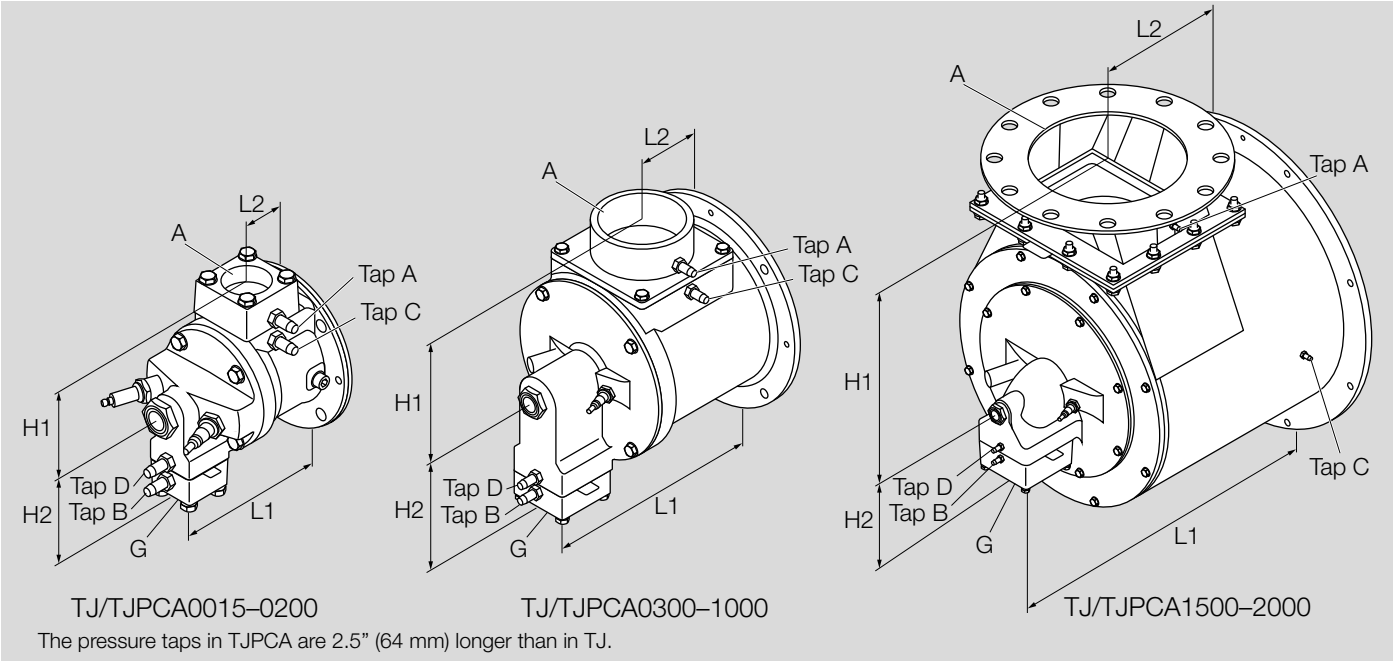


5.7 Dimensions



inch

Type	Gas inlet G	Air inlet A	L1	L2	H1	H2	Weight [lbs]
TJ/TJPCA0015	1/2" NPT/Rc 0.5	1 1/2" NPT/Rc 1.5	4.9	2.1	3.8	3.5	17.9
TJ/TJPCA0025	1/2" NPT/Rc 0.5	1 1/2" NPT/Rc 1.5	4.9	2.1	3.8	3.5	17.9
TJ/TJPCA0040	3/4" NPT/Rc 0.75	2" NPT/Rc 2.0	6.6	3.3	3.8	3.5	21.6
TJ/TJPCA0050	1" NPT/Rc 1.0	2 1/2" NPT/Rc 2.5	7.1	3.4	5.1	3.1	37
TJ/TJPCA0075	1" NPT/Rc 1.0	2 1/2" NPT/Rc 2.5	7.1	3.4	5.1	3.1	37
TJ/TJPCA0100	1 1/2"NPT/Rc 1.5	3" NPT/Rc 3.0	7.8	3.6	5.5	3.2	42
TJ/TJPCA0150	1 1/2"NPT/Rc 1.5	3" NPT/Rc 3.0	7.8	3.6	5.5	3.2	42
TJ/TJPCA0200	1 1/2"NPT/Rc 1.5	3" NPT/Rc 3.0	7.8	3.6	5.5	3.2	42
TJ/TJPCA0300	2" NPT/Rc 2.0	4" NPT/Rc 4.0	10.8	5.1	7.2	6.4	89

5 Technical data

Type	Gas inlet G	Air inlet A	L1	L2	H1	H2	Weight [lbs]
TJ/TJPCA0500	2" NPT/Rc 2.0	6" Welded	13.2	6.3	10.4	6.4	93
TJ/TJPCA0750	3" NPT/Rc 3.0	8" Welded	16.7	8.7	11.2	5.1	133
TJ/TJPCA1000	3" NPT/Rc 3.0	8" Welded	16.7	8.7	11.2	5.1	133
TJ/TJPCA1500	3" NPT/Rc 3.0	10" ANSI	19.7	12.4	14.8	5.1	208
TJ/TJPCA2000	3" NPT/Rc 3.0	10" ANSI	19.7	12.4	14.8	5.1	208

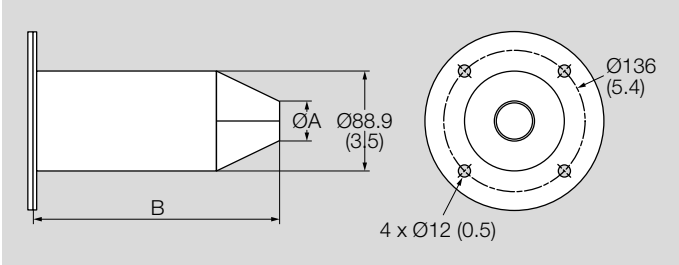
mm

Type	Gas inlet G	Air inlet A	L1	L2	H1	H2	Weight [kg]
TJ/TJPCA0015	1/2" NPT/Rc 0.5	1 1/2" NPT/Rc 1.5	125.6	53	96.5	90	8.1
TJ/TJPCA0025	1/2" NPT/Rc 0.5	1 1/2" NPT/Rc 1.5	125.6	53	96.5	90	8.1
TJ/TJPCA0040	3/4" NPT/Rc 0.75	2" NPT/Rc 2.0	167	85	97.5	90	9.8
TJ/TJPCA0050	1" NPT/Rc 1.0	2 1/2" NPT/Rc 2.5	180	86.5	130.5	78.5	17
TJ/TJPCA0075	1" NPT/Rc 1.0	2 1/2" NPT/Rc 2.5	180	86.5	130.5	78.5	17
TJ/TJPCA0100	1 1/2"NPT/Rc 1.5	3" NPT/Rc 3.0	197.5	92.5	139	81.5	19
TJ/TJPCA0150	1 1/2"NPT/Rc 1.5	3" NPT/Rc 3.0	197.5	92.5	139	81.5	19
TJ/TJPCA0200	1 1/2"NPT/Rc 1.5	3" NPT/Rc 3.0	197.5	92.5	139	81.5	19
TJ/TJPCA0300	2" NPT/Rc 2.0	4" NPT/Rc 4.0	274	129	183.4	161.5	40
TJ/TJPCA0500	2" NPT/Rc 2.0	6" Welded	334	160.5	263.2	161.5	42
TJ/TJPCA0750	3" NPT/Rc 3.0	8" Welded	424	220.5	285.3	129.5	60
TJ/TJPCA1000	3" NPT/Rc 3.0	8" Welded	424	220.5	285.3	129.5	60
TJ/TJPCA1500	3" NPT/Rc 3.0	10" ANSI	500	315	376.5	129.5	95
TJ/TJPCA2000	3" NPT/Rc 3.0	10" ANSI	500	315	376.5	129.5	95

5.8 Combustors Dimensions and Specifications

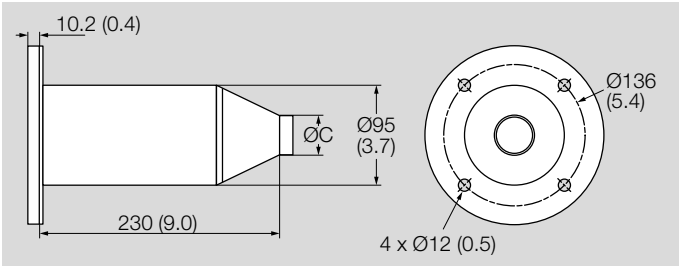
5.8.1 TJ/TJPCA0015–0025

Alloy Combustor (AISI 310)



Weight: 2.1 lbs (0.95 kg)
Max. chamber temp: 1750°F (950°C) [Not suitable for pre-heated air over 700°F (371°C)]

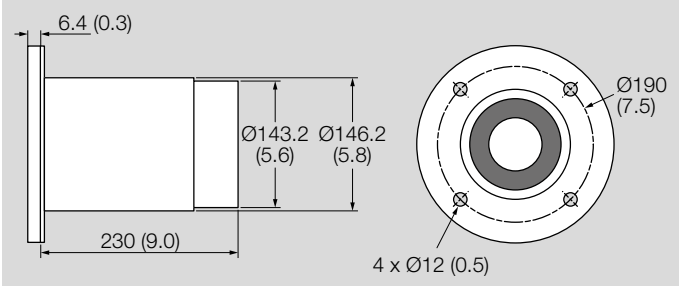
Silicon Carbide Combustor



Weight: 3.6 lbs (1.6 kg)
Max. chamber temp: TJ: 2500°F (1371°C), TJPCA: 2200°F (1200°C)

Type	Velocity	ØA mm (inch)	B mm (inch)	ØC mm (inch)
TJ0015	High	Ø28.4 (1.1)	230.8 (9.1)	Ø35 (1.4)
TJ/TJPCA0015	Medium	Ø35.4 (1.4)	223.3 (8.8)	Ø42 (1.7)
TJ0025	High	Ø35.4 (1.4)	223.3 (8.8)	Ø42 (1.7)
TJ/TJPCA0025	Medium	Ø45.4 (1.8)	212.6 (8.4)	Ø52 (2.0)

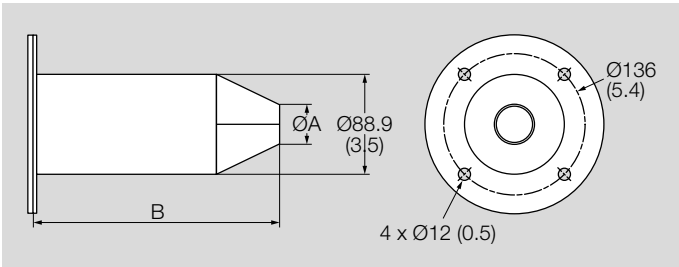
Refractory Combustor with AISI 330 wrapper



Dimensions in mm (inches)

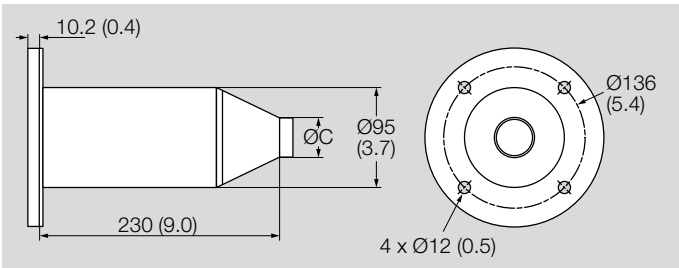
Weight: 14 lbs (6.4 kg)
Max. chamber temp: 2800°F (1538°C)
NOTE: Mounting gasket shown on right side of combustor flange. Dimensions shown do not account for mounting gasket.

5.8.2 TJ/TJPCA0040
Alloy Combustor (AISI 310)



Weight: 2.1 lbs (0.95 kg)
Max. chamber temp: 1750°F (950°C) [Not suitable for pre-heated air over 700°F (371°C)]

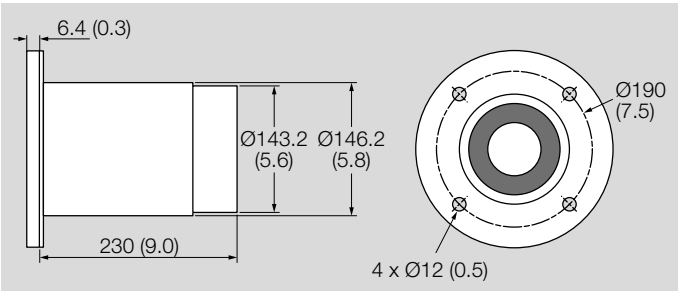
Silicon Carbide Combustor



Weight: 3.6 lbs (1.6 kg)
Max. chamber temp: TJ: 2500°F (1371°C), TJPCA: 2200°F (1200°C)

Velocity	ØA mm (inch)	B mm (inch)	ØC mm (inch)
High	Ø45.4 (1.8)	212.6 (8.4)	Ø52 (2.0)
Medium/TJPCA	Ø63.4 (2.5)	193.3 (7.6)	Ø70 (2.8)

Refractory Combustor with AISI 330 wrapper

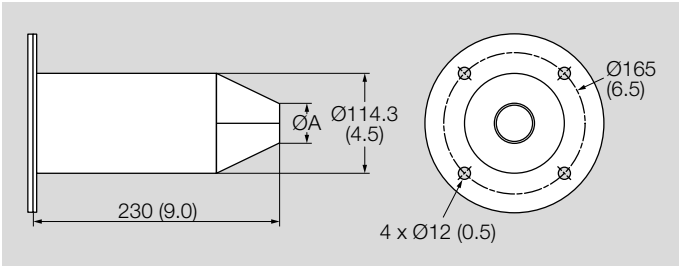


Dimensions in mm (inches)

Weight: 14 lbs (6.4 kg)
Max. chamber temp: 2800°F (1538°C)
NOTE: Mounting gasket shown on right side of combustor flange. Dimensions shown do not account for mounting gasket.

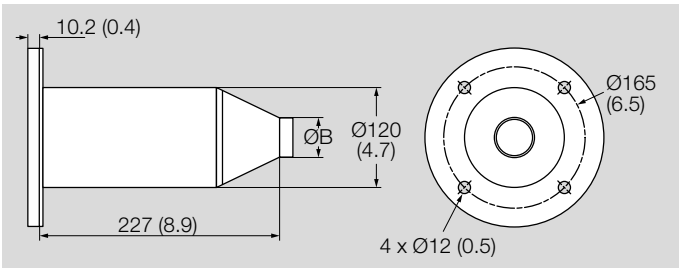
5.8.3 TJ/TJPCA0050–0075

Alloy Combustor (AISI 310)



Weight: 3.0 lbs (1.4 kg)
Max. chamber temp: 1750°F (950°C) [Not suitable for pre-heated air over 700°F (371°C)]

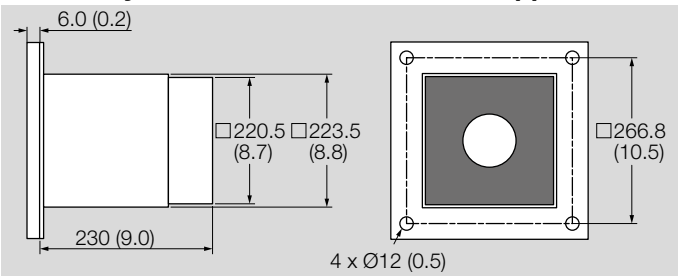
Silicon Carbide Combustor



Weight: 3.3 lbs (1.5 kg)
Max. chamber temp: TJ: 2500°F (1371°C), TJPCA: 2200°F (1200°C)

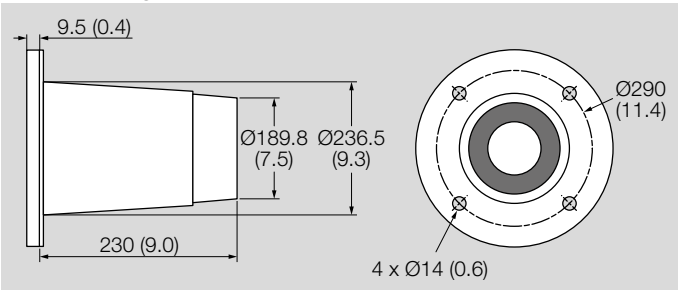
Type	Velocity	ØA mm (inch)	ØB mm (inch)
TJ0050	High	Ø44.5 (1.8)	Ø51 (2.0)
TJ/TJPCA0050	Medium	Ø57 (2.2)	Ø63.5 (2.5)
TJ0075	High	Ø57 (2.2)	Ø63.5 (2.5)
TJ/TJPCA0075	Medium	Ø77.5 (3.1)	Ø84 (3.3)

Refractory Combustor with AISI 330 wrapper



Weight: 62.5 lbs (28.3 kg)
Max. chamber temp: 2800°F (1538°C)

Down Firing Block with AISI 330 wrapper

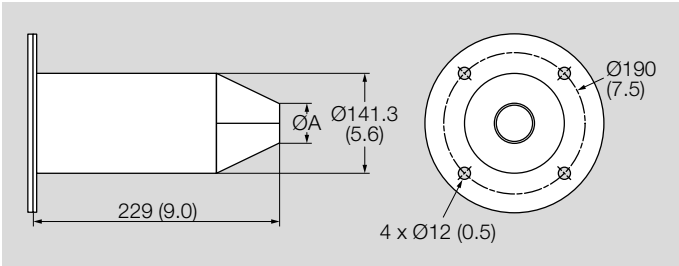


Dimensions in mm (inches)

Weight: 60 lbs (27.2 kg)
Max. chamber temp: 2800°F (1538°C)
NOTE: Mounting gasket shown on right side of combustor flange. Dimensions shown do not account for mounting gasket.

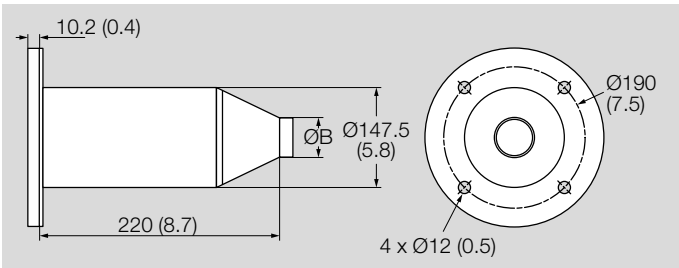
5.8.4 TJ/TJPCA0100–0150

Alloy Combustor (AISI 310)



Weight: 3.3 lbs (1.5 kg)
Max. chamber temp: 1750°F (950°C) [Not suitable for pre-heated air over 700°F (371°C)]

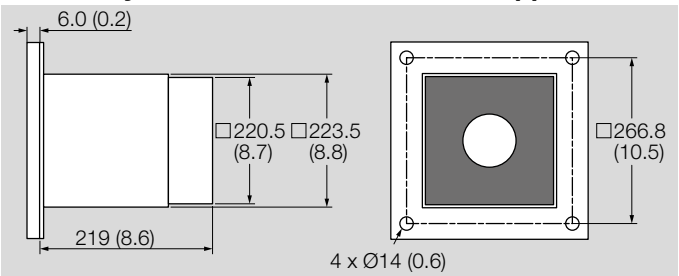
Silicon Carbide Combustor



Weight: 3.1 lbs (1.4 kg)
Max. chamber temp: TJ: 2500°F (1371°C), TJPCA: 2200°F (1200°C)

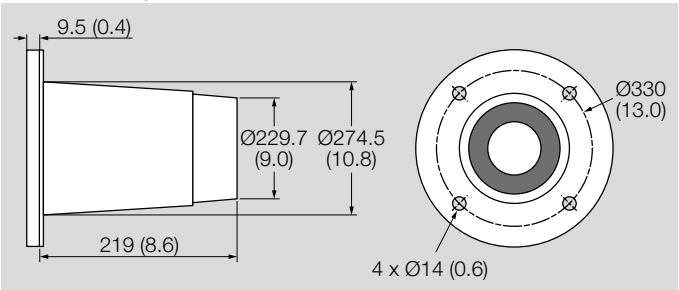
Type	Velocity	ØA mm (inch)	ØB mm (inch)
TJ0100	High	Ø57.8 (2.3)	Ø64 (2.5)
TJ/TJPCA0100	Medium	Ø80.2 (3.2)	Ø86.5 (3.4)
TJ0150	High	Ø67.3 (2.7)	Ø73.5 (2.9)
TJ/TJPCA0150	Medium	Ø92.7 (3.7)	Ø99 (3.9)

Refractory Combustor with AISI 330 wrapper



Weight: 58.3 lbs (26.5 kg)
Max. chamber temp: 2800°F (1538°C)

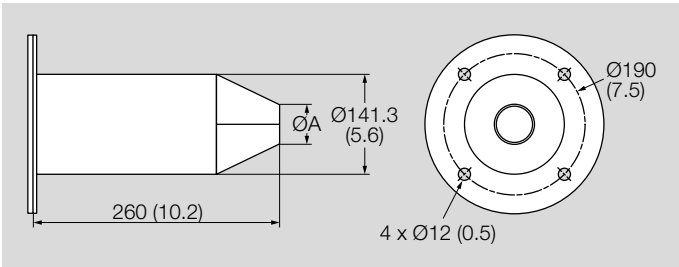
Down Firing Block with AISI 330 wrapper



Dimensions in mm (inches)

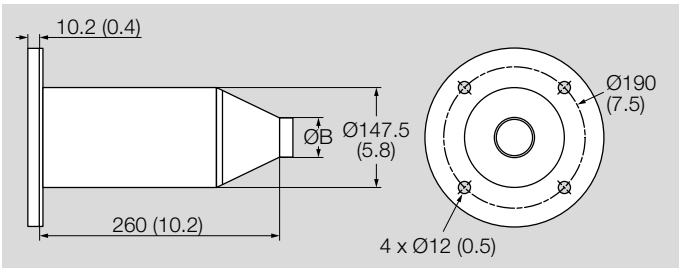
Weight: 75 lbs (34 kg)
Max. chamber temp: 2800°F (1538°C)
NOTE: Mounting gasket shown on right side of combustor flange. Dimensions shown do not account for mounting gasket.

5.8.5 TJ/TJPCA0200
Alloy Combustor (AISI 310)



Weight: 4.2 lbs (1.9 kg)
Max. chamber temp: 1750°F (950°C) [Not suitable for pre-heated air over 700°F (371°C)]

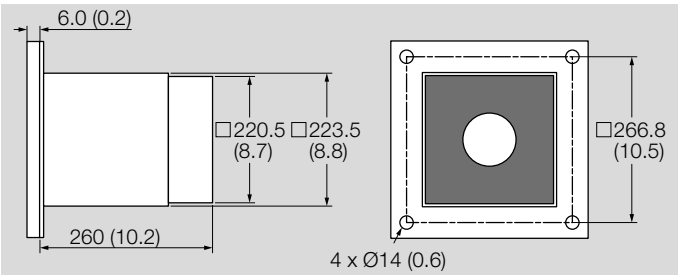
Silicon Carbide Combustor



Weight: 3.1 lbs (1.5 kg)
Max. chamber temp: TJ: 2500°F (1371°C), TJPCA: 2200°F (1200°C)

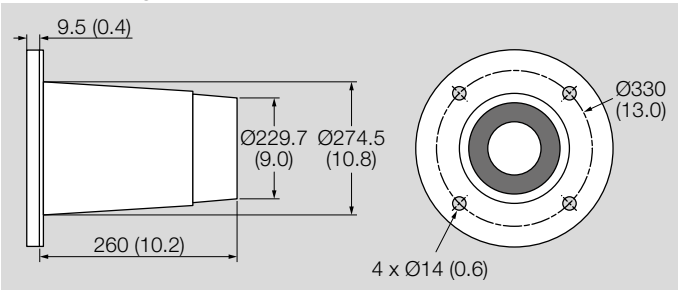
Velocity	ØA mm (inch)	ØB mm (inch)
High	Ø85 (3.3)	Ø85 (3.3)
Medium/TJPCA	Ø105 (4.1)	Ø115 (4.5)

Refractory Combustor with AISI 330 wrapper



Weight: 66 lbs (30 kg)
Max. chamber temp: 2800°F (1538°C)

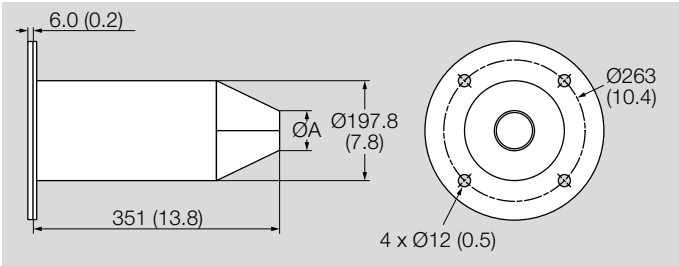
Down Firing Block with AISI 330 wrapper



Dimensions in mm (inches)

Weight: 77 lbs (35 kg)
Max. chamber temp: 2800°F (1538°C)
NOTE: Mounting gasket shown on right side of combustor flange. Dimensions shown do not account for mounting gasket.

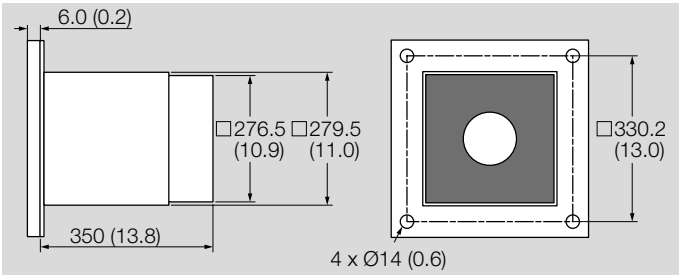
5.8.6 TJ/TJPCA0300
Alloy Combustor (AISI 310)



Weight: 13.5 lbs (6 kg)
Max. chamber temp: 1750°F (950°C) [Not suitable for pre-heated air over 700°F (371°C)]

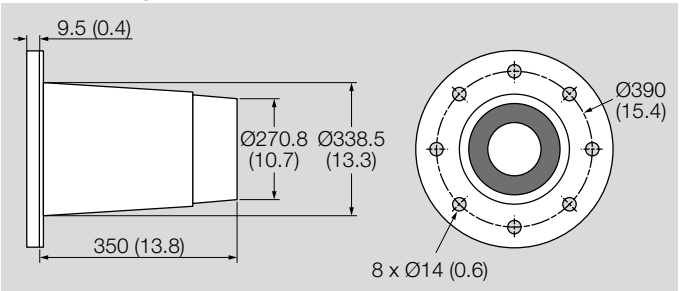
Velocity	ØA mm (inch)
High	Ø103.4 (4.1)
Medium/TJPCA	Ø138.5 (5.5)

Refractory Combustor with AISI 330 wrapper



Weight: 131.4 lbs (60 kg)
Max. chamber temp: 2800°F (1538°C)

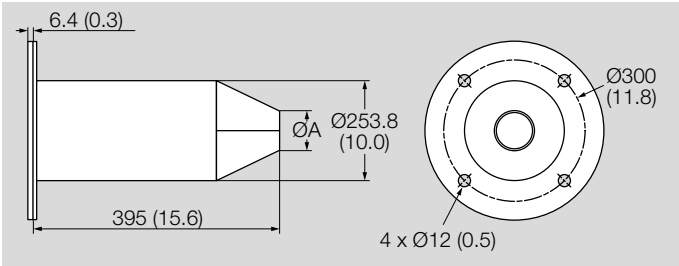
Down Firing Block with AISI 330 wrapper



Dimensions in mm (inches)

Weight: 135 lbs (61 kg)
Max. chamber temp: 2800°F (1538°C)
NOTE: Mounting gasket shown on right side of combustor flange. Dimensions shown do not account for mounting gasket.

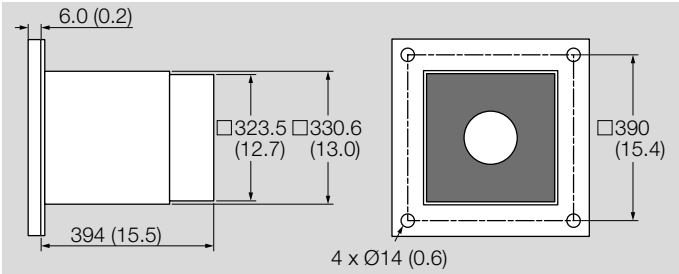
5.8.7 TJ/TJPCA0500
Alloy Combustor (AISI 310)



Weight: 14.5 lbs (6.6 kg)
Max. chamber temp: 1750°F (950°C) [Not suitable for pre-heated air over 700°F (371°C)]

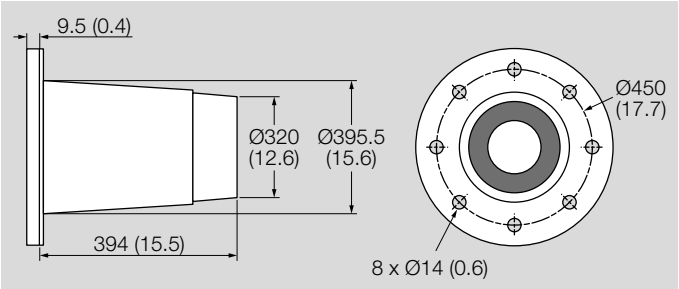
Velocity	ØA mm (inch)
High	Ø128 (5.1)
Medium/TJPCA	Ø180 (7.1)

Refractory Combustor with AISI 330 wrapper



Weight: 160 lbs (73 kg)
Max. chamber temp: 2800°F (1538°C)

Down Firing Block with AISI 330 wrapper



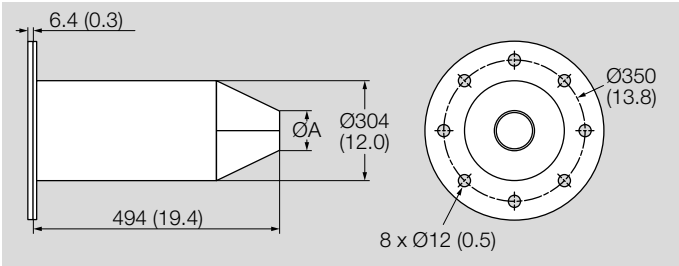
Dimensions in mm (inches)

Weight: 184 lbs (83.9 kg)
Max. chamber temp: 2800°F (1538°C)

NOTE: Mounting gasket shown on right side of combustor flange. Dimensions shown do not account for mounting gasket.

5.8.8 TJ/TJPCA0750–1000

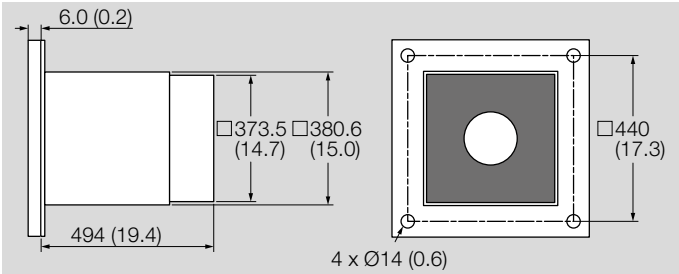
Alloy Combustor (AISI 310)



Weight: 21 lbs (9.5 kg)
Max. chamber temp: 1750°F (950°C) [Not suitable for pre-heated air over 700°F (371°C)]

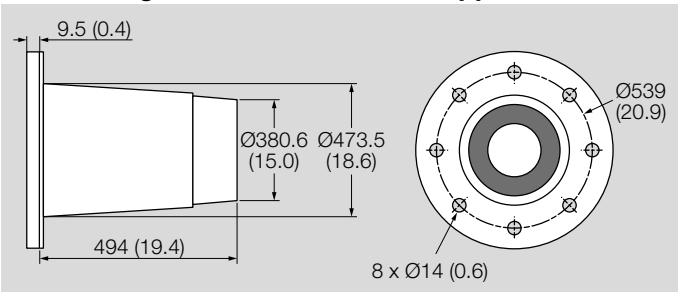
Type	Velocity	ØA mm (inch)
TJ0750	High	Ø159 (6.2)
TJ/TJPCA0750	Medium	Ø224 (8.8)
TJ1000	High	Ø223 (8.8)
TJ/TJPCA1000	Medium	Ø253 (10.0)

Refractory Combustor with AISI 310 wrapper



Weight: 310 lbs (141 kg)
Max. chamber temp: 2800°F (1538°C)

Down Firing Block with AISI 310 wrapper



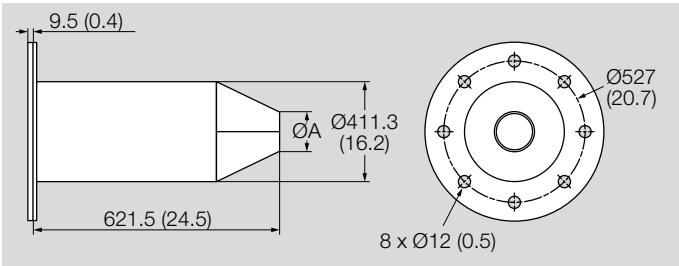
Dimensions in mm (inches)

Weight: 290 lbs (132 kg)
Max. chamber temp: 2800°F (1538°C)

NOTE: Mounting gasket shown on right side of combustor flange. Dimensions shown do not account for mounting gasket.

5.8.9 TJ/TJPCA1500–2000

Alloy Combustor (AISI 310)

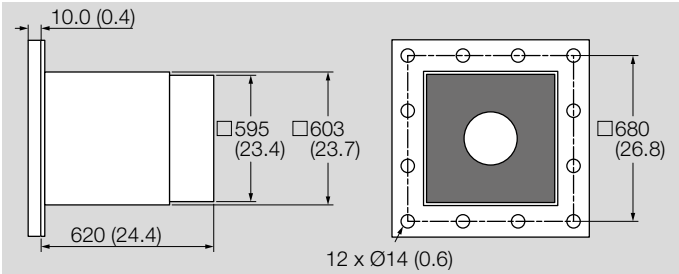


Weight: 44 lbs (20 kg)

Max. chamber temp: 1750°F (950°C) [Not suitable for pre-heated air over 700°F (371°C)]

Type	Velocity	ØA mm (inch)
TJ1500	High	Ø223 (8.8) (tapered)
TJ/TJPCA1500	Medium	Ø409 (16.1) (straight)
TJ2000	High	Ø263 (10.4) (tapered)
TJ/TJPCA2000	Medium	Ø409 (16.1) (straight)

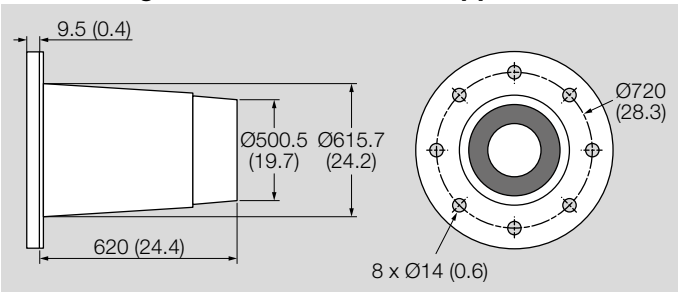
Refractory Combustor with AISI 330 wrapper



Weight: 1000 lbs (454 kg)

Max. chamber temp: 2800°F (1538°C)

Down Firing Block with AISI 330 wrapper



Dimensions in mm (inches)

Weight: 610 lbs (277 kg)

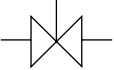
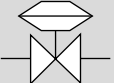
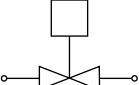
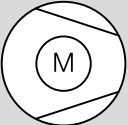
Max. chamber temp: 2800°F (1538°C)

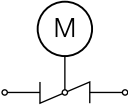
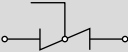
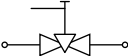
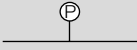
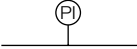
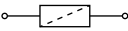
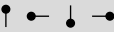
NOTE: Mounting gasket shown on right side of combustor flange. Dimensions shown do not account for mounting gasket.

6 Converting units

See www.adlatus.org

7 System Schematics

Symbol	Name	Remarks
	Gas Cock	Gas cocks are used to manually shut off the gas supply.
	Ratio Regulator	A ratio regulator is used to control the air/gas ratio. The ratio regulator is a sealed unit that adjusts the gas flow in ratio with the air flow. To do this, it measures the air pressure with a pressure sensing line, the impulse line. This impulse line is connected between the top of the ratio regulator and the air supply line. The cap must stay on the ratio regulator after adjustment.
Main Gas Shut-Off Valve Train	Main Gas Shut-Off Valve Train	Honeywell strongly endorses NFPA 756 as a minimum.
Pilot Gas Shut-Off Valve Train	Pilot Gas Shut-Off Valve Train	Honeywell strongly endorses NFPA 756 as a minimum.
	Automatic Shut-Off Valve	Shut-off valves are used to automatically shut off the gas supply on a gas system or a burner.
	Orifice Meter	Orifice meters are used to measure flow.
	Combustion Air Blower	The combustion air blower provides the combustion air to the burner(s).
	Hermetic Booster	Booster is used to increase gas pressure.

Symbol	Name	Remarks
	Automatic Butterfly Valve	Automatic butterfly valves are typically used to set the output of the system.
	Manual Butterfly Valve	Manual butterfly valves are used to balance the air or gas flow at each burner.
	Adjustable Limiting Orifice	Adjustable limiting orifices are used for fine adjustment of gas flow.
	Pressure Switch	A switch activated by rise or fall in pressure. A manual reset version requires pushing a button to transfer the contacts when the pressure set point is satisfied.
	Pressure Gauge	A device to indicate pressure
	Check Valve	A check valve permits flow only in one direction and is used to prevent back flow of gas.
	Strainer	A strainer traps sediment to prevent blockage of sensitive components downstream.
	Flexible Connector	Flexible connectors isolate components from vibration, mechanical, and thermal stresses.
	Heat Exchanger	Heat exchangers transfer heat from one medium to another.
	Pressure Taps	Pressure taps measure static pressure. The schematics show the advised positions of the pressure taps.

For more information

The Honeywell Thermal Solutions family of products includes Honeywell Combustion Safety, Eclipse, Exothermics, Hauck, Kromschroder and Maxon. To learn more about our products, visit ThermalSolutions.honeywell.com or contact your Honeywell Sales Engineer.

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