

# UNIT HEATER

**AHU - 80**



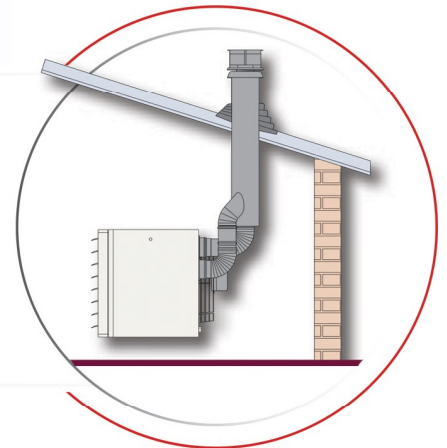
**ALBORZ**  
Heating & cooling systems



[www.ntalborz.com](http://www.ntalborz.com)  
[info@ntalborz.com](mailto:info@ntalborz.com)

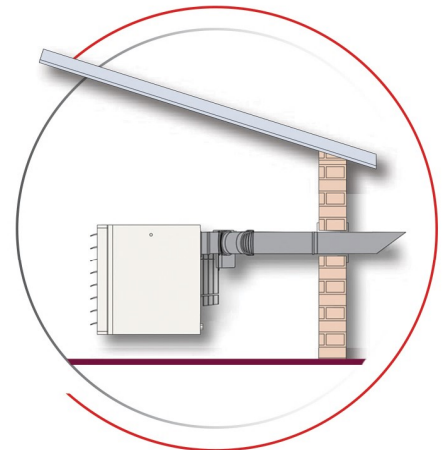
## Provide outdoor fresh air with common vertical pipe

- In a confined spaces where the area lower than the limit and complete insulation, the penetration of air into the interior spaces is low and the combustion air is provided from outside and the combustion gases (product) are released simultaneously.
- Exhausts combustion products/ gases and outdoor fresh air is provided with common pipe. In this case, the oxygen in the site is not burned for combustion and the inlet air is preheated for combustion.
- In this method, chimney pipe can be installed vertically.



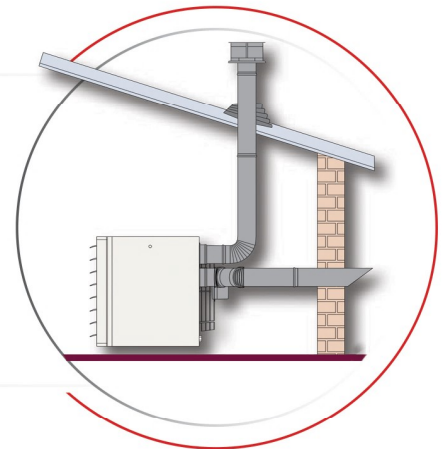
## Provide indoor fresh air

- It's a great solution for medium and large space that adequate air enters the combustion chamber so chimney can be used to exhausts combustion products/ gases and provided combustion air from interior space.
- In this method, chimney pipe can be installed horizontally.



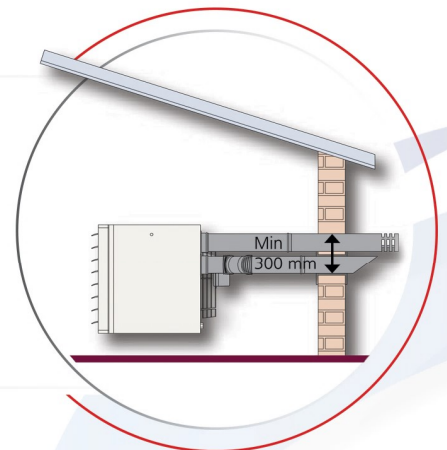
## Provide outdoor fresh air with uncommon pipe

- A separate pipes is used to bring combustion air and direct combustion products.
- In this method, the air supply pipe and combustion products pipe/tube installed horizontally and vertically, respectively.



## Provide outdoor fresh air with uncommon pipe

- According to the above method, a separate pipes is also used for bringing combustion air and direct combustion products.
- In this method, the air supply pipe and combustion products pipe/tube installed horizontally.
- This method is recommended in places where it is not possible to install the combustion products pipe/tube vertically.



## UNIT HEATER

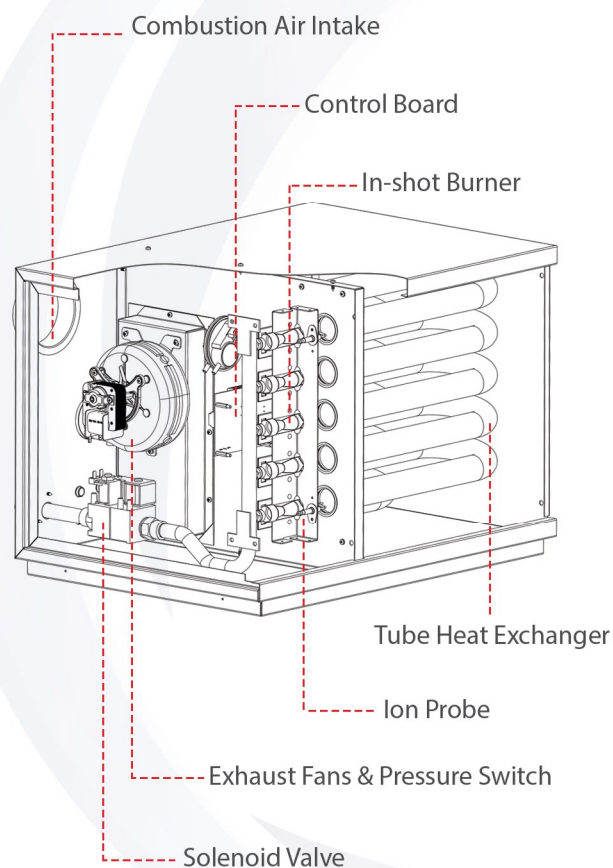


## Advantages

- Supplying combustion air from outdoor
- Monitor flame formation mechanism
- Flame retardant with new technology (In-Shot Burner)
- Use the air switch pressure to control the chimney's performance
- Continuous automatic control of gas flow using European multi-block solenoid/electric valves
- Overheat safety shut-off to control heat exchanger temperature (Overheat safety)
- Direct combustion gases (product) as forced through chimney or flue
- Prevent from cold air flow at startup
- Low-noise fans for more comfort and convenience
- Equipped with digital thermostat mounted to the control panel
- Fully automatic switching on and off operation
- Ability to adjust outlet airflow with adjustable air valves
- Proper and uniform distribution of hot airflow by axial fan (low noise)

## Efficiency

- 85% thermal efficiency
- Increasing heat exchange levels using Fire-Tube
- Adjusting Excess Air to improved combustion, by using exhaust fan
- High combustion efficiency using the new In-Shot technology for each Fire-Tube
- Using Aluminized Steel Pipes in order to prevent from corrosion and rusting in long-term use



MODEL	AHU - 50	AHU - 80	AHU - 125
Fuel Type	NG	NG	NG
Capacity (kw)	15	23	35
Heating Space (m³)	260	400	600
Gas Consumption (m³/h)	1.5	2.3	3.5
Air Flow (m³/h)	1370	2350	4700
Engine Power (W)	74	100	200
Gas Pressure (mbar)	12 ... 20	12 ... 20	12 ... 20
Flue Diameter (cm)	10	10	10
Combustion air inlet (cm)	10	10	10
Noise Level (dBA)	42	45	50
Electrical (PH,V,A,Hz)	1 / 220 / 0.38 / 50	1 / 220 / 0.48 / 50	1 / 220 / 1 / 50
Dimenisions (H,W,L)(mm)	360 x 620 x 710	490 x 620 x 710	630 x 620 x 710
Weight (kg)	38	45	55



Manufacturer Of Heating & cooling systems

**Head Office**

**Address:** No.59, Forsate Shirazi St., Tohid St toward Tohid roundabout, Tehran, Iran.

**Tel:** +98 21 53 829

**Fax:** +98 21 6656 1142

**E-mail:** nta@ntalborz.com

**Factory**

**Address:** East Mirdamad St., Shahid Sabzevari Roundabout (second Roundabout), Alborz industrial town, Qazvin, Iran.

**Zip-code:** 3431975472

**Tel:** +98 28 33 829

**Fax:** +98 28 3224 7327

**E-mail:** info@ntalborz.com

