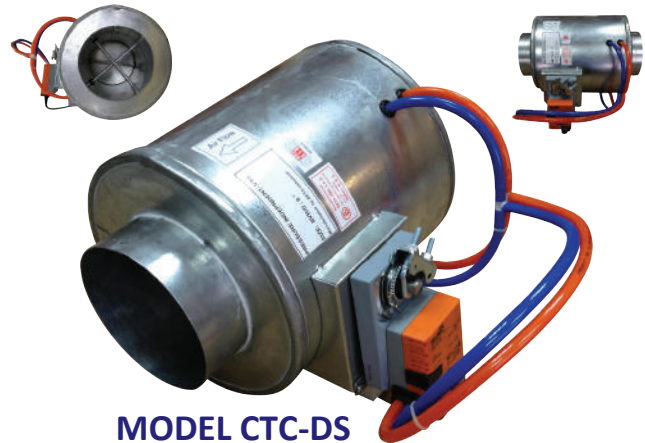




Circular-To-Circular Single Duct Variable Air Volume Terminal – Models CTC and CTC-DS

Description:

- CTC is cylindrical with circular inlet and outlet.
- Casing is made of 0.9mm & damper blade is made of 1.2mm; galvanized steel sheet.
- Blades are with rubber gasket, and self-lubricating plastic bushes.
- Damper shaft is made of solid square ½X½ inch G.I.
- Equipped with a multi-point flow-cross inlet flow sensor made of Aluminum.
- Air tightness complies with DIN 1946 Part 4. Housing leakage complies with Class II, VDI 3803 – DIN 24194.
- Model CTC-DS has Double-Skin casing with 1" insulation made of strong resilient dual density glass fibers 24kg/m³ that conform to NFPA-90A & 255, UL 181 and ASTM C665.



MODEL CTC-DS



MODEL CTC

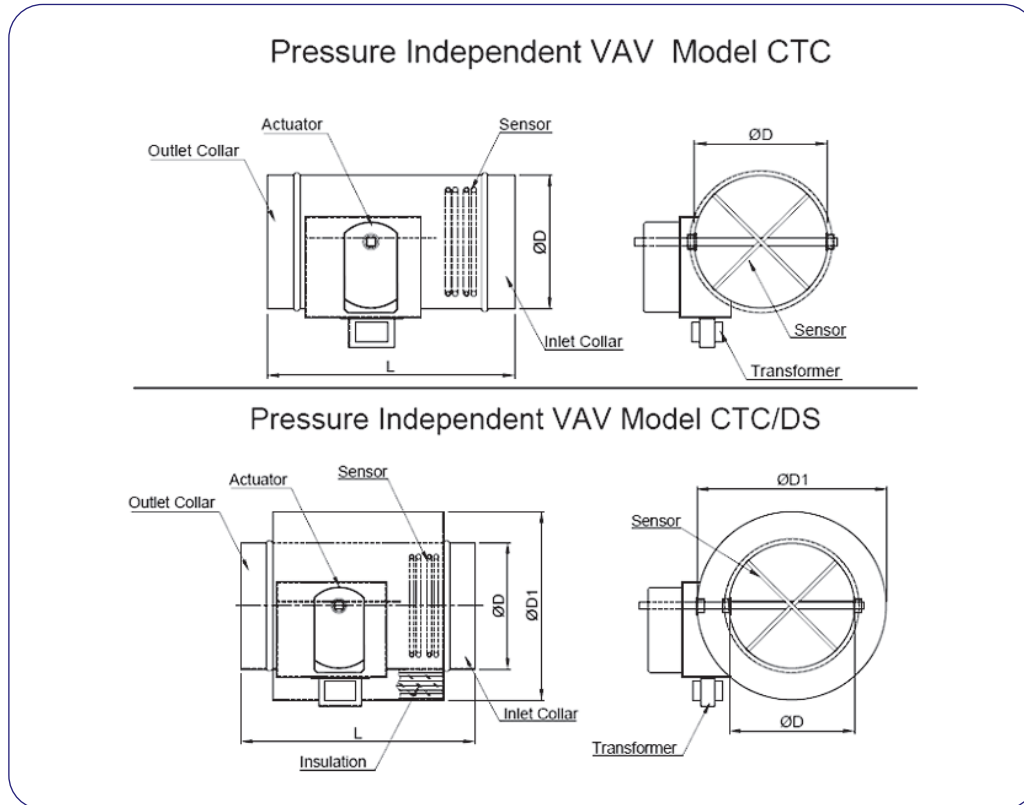
SIZE	INLET AREA		F _{min} (SENSIBLE)		F _{max} (NOMINAL)		CTC		CTC-DS
	m ²	Ft ²	m ³ /h	CFM	m ³ /h	CFM	L mm	Ø D mm	Ø D1 mm
100	0.008	0.086	76	45	435	261	375	98	200
125	0.012	0.130	148	89	826	496	375	123	225
160	0.020	0.216	257	154	1412	847	375	158	260
200	0.031	0.334	365	219	1998	1199	375	198	300
250	0.049	0.527	562	337	3115	1869	375	248	350
315	0.078	0.844	983	590	5463	3278	420	313	415
400	0.127	1.367	1441	865	7811	4687	480	398	500
500	0.196	2.110	1563	938	8513	5108	610	498	600
630	0.312	3.376	1784	1070	9770	5862	720	628	730

Note: All dimensions are with 3mm tolerance.





Circular-To-Circular Single Duct Variable Air Volume Terminal – Models CTC and CTC-DS



ORDERING KEY



C	T	C	-	-	I	O	O	L	B	S	T
CIRCULAR TO CIRCULAR PRESSURE INDEPENDENT SINGLE DUCT VAV BOX											
---: WITHOUT INSULATION (STANDARD)											
DS: INSULATION CONTAINED IN DOUBLE SKIN											
SIZE: 100, 125, 160, 200, 250, 315, 400, 500 OR 630											
L: CONTROL BOX AT LEFT SIDE OF VAV BOX (STANDARD)											
R: CONTROL BOX AT RIGHT SIDE OF VAV BOX											
ACTUATOR:											
B: BELIMO			J: JOHNSON								
G: GRUNER			S: SIEMENS								
H: HONEYWEL			O: OTHERS								
W: WITHOUT ACTUATOR											
THERMOSTAT:											
A: ACSYS			J: JOHNSON								
B: BELIMO			S: SIEMENS								
H: HONEYWELL			T: TITAN								
O: OTHERS			W: WITHOUT THERMOSTAT								
T: WITH TRANSFORMER											
---: WITHOUT TRANSFORMER											





Circular-To-Circular Single Duct Variable Air Volume Terminal – Model CTC and CTC-DS

DISCHARGE SOUND RATE

SIZE	F m ³ /h	Δ P										fm250Hz ₂
		150 Pa		300 Pa		600 Pa		1000 Pa		1500 Pa		
		Lw(A)	NR	Lw(A)	NR	Lw(A)	NR	Lw(A)	NR	Lw(A)	NR	
100	85	42	38	49	43	59	56	61	58	62	62	
	170	49	43	56	49	62	57	65	61	68	64	
	250	54	48	59	54	65	58	68	61	71	66	
	340	58	53	63	57	68	62	70	65	73	67	
125	133	42	38	48	44	56	53	59	58	65	62	
	265	51	45	56	51	62	57	65	58	68	62	
	395	56	51	62	55	66	61	69	65	72	66	
	530	61	55	65	62	69	66	71	67	74	70	
160	220	43	39	48	44	56	53	61	58	65	62	
	435	51	45	56	48	63	55	66	58	70	63	
	650	56	51	61	55	66	59	69	62	73	66	
	870	59	54	64	58	69	66	72	70	75	71	
200	340	42	38	48	45	56	53	61	58	65	62	
	680	52	45	56	49	63	56	66	62	70	66	
	1020	58	52	62	55	67	59	70	64	73	67	
	1360	63	56	66	59	70	65	73	70	75	71	
250	700	43	38	52	47	59	56	66	61	68	64	
	1050	53	48	58	51	65	57	68	63	73	68	
	1580	59	53	64	57	69	62	72	66	75	70	
	2120	64	58	67	61	71	66	74	71	76	71	
315	850	44	39	52	46	59	55	64	59	68	64	
	1690	53	45	58	52	65	57	69	62	73	67	
	2530	59	52	63	55	68	61	72	66	75	68	
	3370	64	56	66	59	72	66	75	70	78	71	
400	1400	44		52		57		63		71		
	2700	51		58		65		70		76		
	4100	55		62		70		75		80		
	5400	58		65		73		77		84		
500	2180	46		54		59		65		73		
	4300	53		61		67		73		79		
	6500	57		64		72		77		83		
	8000	61		67		75		81		85		
630	3400	48		56		62		67		75		
	6750	55		63		70		75		80		
	10200	59		66		75		79		84		
	13400	63		69		78		83		87		
SIZE	F m ³ /h	Lw(A)		Lw(A)		Lw(A)		Lw(A)		Lw(A)		
		50 Pa		100 Pa		250 Pa		500 Pa		1000 Pa		
		Δ P										

Notes:

- 1- Lw(A) is the Sound Power Level in dB(A), where NR is the Noise Rating (unitless)
- 2- F is the Air Flow in m³/h
- 3- ΔP is the Pressure Drop across the VAV box in Pa





Circular-To-Circular Single Duct Variable Air Volume Terminal – Model CTC and CTC-DS

DISCHARGE SOUND RATE

SIZE	F m ³ /h	Δ P									
		150 Pa		300 Pa		600 Pa		1000 Pa		1500 Pa	
		Lw(A)	NR	Lw(A)	NR	Lw(A)	NR	Lw(A)	NR	Lw(A)	NR
100	85	38	35	41	39	48	47	51	49	57	53
	170	43	40	47	45	51	50	54	51	58	55
	250	48	46	50	48	54	50	57	53	62	56
	340	51	49	54	50	58	56	61	57	64	59
125	133	38	35	43	42	50	49	53	52	57	56
	265	42	39	47	46	51	50	55	53	58	57
	395	47	46	50	49	54	52	56	54	61	59
	530	50	50	53	51	56	54	58	57	62	59
160	220	37	33	42	40	48	47	52	50	56	54
	435	41	39	45	41	50	47	54	50	58	55
	650	46	42	48	44	52	48	56	50	61	55
	870	50	48	51	48	55	50	58	53	63	56
200	340	38	34	43	40	50	48	54	51	58	54
	680	45	41	49	45	54	50	58	53	63	57
	1020	49	46	51	48	56	51	61	55	65	61
	1360	52	49	55	50	63	58	62	56	67	63
250	700	40	35	45	43	50	48	55	52	59	54
	1050	45	40	49	45	53	49	58	54	63	47
	1580	50	46	52	47	56	52	62	57	65	61
	2120	54	49	55	50	59	54	64	58	68	64
315	850	45	42	50	47	55	51	57	54	61	57
	1690	50	48	53	51	58	54	61	55	63	56
	2530	54	50	57	54	62	57	64	57	66	59
	3370	59	52	61	55	64	57	66	62	68	52
400	1400	45		51		56		62		70	
	2700	50		57		64		69		76	
	4100	54		61		69		74		80	
	5400	57		64		72		77		84	
500	2180	47		53		58		64		72	
	4300	52		59		66		72		78	
	6500	56		63		71		76		82	
	8000	59		66		74		80		85	
630	3400	49		55		61		66		74	
	6750	54		62		69		74		80	
	10200	58		65		74		79		84	
	13400	62		68		78		83		87	
SIZE	F m ³ /h	Lw(A)		Lw(A)		Lw(A)		Lw(A)		Lw(A)	
		50 Pa		100 Pa		250 Pa		500 Pa		100Pa	
		Δ P									

Notes:

- 1- Lw(A) is the Sound Power Level in dB(A), where NR is the Noise Rating (unitless)
- 2- F is the Air Flow in m³/h
- 3- ΔP is the Pressure Drop across the VAV box in Pa
- 4- For CTC-DS model, Radiated Noise figures would be 8-10 dB(A) less than the above values.

