

Eclipse Linnox Burners

Model Tee ULE

Data sheet Edition 12.14

Version 1

Maximum Burner Inputs¹ (kW)

		2 Rows						
Number of Modules		3	4	5	6	7	8	9
Module ID	Input per Module, kW							
96	105	-	-	-	-	-	1680	1890
120	132	-	-	-	-	1848	2112	2376
144	158	-	-	-	1896	2212	2528	2844
240	264	-	2112	2640	3168	3696	4224	4752
360	396	2376	3168	3960	4752	5544	6336	7128
480	527	3162	4216	5270	6324	7378	8432	9486
720	791	4746	6328	7910	9492	11,074	12,656	-


Utilize the Linnox Model Straight ULE up to 1584 kW

		3 Rows						
Number of Modules		3	4	5	6	7	8	9
Module ID	Input per Module, kW							
60	66	-	-	-	-	-	-	1782
72	79	-	-	-	-	1659	1896	2133
96	105	-	-	-	1890	2205	2520	2835
120	132	-	-	1980	2376	2772	3168	3564
144	158	-	1896	2370	2844	3318	3792	4266
240	264	2376	3168	3960	4752	5544	6336	7128
360	396	3564	4752	5940	7128	8316	9504	10692
480	527	4743	6324	7905	9486	11,067	12,648	-
720	791	7119	9492	11,865	-	-	-	-

Utilize the Linnox Model Straight ULE up to 1584 kW

		4 Rows						
Number of Modules		3	4	5	6	7	8	9
Module ID	Input per Module, kW							
48	53	-	-	-	-	-	1696	1908
60	66	-	-	-	-	1848	2112	2376
72	79	-	-	-	1896	2212	2528	2844
96	105	-	1680	2100	2520	2940	3360	3780
120	132	-	2112	2640	3168	3696	4224	4752
144	158	1896	2528	3160	3792	4424	5056	5688
240	264	3168	4224	5280	6336	7392	8448	9504
360	396	4752	6336	7920	9504	11,088	12,672	-
480	527	6324	8432	10,540	12,648	-	-	-
720	791	9492	12,656	-	-	-	-	-

Utilize the Linnox Model Straight ULE up to 1584 kW

Parameter	Specifications (Metric Customary Units)
Turndown from Maximum Input	8:1 or 10:1
Fuels² <i>For any other gas, contact Eclipse, Inc.</i>	Natural Gas
Main Gas Inlet Pressure <i>Fuel pressure at ratio regulator inlet</i>	100 to 125 mbar
Pilot Gas and Air Inlet Pressure	20 to 30 mbar
Excess Air	40-50%
Flame Detection	UV Scanner Only
Ignition	Pilot only (Interrupted)
High Fire Visible Flame Length <i>Measured from the outlet end of the burner shields</i>	250 - 380 mm
Emissions (estimated)³	< 15 ppm NOx at 3% O2 (< 3 ppm NOx at 17% O2) < 100 ppm CO at 3% O2 (22 ppm CO at 17% O2)
Maximum Process Air Inlet Temperature	450°C Maximum
Maximum Process Air Outlet Temperature	800°C Maximum
Maximum Combustion Air Temperature	200°C Maximum
Process Air Axial Velocity	5 m/s minimum; 15 m/s maximum Recommended velocity is 12 m/s ⁴
Combustion Air Filtration Requirement	99% Removal Efficiency down to 100 microns
Approvals	 АНЗО

1. All inputs based upon gross calorific values, natural gas specific gravity of 0.60, and standard conditions; 1 atmosphere, 0°C.

2. See Design Guide 159 for more information about typical fuel composition and properties.

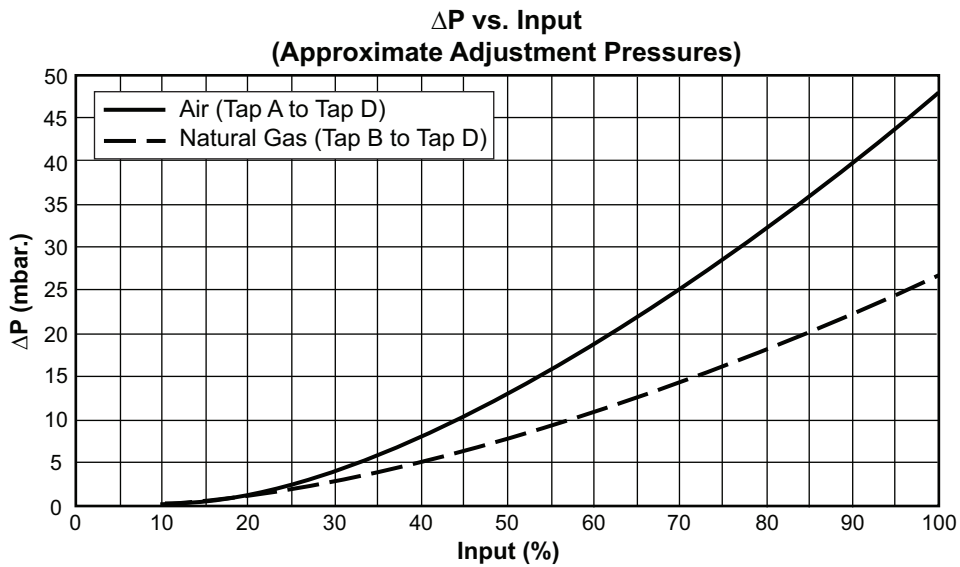
3. Estimated emissions are not guaranteed values. These values can be influenced by process conditions.

4. WARNING: Velocity perpendicular to the flame is not allowed

WARNING: Process air flow velocity outside of the specified range will affect emissions

- Contact Eclipse for burner inputs outside of the specifications indicated.
- All information is based on laboratory testing. Different chamber conditions will affect the data.
- CO emission is largely influenced by chamber conditions. Contact your local Eclipse representative for an estimate of CO emission on your application.
- Eclipse reserves the right to change the construction and/or configuration of our products at any time without being obliged to adjust earlier supplies accordingly.

Performance Graphs

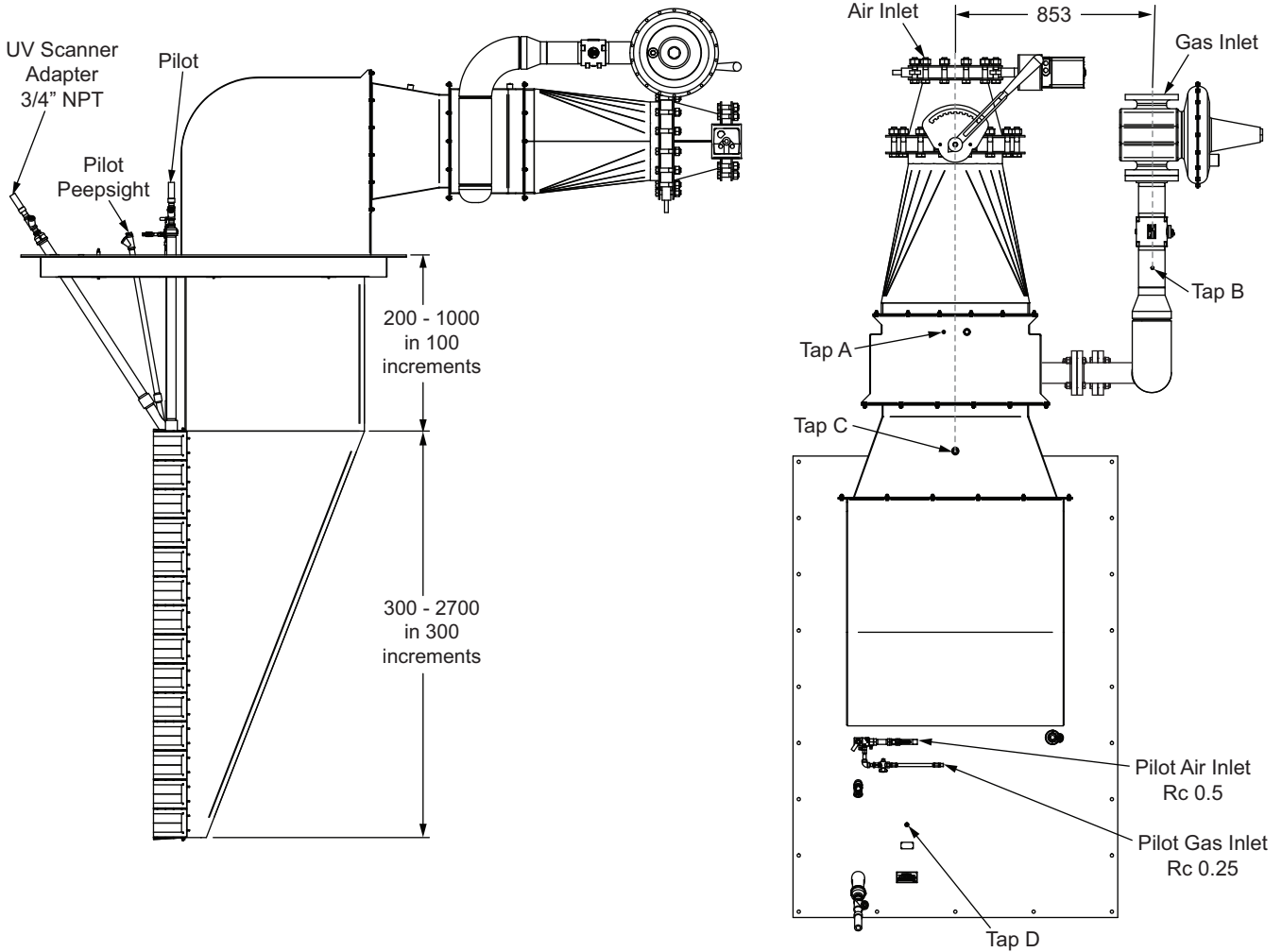


Air and gas differential pressures shown in the graph above are based on 40% excess air in laboratory conditions. These curves are intended to serve as a guideline to begin burner setup. Further adjustments may be required based on flame appearance (see Installation Guide 159).

Note: The combustion air pressure required at the air inlet is higher than the pressure measured at the mixer inlet (Tap A to Tap D) and is a function of the valves furnished with the burner and the final layout of the combustion air valves supplied by Eclipse. Consult Eclipse for an estimate of the air pressure required at the air inlet.

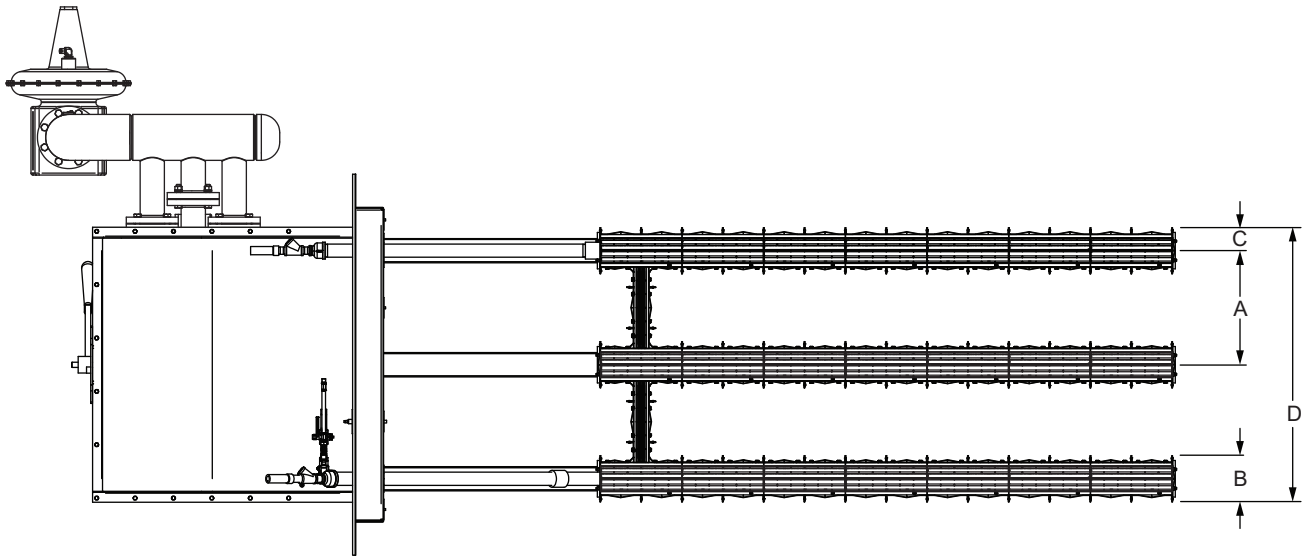
Dimensions and Specifications

Dimensions in mm



Input, kW	Gas Inlet (10:1)	Gas Inlet (8:1)
1659 - 3162	Rc 2.0	Rc 2.5
3318 - 4743	Rc 2.5	Rc 3.0
5056 - 5688	Rc 3.0	DN100
5940 - 8432	DN100	DN100
9486 - 12, 672	DN150	DN100

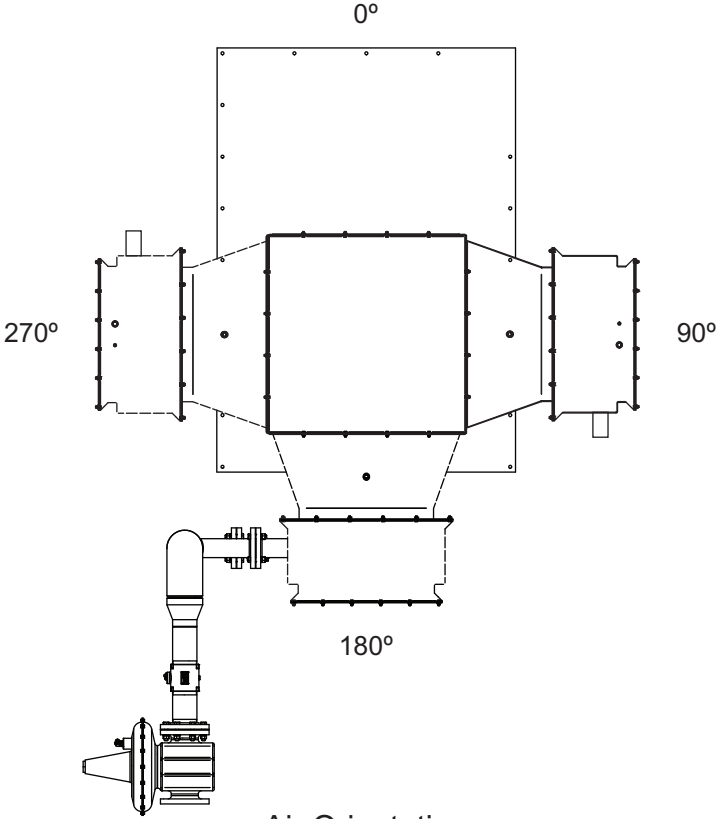
Input, kW	Air Inlet
1659 - 2100	DN125
2133 - 4743	DN150
5056 - 8432	DN200
9486 - 12,672	DN250



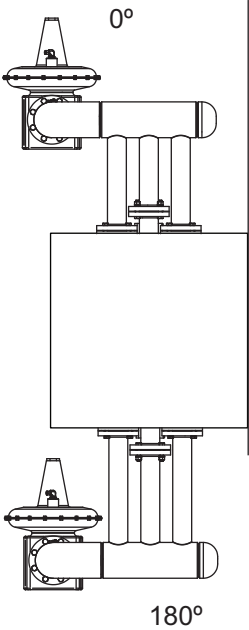
Dimensions in Millimeters

Module ID	A	B	C	D, 2 Rows	D, 3 Rows	D, 4 Rows
24-144	357	108	54	465	822	1179
240	377	128	64	505	882	1259
360	419	170	85	589	1008	1427
480	439	190	95	629	1068	1507
720	490	241	121	731	1221	1711

Gas and Air Orientations



Air Orientation
(Firing Position shown at 0°)



Gas Orientation
(Firing Position shown at 0°)