

Direct Gas Heated

The **TDG model** for Climate Control with Direct Gas Heat is used to stop cold drafts from entering door openings while providing warm air produced by direct gas heat. The TDG pulls the air directly through the flame of the direct gas heater, blanketing the full length and width of the door with warm air. The Climate Control with Direct Gas will discharge a temperature of 105° F, even if the entering air temperature is 0° F. The TDG provides a maximum temperature rise of 105° F. This unit is commonly used where temperature is critical to maintain. The TDG has top and bottom access panels to replace or service motors or blowers without lowering entire unit or bottom half of unit. The motor/blower plate comes out as an entire piece. All units are direct drive, which avoids misalignment of couplers and outboard bearings and eliminates periodic belt replacement.

*Must be ducted to the outside for 100% fresh air.

Key Design Features

- All weight bearing structural support is 14-gauge stainless steel. Case equipped with stainless steel access panels for inspection, cleaning or removal of motor blower assembly.
- Heavy duty 3/4 HP motors. 1630 rpm each.
- Direct gas heater equipped with a temperature sensor that controls the heater output by way of modulating gas valve. An airflow switch along with a motor contactor will ensure that the burner will not fire without the fans spinning. In case of flame failure, the flame safety relay energizes the alarm lockout relay shutting down the entire system. The system will only restart if the flame safety relay is manually reset.
- Units equipped with proof of closure on the main gas valve, as well as high and low gas pressure switches.
- Direct gas fired panels are mounted to the unit and contain a 24-volt control transformer, flame safety relay, temperature sensor, air flow sensor and modulating gas valve controls.



Sound level: 63 dBA (Measured 10 ft. from unit in a free field based on a 1 motor unit)

Model	TDG-2-72	TDG-2-84	TDG-2-96	TDG-3-108	TDG-3-120	TDG-3-132	TDG-4-144
Nozzle Width (In.)	72	84	96	108	120	132	144
Max. FPM at Nozzle	4218	4218	4218	4218	4218	4218	4218
Max. CFM at Nozzle	5803	6766	7732	8702	9668	10853	11606
Avg. FPM at Nozzle	3696	3169	2773	3702	3174	2792	3696
CFM at Nozzle	5082	5063	5081	7623	7614	7589	10164
Outlet Velocity Uniformity	95%	93%	92%	92%	95%	94%	95%
Number of motors	2	2	2	3	3	3	4
Horse Power	3/4	3/4	3/4	3/4	3/4	3/4	3/4
Heater Output mbtu/hr	576	574	576	865	864	861	1,153
Max.. Output Temperature Deg. (F)	105	105	105	105	105	105	105
Weight (Lbs)	499	547	593	593	655	775	858

Three Phase Motor Voltage Available: 208 240 480 575
 Amp Draw Per Motor: 3.0 2.8 1.5 1.1

