



## CAPACITIES

### NOVASTAR NS-75 – NS-100

NovaStar-75 (Natural Gas)								
Output			Combustion Air Flow (SCFH)	Burner Air Pressure (in.w.c.)	Natural Gas Flow (SCFH)	Burner Gas Pressure (in.w.c.)	Flame	
	VFD (Hz)	Burner (MMBTU/h)					Length (ft)	Diameter (ft)
<b>LOW FIRE</b>	16	18	252,000	0.6	17,300	2.7	5	4
	20	22	315,000	1.2	21,600	3.8	5	4
	25	27	386,000	1.9	26,400	6.6	6	3
	30	33	468,000	2.8	32,000	8.5	7	4
	40	45	630,000	4.9	43,100	16.2	8	4
	50	55	783,000	7.8	53,600	23.7	9	4
<b>HIGH FIRE</b>	60	70	985,000	11.1	67,400	38.4	9	4

NovaStar-75 (Gaseous Propane)								
Output			Combustion Air Flow (SCFH)	Burner Air Pressure (in.w.c.)	Propane Gas Flow (SCFH)	Burner Gas Pressure (in.w.c.)	Flame	
	VFD (Hz)	Burner (MMBTU/h)					Length (ft)	Diameter (ft)
<b>LOW FIRE</b>	16	18	252,000	0.6	7,200	1.2	5	4
	20	22	315,000	1.2	8,800	1.6	5	4
	25	27	386,000	1.9	10,800	2.8	6	3
	30	33	468,000	2.8	13,200	3.7	7	4
	40	45	630,000	4.9	18,000	7.3	8	4
	50	55	783,000	7.8	22,000	10.3	9	4
<b>HIGH FIRE</b>	60	70	985,000	11.1	28,000	17.1	9	4

#### NOTES:

1. Capacities based on Natural Gas with a higher heating value of 1,042 BTU/ft<sup>3</sup>, 0.59 S.G., and a stoichiometric air to fuel ratio of 9.74:1 and Gaseous Propane with a higher heating value of 2,500 BTU/ft<sup>3</sup>, 1.52 S.G., and a stoichiometric air to fuel ratio of 23.8:1
2. Air and gas flows are based on 60°F @ sea level.
3. Burner air and gas pressures are measured upstream of the mixing assembly.
4. Capacities listed above are for 50% excess air. Capacities and excess air are typically adjusted on site to achieve optimal emissions per application.
5. Burners are suitable for use on other clean industrial gaseous fuels, such as gaseous propane, for more information please consult Hauck.

See Reverse Side for NS100 Capacities.

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

## CAPACITIES

NovaStar-100 (Natural Gas)								
Output			Combustion Air Flow (SCFH)	Burner Air Pressure (in.w.c.)	Natural Gas Flow (SCFH)	Burner Gas Pressure (in.w.c.)	Flame	
	VFD (Hz)	Burner (MMBTU/h)					Length (ft)	Diameter (ft)
<b>LOW FIRE</b>	16	27	374,000	0.7	26,000	3.0	5	3
	20	33	470,000	1.2	32,000	6.6	4	4
	25	40	575,000	1.8	39,000	9.7	4	4
	30	49	680,000	2.7	47,000	14.2	5	4
	40	63	890,000	4.4	61,000	23.3	6	5
	50	85	1,200,000	8.1	82,000	37.7	7	5
<b>HIGH FIRE</b>	60	100	1,410,000	11.1	97,000	48.5	10	6

NovaStar-100 (Gaseous Propane)								
Output			Combustion Air Flow (SCFH)	Burner Air Pressure (in.w.c.)	Propane Gas Flow (SCFH)	Burner Gas Pressure (in.w.c.)	Flame	
	VFD (Hz)	Burner (MMBTU/h)					Length (ft)	Diameter (ft)
<b>LOW FIRE</b>	16	27	374,000	0.7	10,800	1.3	5	3
	20	33	470,000	1.2	13,200	2.9	4	4
	25	40	575,000	1.8	16,000	4.2	4	4
	30	49	680,000	2.7	19,600	6.4	5	4
	40	63	890,000	4.4	25,200	10.2	6	5
	50	85	1,200,000	8.1	34,000	16.7	7	5
<b>HIGH FIRE</b>	60	100	1,410,000	11.1	40,000	21.2	10	6

### NOTES:

1. Capacities based on Natural Gas with a higher heating value of 1,042 BTU/ft<sup>3</sup>, 0.59 S.G., and a stoichiometric air to fuel ratio of 9.74:1 and Gaseous Propane with a higher heating value of 2,500 BTU/ft<sup>3</sup>, 1.52 S.G., and a stoichiometric air to fuel ratio of 23.8:1
2. Air and gas flows are based on 60°F @ sea level.
3. Burner air and gas pressures are measured upstream of the mixing assembly.
4. Capacities listed above are for 50% excess air. Capacities and excess air are typically adjusted on site to achieve optimal emissions per application.
5. Burners are suitable for use on other clean industrial gaseous fuels, such as gaseous propane, for more information please consult Hauck.



## CAPACITIES

### NOVASTAR NS-125 – NS-150

NovaStar-125 (Natural Gas)								
Output			Combustion Air Flow (SCFH)	Burner Air Pressure (in.w.c.)	Natural Gas Flow (SCFH)	Burner Gas Pressure (in.w.c.)	Flame	
	VFD (Hz)	Burner (MMBTU/h)					Length (ft)	Diameter (ft)
<b>LOW FIRE</b>	16	34	475,000	0.6	33,000	3.1	4	3
	20	42	605,000	1.0	41,000	7.6	5	3
	25	53	750,000	1.5	51,000	11.7	5	3
	30	64	910,000	2.1	62,000	17.3	6	4
	40	87	1,220,000	3.8	84,000	31.9	7	4
	50	111	1,560,000	5.5	107,000	49.1	8	5
<b>HIGH FIRE</b>	60	129	1,820,000	8.0	125,000	74.1	10	5

NovaStar-125 (Gaseous Propane)								
Output			Combustion Air Flow (SCFH)	Burner Air Pressure (in.w.c.)	Propane Gas Flow (SCFH)	Burner Gas Pressure (in.w.c.)	Flame	
	VFD (Hz)	Burner (MMBTU/h)					Length (ft)	Diameter (ft)
<b>LOW FIRE</b>	16	34	475,000	0.6	13,600	1.4	4	3
	20	42	605,000	1.0	16,800	3.3	5	3
	25	53	750,000	1.5	21,200	5.2	5	3
	30	64	910,000	2.1	25,600	7.6	6	4
	40	87	1,220,000	3.8	34,800	14.1	7	4
	50	111	1,560,000	5.5	44,400	21.8	8	5
<b>HIGH FIRE</b>	60	129	1,820,000	8.0	51,600	32.5	10	5

#### NOTES:

1. Capacities based on Natural Gas with a higher heating value of 1,042 BTU/ft<sup>3</sup>, 0.59 S.G., and a stoichiometric air to fuel ratio of 9.74:1 and Gaseous Propane with a higher heating value of 2,500 BTU/ft<sup>3</sup>, 1.52 S.G., and a stoichiometric air to fuel ratio of 23.8:1
2. Air and gas flows are based on 60°F @ sea level.
3. Burner air and gas pressures are measured upstream of the mixing assembly.
4. Capacities listed above are for 50% excess air. Capacities and excess air are typically adjusted on site to achieve optimal emissions per application.
5. Burners are suitable for use on other clean industrial gaseous fuels, such as gaseous propane, for more information please consult Hauck.

See Reverse Side for NS150 Capacities.

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## CAPACITIES

NovaStar-150 (Natural Gas)								
Output			Combustion Air Flow (SCFH)	Burner Air Pressure (in.w.c.)	Natural Gas Flow (SCFH)	Burner Gas Pressure (in.w.c.)	Flame	
	VFD (Hz)	Burner (MMBTU/h)					Length (ft)	Diameter (ft)
LOW FIRE	16	42	596,980	0.7	40,861	4.9	6	3
	20	53	743,370	1.2	50,881	8.7	6	4
	25	60	845,420	1.8	57,866	11.8	6	5
	30	75	1,065,700	2.5	72,943	19.0	8	5
	40	106	1,499,510	4.6	102,636	36.5	9	5
	50	131	1,855,090	7.0	126,975	55.1	10	6
HIGH FIRE	60	150	2,126,150	9.9	145,530	76.5	15	6

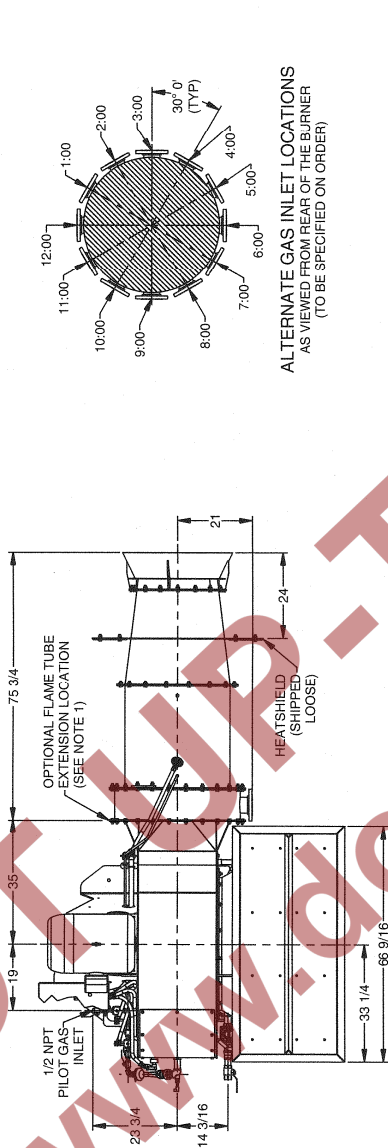
NovaStar-150 (Gaseous Propane)								
Output			Combustion Air Flow (SCFH)	Burner Air Pressure (in.w.c.)	Propane Gas Flow (SCFH)	Burner Gas Pressure (in.w.c.)	Flame	
	VFD (Hz)	Burner (MMBTU/h)					Length (ft)	Diameter (ft)
LOW FIRE	16	42	596,980	0.7	16,800	2.1	6	3
	20	53	743,370	1.2	21,200	3.9	6	4
	25	60	845,420	1.8	24,000	5.2	6	5
	30	75	1,065,700	2.5	30,000	8.3	8	5
	40	106	1,499,510	4.6	42,400	16.0	9	5
	50	131	1,855,090	7.0	52,400	24.2	10	6
HIGH FIRE	60	150	2,126,150	9.9	60,000	33.5	15	6

### NOTES:

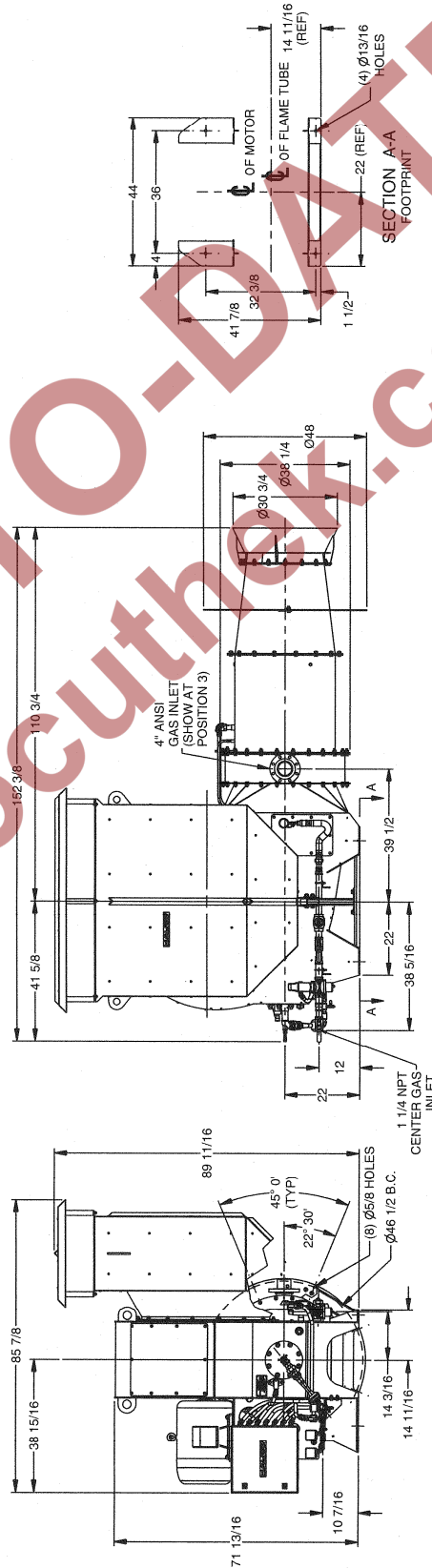
1. Capacities based on Natural Gas with a higher heating value of 1,042 BTU/ft<sup>3</sup>, 0.59 S.G., and a stoichiometric air to fuel ratio of 9.74:1 and Gaseous Propane with a higher heating value of 2,500 BTU/ft<sup>3</sup>, 1.52 S.G., and a stoichiometric air to fuel ratio of 23.8:1
2. Air and gas flows are based on 60°F @ sea level.
3. Burner air and gas pressures are measured upstream of the mixing assembly.
4. Capacities listed above are for 50% excess air. Capacities and excess air are typically adjusted on site to achieve optimal emissions per application.
5. Burners are suitable for use on other clean industrial gaseous fuels, such as gaseous propane, for more information please consult Hauck.

## NOVASTAR

### NOVASTAR-75



ALTERNATE GAS INLET LOCATIONS  
AS VIEWED FROM REAR OF THE BURNER  
(TO BE SPECIFIED ON ORDER)



#### NOTES:

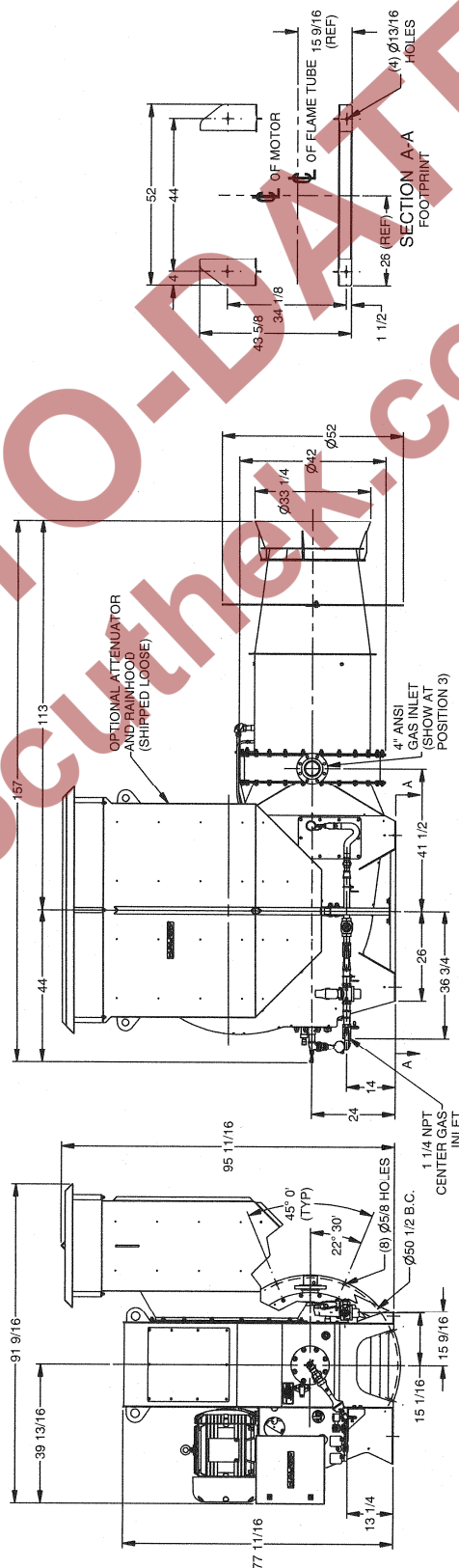
1. LONG NOSE BURNERS TO BE EXTENDED BETWEEN THE BURNER AIR HOUSING AND THE GAS MANIFOLD AS INDICATED IN THE TOP VIEW. BURNER EXTENSIONS TO BE SPECIFIED ON ORDER IN 1 FOOT INCREMENTS.
2. APPROXIMATE BURNER WEIGHT WITH TEFC MOTOR = 3200LB  
APPROXIMATE ATTENUATOR WEIGHT = 700 LB

Y8358  
(NOT TO SCALE)

In accordance with Hauck's commitment to Total Quality Improvement, Hauck reserves the right to change the specifications of products without prior notice.



# NOVASTAR-100



Y8359  
(NOT TO SCALE)

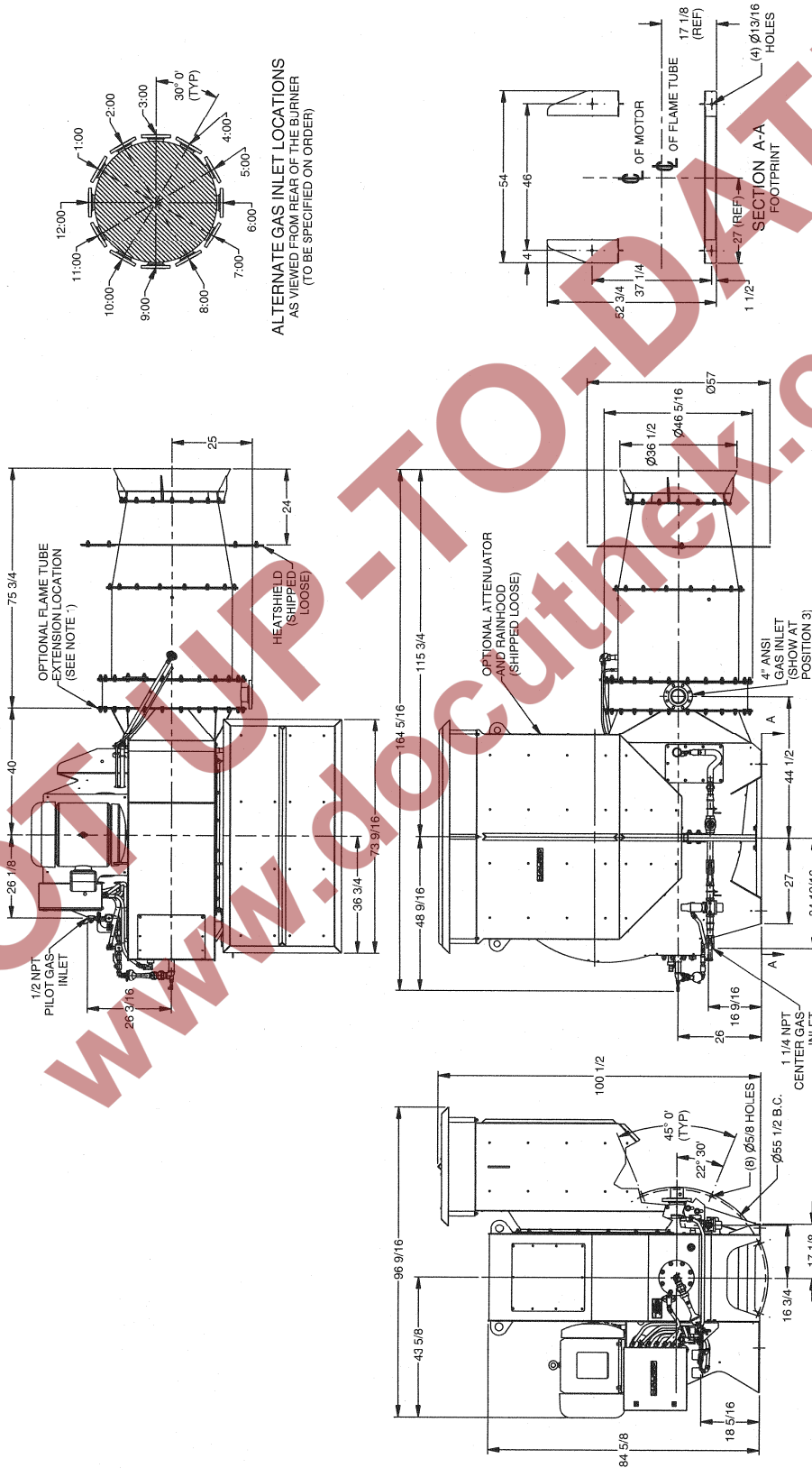
1. LONG NOSE BURNERS TO BE EXTENDED BETWEEN THE BURNER AIR HOUSING AND THE GAS MANIFOLD AS INDICATED IN THE TOP VIEW. BURNER EXTENSIONS TO BE SPECIFIED ON ORDER IN 1 FOOT INCREMENTS.
2. APPROXIMATE BURNER WEIGHT WITH TEFC MOTOR = 3600 LB  
APPROXIMATE ATTENUATOR WEIGHT = 750 LB

### NS-3.1



## NOVASTAR

### NOVASTAR 125



Y8360  
(NOT TO SCALE)

#### NOTES:

1. LONG NOSE BURNERS TO BE EXTENDED BETWEEN THE BURNER AIR HOUSING AND THE GAS MANIFOLD AS INDICATED IN THE TOP VIEW. BURNER EXTENSIONS TO BE SPECIFIED ON ORDER IN 1 FOOT INCREMENTS.
2. APPROXIMATE BURNER WEIGHT WITH TEFC MOTOR = 4300 LB  
APPROXIMATE ATTENUATOR WEIGHT = 800 LB

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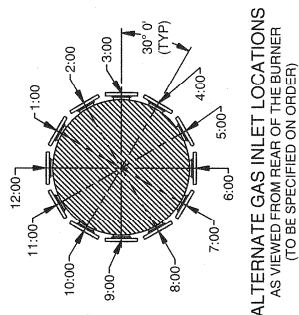
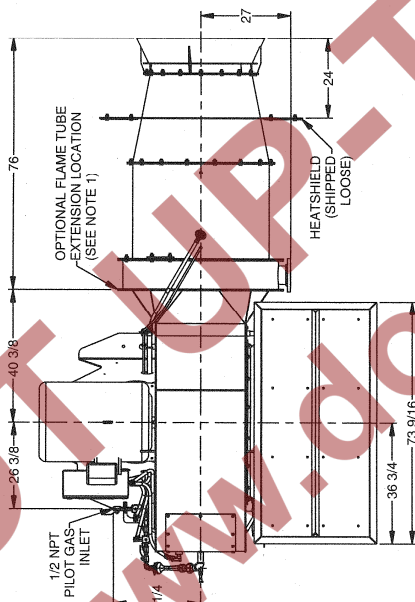
www.hauckburner.com

Fax: 717-273-9882

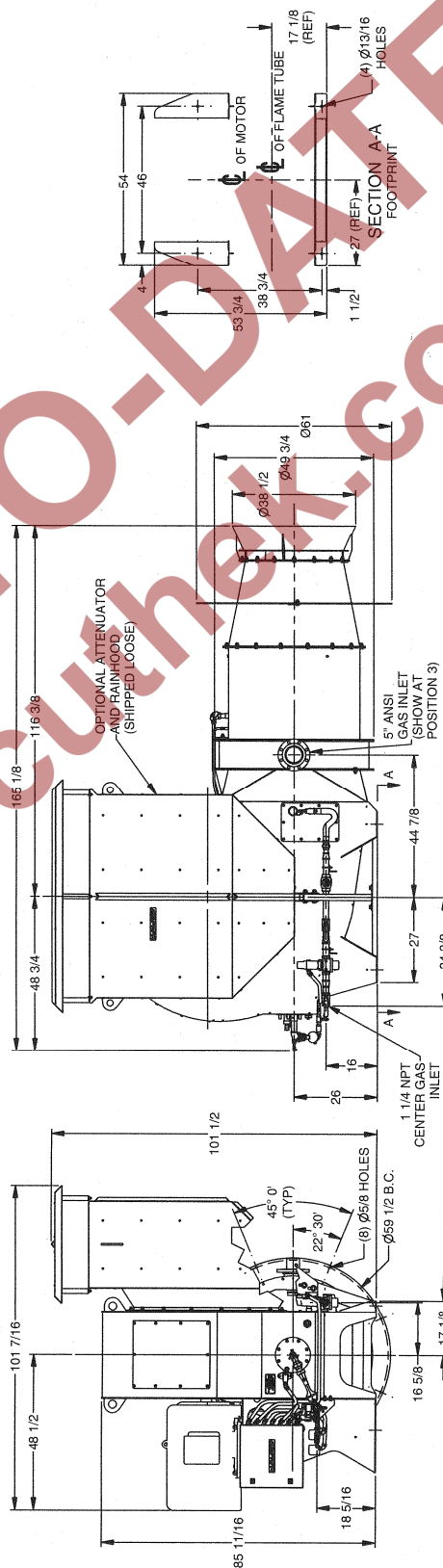
NS-3.2



# NOVASTAR 150



ALTERNATE GAS INLET LOCATIONS  
AS VIEWED FROM REAR OF THE BURNER  
(TO BE SPECIFIED ON ORDER)



NOTES:

1. LONG NOSE BURNERS TO BE EXTENDED BETWEEN THE BURNER AIR HOUSING AND THE GAS MANIFOLD AS INDICATED IN THE TOP VIEW. BURNER EXTENSIONS TO BE SPECIFIED ON ORDER IN 1 FOOT INCREMENTS.
2. APPROXIMATE BURNER WEIGHT WITH TEFC MOTOR = 5000 LB  
APPROXIMATE ATTENUATOR WEIGHT = 800 LB

Y8361  
(NOT TO SCALE)

In accordance with Hauck's commitment to Total Quality Improvement, Hauck reserves the right to change the specifications of products without prior notice.