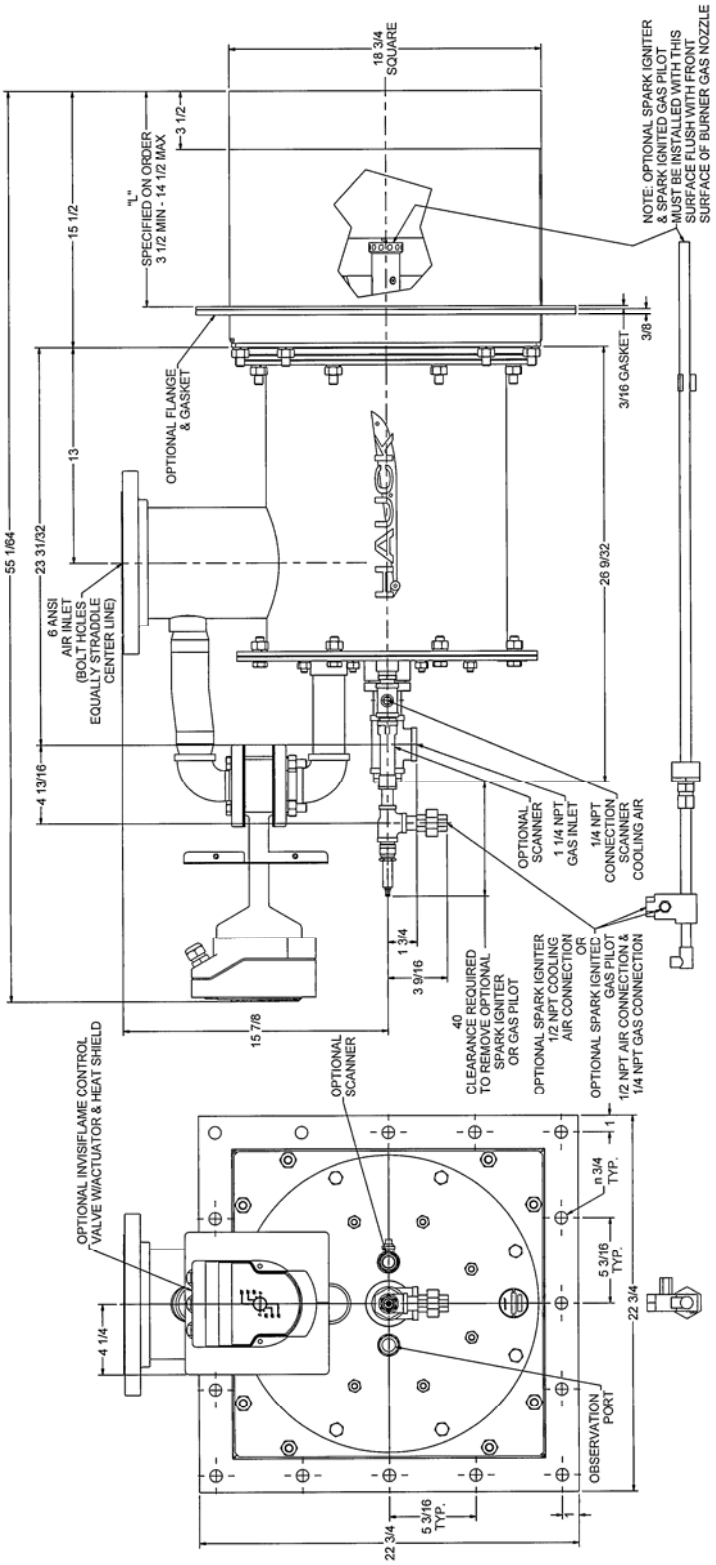
WHI
WHI WALL HUGGER INVISIFLAME® GAS BURNER

WHI 260 WITH SQUARE TILE



Y8063
(NOT TO SCALE)

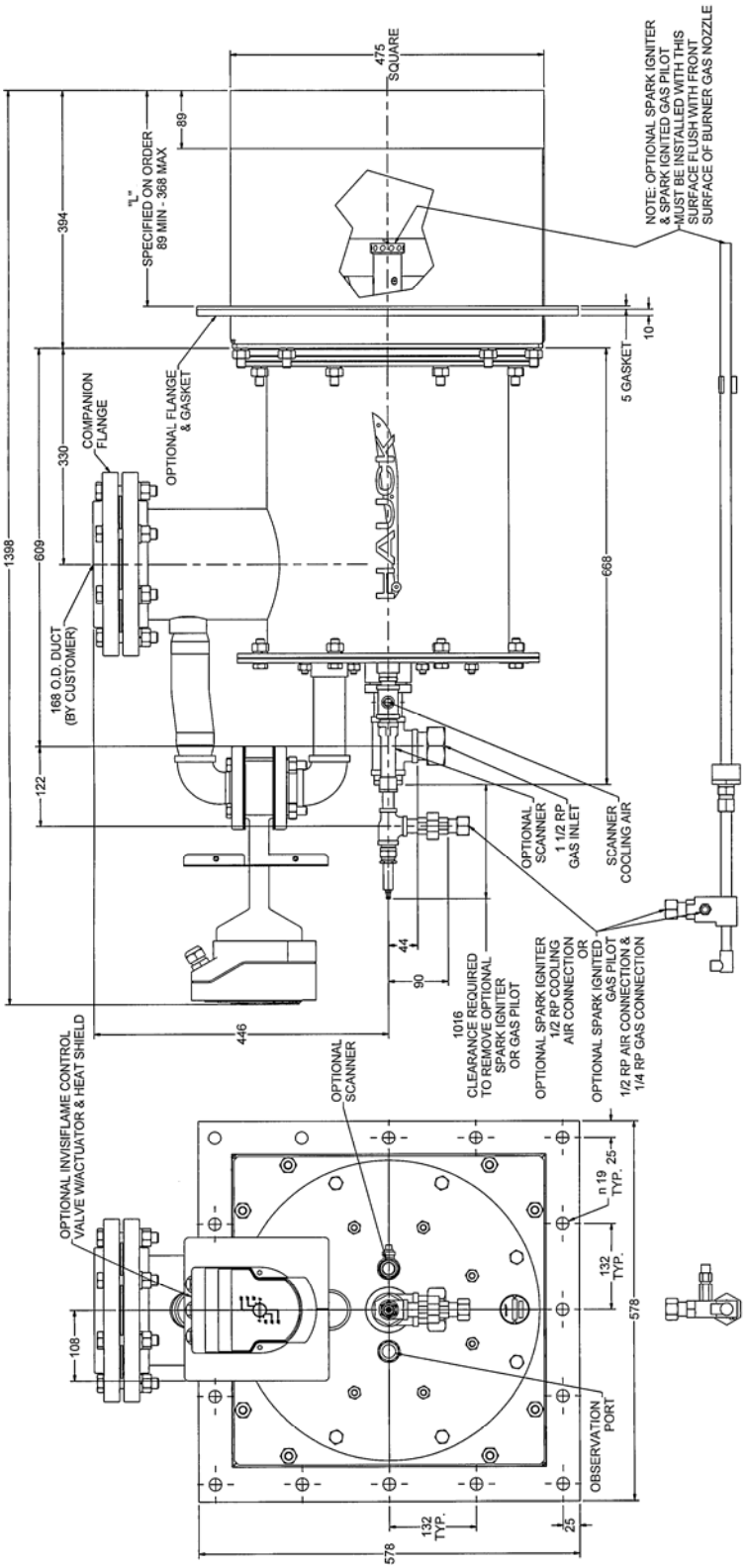
NOTES:
1. AIR INLET CAN BE LOCATED IN ANY POSITION.
2. PILOT COOLING AIR & GAS INLET CAN BE LOCATED IN ANY POSITION THAT DOES NOT INTERFERE WITH OPTIONAL INVISIFAME CONTROL LOOP.
3. AIR INLET FLANGE CONNECTION IS ANSI 125 LB BOLT PATTERN.

(See Reverse Side for Metric Dimensions)

METRIC
DIMENSIONS

WHI
WHI WALL HUGGER INVISIFLAME® GAS BURNER

WHI 260 WITH SQUARE TILE



Y8063 METRIC
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