



**TriOx**  
**TRIPLE AIR STAGED ULTRA LOW NOx BURNER**

	BURNER MODEL							
	1006		2006		1008		2008	
<b>BURNER SPECIFICATIONS – HIGH FIRE</b>	<b>BURNER STATIC INLET AIR PRESSURE OF 8"WC</b>							
Combustion Air Temp. (°F)	60		900		60		900	
Operating Mode	60/40	90/10	60/40	90/10	60/40	90/10	60/40	90/10
<b>Max. Input @ 5% Excess Air (MMBtu/hr)</b>	<b>3.2</b>	<b>3.0</b>	<b>2.0</b>	<b>1.9</b>	<b>6.1</b>	<b>5.5</b>	<b>3.9</b>	<b>3.4</b>
Max. Air Flow @ 8"wc (scfh)	31,800	29,300	19,700	18,100	60,000	53,900	38,400	33,200
Min. Input @ Max. Air Flow (Btu/hr)	190,000	190,000			250,000	250,000		
Max. Excess Air (%)	1,680	1,530			2,450	2,180		
Air Press. @ Switching Valve ("wc)	11.7	10.1	11.7	10.9	8.4	9.9	9	10.1
Burner Gas Inlet Press. ("wc)	15.8	13.9	7.9	7.4	7	5.2	3.7	3
Flame Length @ Max. Input (ft)	8.5	N/A	8.5	N/A	12	N/A	10	N/A
Flame Dia. @ Max. Input (ft)	3	N/A	3	N/A	2.5	N/A	2.5	N/A
Stage 1 & 2 Air Static Press. ("wc)	8	0.3	8	0.3	8	0.5	8	0.4
Stage 3 Air Static Press. ("wc)	4.4	8	3.9	8	6.4	8	6	8
<b>BURNER SPECIFICATIONS – LOW FIRE</b>								
Input @ 5% Excess Air (Btu/hr)	407,000	407,000			730,000	730,000		
Air Flow (scfh)	4,030	4,030			7,250	7,250		
Min Input @ Air flow (Btu/hr)	70,000	70,000			175,000	175,000		
Max. Excess Air (%)	510	510			340	340		
Min Gas for Ignition (scfh)	70	70			170	250		
Min Gas for UV Signal (scfh)	70	70			170	250		

Notes:

- Operating Mode is approximate percentage of Stage 3 Air to Stage 1 & 2 Air through the burner body.
- 60/40 operating mode is required for furnace temperatures below 1600°F; 90/10 (termed Invisiflame™) operating mode is suitable for furnace temperatures above 1600°F.
- Capacities based on natural gas with HHV of 1034 Btu/ft<sup>3</sup>, 0.59 S.G., and stoichiometric air:gas ratio of 9.74:1 with burner firing into chamber under no pressure @ 5% excess air.
- Air and gas flows based on 60°F @ sea level.
- Static air pressure measured at designated locations.
- Flame lengths measured from the end of the burner tile.
- Flame length and diameter is not applicable in Invisiflame™ operating mode.
- All data based on industry standard air and gas piping practices.
- Flame detection via UV scanner.
- Burners can be operated up to a static inlet air pressure of 8 osig; consult Hauck.

(Metric Capacities on Reverse Side)

In accordance with Hauck's commitment to Total Quality Improvement, Hauck reserves the right to change the specifications of products without prior notice.  
**HAUCK MANUFACTURING CO.**, P.O. Box 90 Lebanon, PA 17042-0090 717-272-3051

# METRIC CAPACITIES

## TriOx TRIPLE AIR STAGED ULTRA LOW NO<sub>x</sub> BURNER

	BURNER MODEL							
	1006		2006		1008		2008	
<b>BURNER SPECIFICATIONS – HIGH FIRE</b>	<b>BURNER STATIC INLET AIR PRESSURE OF 1990 Pa</b>							
Combustion Air Temp. (°C)	15.5°C		482°C		15.5°C		482°C	
Operating Mode	60/40	90/10	60/40	90/10	60/40	90/10	60/40	90/10
<b>Max. Input @ 5% Excess Air (kW)</b>	<b>850</b>	<b>780</b>	<b>530</b>	<b>490</b>	<b>1,610</b>	<b>1,440</b>	<b>1,030</b>	<b>890</b>
Max. Air Flow @ 1990 Pa (nm <sup>3</sup> /hr)	850	780	530	490	1,610	1,440	1,030	890
Min. Input @ Max. Air Flow (kW)	50	50			66	66		
Max. Excess Air (%)	1,680	1,530			2,450	2,180		
Air Press. @ Switching Valve (Pa)	2,910	2,510	2,910	2,710	2,090	2,460	2,240	2,510
Burner Gas Inlet Press. (Pa)	3,930	3,460	1,970	1,840	1,740	1,290	920	750
Flame Length @ Max. Input (mm)	2,590	N/A	2,590	N/A	3,660	N/A	3,050	N/A
Flame Dia. @ Max. Input (mm)	910	N/A	910	N/A	760	N/A	760	N/A
Stage 1 & 2 Air Static Press. (Pa)	1,990	75	1,990	75	1,990	124	1,990	100
Stage 3 Air Static Press. (Pa)	1,100	1,990	970	1,990	1,590	1,990	1,490	1,990
<b>BURNER SPECIFICATIONS – LOW FIRE</b>								
Input @ 5% Excess Air (kW)	108	108			194	194		
Air Flow (nm <sup>3</sup> /hr)	108	108			194	194		
Min Input @ Air flow (kW)	19	19			46	46		
Max. Excess Air (%)	510	510			340	340		
Min Gas for Ignition (nm <sup>3</sup> /hr)	1.9	1.9			4.6	6.7		
Min Gas for UV Signal (nm <sup>3</sup> /hr)	1.9	1.9			4.6	6.7		

### Notes:

1. Operating Mode is approximate percentage of Stage 3 Air to Stage 1 & 2 Air through the burner body.
2. 60/40 operating mode is required for furnace temperatures below 870°C; 90/10 (termed Invisiflame™) operating mode is suitable for furnace temperatures above 870°C.
3. Capacities based on natural gas with LHV of 36.74 MJ/nm<sup>3</sup>, 0.59 S.G., and stoichiometric air:gas ratio of 9.74:1 with burner firing into chamber under no pressure @ 5% excess air.
4. Air and gas flows based on 0°C @ sea level.
5. Static air pressure measured at designated locations.
6. Flame lengths measured from the end of the burner tile.
7. Flame length and diameter is not applicable in Invisiflame™ operating mode.
8. All data based on industry standard air and gas piping practices.
9. Flame detection via UV scanner.
10. Burners can be operated up to a static inlet air pressure of 3450 Pa; consult Hauck.



**TriOx**  
**TRIPLE AIR STAGED ULTRA LOW NOx BURNER**

	BURNER MODEL							
	1012		2012		1014		2014	
<b>BURNER SPECIFICATIONS – HIGH FIRE</b>	<b>BURNER STATIC INLET AIR PRESSURE OF 8"WC</b>							
Combustion Air Temp. (°F)	60		900		60		900	
Operating Mode	60/40	90/10	60/40	90/10	60/40	90/10	60/40	90/10
<b>Max. Input @ 5% Excess Air (MMBtu/hr)</b>	<b>11.3</b>	<b>10.9</b>	<b>7</b>	<b>6.8</b>	<b>15.9</b>	<b>15.1</b>	<b>9.8</b>	<b>9.3</b>
Max. Air Flow @ 8"wc (scfh)	112,000	108,000	69,300	66,800	157,000	149,000	97,200	92,300
Min. Input @ Max. Air Flow (Btu/hr)	500,000	500,000			500,000	500,000		
Max. Excess Air (%)	2,280	2,190			3,240	3,070		
Air Press. @ Switching Valve ("wc)	8.6	9.3	9	10.2	8.2	8.3	8.8	9.1
Burner Gas Inlet Press. ("wc)	12	12	5	4.4	14.7	13.5	6	5.3
Flame Length @ Max. Input (ft)	16	N/A	13	N/A	15	N/A	12.5	N/A
Flame Dia. @ Max. Input (ft)	4.5	N/A	3.5	N/A	5.5	N/A	4.5	N/A
Stage 1 & 2 Air Static Press. ("wc)	8	0.3	8	0.3	8	0.2	8	0.2
Stage 3 Air Static Press. ("wc)	6.2	8	6.2	8	5.5	8	5.5	8
<b>BURNER SPECIFICATIONS – LOW FIRE</b>								
Input @ 5% Excess Air (MMBtu/hr)	1.6	1.5			2	2		
Air Flow (scfh)	15,700	14,600			19,800	19,800		
Min. Input @ Air Flow (Btu/hr)	207,000	207,000			415,000	415,000		
Max. Excess Air (%)	700	650			380	380		
Min Gas for Ignition (scfh)	200	390			400	400		
Min Gas for UV Signal (scfh)	200	390			350	350		

Notes:

- Operating Mode is approximate percentage of Stage 3 Air to Stage 1 & 2 Air through the burner body.
- 60/40 operating mode is required for furnace temperatures below 1600°F; 90/10 (termed Invisiflame™) operating mode is suitable for furnace temperatures above 1600°F.
- Capacities based on natural gas with HHV of 1034 Btu/ft<sup>3</sup>, 0.59 S.G., and stoichiometric air:gas ratio of 9.74:1 with burner firing into chamber under no pressure @ 5% excess air.
- Air and gas flows based on 60°F @ sea level.
- Static air pressure measured at designated locations.
- Flame lengths measured from the end of the burner tile.
- Flame length and diameter is not applicable in Invisiflame™ operating mode.
- All data based on industry standard air and gas piping practices.
- Flame detection via UV scanner.
- Burners can be operated up to a static inlet air pressure of 8 osig; consult Hauck.

(Metric Capacities on Reverse Side)

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# METRIC CAPACITIES

## TriOx TRIPLE AIR STAGED ULTRA LOW NOx BURNER

	BURNER MODEL							
	1012		2012		1014		2014	
<b>BURNER SPECIFICATIONS – HIGH FIRE</b>	<b>BURNER STATIC INLET AIR PRESSURE OF 1990 Pa</b>							
Combustion Air Temp. (°C)	15.5°C		482°C		15.5°C		482°C	
Operating Mode	60/40	90/10	60/40	90/10	60/40	90/10	60/40	90/10
<b>Max. Input @ 5% Excess Air (kW)</b>	<b>3,000</b>	<b>2,890</b>	<b>1,860</b>	<b>1,790</b>	<b>4,220</b>	<b>4,010</b>	<b>2,600</b>	<b>2,470</b>
Max. Air Flow @ 1990 Pa (nm <sup>3</sup> /hr)	3,000	2,890	1,860	1,790	4,220	4,010	2,600	2,470
Min. Input @ Max. Air Flow (kW)	132	132			132	132		
Max. Excess Air (%)	2,280	2,190			3,240	3,070		
Air Press. @ Switching Valve (Pa)	2,140	2,310	2,240	2,540	2,040	2,070	2,190	2,260
Burner Gas Inlet Press. (Pa)	2,990	2,990	1,240	1,100	3,660	3,360	1,490	1,320
Flame Length @ Max. Input (mm)	4,880	N/A	3,960	N/A	4,570	N/A	3,810	N/A
Flame Dia. @ Max. Input (mm)	1,370	N/A	1,070	N/A	1,680	N/A	1,370	N/A
Stage 1 & 2 Air Static Press. (Pa)	1,990	75	1,990	75	1,990	50	1,990	50
Stage 3 Air Static Press. (Pa)	1,540	1,990	1,540	1,990	1,370	1,990	1,370	1,990
<b>BURNER SPECIFICATIONS – LOW FIRE</b>								
Input @ 5% Excess Air (kW)	420	390			530	530		
Air Flow (nm <sup>3</sup> /hr)	420	390			530	530		
Min Input @ Air flow (kW)	55	55			110	110		
Max. Excess Air (%)	700	650			380	380		
Min Gas for Ignition (nm <sup>3</sup> /hr)	5.4	10.4			10.7	10.7		
Min Gas for UV Signal (nm <sup>3</sup> /hr)	5.4	10.4			9.4	9.4		

### Notes:

- Operating Mode is approximate percentage of Stage 3 Air to Stage 1 & 2 Air through the burner body.
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- Capacities based on natural gas with LHV of 36.74 MJ/nm<sup>3</sup>, 0.59 S.G., and stoichiometric air:gas ratio of 9.74:1 with burner firing into chamber under no pressure @ 5% excess air.
- Air and gas flows based on 0°C @ sea level.
- Static air pressure measured at designated locations.
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**TriOx**  
**TRIPLE AIR STAGED ULTRA LOW NOx BURNER**

	BURNER MODEL			
	1016		2016	
<b>BURNER SPECIFICATIONS – HIGH FIRE</b>	<b>BURNER STATIC INLET AIR PRESSURE OF 8"WC</b>			
Combustion Air Temp. (°F)	60		900	
Operating Mode	60/40	90/10	60/40	90/10
<b>Max. Input @ 5% Excess Air (MMBtu/hr)</b>	<b>21</b>	<b>21</b>	<b>13</b>	<b>13</b>
Max. Air Flow @ 8"wc (scfh)	207,000	207,000	128,000	128,000
Min. Input @ Max Air Flow (Btu/hr)	900,000	900,000		
Max. Excess Air (%)	2,340	2,340		
Air Press. @ Switching Valve ("wc)	8.2	9.7	8.8	10.5
Burner Gas Inlet Press. ("wc)	8.1	7.2	4	3.1
Flame Length @ Max. Input (ft)	18	N/A	15	N/A
Flame Dia. @ Max. Input (ft)	6	N/A	5	N/A
Stage 1 & 2 Air Static Press. ("wc)	8	0.1	8	0.1
Stage 3 Air Static Press. ("wc)	5	8	5	8
<b>BURNER SPECIFICATIONS – LOW FIRE</b>				
Input @ 5% Excess Air (MMBtu/hr)	2.5	2.5		
Air Flow (scfh)	24,700	24,700		
Min. Input @ Air Flow (MMBtu/hr)	800,00	800,000		
Max. Excess Air (%)	230	230		
Min Gas for Ignition (scfh)	775	775		
Min Gas for UV Signal (scfh)	775	775		

Notes:

1. Operating Mode is approximate percentage of Stage 3 Air to Stage 1 & 2 Air through the burner body.
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(Metric Capacities on Reverse Side)

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# METRIC CAPACITIES

## TriOx

### TRIPLE AIR STAGED ULTRA LOW NOx BURNER

	BURNER MODEL			
	1016		2016	
<b>BURNER SPECIFICATIONS – HIGH FIRE</b>	<b>BURNER STATIC INLET AIR PRESSURE OF 1990 Pa</b>			
Combustion Air Temp. (°C)	15.5		482	
Operating Mode	60/40	90/10	60/40	90/10
<b>Max. Input @ 5% Excess Air (kW)</b>	<b>5,570</b>	<b>5,570</b>	<b>3,450</b>	<b>3,450</b>
Max. Air Flow @ 1990 Pa (nm <sup>3</sup> /hr)	5,570	5,570	3,450	3,450
Min. Input @ Max. Air Flow (kW)	240	240		
Max. Excess Air (%)	2,340	2,340		
Air Press. @ Switching Valve (Pa)	2,040	2,410	2,190	2,610
Burner Gas Inlet Press. (Pa)	2,015	1,790	995	770
Flame Length @ Max. Input (mm)	5,490	N/A	4,570	N/A
Flame Dia. @ Max. Input (mm)	1,830	N/A	1,530	N/A
Stage 1 & 2 Air Static Press. (Pa)	1,990	25	1,990	25
Stage 3 Air Static Press. (Pa)	1,240	1,990	1,240	1,990
<b>BURNER SPECIFICATIONS – LOW FIRE</b>				
Input @ 5% Excess Air (kW)	660	660		
Air Flow (nm <sup>3</sup> /hr)	660	660		
Min. Input @ Air Flow (kW)	210	210		
Max. Excess Air (%)	230	230		
Min Gas for Ignition (nm <sup>3</sup> /hr)	21	21		
Min Gas for UV Signal (nm <sup>3</sup> /hr)	21	21		

Notes:

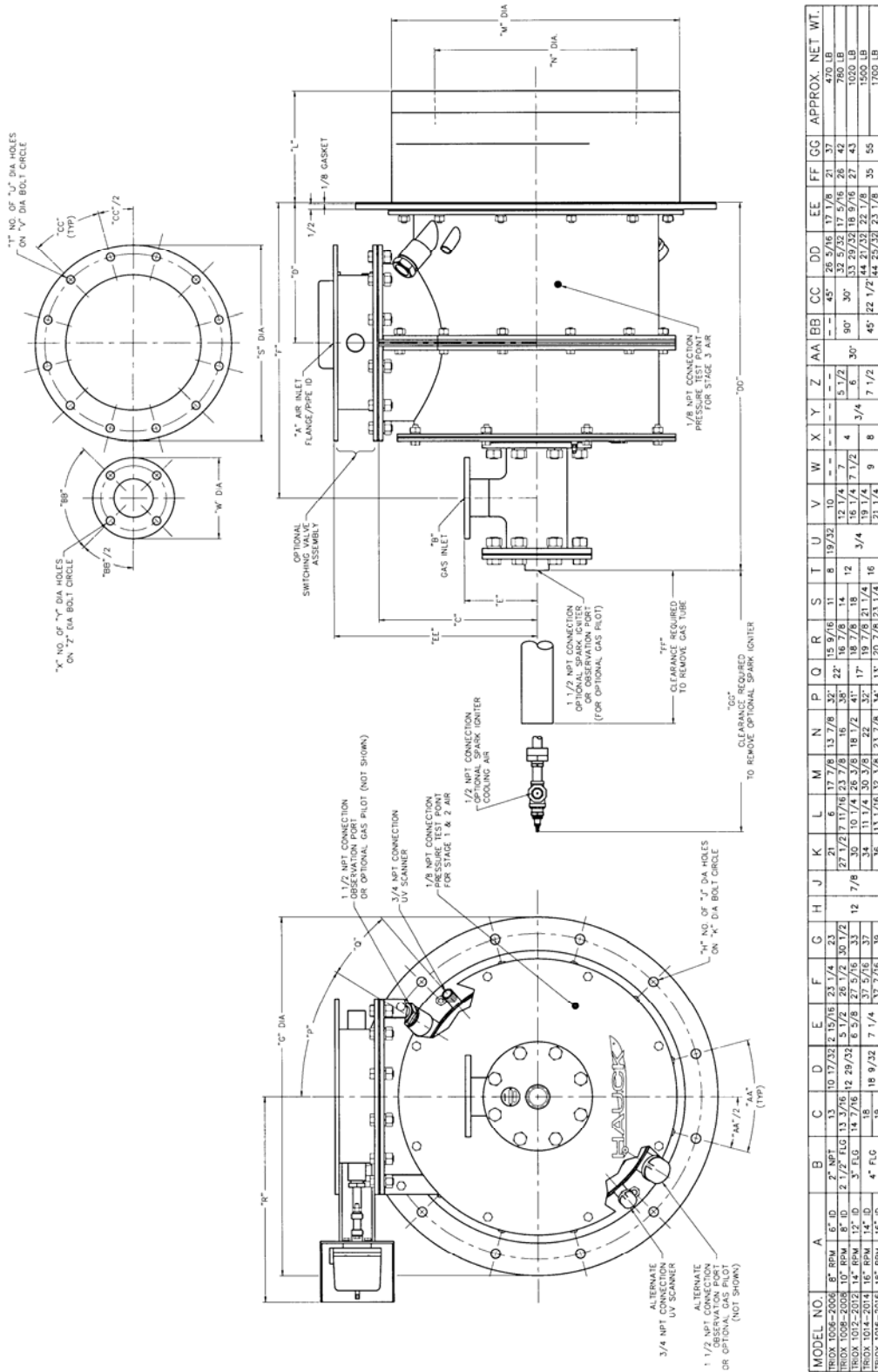
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3. Capacities based on natural gas with LHV of 36.74 MJ/nm<sup>3</sup>, 0.59 S.G., and stoichiometric air:gas ratio of 9.74:1 with burner firing into chamber under no pressure @ 5% excess air.
4. Air and Gas flows based on 0°C @ sea level.
5. Static air pressure measured at designated locations.
6. Flame lengths measured from the end of the burner tile.
7. Flame length and diameter is not applicable in Invisiflame™ operating mode.
8. All data based on industry standard air and gas piping practices.
9. Flame detection via UV scanner.
10. Burners can be operated up to a static inlet pressure of 3450 Pa; consult Hauck.



# DIMENSIONS

## TriOx TRIPLE AIR STAGED ULTRA LOW NOx BURNER

### TriOx 1006 – TriOx 2016



Y7524  
(NOT TO SCALE)

- NOTES:
- AIR INLET MOUNTING CAN BE LOCATED @ 6 AND 12 O'CLOCK POSITIONS ONLY.
  - GAS INLET CAN BE LOCATED IN ANY POSITION THAT DOES NOT INTERFERE WITH UV SCANNER OR GAS PILOT.
  - WHEN MOUNTING BURNER, ENSURE THAT CONNECTIONS FOR UV SCANNER AND OBSERVATION PORT/GAS PILOT ARE LOCATED ABOVE THE BURNER BODY CENTER LINE.
  - GAS INLET FLANGE CONNECTIONS ARE ANSI 125 LB BOLT PATTERNS.

(See Reverse Side For Metric Dimensions)

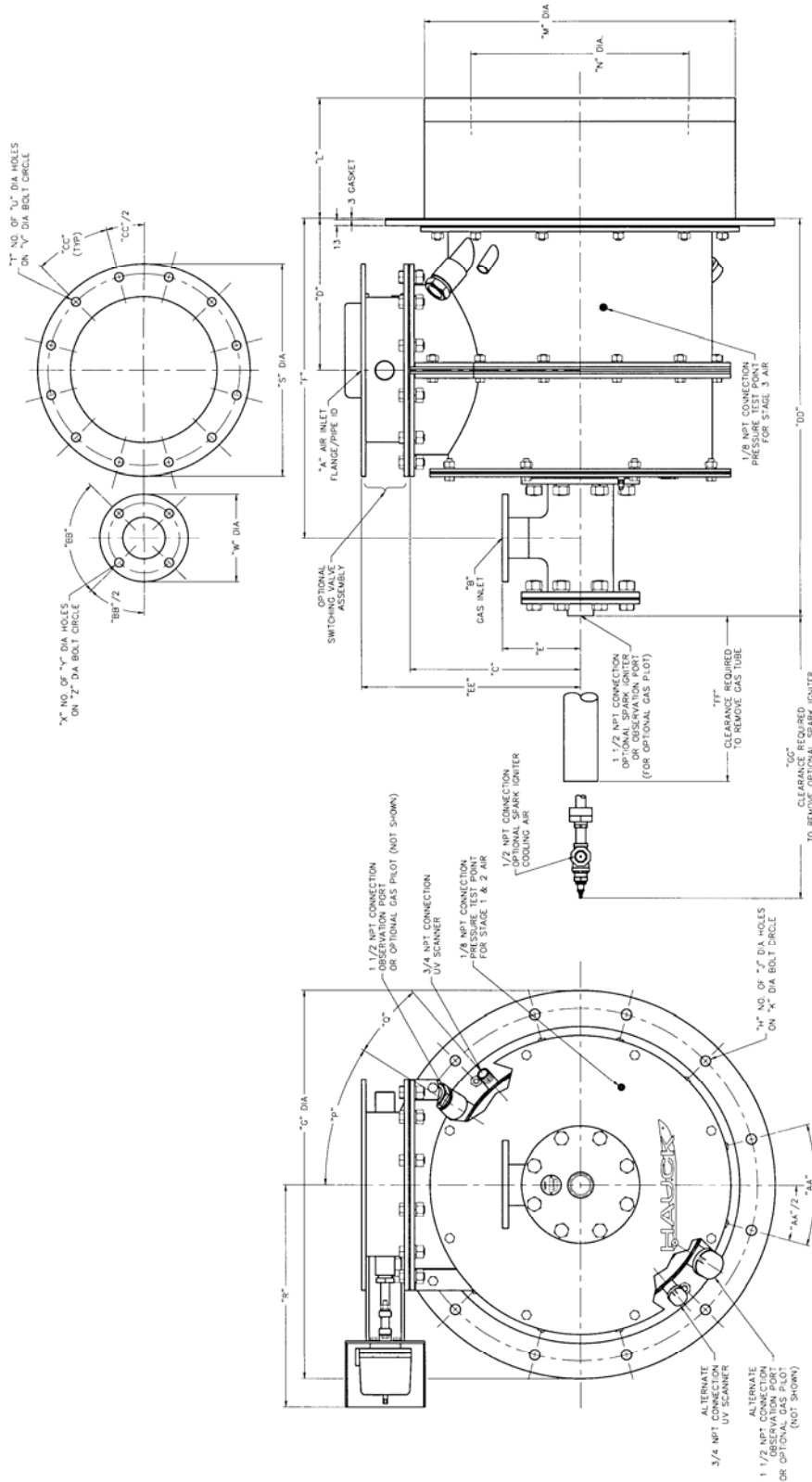
MODEL NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	GG	APPROX. NET WT.	
TRIOX 1006-2006	8" REM	2" NPT	13	10	17	32	2	15	16	23	1/4	23	21	6	17	7/8	13	7/8	32	22	15	9/16	11	8	19	3/2	10	10	10	10	10	10	470 LB
TRIOX 1008-2008	10" REM	2 1/2" NPT	13	10	17	32	2	15	16	23	1/4	23	21	6	17	7/8	13	7/8	32	22	15	9/16	11	8	19	3/2	10	10	10	10	10	780 LB	
TRIOX 1012-2012	14" REM	3" NPT	13	10	17	32	2	15	16	23	1/4	23	21	6	17	7/8	13	7/8	32	22	15	9/16	11	8	19	3/2	10	10	10	10	10	1000 LB	
TRIOX 1014-2014	16" REM	4" NPT	13	10	17	32	2	15	16	23	1/4	23	21	6	17	7/8	13	7/8	32	22	15	9/16	11	8	19	3/2	10	10	10	10	10	1300 LB	
TRIOX 1016-2016	18" REM	4" NPT	13	10	17	32	2	15	16	23	1/4	23	21	6	17	7/8	13	7/8	32	22	15	9/16	11	8	19	3/2	10	10	10	10	10	1300 LB	

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# TriOx 1006 – TriOx 2016

# METRIC DIMENSIONS

## TriOx TRIPLE AIR STAGED ULTRA LOW NOx BURNER



MODEL NO.	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	GG	APPROX. NET WT.
TRIOX 1006-2006	152 ID	2" NPT	330	267	75	591	584	535	152	454	352	32	22	395	279	8	15	254	311	178	4	140	191	152	30	90	30	861	472	688	1092	354 KG
TRIOX 1006-2008	10" RPM	2 1/2" FLG	330	267	140	673	775	699	195	606	408	38	22	479	356	12	19	413	413	191	191	191	191	191	191	191	191	191	191	191	191	463 KG
TRIOX 1012-2012	14" RPM	3" FLG	357	294	168	694	836	762	260	670	470	41	17	479	457	16	16	468	468	229	229	229	229	229	229	229	229	229	229	229	229	683 KG
TRIOX 1014-2014	16" RPM	3 1/2" ID	357	294	184	748	890	814	288	722	539	32	13	539	517	16	16	498	498	249	249	249	249	249	249	249	249	249	249	249	249	770 KG
TRIOX 1016-2016	18" RPM	4" FLG	483	483	184	848	990	914	332	822	608	14	13	559	537	16	16	518	518	249	249	249	249	249	249	249	249	249	249	249	249	770 KG

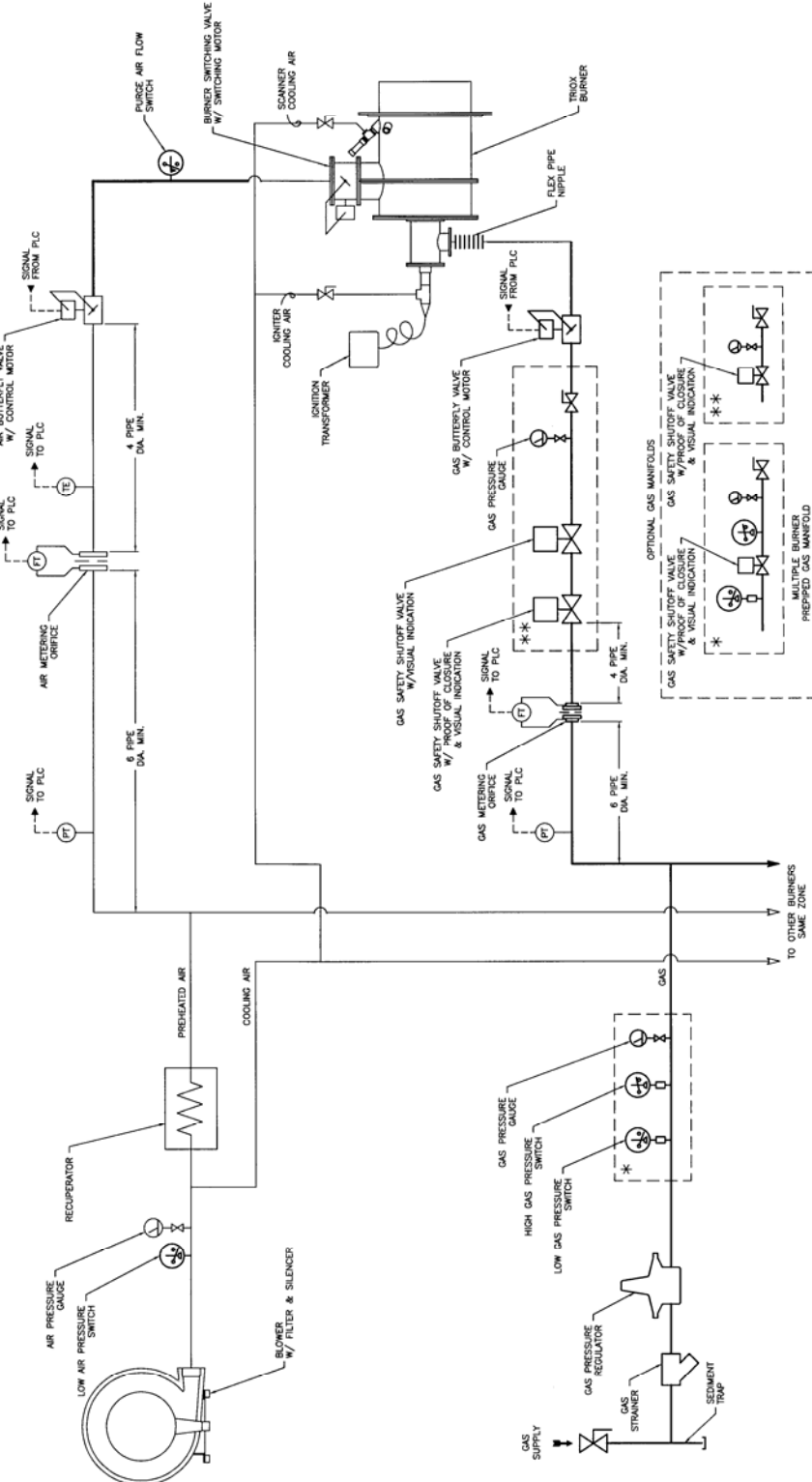
Y7524 METRIC  
(NOT TO SCALE)

- NOTES:
1. DIMENSIONS ARE IN MILLIMETERS.
  2. AIR INLET MOUNTING CAN BE LOCATED @ 6 AND 12 O'CLOCK POSITIONS ONLY.
  3. GAS INLET CAN BE LOCATED IN ANY POSITION THAT DOES NOT INTERFERE WITH UV SCANNER OR GAS PILOT.
  4. WHEN MOUNTING BURNER, ENSURE THAT CONNECTIONS FOR UV SCANNER AND OBSERVATION PORT/GAS PILOT ARE LOCATED ABOVE THE BURNER BODY CENTER LINE.
  5. GAS INLET FLANGE CONNECTIONS ARE ANSI 125 LB BOLT PATTERNS.



# TriOx TRIPLE AIR STAGED ULTRA LOW NOx BURNER

## TYPICAL MULTIPLE BURNER SYSTEM PREHEATED AIR MASS FLOW CONTROL



Y7531  
(NOT TO SCALE)

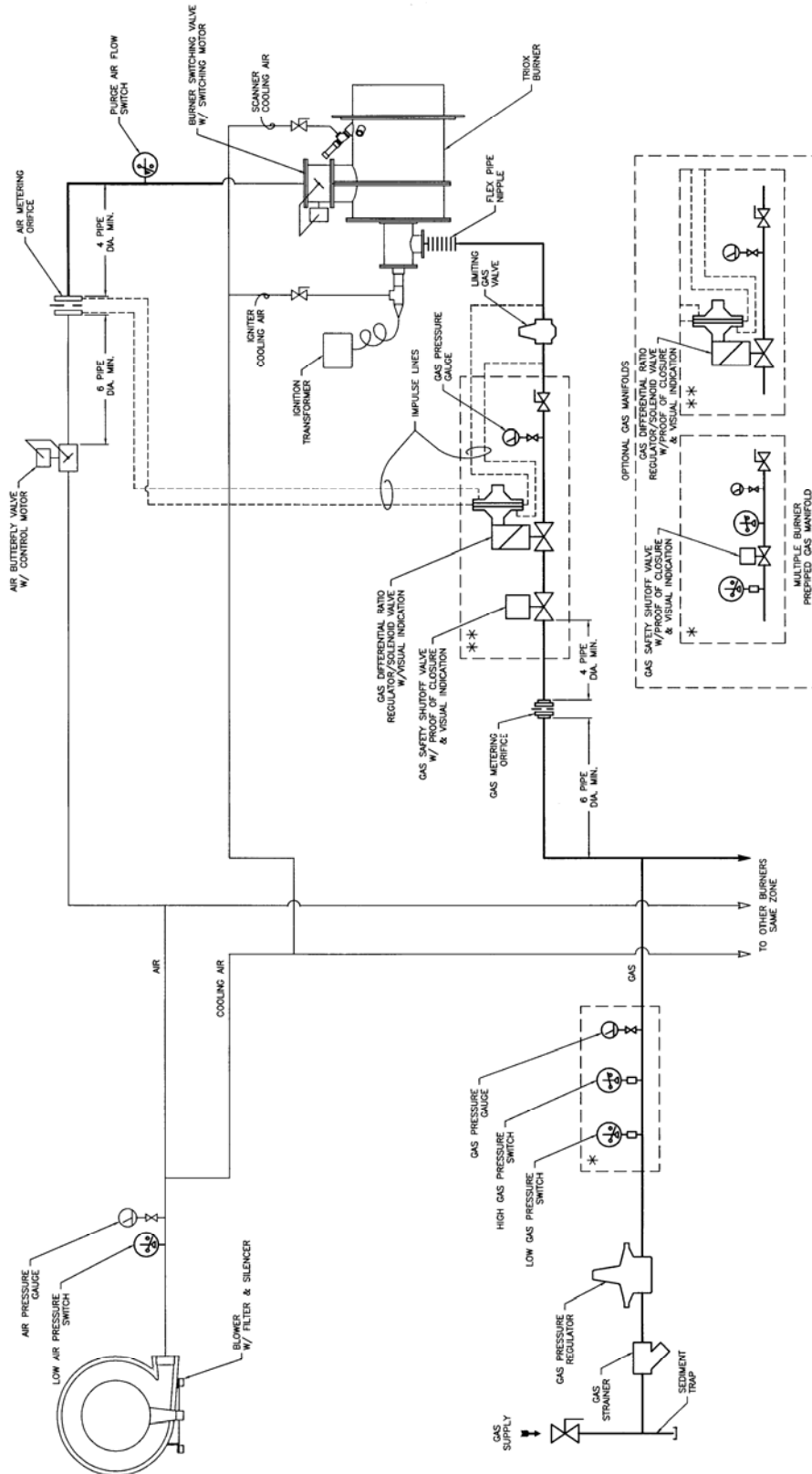
- NOTES:
1. OPTIONAL GAS MANIFOLDS ARE PERMITTED AS AN EXCEPTION PER NFPA 86 2003 EDITION REQUIREMENTS FOR MULTIPLE BURNERS FIRING INTO A COMMON HEATING CHAMBER, HOWEVER, SPECIAL FEATURES ARE REQUIRED IN THE ASSOCIATED CONTROL SYSTEM (SEE HAUCK APPLICATION SHEET GJ76). IF USING OPTIONAL GAS PILOT (NOT SHOWN), CONSULT HAUCK FOR INSTALLATION SPECIFICS.
  - 2.

(OVER)

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# TriOx TRIPLE AIR STAGED ULTRA LOW NOx BURNER

## TYPICAL MULTIPLE BURNER SYSTEM RATIO CONTROL



- NOTES:
1. OPTIONAL GAS MANIFOLDS ARE PERMITTED AS AN EXCEPTION PER NFPA 86 2003 EDITION REQUIREMENTS FOR MULTIPLE BURNERS FIRING INTO A COMMON HEATING CHAMBER, HOWEVER, SPECIAL FEATURES ARE REQUIRED IN THE ASSOCIATED CONTROL SYSTEM (SEE HAUCK APPLICATION SHEET GJ76).
  2. IF USING OPTIONAL GAS PILOT (IGNITER (NOT SHOWN), CONSULT HAUCK FOR INSTALLATION SPECIFICS.

Y7530  
(NOT TO SCALE)