SERIES

TC-E

GAS AND OIL FIRED SPACE HEATERS FOR WIDE SPACES

WARM AIR HEATERS

EFFICIENCY ~ 90%

CERTIFIED IN ACCORDANCE WITH:

- GAS DIRECTIVE 90/396/CEE
- LOW TENSION DIRECTIVE 73/23/CEE
- MACHINE DIRECTIVE 89/392/CEE
- ELECTROMAGNETIC COMPATIBILITY DIRECTIVE 89/336/CEE

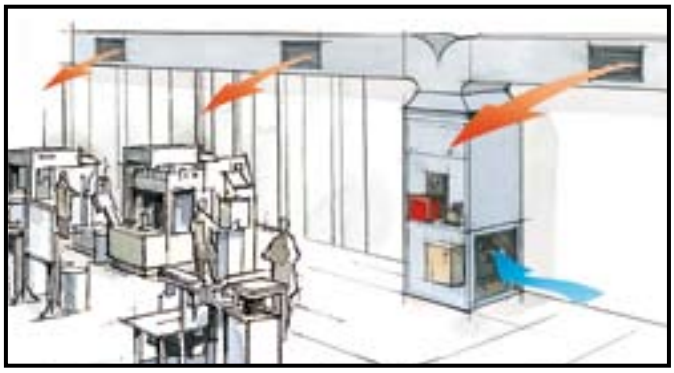
High-efficiency, floor-mounted warm air heaters, working with either gas or oil and suitable to be installed inside. Their power can range from 60 to 1,160 KW. Heaters can provide both direct and canalized air diffusion. The particularly solid flame-inversion combustion chamber made of AISI 430 stainless steel featuring low thermal load, as well as the high-efficiency heat exchanger, make this equipment suitable even for the most demanding tasks whilst allowing to cut off operating costs. The centrifugal fans are driven by a variable gear transmission belt. Heaters can come in the following versions: single-phase (On/Off), two-phase, low NOx, with variable air flow rate and for very high static pressure.

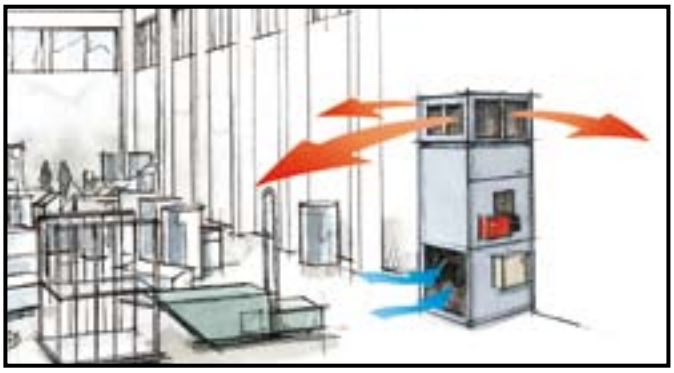
CONSTRUCTION CHARACTERISTICS

- Cabinet consists of a steel sheet supporting structure with detachable closing panels internally lined with radiation-proof heat insulation and finely epoxy-painted.
- Fan group includes one or more centrifugal double intake fans, statically and dynamically balanced, driven through a variable gear transmission by an electric motor complete with belt tightner.
- Electric equipment - for automatic or manual fan control and for emergency stopping of the burner in case of air overheating. Inclusive of electric switchboard and FAN-LIMIT double thermostat.

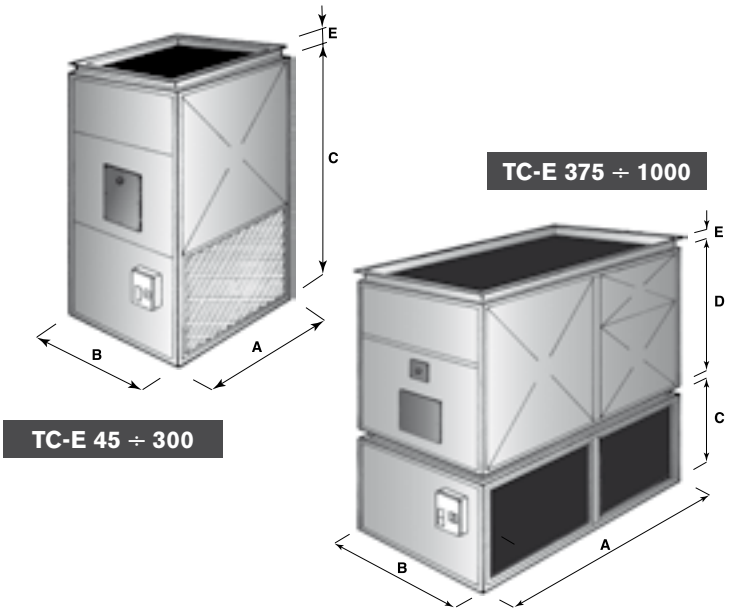
High efficiency heat exchanger

- Combustion chamber made of AISI 430 18% chromium stainless steel, flame-inversion model with low thermal load, cylindrical or ellipsoidal, perfectly cooled in all of its points.
- Exchange elements with steel plate exhaust flues, flat tubular sections, with swirl impressions for maximum thermal efficiency.
- Exhaust manifold front and rear, steel, with wide inspection doors for rational and easy cleaning.





OVERALL DIMENSIONS



Models	Dimensions mm					Chimney Ø mm	W. Kg
	A	B	C	D	E		
TC 45 E	800	540	1.580	–	–	150	125
TC 75 E	890	680	1.825	–	–	180	130
TC 80 E	1.060	760	1.926	–	–	200	245
TC 100 E	1.060	760	1.926	–	–	200	249
TC 125 E	1.300	900	2.120	–	100	250	412
TC 150 E	1.300	900	2.120	–	100	250	437
TC 175 E	1.500	1.000	2.120	–	100	250	520
TC 200 E	1.500	1.000	2.120	–	100	250	525
TC 250 E	1.700	1.200	2.350	–	100	300	694
TC 300 E	1.700	1.200	2.350	–	100	300	734
TC 375 E	2.090	1.270	1.000	1.870	100	330	1.072
TC 450 E	2.090	1.270	1.000	1.870	100	330	1.162
TC 500 E	2.500	1.500	1.000	2.120	100	370	1.497
TC 600 E	2.500	1.500	1.000	2.120	100	370	1.622
TC 800 E	3.500	1.500	1.000	2.120	100	380	2.060
TC 1000 E	3.500	1.500	1.200	2.120	170	380	2.400

TECHNICAL SPECIFICATIONS SERIES TC-E

Models	Unit	TC 45 E	TC 75 E	TC 80 E	TC 100 E	TC 125 E	TC 150 E	TC 175 E	TC 200 E
Heating capacity input	kW	60,0	94,0	103,2	122,3	161,2	190,0	225,8	258,8
	kcal/h	51.600	80.850	88.790	105.150	138.600	163.400	194.225	222.600
USEFUL heating capacity output	kW	54,0	82,2	93,0	107,0	145,0	168,0	204,0	230,0
	kcal/h	46.450	70.700	80.000	92.000	125.000	144.600	175.000	198.100
Air flow rate	Nm³/h	4.300	6.000	7.600	7.600	9.600	11.500	13.400	15.300
Useful static pressure	Pa	160	160	160	160	220	200	200	180
Electric motor	Kw	0,55	1,10	1,50	1,50	2,20	3,00	3,00	4,00
Electrical supply	V - 50Hz	230 ~	400 3N ~	400 3N ~	400 3N ~	400 3N ~	400 3N ~	400 3N ~	400 3N ~

Models	Unit	TC 250 E	TC 300 E	TC 375 E	TC 450 E	TC 500 E	TC 600 E	TC 800 E	TC 1000 E
Heating capacity input	kW	322,6	391,0	460,6	590,0	645,3	769,0	1.000,0	1.160,0
	kcal/h	277.470	336.250	396.160	507.300	554.940	661.500	860.000	997.600
USEFUL heating capacity output	kW	291,0	348,0	415,0	523,0	581,0	683,0	884,0	1.044,0
	kcal/h	250.000	298.950	356.900	450.000	500.000	587.400	760.000	897.840
Air flow rate	Nm³/h	19.000	23.000	28.700	34.500	40.200	49.000	67.000	70.000
Useful static pressure	Pa	200	170	280	220	220	180	200	200
Electric motor	Kw	4,00	5,50	7,50	9,20	11,00	15,00	2 x 9,20	2x11,0
Electrical supply	V - 50Hz	400 3N ~	400 3N ~	400 3N ~	400 3N ~	400 3N ~	400 3N ~	400 3N ~	400 3N ~

Model TC375E - TC1000E are delivered with the base detached from the main body.

Thermal Performance GASTEC certified